



FULLY EXECUTED
Contract Number: 4400014865
Contract Effective Date: 08/24/2015
Valid From: 08/01/2015 To: 09/30/2016

All using Agencies of the Commonwealth, Participating Political
Subdivision, Authorities, Private Colleges and Universities

Your SAP Vendor Number with us: 379800

Supplier Name/Address:
FRECOM INC
P.O. Box 22
WEST GROVE PA 19390-0022 US

Supplier Phone Number: 6108693307
Supplier Fax Number: 6108693422

Contract Name:
Two-Way Radio Comm Equip & Serv

Purchasing Agent
Name: Geegee-Dugan Chri
Phone: 717-346-3826
Fax: 717-783-6241

Please Deliver To:

To be determined at
the time of the Purchase Order
unless specified below.

Payment Terms
NET 30

Solicitation No.: _____ Issuance Date: _____

Supplier Bid or Proposal No. (if applicable): _____ Solicitation Submission Date: _____

This contract is comprised of: The above referenced Solicitation, the Supplier's Bid or Proposal, and any documents attached to this Contract or incorporated by reference.

Item	Material/Service Desc	Qty	UOM	Price	Per Unit	Total
4	MobileDeviceAccess PortableHandHeldRadio	0.000		0.00	1	0.00
5	Mobile Devices Access Vehicular Radios	0.000		0.00	1	0.00
6	Mobile Devices and Access Other 2-way Ra	0.000		0.00	1	0.00
7	Mobile Devices and Access Mobile Antenna	0.000		0.00	1	0.00

Information:

Supplier's Signature _____	Title _____
Printed Name _____	Date _____



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FRECOM INC

Item	Material/Service Desc	Qty	UOM	Price	Per Unit	Total
8	Mobile Devices and Access Mobile Mounts	0.000		0.00	1	0.00
9	Mobile Devices and AccessMobile Radio Ba	0.000		0.00	1	0.00
10	Mobile Devices and AccessDevice Protecti	0.000		0.00	1	0.00
11	Mobile Devices and AccessMobile Radio Se	0.000		0.00	1	0.00
12	Fixed StationTwo-Way Radio Control Stati	0.000		0.00	1	0.00
13	Fixed StationTwo -Way Radio Consoles	0.000		0.00	1	0.00
14	Fixed StationTwo-Way Radio Base Stations	0.000		0.00	1	0.00
15	Fixed StationTwo-Way Radio Repeaters	0.000		0.00	1	0.00
16	Fixed Station Accessories and Service Eq	0.000		0.00	1	0.00
17	Fixed StationPublic Safety Interoperable	0.000		0.00	1	0.00
18	Fixed Station Voice Data Switching Equ	0.000		0.00	1	0.00

General Requirements for all Items:

Information:



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FRECOM INC

Header Text

This contract was awarded from a supplemental bid to the Statewide Two-Way Radio Communications Equipment and Accessories contract
IFB.

Frecom Inc.

No further information for this Contract

Information:

Bidder's Qualifications

Respond to the following and attach to your bid submittal

1. Did Submitter violate any of the contractor integrity provisions in connection with the submission of its offer or any contract negotiations?

YES

NO

2. In the last 4 years, has Submitter's officers, directors, associates, partners, or individual owners been charged with or convicted of, any misdemeanor or felony?

YES

NO

3. Are you an established manufacturer or an authorized manufacturer's dealer having at least 5 years of experience selling or servicing the Items covered by the Contract.

YES

NO

4. Are your installation and service personnel certified by the OEM for installation and repair, where applicable?

YES

NO

SIGNATURE

DATE

COMPANY NAME

 6/30/15 FRECOM INC.

COSTARS PROGRAM QUESTIONNAIRE

If your firm is awarded a Contract, does it agree to sell the awarded items/services at the same prices and/or discounts, and in accordance with the contractual terms and conditions, to registered COSTARS Members who elect to participate in the contract? If your answer is "YES", your firm agrees to pay the applicable Administrative Fee (\$1500 or \$500 for Qualified Small Businesses) upon contract award and each contract renewal date.

Please Answer: YES NO

If you are asserting that your firm is a Qualified Small Business, have you completed, signed and included with your bid the required Department of General Services Small Business Certification form? **Appendix C**

Please Answer: YES NO

FRECOM Inc

Corporate or Legal Entity Name

Signature/Date

1/19/2015

Charles A. Freese Pres.

Printed Name/Title

DEPARTMENT OF GENERAL SERVICES SMALL BUSINESS CERTIFICATION

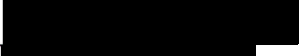
If the Bidder/Offeror is a Qualified Small Business, the Bidder/Offeror must complete, sign and submit the following certification with its Bid/Proposal.

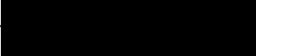
I, Charles A. Freese, being the president [title] of FRECOM Inc [Contractor], ("Contractor") do hereby certify and represent to the Commonwealth of Pennsylvania ("Commonwealth") that:

- 1. Contractor is not a subsidiary of another firm. Yes No
- 2. Contractor is not dominant in its field of operation. Yes No
- 3. Contractor employs no more than 100 full-time or full-time equivalent employees. Yes No

Total Number of Full-time or Full-time Equivalent Employees on Payroll two

- 4. Contractor earned less than \$20,000,000 in gross annual revenues (\$25,000,000 in gross annual revenues for those businesses in the information technology sales or service business) in each of its last two fiscal years. Yes No

Gross Annual Revenues in its Last Fiscal Year \$ 

Gross Annual Revenues in its Preceding Fiscal Year \$ 

- 5. If Contractor is a new business (less than 1 year), Contractor has an approved business plan by the Small Business Development Center or by a Pennsylvania Enterprise Center authorized by the Minority Development Agency of the United States Department of Commerce. Yes No
- 6. The information and certifications provided by Contractor are material and important and will be relied upon by the Commonwealth in awarding the contract. The Department shall treat any misstatement as fraudulent concealment of the true facts punishable under Section 4904 of the Pennsylvania Crimes Code, Title 18, of Pa. Consolidated Statutes.

Attest or Witness:

FRECOM Inc.
Corporate or Legal Entity's Name

 6/30/15
Signature/Date

 6/30/15
Signature/Date

Susan D. Hogg, Sect.
Printed Name/Title

Charles A. Freese
Printed Name/Title
President

DOMESTIC WORKFORCE UTILIZATION CERTIFICATION

Each proposal will be scored for its commitment to use the domestic workforce in the fulfillment of the contract. Maximum consideration will be given to those offerors who will perform the contracted direct labor exclusively within the geographical boundaries of the United States. Those who propose to perform a portion of the direct labor outside of the United States will receive a correspondingly smaller score for this criterion.

In order to be eligible for any consideration for this criterion, offerors must complete and sign the following certification. This certification will be included as a contractual obligation when the contract is executed. Failure to complete and sign this certification will result in no consideration being given to the offeror for this criterion.

I, president [title] of FRECOM Inc [name of Contractor] a PA [place of incorporation] corporation or other legal entity, ("Contractor") located at 435 W. Baltimore Pike, West Grove PA 19390 [address], having a Social Security or Federal Identification Number of [redacted], do hereby certify and represent to the Commonwealth of Pennsylvania ("Commonwealth") (Check **one** of the boxes below):

All of the direct labor performed within the scope of services under the contract will be performed exclusively within the geographical boundaries of the United States.

OR

100 percent (100%) [Contractor must specify the percentage] of the direct labor performed within the scope of services under the contract will be performed within the geographical boundaries of the United States. Please identify the direct labor performed under the contract that will be performed outside the United States: _____

[Use additional sheets if necessary]

The Department of General Services [or other purchasing agency] shall treat any misstatement as fraudulent concealment of the true facts punishable under Section 4904 of the *Pennsylvania Crimes Code*, Title 18, of Pa. Consolidated Statutes.

Attest or Witness:

[redacted signature] 1/19/15
Signature/Date

Christopher Freese Vice president
Printed Name/Title

FRECOM Inc
Corporate or Legal Entity's Name
[redacted signature] 1/19/15
Signature/Date

Charles A. Freese pres.
Printed Name/Title

June 29, 2015

FreCom Inc
Attention: Chip Freese
435 West Baltimore Pike
West Grove, PA 19390
610-869-3307 office
610-869-3422-fax

To Whom This May Concern:

This is to confirm that FreCom Inc, with offices in West Grove, PA, has been a reseller and qualified channel partner for Hytera products since 2010. Their area of responsibility is Chester County and adjacent counties in southeastern Pennsylvania. In addition Hytera has engineering and technical support to assist FreCom with its strategic customers in Pennsylvania.

Thank you for your interest in Hytera products and services please; please feel free to contact me with any additional questions you might have.

Very truly yours,

Robert T. Ihle
IXM Enterprises Inc
Designated Manufacturer Representative For
Hytera America, Inc.
3315 Commerce Parkway
Miramar, FL 33025



Frecom, Inc.
Mr. Chuck Freese
435 West Baltimore Pike
West Grove, PA, 19390

June 20, 2013

Dear Chuck:

This letter serves as notification of Frecom, Inc. is an Authorized Vertex Standard Two Way Radio Dealer. You are free to use Vertex Standard's Authorized Dealer Logo to promote your business. Additionally, you are authorized to perform Warranty Service on Vertex Standard two way radios as well as selling new Vertex Standard Equipment.

Wireless Solutions is the Master Distributor assigned by Vertex Standard to provide you with equipment and assistance as needed.

Thank you for your loyalty to Vertex Standard.

Regards,



Billy Daubenmire
Sales Manager



2720 E. Phillips Rd.
Greer, SC 29650
Phone: 864-281-0217
Fax: 864-281-0311
& 888-828-0311

STATE OF MANUFACTURE CHART

THIS FORM MUST BE COMPLETED AND RETURNED WITH THE BID

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

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

<u>ITEM NUMBER</u>	<u>NAME OF MANUFACTURER</u>	<u>STATE (OR FOREIGN COUNTRY) OF MANUFACTURE</u>
Two-Way Radio	Vertex Standard	Illinois
Two-Way Radio	Hytera	Florida
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█

BIDDER'S RESIDENCY

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

Correct Address:

█
█
█

Item No	Radio Equipment Category	Manufacturer	Price List ID & Date	%Discount from List
Mobile Devices and Accessories				
1	Portable Hand Held Radios	Hytera	Hytera MSRP	28%
2	Vehicular Radios	Hytera	Hytera MSRP	28%
3	Other 2-way Radios and Accessories	Hytera	Hytera MSRP	28%
4	Mobile Antennas and Amplifiers	Hytera	Hytera MSRP	28%
5	Mobile Mounts and Power	Hytera	Hytera MSRP	28%
6	Mobile Radio Batteries and Chargers	Hytera	Hytera MSRP	28%
7	Device Protection and Carry Cases	Hytera	Hytera MSRP	28%
8	Mobile Radio Service Equipment	Hytera	Hytera MSRP	28%
Fixed Station				
9	Two-Way Radio Control Stations	Hytera	Hytera MSRP	28%
10	Two -Way Radio Consoles	Hytera	Hytera MSRP	28%
11	Two-Way Radio Base Stations	Hytera	Hytera MSRP	28%
12	Two-Way Radio Repeaters	Hytera	Hytera MSRP	28%
13	Accessories and Service Equipment	Hytera	Hytera MSRP	28%
14	Public Safety Interoperable Communications Equipment	Hytera	Hytera MSRP	28%
15	Voice and Data Switching Equipment	Hytera	Hytera MSRP	28%
Testing Equipment				
16	RF Antenna and Equipment Analyzers			
17	Spectrum Analyzers			
18	Frequency Counters			
19	Service Monitors			
20	Signal Generators			
21	Other 2-way radio test equipment			
Network Infrastructure and Remote Communication Sites				
Construction to install is NOT authorized. Refer to section: SERVICES and COSTARS.				
22	Antenna Structures, Towers and Poles			
23	Telecommunication Enclosures and Shelters			
24	Communication Site Hardware			
25	Communication Site Power Systems			
		Generator Systems		
		Back up Batteries for DC Power Supplies		
		Wind and Solar Systems		
26	*Remote Site Liquid Propane Storage Tanks			
27	Transmission Lines and Accessories			
28	Base Site Antennas and Filters			
		Radio Communications		
		Microwave		
		Broadband		
29	Bi-Directional Amplifiers			
30	Remote Facility Monitoring , Security and Surveillance Equipment			
31	*Remote Facility Chain Link Fence and Gate			
32	*Grounding and Bonding of Electrical Systems and Equipment			
	*Note: Specifications attached to bid.			

Radio Equipment Category		Manufacturer	Price List ID & Date	%Discount from List
Mobile Devices and Accessories				
	Portable Hand Held Radios	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Vehicular Radios	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Other 2-way Radios and Accessories	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Mobile Antennas and Amplifiers	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Mobile Mounts and Power	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Mobile Radio Batteries and Chargers	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Device Protection and Carry Cases	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Mobile Radio Service Equipment	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
Fixed Station				
	Two-Way Radio Control Stations	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Two-Way Radio Consoles	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Two-Way Radio Base Stations	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Two-Way Radio Repeaters	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Accessories and Service Equipment	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Public Safety Interoperable Communications Equipment	Vertex Standard	Vertex Standard LMR price book 6/26/2015	28%
	Voice and Data Switching Equipment			
Testing Equipment				
	RF Antenna and Equipment Analyzers			
	Spectrum Analyzers			
	Frequency Counters			
	Service Monitors			
	Signal Generators			
	Other 2-way radio test equipment			
Network Infrastructure and Remote Communication Sites				
Construction to install is NOT authorized. Refer to section: SERVICES and COSTARS.				
	Antenna Structures, Towers and Poles			
	Telecommunication Enclosures and Shelters			
	Communication Site Hardware			
	Communication Site Power Systems			
		Generator Systems		
		Back up Batteries for DC Power Supplies		
		Wind and Solar Systems		
	*Remote Site Liquid Propane Storage Tanks			
	Transmission Lines and Accessories			
	Base Site Antennas and Filters			
		Radio Communications		
		Microwave		
		Broadband		
	Bi-Directional Amplifiers			
	Remote Facility Monitoring, Security and Surveillance Equipment			
	*Remote Facility Chain Link Fence and Gate			
	*Grounding and Bonding of Electrical Systems and Equipment			
	*Note: Specifications attached to bid.			

Brand	Group	Item	Description	MSRP
HYT	HYT Accessories	ACN-01	PTT&MIC cable(for use with Receive-Only Earpiece)	26.00
HYT	HYT Accessories	AN0141H01	VHF stout and long antenna SMA connector 136-147MHz PD78X PD70X	20.00
HYT	HYT Accessories	AN0141H03	ANTENNA VHF SMA 136-147MHz/1575MHz (RoHS) 17cm 6.7inches	20.00
HYT	HYT Accessories	AN0143H04	VHF Stout - Long Antenna SMA 136-150 MHz BLUE BAND	11.73
HYT	HYT Accessories	AN0148H03	ANTENNA VHF STUBBY 144-154MHz/1575MHz SMA MALE 9CM (ROHS)	41.60
HYT	HYT Accessories	AN0153H02	VHF stout and long antenna SMA connector 147-160MHz PD78X PD78GX PD70X PD70XG	20.53
HYT	HYT Accessories	AN0155H02	VHF ANTENNA SMA CONNECTOR 136-174MHz/1575MHz PD70X PD70XG 8IN LENGTH	30.00
HYT	HYT Accessories	AN0158H02	ANTENNA VHF STUBBY 153-164MHz/1575MHz SMA MALE 9CM (ROHS)	41.60
HYT	HYT Accessories	AN0160H01	VHF Stubby antenna - SMA connector 145-175 MHz	11.73
HYT	HYT Accessories	AN0160H14	Antenna VHF SMA Connector 146-174MHz	11.73
HYT	HYT Accessories	AN0167H03	Antenna VHF SMA 160-174MHz/1575MHz AN0167H03(RoHS)	20.00
HYT	HYT Accessories	AN0168H01	ANTENNA VHF STUBBY 163-174MHz/1575MHz SMA MALE 9CM (ROHS)	41.60
HYT	HYT Accessories	AN0350H01	ANTENNA UHF SMA 330-370MHz/1575MHz AN0350H01(RoHS)	20.00
HYT	HYT Accessories	AN0375H02	ANTENNA UHF SMA 350-400MHz/1575MHz AN0375H01(RoHS)	20.00
HYT	HYT Accessories	AN0380H01	UHF STUBBY ANTENNA 370-390MHz SMA CONNECTOR	11.73
HYT	HYT Accessories	AN0410H20	UHF stubby R connector 400-420MHz TC320	11.73
HYT	HYT Accessories	AN0410W04	UHF Fine - Long Antenna - SMA Connector 400-420 MHz TC-500	10.00
HYT	HYT Accessories	AN0415H02	UHF Stubby Antenna - SMA Connector 400-430 MHz	11.73
HYT	HYT Accessories	AN0415H03	UHF Stubby Antenna - SMA Connector 400-430 MHz TC-600	10.00
HYT	HYT Accessories	AN0415W02	UHF Fine - Long Antenna - SMA Connector 400-430 MHz	11.73
HYT	HYT Accessories	AN0415W08	UHF Fine - Long Antenna - SMA Connector 400-430 MHz	11.73
HYT	HYT Accessories	AN0425H01	UHF Stubby Antenna - SMA Connector 400-450 MHz	11.73
HYT	HYT Accessories	AN0425W02	UHF Fine - Long Antenna - SMA Connector 400-450 MHz	11.73
HYT	HYT Accessories	AN0425W04	UHF Fine - Long Antenna - SMA connector 400-450MHz PRS AN0425W04 (RoHS)	11.73
HYT	HYT Accessories	AN0435H02	UHF Stubby antenna 400-470MHz/1575MHz SMA connector PD78X PD70X PTS580H GPS	20.00
HYT	HYT Accessories	AN0435H06	Stubby Antenna SMA-male Connector 9cm 400-470/1575MHz UHF Logo AN0435H06 (RoHS)	41.60
HYT	HYT Accessories	AN0435H10	UHF STUBBY R CONNECTOR 420-450MHz PRS (RoHS) TC320 SPECIAL ORDER ITEM	11.73
HYT	HYT Accessories	AN0435H13	ANTENNA 400-470MHz SMA 9CM HYTERA LOGO	23.40
HYT	HYT Accessories	AN0435W07	Antenna Niti 400-470MHz (U1) Titanium antenna (UHF/GPS)	49.40
HYT	HYT Accessories	AN0445H03	UHF Stubby Antenna - SMA Connector 420-470 MHz	11.73
HYT	HYT Accessories	AN0445W04	UHF Fine - Long Antenna - SMA Connector 420-470 MHz-Red Band TC-700	11.73
HYT	HYT Accessories	AN0455H02	UHF Stubby Antenna - SMA Connector 440-470 MHz	11.73
HYT	HYT Accessories	AN0455W02	UHF Fine - Long Antenna - SMA Connector 440-470 MHz TC-x68 TC-x70 TC-600	11.73
HYT	HYT Accessories	AN0460H03	UHF Antenna - SMA Connector 450-470 MHz TC-500	11.73
HYT	HYT Accessories	AN0460H11	UHF stubby R connector 450-470MHz TC320	11.73
HYT	HYT Accessories	AN0460W08	UHF Fine - Long Antenna - SMA Connector 450-470 MHz TC-500	11.73
HYT	HYT Accessories	AN0460W17	UHF Antenna 450-470 MHz SMA TC-2108	13.33
HYT	HYT Accessories	AN0460W19	UHF Long and fine antenna SMA connector 440-470MHz PRS AN0460W19(RoHS)	11.73
HYT	HYT Accessories	AN0465H03	UHF Stubby Antenna - SMA Connector 440-490 MHz	11.73
HYT	HYT Accessories	AN0465W01	UHF Fine - Long Antenna - SMA Connector 440-490 MHz	11.73
HYT	HYT Accessories	AN0480W01	UHF Antenna 470-490 MHz TC-368S	8.80
HYT	HYT Accessories	AN0485H01	UHF STUBBY ANTENNA 450-520MHzSMA CONNECTOR 9CM/3.5 INCHES	16.67
HYT	HYT Accessories	AN0485H04	UHF Stubby Antenna 450-520MHz SMA-M Connector 9CM/3.5 Inches X1 & PD6 Series	16.67
HYT	HYT Accessories	AN0495W04	UHF Fine - Long Antenna - SMA 470-520MHz PRS AN0495W04 (RoHS)	11.73
HYT	HYT Accessories	AN0873H02	Antenna UHF SMA 806-941MHz/1575MHz Hytera Logo (RoHS)	23.40
HYT	HYT Accessories	BC08	Belt Clip Only- Mounting screws sold seperately-HYT-7103006001000	5.87
HYT	HYT Accessories	BC09	Belt Clip - Attach to Battery	5.87
HYT	HYT Accessories	BC10	BELT CLIP METAL SPRING ASSY FOR TC-500	5.87
HYT	HYT Accessories	BC11	Belt Clip	5.87
HYT	HYT Accessories	BC12	Spring Belt Clip (Uses screws HYT-7103006004000 not included)	5.87
HYT	HYT Accessories	BC16	BELT CLIP TC320 HYT BRANDED (CLIP only-screws sold seperately-HYT-7125006000000	5.87
HYT	HYT Accessories	BC19	Spring Belt Clip DMR Portable- Screws (HYT-7103006004000) sold seperately	5.87
HYT	HYT Accessories	BRK03	INSTALLATION BRACKET TM800 1501008001000	20.53
HYT	HYT Accessories	BRK04	INSTALLATION BRACKET TM600 TM610 TM628H	20.53
HYT	HYT Accessories	BRK08	INSTALLATION BRACKET MD78x	18.20
HYT	HYT Accessories	BRK09	DUPLEXER INSTALLATION KIT FOR DMR REPEATER	71.50
HYT	HYT Accessories	BRK11	INSTALLATION BRACKET MT680 TETRA	20.53
HYT	HYT Accessories	BRK15	IN-DASH MOUNTING KIT (DIN)	50.00
HYT	HYT Accessories	CH04L01	PORTABLE CHARGER FOR THE X1 SERIES	117.04
HYT	HYT Accessories	CH05L01	Rapid-Rate Charger (Base Only)	14.67
HYT	HYT Accessories	CH05N03-PS1014	MCU Rapid-Rate Charger 12VDC 1A 850mA	32.27
HYT	HYT Accessories	CH10A03-PS1014	Desktop Rapid-Rate Charger 12VDC 1A 850mA	38.13
HYT	HYT Accessories	CH10A05-PS2002	CHARGER MCU DUJALSLOTS PD78X/PD70X/PTS80H/PD79XEX	76.07
HYT	HYT Accessories	CH10A07-PS1014	Rapid-Rate Charger (Li-ion / Ni-MH) with PS1014 transformer	48.77
HYT	HYT Accessories	CH10L03-PS1014	MCU Rapid-Rate Charger 12VDC 1A 850mA	36.67
HYT	HYT Accessories	CH10L07-PS1014	Desktop Rapid-Rate Charger 110/240 W PS1014	46.93
HYT	HYT Accessories	CH10L11-EX-PS1014	Desktop Rapid-Rate Charger 110/240 W-PS1014 TRF AND POWER CABLE	52.80
HYT	HYT Accessories	CH10L19-PS1014	Rapid-Rate Charger and Transformer TC508 TC518 TC580	32.27
HYT	HYT Accessories	CH10N02-PS1014	MCU Rapid Charger 12VDC 1A 850mA	41.07
HYT	HYT Accessories	CHV09	Vehicle Charger Adapter 11-25V DC 12V/1A DC	63.70
HYT	HYT Accessories	CP02	Cloning Cable (FZX-6) TC-500 TC-600 TC-1600 TC-6x0	11.73
HYT	HYT Accessories	CP03	CLONING CABLE (CONTACT PIN TYPE EARPIECE PLUG)	11.73
HYT	HYT Accessories	CP05	Cloning Cable TC-700 TC-6x0	11.73
HYT	HYT Accessories	CP06	Cloning Cable TM-6x0 TM-800	8.80
HYT	HYT Accessories	EAM08	Surveillance Earpiece with On-Mic PTT and Transparent Acoustic Tube	26.40
HYT	HYT Accessories	EAM12	Surveillance Earpiece with On-Mic PTT and Transparent Acoustic Tube VOX	32.27
HYT	HYT Accessories	EAM13	Surveillance Earpiece 2-Wire with Transparent Tube, PTT and VOX	32.50
HYT	HYT Accessories	EAN02	Surveillance Earpiece 3-Wire with VOX and Transparent Acoustic Tube (Black)	35.20
HYT	HYT Accessories	EAN03	Earpiece with In-Line PTT with Transparent Acoustic Tube	29.33
HYT	HYT Accessories	EAN04	Surveillance Earpiece with On-Mic PTT and Transparent Acoustic Tube	35.20
HYT	HYT Accessories	EAN06	Surveillance Earpiece 3-Wire with VOX and Transparent Acoustic Tube (Beige)	35.20
HYT	HYT Accessories	EAN07	Surveillance Earpiece 2-Wire with Transparent Tube, Volume Control, PTT and VOX	35.20
HYT	HYT Accessories	EAN18	Surveillance Earpiece 3-Wire with Transparent Acoustic Tube (Black)	58.67
HYT	HYT Accessories	EAN23	Earpiece, w/ On-Mic PTT,DMR	53.30
HYT	HYT Accessories	EBN04-EX	BONE CONDUCTION HEADSET (RoHS) I.S.	1,430.90
HYT	HYT Accessories	ECN20-EX	Heavy Duty Headset with PTT ATEX	1,796.64
HYT	HYT Accessories	EHM04	Conventional Earpiece with in-line mic	8.80
HYT	HYT Accessories	EHM15	D-Earset In-Line Microphone PTT and VOX	26.40
HYT	HYT Accessories	EHN07	D-Earset In-Line Microphone PTT, VOX and Volume Control	32.27
HYT	HYT Accessories	EHN12	D-Earset with In-Line Mic and PTT	44.00
HYT	HYT Accessories	EHN16	C-EARSET	39.00
HYT	HYT Accessories	EHN17	Earpiece Swivel	41.60
HYT	HYT Accessories	EHS09	Conventional Earpiece with PTT and VOX	13.20
HYT	HYT Accessories	EHS12	Conventional Earpiece with In-Line PTT	11.73
HYT	HYT Accessories	EHS13	Earpiece with inline PTT/mic and VOX w/set screw	8.57
HYT	HYT Accessories	EHW02	BLUETOOTH EARPIECE DOUBLE BUTTON X1e X1p	258.71
HYT	HYT Accessories	ELN05-EX	THROAT VIBRATING EARPIECE (RoHS) I.S.	1,430.90
HYT	HYT Accessories	ES-02	Receive only earpiece with transparent tube	27.30
HYT	HYT Accessories	ESM01-EX	Intrinsically Safe Earbud with In-Line PTT	41.07
HYT	HYT Accessories	ESM08	Earbud with On-Mic PTT and Volume Control	20.53
HYT	HYT Accessories	ESM12	Earbud with On-Mic PTT and VOX	20.53
HYT	HYT Accessories	ESN06	Earbud with On-Mic PTT and Volume Control	32.27
HYT	HYT Accessories	ESN12	EARBUD	35.10

HYT	HYT Accessories	ESS01	Receive-only Earpiece	5.87
HYT	HYT Accessories	ESS07	Receive-Only Earbud for Remote Speaker Mic Use Only	8.80
HYT	HYT Accessories	ESW01-N1	Wireless Earpiece Kit PD7and PT5 Series	288.61
HYT	HYT Accessories	GPS04	GPS Antenna SMA connector, 1575MHz , 3 meters cable (DAM1575)	16.67
HYT	HYT Accessories	HC2100Q	BASE CHARGER 50HZ TC2100	26.67
HYT	HYT Accessories	HC3000LI-PDS-268	Charger 110V TC-3x00	53.33
HYT	HYT Accessories	HNK100	HEADSET ONLY, DUAL MUFF HIGH NOISE BEHIND THE HEAD-PTT CORD MUST BE PURCHASED SEPERATELY	245.00
HYT	HYT Accessories	HNKW-700-1	CABLE ASSY PTT LARGE FOR HNK100 HEADSET 2 PIN SCREW TYPE	65.00
HYT	HYT Accessories	HNKW-PDX-LG	CABLE ASSY PTT LARGE FOR HNK100 HEADSET PD70X/PD78X DMR	106.67
HYT	HYT Accessories	HY1010-3BP	HARD LEATHER CARRYING CASE SWIVEL CLIP BLACK TC-320	26.17
HYT	HYT Accessories	HY1050-AWD-KIT	LEATHER CASE, PD78X, SWIVEL, D-RINGS, NYLON SHOULDER STRAP WITH HYTERA LOGO ON SIDES	53.80
HYT	HYT Accessories	HY1050-CAWD Kit	NYLON CASE, PD78X, SWIVEL, D-RINGS, NYLON SHOULDER STRAP, PLASTIC FACE COVER FOR DISPLAY, KEYS OPEN	48.00
HYT	HYT Accessories	HY1055-3BWD KIT	LEATHER CASE, PD70X SWIVEL, D-RINGS, NYLON SHOULDER STRAP	53.80
HYT	HYT Accessories	HY1055-CBWD KIT	NYLON CASE, PD70X SWIVEL, D-RINGS, NYLON SHOULDER STRAP	45.13
HYT	HYT Accessories	HY1080-3BW	HARD LEATHER CARRYING CASE SWIVEL CLIP BLACK TC-610/610P	46.40
HYT	HYT Accessories	HY2000-3BP	HARD LEATHER CASE SWIVEL CLIP BLACK TC508	38.90
HYT	HYT Accessories	HY2020-CBP	CARRYING CASE NYLON SWIVEL CLIP BLACK X1	29.50
HYT	HYT Accessories	HY2020-SBP	SOFT LEATHER CARRYING CASE SWIVEL CLIP BLACK X1	29.23
HYT	HYT Accessories	HY3000-3BP	CASE HARD LEATHER, W/ SWIVEL PD50X	37.57
HYT	HYT Accessories	HY3000-CBP	NYLON CASE, W/ SWIVEL PD50X	31.00
HYT	HYT Accessories	HYTANT2100-150	VHF Antenna 150-174 MHz Red Dot TC-2100	11.73
HYT	HYT Accessories	HYTANT2108-150	VHF Antenna 150-174 MHz TC-2108	11.73
HYT	HYT Accessories	HYTANT2108-450	UHF Antenna 450-470 MHz TC-2108	11.73
HYT	HYT Accessories	HYTANT2108-450STUBBY	UHF Stubby Antenna 450-470 MHz TC-2108	11.73
HYT	HYT Accessories	HYTANT2685-136	VHF Antenna 136-155 MHz TC-2685	11.73
HYT	HYT Accessories	HYTANT270-150	VHF Antenna 150-174 MHz TC-270	11.73
HYT	HYT Accessories	HYTANT36870-450	UHF Antenna 450-470 MHz TC-3685	13.33
HYT	HYT Accessories	HYTANT3685-490	UHF Antenna 490-512 MHz TC-3685	11.73
HYT	HYT Accessories	HYTANT370-450	UHF Antenna 450-470 MHz TC-370	11.73
HYT	HYT Accessories	HYT-PS0601	Transformer TC320 Euro Standard plug	13.20
HYT	HYT Accessories	HYT-PS0602	Transformer TC320 US Standard plug	13.20
HYT	HYT Accessories	HYT-PS1010	Power adapter	20.53
HYT	HYT Accessories	HYT-PS1014	POWER ADAPTER 110-240VAC US STD PLUG	17.60
HYT	HYT Accessories	HYT-PS7501	Power adapter switching MCU MCN05/MCA02/MCA03/MCL15	120.27
HYT	HYT Accessories	LCBN13	Universal Nylon Chest Pack for Portable- Black (ROHS)	44.00
HYT	HYT Accessories	LCBN35	LEATHER CARRY CASE HALF-FACE MODEL TC700	41.07
HYT	HYT Accessories	LCBN37	Leather Carrying Case - Swivel TC-600	46.93
HYT	HYT Accessories	LCBN41	Leather Carrying Case TC-700 Swivel for BL1703	44.00
HYT	HYT Accessories	LCBN42	Leather Carrying Case TC-700 High Cap Battery Swivel	44.00
HYT	HYT Accessories	LCBN43	Leather Carrying Case - Swivel TC-500	44.00
HYT	HYT Accessories	LCBN57	Leather Carrying Case Non-Swivel TC-700EXPLUS	58.67
HYT	HYT Accessories	LCBY22	Leather Carrying Case - Swivel	44.00
HYT	HYT Accessories	LCY003	Leather Carring Case (Swivel) Soft Leather	39.00
HYT	HYT Accessories	LCY005	Leather Carring Case (Swivel) Soft Leather PD79Xex	62.40
HYT	HYT Accessories	LCY002	Waterproof Bag	11.13
HYT	HYT Accessories	NCN001	Carrying Case OPEN FACE (nylon) (non-swivel) (black)	14.67
HYT	HYT Accessories	NCN004	Carry Strap Wrist holder/carrier - Nylon	13.20
HYT	HYT Accessories	NCN009	VEST FOR COVERT RADIO X1e	156.04
HYT	HYT Accessories	NCN011	Nylon Carrying Jacket PD50X PD60X PD66X PD68X	23.40
HYT	HYT Accessories	PCN003	CARRYING CASE (NON-SWIVEL) BLACK TC-320 PU	14.67
HYT	HYT Accessories	PDS268	POWER SUPPLY 100V / 240V TC-700 (PS1009)	23.33
HYT	HYT Accessories	POA02	REPLACEMENT EARPIECE PART WITH TRANSPARENT ACOUSTIC TUBE KIT	8.80
HYT	HYT Accessories	POA15	DC Fuse 10A 32V (TX Power < 25)	1.47
HYT	HYT Accessories	POA18	REMOTE RING PTT SWITCH	11.73
HYT	HYT Accessories	POA38	BATTERY ADAPTER	26.00
HYT	HYT Accessories	POA44	FOOT SWITCH (EXTERNAL PTT) (RoHS)	63.70
HYT	HYT Accessories	POA59	Battery Adapter (for MCA08 and MCA10)(RoHS)	14.30
HYT	HYT Accessories	PS4001	SIX PORT SWITCHING POWR SUPPLY TC320 US PLUG	88.00
HYT	HYT Accessories	PS7002	SIX UNIT SWITCHING POWER SUPPLY 100-240VAC 12VDC 7A (ROHS)	173.57
HYT	HYT Accessories	PV1001	VEHICLE POWER ADAPTER	23.47
HYT	HYT Accessories	PWC05	Vehicle Power Cord 3m 15A	44.00
HYT	HYT Accessories	PWC06	Vehicle Power Cord 3m 10A	44.00
HYT	HYT Accessories	PWC10	Vehicle Power Cord 3m 15A (DMR)	35.20
HYT	HYT Accessories	PWC11	DC Power Cord 3m 10A (Repeater)	44.00
HYT	HYT Accessories	RCC01	Remote Mount Kit 3 meters	161.34
HYT	HYT Accessories	RCC03	Remote Mount Kit 15 meters	352.01
HYT	HYT Accessories	RCC04	Remote Mount kit for DMR Mobile (Including Control head) 3M	296.41
HYT	HYT Accessories	RCC07	Remote Mount kit DMR No control head 6M cable *ONLY WORKS with 2012 series and newer	322.41
HYT	HYT Accessories	RO01	Nylon Neck Strap	1.30
HYT	HYT Accessories	RO03	Nylon Hand Strap	5.87
HYT	HYT Accessories	RO04	Leather Hand Strap	5.87
HYT	HYT Accessories	RO05	Nylon Hand Strap	5.87
HYT	HYT Accessories	SCT01	ANTENNA	11.73
HYT	HYT Accessories	SM07R1	Palm Microphone with Keypad (Analog)	88.00
HYT	HYT Accessories	SM07R2	Palm Microphone (Analog)	61.60
HYT	HYT Accessories	SM08M1-EX	Intrinsically Safe Remote Speaker Microphone	88.00
HYT	HYT Accessories	SM08M2	Remote Speaker Microphone (without screw)	35.20
HYT	HYT Accessories	SM08M3	Remote Speaker Microphone (with screw)	35.20
HYT	HYT Accessories	SM08N1	Remote Speaker Microphone	41.07
HYT	HYT Accessories	SM08R1	Palm Microphone (Repeater)	35.20
HYT	HYT Accessories	SM09D1	External Speaker (DB26 Contact Pin)	70.20
HYT	HYT Accessories	SM09S2	External Speaker (Single Pin 3.5mm)	96.80
HYT	HYT Accessories	SM10A1	Desktop Microphone (10-pin Aviation Connector)	102.67
HYT	HYT Accessories	SM10R2	Desktop Microphone RJ45	88.00
HYT	HYT Accessories	SM11R1	Palm Microphone (Analog)	46.93
HYT	HYT Accessories	SM13M1	Remote Speaker Microphone IP55	82.13
HYT	HYT Accessories	SM13N5	Remote Speaker Microphone IP55	85.07
HYT	HYT Accessories	SM16A1	Palm Microphone IP54	67.47
HYT	HYT Accessories	SM18N2	Remote Speaker Microphone IP57	91.00
HYT	HYT Accessories	SM18N3	Remote Speaker Microphone (IP57)	130.00
HYT	HYT Accessories	SM18N4-EX	Remote Speaker Microphone IP67 I.S. PD79Xex	163.67
HYT	HYT Accessories	SM19A1	Palm Microphone with Keypad	120.00
HYT	HYT Accessories	SM20A1	HANDSET FOR MD78X Tier II only	216.67
HYT	HYT Accessories	SM20A2	Telephone Style Handset with Keypad DMR Tier II and III	286.01
HYT	HYT Accessories	ZZ3100	REPLACEMENT SWIVER BELT CLIP	22.67
HYT	HYT Batteries	BH1104	Battery Ni-MH 1100 mAh 6.V TC-500	29.39
HYT	HYT Batteries	BH1502	Battery Ni-MH Battery (1500mAh) TC268/368/268S/368S	41.15
HYT	HYT Batteries	BL1103	Battery Li-ion 1100 mAh (ROHS) X1e/X1p	112.02
HYT	HYT Batteries	BL1203	Battery Li-Ion 1250 mAh 7.2V TC-600	41.15
HYT	HYT Batteries	BL1204	Battery Li-Ion 1200 mAh 7.4V	47.03
HYT	HYT Batteries	BL1502	Battery Li-ion 1500mAh for PD5 and PD6 Series	59.92
HYT	HYT Batteries	BL1703	Battery Li-ion 1700 mAh 7.4V TC-700	58.78
HYT	HYT Batteries	BL1703-EX	Battery Li-ion 1700mAh 7.4V TC-700 FM APPROVED	235.14
HYT	HYT Batteries	BL1715	Battery Li-ion Battery (1700mAh) TC320 BATTERY ONLY	23.51

HYT	HYT Batteries	BL1719	Battery Li-Ion 1650mAh	54.38
HYT	HYT Batteries	BL1806	Battery Li-ion 1800mAh PT580H	130.26
HYT	HYT Batteries	BL1807-Ex	Intrinsically safe Li-ion battery(1800mAh) Hytera LOGO (RoHS) PD79Xex	254.04
HYT	HYT Batteries	BL1809	Battery Li-ion 1800 mAh (ROHS) X1 Series Std Battery	156.31
HYT	HYT Batteries	BL2001	Battery 2000 mAh Li-Ion 7.4 V	73.48
HYT	HYT Batteries	BL2006	Battery Li-ion 2000 mAh IP67	102.87
HYT	HYT Batteries	BL2102	Battery Li-ion 2100 mAh 7.4V TC700	73.48
HYT	HYT Batteries	BL2407	Battery Li-Ion 2400mAh	70.54
HYT	HYT Batteries	BL2503	Battery Li-ion 2500 mAh IP67 for PD7 Series	106.88
HYT	HYT Batteries	BL2505	BATTERY LI-ION 2500mAh PT580H	138.08
HYT	HYT Manual Price	TX-90	PATROL SPOT TX RADIO 434M 1003000900019	129.00
HYT	HYT Manual Price	WMC	CABINET, WALL MOUNT BLACK, 9RMS 20.5" X 20" (9ru)	603.00
HYT	HYT Multi-Charger	MCA02	Rapid-Rate Multi Unit Charger	279.00
HYT	HYT Multi-Charger	MCA03	Rapid-Rate Multi Unit Charger 1000mA 100-240VAC	291.00
HYT	HYT Multi-Charger	MCL07-EX	Multi-Unit Charger TC-700 FM FOR USE WITH INT SAFE RADIOS	291.00
HYT	HYT Multi-Charger	MCL11	Rapid Multi-Unit Charger Li-Ion TC-600	279.00
HYT	HYT Multi-Charger	MCL15	Rapid-Rate Multi Unit Charger NiMH Li-Ion TC508 TC518 TC580	279.00
HYT	HYT Multi-Charger	MCN01	Multi-Unit Charger TC-x68	300.01
HYT	HYT Multi-Charger	MCN05	Rapid multi-charger MCU NicD Ni-MH TC-500	279.00
HYT	HYT TC-2100-2108	TC-2108H-V2	PORTABLE RADIO VHF 150-174 MHz 99CH 5W	183.00
HYT	HYT TC-320	TC-320U-1	PORTABLE RADIO UHF 400-470 MHz RDA (STD Antenna 450-470mhz)	149.00
HYT	HYT TC-500	TC-500-U1	PORTABLE RADIO UHF 400-470 MHz 16CH 3.5W 110/230V ADAPTER RDA PLATFORM (STD ANT 450-470MHZ)	209.00
HYT	HYT TC-500	TC-500-V(1)	PORTABLE RADIO VHF 136-150 MHz 16CH 3.5W FOR EXPORT ONLY	209.00
HYT	HYT TC-500	TC-500-V(2)	PORTABLE RADIO VHF 150-174 MHz 16CH 3.5W 110V/230V Transformers	209.00
HYT	HYT TC-508	TC-508-U1	PORTABLE RADIO UHF 400-470 MHz 16CH 4W/2W IP54 1650mAh LI-ION STD ANTENNA 450-470MHZ	220.00
HYT	HYT TC-508	TC-508-V2	PORTABLE RADIO VHF 146-174 MHz 16CH 5W/2W IP54 1650mAh LI-ION	220.00
HYT	HYT TC-518	TC-518U-1	PORTABLE RADIO UHF 400-470MHZ 16CH 4/2W DTMF CTCSS DCS 1650mAh LI-ION RAPID CHARGER	229.00
HYT	HYT TC-518	TC-518U-2	PORTABLE RADIO UHF 450-520MHZ-EXPORT ONLY 16CH 4/2W DTMF CTCSS DCS 1650mAh LI-ION RAPID CHARGER	229.00
HYT	HYT TC-518	TC-518V	PORTABLE RADIO VHF 136-174MHZ 16CH 5/2W DTMF CTCSS DCS 1650mAh LI-ION RAPID CHARGER	229.00
HYT	HYT TC-580	TC-580U-1	PORTABLE RADIO UHF 400-470MHZ 256CH 4W/1W 32 ZONE 25 /12.5 KHz DISPLAY KEYPAD PTT ID MIL SPEC	299.00
HYT	HYT TC-580	TC-580V	PORTABLE RADIO VHF 136-174MHZ 256CH 5W/1W 32 ZONE 25 /12.5 KHz DISPLAY KEYPAD PTT ID MIL SPEC	299.00
HYT	HYT TC-610	TC-610U-2	PORTABLE RADIO-YELLOW- UHF 450-470MHZ 16CH 2/5W	329.00
HYT	HYT TC-610	TC-610U-2-BLK	PORTABLE RADIO-BLACK- UHF 450-470MHZ 16CH 2/5W	329.00
HYT	HYT TC-610	TC-610U-2-BLK-RFB	PORTABLE RADIO-BLACK- UHF 450-470MHZ 16CH 2/5W 1YR WARRANTY	329.00
HYT	HYT TC-610	TC-610V-2	PORTABLE RADIO-YELLOW- VHF 136-174 MHz 16CH 2/5W	329.00
HYT	HYT TC-610	TC-610V-2-BLK	PORTABLE RADIO-BLACK VHF 136-174 MHz 16CH 2/5W BLACK	329.00
HYT	HYT TC-610 P	TC-610P-2TONE-U2	PORTABLE RADIO TWO-TONE UHF 450-470MHZ 16CH 2/5W	349.00
HYT	HYT TC-610 P	TC-610P-2TONE-V2	PORTABLE RADIO TWO TONE VHF 136-174 MHz 16CH 2/5W	349.00
HYT	HYT TC-610 P	TC-610P-HDC-U2	PORTABLE RADIO HDC1200 UHF 450-470MHZ 16CH 2/5W 2000MAH Battery	349.00
HYT	HYT TC-610 P	TC-610P-HDC-V2	PORTABLE RADIO HDC1200 VHF 136-174 MHz 16CH 2/5W 2000MAH	349.00
HYT	HYT TC-700	TC-700U-2	PORTABLE RADIO UHF 440-490 MHz 16CH 4W	379.00
HYT	HYT TC-700	TC-700U-7	PORTABLE RADIO UHF 400-470 MHz 16CH 4/2/1W	379.00
HYT	HYT TC-700	TC-700U-8	PORTABLE RADIO UHF 450-520 MHz 16CH 4/2/1W	379.00
HYT	HYT TC-700	TC-700V	PORTABLE RADIO VHF 136-174 MHz 16CH 5Watts	379.00
HYT	HYT TC-700 FM	TC-700EXPLUS-U7FM	PORTABLE RADIO UHF 400-470 MHz 16CH 4/2/1W INT SAFE	585.00
HYT	HYT TC-700 FM	TC-700EXPLUS-U8FM	PORTABLE RADIO UHF 450-520 MHz 16CH 4/2/1W INT SAFE	585.00
HYT	HYT TC-700 FM	TC-700EXPLUS-VFM	PORTABLE RADIO VHF 136-174MHz 16CH INT SAFE	585.00
HYT	HYT TC-700 MD	TC-700U-8-MD	PORTABLE RADIO MAN DOWN OPT UHF 450-520 MHz 16CH 4/2/1W	415.00
HYT	HYT TC-700 PT	TC-700U-8-PATROL	PORTABLE RADIO UHF 450-520 MHz 16CH 4W PATROL	469.00
HYT	HYT TC-780	TC-780U-1	PORTABLE RADIO UHF 400-470 MHz 256CH 5/2/1W	442.00
HYT	HYT TC-780	TC-780V	PORTABLE RADIO VHF 136-174 MHz 256CH 5W/2W/1W	442.00
HYT	HYT TC-780 M	TC-780M-U1	PORTABLE RADIO TRUNKING UHF 400-440MHZ TRUNKING 32CH CONVENTIONAL	686.00
HYT	HYT TC-780 M	TC-780MU-5-M	PORTABLE RADIO TRUNKING UHF 350-390MHZ TRUNKING 32CH CONVENTIONAL FOR EXPORT ONLY	686.00
HYT	HYT TM-600	TM-600U-1	MOBILE RADIO UHF 400-470 MHz 8CH 25W	369.00
HYT	HYT TM-600	TM-600V	MOBILE RADIO VHF 136-174 MHz 8CH 25W	369.00
HYT	HYT TM-610	TM-610U-1	MOBILE RADIO UHF 400-470 MHz 128CH 25W	397.00
HYT	HYT TM-610	TM-610V	MOBILE RADIO VHF 136-174 MHz 128CH 25W	397.00
HYT	HYT TM-628H	TM-628H-U	MOBILE RADIO UHF 400-470 MHz 128CH 45W	442.00
HYT	HYT TM-628H	TM-628H-U-RFB	MOBILE RADIO UHF 400-470 MHz 128CH 45W REFURBISHED 1 YR WARRANTY	442.00
HYT	HYT TM-628H	TM-628H-V	MOBILE RADIO VHF 136-174 MHz 128CH 50W	442.00
HYT	Hytera Accessories	ADN-01	Wireless adapter (part of ESW01-N1)	144.30
HYT	Hytera Accessories	ADN-02	Wireless adapter (Part of ESW01-N2) PD6XX, X1	144.30
HYT	Hytera Accessories	BRK19	RD98X main unit wall mount installation bracket BRK19	78.00
HYT	Hytera Accessories	ESW01	Wireless Earpiece (Part of ESW01-N1 and N2)	144.30
HYT	Hytera Accessories	ESW01-N2	Wireless Earpiece Kit PD6XX, X1	288.61
HYT	Hytera Multi-Charger	MCA05	Battery Optimizing System for PD5, PD6, PD7 and PT5 Series	1,933.37
Hytera	HYT Accessories	AN0141H07	ANTENNA VHF SMA connector, 136-147MHz/1575MHz, 12cm, with hytera logo(RoHS)	23.40
Hytera	HYT Accessories	AN0153H04	ANTENNA VHF SMA 147-160MHZ 1575MHZ PD5	20.00
Hytera	HYT Accessories	AN0153H08	ANTENNA VHF SMA connector, 147-160MHz/1575MHz, 12cm, with hytera logo(RoHS)	23.40
Hytera	HYT Accessories	AN0167H07	ANTENNA VHF SMA connector, 160-174MHz/1575MHz, 12cm, with hytera logo(RoHS)	23.40
Hytera	HYT Accessories	BC21	BELT CLIP FOR PD36X	3.90
Hytera	HYT Accessories	BC22	Belt clip(RoHS)-for PD66X/68X	3.27
Hytera	HYT Accessories	BRK17	Battery Installation Bracket(RoHS) RD96X	39.00
Hytera	HYT Accessories	BRK21	WAL MOUNTING BRACKET	42.90
Hytera	HYT Accessories	BRK22	DUPLXER MOUNTING KIT INCL BRACKET AND RF CABLE RD62X	100.10
Hytera	HYT Accessories	CH10L15-PS1014	Charger Dual Pocket with PS1014 Power Supply for the X1 Series	96.80
Hytera	HYT Accessories	CH10L20	CHARGER RAPID-RATE Li-Ion PD35X PD36X	14.30
Hytera	HYT Accessories	DT18	Built-in Mini Duplex(Frequency Range:136~174MHz) (Frequency Spacing:4.5~6MHz)(Non-RoHS compliant)	744.91
Hytera	HYT Accessories	DT20	Built-in Mini Duplex Range:400~470MHz (Spacing:5.5~15MHz)(Non-RoHS compliant) RD96X	744.91
Hytera	HYT Accessories	DT21	Built-in Mini Duplex(Frequency Range:136~174MHz) (Frequency Spacing:4.6~6MHz)(RoHS)	1,457.33
Hytera	HYT Accessories	DT22	Built-in Mini Duplex (Frequency Range:350~470MHz) (Frequency Spacing:5.5~10MHz)(Non-RoHS compliant)	1,457.33
Hytera	HYT Accessories	EAN21	Surveillance Earpiece 3 wire with Transparent Acoustic Tube-BEIGE	78.00
Hytera	HYT Accessories	EAN22	Surveillance Earpiece with Transparent Acoustic Tube	70.20
Hytera	HYT Accessories	EH01	Earloop C-Style Recieve Only PD7 Series & PT5 Series	13.67
Hytera	HYT Accessories	EH02	EARHOOK ADJUSTABLE W SWIVEL SPEAKER RECEIVE ONLY (FOR USE WITH PTT & MIC CABLE)	15.60
Hytera	HYT Accessories	EHN20	Remote Swivel Earset for X1 & PD6 Series	58.50
Hytera	HYT Accessories	EHN21	Remote C-Earset X1 & PD6 Series	57.20
Hytera	HYT Accessories	EHS16	C-EARPIECE (RoHS)	19.50
Hytera	HYT Accessories	ES01	Earbud Recieve Only PD7 Series PT580H PD79XEX	9.77
Hytera	HYT Accessories	ESN14	Remote Earbud X1 & PD6 Series	53.30
Hytera	HYT Accessories	EWN07	Digital Wireles Covert Earpiece with In-Line controller (Neckloop Sensor) RoHS- SPECIAL ORDER	1,848.04
Hytera	HYT Accessories	EWN08	Digital Wireless Covert Earpiece (Flatpack Sensor)(RoHS)-SPECIAL ORDER ITEM	1,848.04
Hytera	HYT Accessories	EWN09	2-wire Earpiece with Wireless Earphone and Neck Loop(Beige)	1,370.23
Hytera	HYT Accessories	PCN005	BELT CARRY CASE FOR X1 SERIES	19.50
Hytera	HYT Accessories	POA45	Surge Arrester for ethernet port (RoHS)	85.80
Hytera	HYT Accessories	POA47	Bluetooth PTT for X1 Series	136.50
Hytera	HYT Accessories	PS1030	POWER ADAPTER MICRO USB 110-24VAC 5V DC/1A HYTERA (RoHS) PD35X/36X	14.30
Hytera	HYT Accessories	PS7502	Power Adapter, including the power cable(RoHS) RD96X	117.00
Hytera	HYT Accessories	PWC03	AC POWER CORD RD62X	14.97
Hytera	HYT Accessories	SM18A1	PALM SPEAKER MICROPHONE IP67 RD96X	128.70
Hytera	HYT Accessories	SM25A1	Remote Speaker Microphone with LCD IP54 3m cord	144.30
Hytera	HYT Accessories	TQC-150DII	Antenna VHF 136-174 FIELD TUNABLE 16010136M0030 TQC-150DII	58.50
Hytera	HYT Accessories	TQC-400FCS	Antenna 3.5dBi(UHF-M connector) Frequency range: 15MHz; 400-470MHz AN0460M03(RoHS)	58.50
Hytera	HYT Batteries	BL2009	BATTERY 2000mAh 3.7V (RoHS) PD35X PD36X	40.38

Hytera	HYT Batteries	BL2411-EX	BATTERY 2400mAh Li-ION UL913 IS	195.39
Hytera	HYT Batteries	PV3001	Portable battery 10Ah, including the connecting cable(RoHS) LI-ION RD96X BL9901	1,374.24
Hytera	Hytera Accessories	SM25A2	Remote Speaker Microphone with LCD IP54 6m cord	279.51
Hytera	Hytera Accessories	SM26N1	Remote Speaker Microphone with emergency button (IP67) (RoHS)	101.40
Hytera	Hytera Accessories	SM26N2	Remote Speaker Microphone with emergency button and 3.5mm audio jack(IP54) (RoHS)	101.40
Hytera	Hytera MD652 GPS	MD652G-U1	DMR MOBILE GPS UHF 400-470 MHz 1024CH 25W	656.00
Hytera	Hytera MD652 GPS	MD652G-V1	DMR MOBILE GPS VHF 136-174 MHz 1024CH 25W	656.00
Hytera	Hytera MD782	MD782U-1	DMR MOBILE UHF 400-470 MHz 1024CH 45W	742.00
Hytera	Hytera MD782	MD782U-2	DMR MOBILE UHF 450-520 MHz 1024CH 45W	742.00
Hytera	Hytera MD782	MD782U-2-RFB	DMR MOBILE UHF 450-520 MHz 1024CH 45W REFURBISHED 18 MONTHS WARRANTY	742.00
Hytera	Hytera MD782	MD782V-1	DMR MOBILE VHF 136-174 MHz 1024CH 45W	742.00
Hytera	Hytera MD782	MD782V-1-RFB	DMR MOBILE VHF 136-174 MHz 1024CH 45W REFURBISHED- 18 MONTHS WARRANTY	742.00
Hytera	Hytera MD782 GPS	MD782G-U1	DMR MOBILE GPS UHF 400-470 MHz 1024CH 45W	799.00
Hytera	Hytera MD782 GPS	MD782G-U2	DMR MOBILE GPS UHF 450-520 MHz 1024CH 45W	799.00
Hytera	Hytera MD782 GPS	MD782G-V1	DMR MOBILE GPS VHF 136-174 MHz 1024CH 50W	799.00
Hytera	Hytera MD782 GPS	MD782G-V1-RFB	DMR MOBILE GPS VHF 136-174 MHz 1024CH 45W REFURBISHED- 18 MONTHS WARRANTY	799.00
Hytera	Hytera MT680	MT-680 F2	MOBILE RADIO TETRA 350-400MHZ	1,855.56
Hytera	Hytera MT680	MT-680 F3	MOBILE RADIO TETRA 380-430MHZ	1,855.56
Hytera	Hytera MT680	MT-680 F4	MOBILE RADIO TETRA 410-470MHZ	1,149.00
Hytera	Hytera MT680	MT-680 F5	MOBILE RADIO TETRA 806-870MHZ	2,062.22
Hytera	Hytera Multi-Charger	MCA08	Rapid-Rate Multi Unit Charger DMR for PD7, PD6, PD5 Series & PT580H	390.07
Hytera	Hytera Multi-Charger	MCA10	MULTI UNIT CHARGER FOR X1 SERIES	429.00
Hytera	Hytera PD362	PD362Uc	DMR PORTABLE UHF 430-470MHZ 256CH 1.5-3W IP54 DISPLAY 16ZONES 12.5/25KHZ 2000mAh Li-Ion DUAL MODE	308.00
Hytera	Hytera PD502	PD502U-1	DMR PORTABLE UHF 400-470 MHz 32CH 4W NON DISPLAY IP54 1500mAh Li-Ion	362.00
Hytera	Hytera PD502	PD502V-1	DMR PORTABLE VHF 136-174 MHz (STD ANT 147-160MHZ) 32CH 5/1W NON DISPLAY IP54 1500mAh Li-Ion	362.00
Hytera	Hytera PD562	PD562U-1	DMR Portable UHF 400-470 MHz 512CH 4W Display Ltd Keypad P54 1500mAh Li-Ion	440.00
Hytera	Hytera PD562	PD562V-1	DMR PORTABLE VHF 136-174 MHz (STD ANT 147-160MHZ) 512CH 5/1W DISPLAY IP54 1500mAh Li-Ion	440.00
Hytera	Hytera PD602	PD602U-1	DMR PORTABLE UHF 400-527 MHz 32CH 4W NON DISPLAY IP67 1500mAh Li-Ion	489.00
Hytera	Hytera PD602	PD602V-1	DMR PORTABLE VHF 136-174 MHz 32CH 4W NON DISPLAY IP67 1500mAh Li-Ion STD ANTENNA 153-164MHZ	489.00
Hytera	Hytera PD602 GPS	PD602G-U1	DMR PORTABLE GPS UHF 400-527 MHz 32CH 4W NON DISPLAY IP67 1500mAh Li-Ion	544.00
Hytera	Hytera PD602 GPS	PD602G-V1	DMR PORTABLE GPS VHF 136-174 MHz (STD ANT 153-164MHZ) 32CH 5/1W NON DISPLAY IP67 1500mAh Li-Ion	544.00
Hytera	Hytera PD602 GPS MD	PD602G-U1-MD	DMR PORTABLE GPS MAN DOWN UHF 400-527 MHz 32CH 4W NON DISPLAY IP67 1500mAh Li-Ion	579.00
Hytera	Hytera PD662 GPS	PD662G-U1	DMR Portable UHF 400-527 MHz 1024CH 4W Display Ltd Keypad IP67 1500mAh Li-Ion	636.00
Hytera	Hytera PD662 GPS	PD662G-V1	DMR Portable VHF 136-174MHz (Std Ant 153-164MHz/1575MHz) 1024CH 5W Disp Ltd Key IP67 1500mAh Li-Ion	636.00
Hytera	Hytera PD682 GPS	PD682G-U1	DMR Portable GPS UHF 400-527 MHz 1024CH 4W Display Full Keypad IP67 1500mAh Li-Ion	685.00
Hytera	Hytera PD682 GPS	PD682G-V1	DMR Portable VHF 136-174MHz(Std Ant 153-164MHz/1575MHz) 1024CH 5W Disp Full Key IP67 1500mAhLi-Io	685.00
Hytera	Hytera PD702	PD702U-1	DMR PORTABLE UHF 400-470 MHz 32CH 4W NON DISPLAY	776.00
Hytera	Hytera PD702	PD702U-1-LT	DMR PORTABLE UHF 400-470 MHz 32CH 4W/1W NON DISPLAY BUSINESS LITE VERSION	332.33
Hytera	Hytera PD702	PD702U-2	DMR PORTABLE UHF 450-520 MHz 32CH 4W NON DISPLAY	776.00
Hytera	Hytera PD702	PD702U-2-RFB	DMR PORTABLE UHF 450-520 MHz 32CH 4W NON DISPLAY REFURBISHED 18 MOS WARRANTY	776.00
Hytera	Hytera PD702	PD702V-1	DMR PORTABLE VHF 136-174 MHz 32CH 5W NON DISPLAY STD ANTENNA 147-160MHZ	776.00
Hytera	Hytera PD702	PD702V-1-RFB	DMR PORTABLE VHF 136-174 MHz 32CH 5W NON DISPLAY STD ANTENNA 147-160MHZ REFURBISHED 18MOS WARRANTY	776.00
Hytera	Hytera PD702 GPS	PD702G-U1	DMR PORTABLE GPS UHF 400-470 MHz 32CH 4W NON DISPLAY	806.00
Hytera	Hytera PD702 GPS	PD702G-U2	DMR PORTABLE GPS UHF 450-520 MHz 32CH 4W NON DISPLAY	806.00
Hytera	Hytera PD702 GPS	PD702G-V1	DMR PORTABLE GPS VHF 136-174 MHz 32CH 5W NON DISPLAY STD ANTENNA 147-160MHZ	806.00
Hytera	Hytera PD702 GPS	PD702G-V1-RFB	DMR PORTABLE GPS VHF 136-174 MHz 32CH 5W NON DISPLAY STD ANTENNA 147-160MHZ REFURNISHED 1 YEAR WARR	806.00
Hytera	Hytera PD702G UL913	PD702G-U1 UL913	DMR PORTABLE UL913 GPS MAN DOWN UHF 400-470 MHz 32CH 4W NON DISPLAY	1,075.00
Hytera	Hytera PD702G UL913	PD702G-U2 UL913	DMR PORTABLE UL913 GPS MAN DOWN UHF 450-520 MHz 32CH 4W NON DISPLAY	1,075.00
Hytera	Hytera PD702G UL913	PD702G-V1 UL913	DMR PORTABLE UL913 GPS MAN DOWN VHF 136-174 MHz 32CH 5W NON DISPLAY STD ANTENNA 147-160MHZ	1,075.00
Hytera	Hytera PD752	PD752U-2	DMR PORTABLE UHF 450-520MHz 1024CH 4W DISPLAY LTD KEYPAD	853.00
Hytera	Hytera PD752 GPS	PD752G-U1	DMR PORTABLE GPS UHF 400-470 MHz 1024CH 4W DISPLAY LTD KEYPAD	853.00
Hytera	Hytera PD752 GPS	PD752G-U2	DMR PORTABLE GPS UHF 450-520MHz 1024CH 4W DISPLAY LTD KEYPAD	853.00
Hytera	Hytera PD752 GPS	PD752G-V1	DMR PORTABLE GPS VHF 136-174MHz (STD ANTENNA 147-160) 1024CH 4W DISPLAY LTD KEYPAD	853.00
Hytera	Hytera PD782	PD782U-1-RFB	DMR PORTABLE UHF 400-470 MHz 1024CH 4W DISPLAY REFURBISHED 18 MOS WARRANTY	843.00
Hytera	Hytera PD782	PD782U-2	DMR PORTABLE UHF 450-520 MHz 1024CH 4W DISPLAY	843.00
Hytera	Hytera PD782	PD782U-2-RFB	DMR PORTABLE UHF 450-520 MHz 1024CH 4W DISPLAY-REFURBISHED-18MONTHS WARRANTY	843.00
Hytera	Hytera PD782	PD782V-1	DMR PORTABLE VHF 136-174 MHz 1024CH 5W DISPLAY STD ANTENNA 147-160MHZ	843.00
Hytera	Hytera PD782	PD782V-1-RFB	DMR PORTABLE VHF 136-174 MHz 1024CH 5W DISPLAY STD ANTENNA 147-160MHZ REFURBISHED 1 YR WARRANTY	843.00
Hytera	Hytera PD782 GPS	PD782G-U1	DMR PORTABLE GPS UHF 400-470 MHz 1024CH 4W DISPLAY	899.00
Hytera	Hytera PD782 GPS	PD782G-U2	DMR PORTABLE GPS UHF 450-520 MHz 1024CH 4W DISPLAY	899.00
Hytera	Hytera PD782 GPS	PD782G-V1	DMR PORTABLE GPS VHF 136-174 MHz 1024CH 5W DISPLAY STD ANTENNA 147-160MHZ	899.00
Hytera	Hytera PD782 GPS	PD782G-V1-RFB	DMR PORTABLE GPS VHF 136-174 MHz 1024CH 5W DISPLAY STD ANTENNA 147-160MHZ REFURBISHED 18MOS WARRANTY	899.00
Hytera	Hytera PD782 MD	PD782U-1-MD	DMR PORTABLE MAN DOWN UHF 400-470 MHz 1024CH 4W DISPLAY	925.00
Hytera	Hytera PD782 MD	PD782U-2-MD	DMR PORTABLE MAN DOWN UHF 450-520 MHz 1024CH 4W DISPLAY	925.00
Hytera	Hytera PD782 MD	PD782V-1-MD	DMR PORTABLE MAN DOWN VHF 136-174 MHz 1024CH 5W DISPLAY STD ANTENNA 147-160MHZ	925.00
Hytera	Hytera PD782 MD GPS	PD782G-U2-MD	DMR PORTABLE MAN DOWN GPS UHF 450-520 MHz 1024CH 4W DISPLAY	977.00
Hytera	Hytera PD782 MD GPS	PD782G-V1-MD	DMR PORTABLE GPS MAN DOWN VHF 136-174 MHz 1024CH 5W DISPLAY STD ANTENNA 147-160MHZ	977.00
Hytera	Hytera PD782G UL913	PD782G-U1 UL913	DMR PORTABLE UL913 GPS MAN DOWN UHF 400-470 MHz 1024CH 4W DISPLAY	1,283.00
Hytera	Hytera PD782G UL913	PD782G-V1 UL913	DMR PORTABLE UL913 GPS MAN DOWN VHF 136-174 MHz 1024CH 5W DISPLAY STD ANTENNA 147-160MHZ	1,283.00
Hytera	Hytera PD792ex	PD792ex-U1	DMR PORTABLE GPS UHF 400-470 MHz 1024CH 1W DISPLAY FM/ATEX APPROVED 1800mAh LI-ION BATTERY, MD	1,580.00
Hytera	Hytera PT580H	PT-580H F2	PORTABLE RADIO TETRA 350-400MHZ 1800Mah LI-ION	1,484.44
Hytera	Hytera PT580H	PT-580H F3	PORTABLE RADIO TETRA 380-430MHZ 1800Mah LI-ION	1,484.44
Hytera	Hytera PT580H	PT-580H F4	PORTABLE RADIO TETRA 410-470MHZ (FCC APPROVED 450-470MHZ) 1800Mah LI-ION	1,049.00
Hytera	Hytera PT580H	PT-580H F5	PORTABLE RADIO TETRA 806-870MHZ 1800Mah LI-ION	1,648.89
Hytera	Hytera RD622	RD622U-1	DMR REPEATER UHF 400-470 MHz 1W to 25W 100% continuous duty cycle	1,999.00
Hytera	Hytera RD622	RD622V-1	DMR REPEATER VHF136-174 MHz 1W to 25W 100% continuous duty cycle	1,999.00
Hytera	Hytera RD962	RD962U-1	DMR REPEATER UHF 400-470MHZ 1-10 W BACKPACK SPECIAL ORDER	2,976.00
Hytera	Hytera RD962	RD962V-1	DMR REPEATER VHF 136-174MHZ 1-10 W BACKPACK SPECIAL ORDER	2,976.00
Hytera	Hytera RD982	RD982U-1	DMR REPEATER UHF 400-470 MHz 50W	2,250.00
Hytera	Hytera RD982	RD982U-1-RFB	DMR REPEATER UHF 400-470 MHz 50W-REFURBISHED- 18MONTHS WARRANTY	2,250.00
Hytera	Hytera RD982	RD982U-2	DMR REPEATER UHF 450-520 MHz 50W	2,250.00
Hytera	Hytera RD982	RD982V-1	DMR REPEATER VHF 136-174 MHz 50W	2,250.00
Hytera	Hytera RD982 ANALOG	RD982U-1-AN	REPEATER ANALOG DMR UHF 400-470 MHz 50W UPGRADABLE TO DIGITAL	1,440.00
Hytera	Hytera RD982 ANALOG	RD982U-2-AN	REPEATER ANALOG DMR UHF 450-520 MHz 50W UPGRADABLE TO DIGITAL	1,440.00
Hytera	Hytera RD982 ANALOG	RD982V-1-AN	REPEATER ANALOG DMR VHF 136-174 MHz 50W UPGRADABLE TO DIGITAL	1,440.00
Hytera	Hytera RD982 Super	RD982SU-1	DMR SUPER REPEATER UHF 400-470 MHz 50W ANALOG AND DMR CONVENTIONAL MODE ONLY	2,935.00
Hytera	Hytera RD982 Super	RD982SU-2	DMR SUPER REPEATER UHF 450-520 MHz 50W ANALOG AND DMR CONVENTIONAL MODE ONLY	2,935.00
Hytera	Hytera RD982 Super	RD982SV-1	DMR SUPER REPEATER UHF 136-174 MHz 50W ANALOG AND DMR CONVENTIONAL MODE ONLY	2,935.00
Hytera	Hytera X1 X1e	X1e-U1	COVERT 400-470MHZ 4W,GPS,man down, ,IP67,1800mah li-ion battery,dual charger,antenna	1,100.00
Hytera	Hytera X1 X1e	X1e-U1-RFB	COVERT 400-470MHZ 4W,GPS,man down, ,IP67,1800mah li-ion battery,dual charger,antenna 18MOS WARRANTY	1,100.00
Hytera	Hytera X1 X1e	X1e-V	COVERT 136-174MHZ 5W,GPS,man down, IP67,1800mah li-ion,dual charger,antenna153-164mhz	1,100.00
Hytera	Hytera X1p	X1p-U1 (02)	COVERT PLUS Display 400-470MHZ NA 4W/1W 1024CH 25K/20K/12.5K GPS MD BT IP67 1800mah Li batt charger	1,237.00
Hytera	Hytera X1p	X1p-U1 (02)-RFB	COVERT PLUS Display 400-470MHZ NA 4W/1W 1024CH 25K/20K/12.5K GPS MD BT IP67 1800mahLi 18MOS WARRANTY	1,237.00
Hytera	Hytera X1p	X1p-U2 (02)	COVERT PLUS Display 450-520MHZ NA 4W/1W 1024CH 25K/20K/12.5K GPS MD BT IP67 1800mah Li batt charger	1,237.00
Hytera	Hytera X1p	X1p-V1 (02)	COVERT PLUS Display 136-174MHz,NA,5W/1W,1024CH,25K/20K/12.5K,GPS,MD,BT,IP67,1800mah Li batt,charger,	1,237.00
Hytera	Hytera Z1p	Z1p F3	PORTABLE RADIO TETRA 380-430MHZ 1400Mah LI-ION 3 Watts RF Power With GPS, with Man-Down	1,264.00
Hytera	Hytera Z1p	Z1p F4	PORTABLE RADIO TETRA 410-470MHZ 1400Mah LI-ION 3 Watts RF Power With GPS, with Man-Down	1,264.00



Vertex Standard LMR Price Book: MSRP

Updated on 6/26/2015

Prices may be subject to change without notice

THESE PRICE PAGES DISPLAY MANUFACTURER'S SUGGESTED RETAIL PRICING (MSRP) ONLY. FOR ADDITIONAL PRICING INQUIRIES, CONTACT YOUR RESPECTIVE REGIONAL SALES MANAGER OR CUSTOMER SUPPORT.

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VX-261 Series

Portable

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-261 portable Standard Options:

FNB-V133LI -UNI 1380 mAh Li-Ion Battery

VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)

Antenna Selection

Standard 3 Year Warranty



VX-261

Radio Features:

- 16 Channels
- 2 Programmable Buttons
- 700mW Internal Speaker
- MDC1200 ANI Encode
- Fleetsync® ANI Encode
- DTMF ANI Encode
- 2-Tone Encode and Decode
- 5-Tone Encode and Decode
- CTCSS/DCS Encode and Decode
- Emergency
- Lone Worker
- Multi-Mode Scanning
(Incl. Dual Watch, Priority, Follow-Me)
- ARTS TM (Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- Radio to Radio Cloning
- 3 Year Warranty

Recommended Accessories:

Speaker Microphones

MH-360S Compact Speaker Microphone

MH-450S Standard Speaker Microphone

MH-45B4B Heavy Duty Public Safety Speaker Mic

Headsets and Surveillance

MH-37A4B-1 Earpiece Mic, Light Duty

VH-150A IS VOX capable lightweight headset, BTH

VH-150B IS VOX capable lightweight headset, OTH

MH100 Rx only Earpiece, 3.5mm for use with MH-450S

MH-101A4B Single Wire Surveillance Kit

MH-102A4B Two-Wire Surveillance Kit

Multi-Unit Charger

VAC-6058 MUC Charger

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-261 Series Radio Models						
136-174 MHz	VHF	1-5W	16	AC128N001-VX	VX-261-D0-5	\$ 225.00
403-470 MHz	UHF	1-5W	16	AC128U002-VX**	VX-261-G6-5	\$ 225.00
450-512 MHz	UHF	1-5W	16	AC128U001-VX	VX-261-G7-5	\$ 225.00

FCC INFORMATION: AXI11283020 (134-174 MHz) / AXI11284720 (450-512 MHz) ** UHF 403-470 MHz Not Currently FCC approved, only for sale in Canada

IC INFORMATION: 10239A-11283020 (134-174 MHz) / 10239A-11284620 (403-470 MHz) 10239A-11284720 (450-512 MHz)

VX-261 Series

Portable

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP
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Battery Choices:

STDBAT0868AS	STANDARD BATTERY FNB-V133LI-UNI (Uses VAC-UNI charger)	\$	0.00
QA05517AA	ADD: FNB-V134LI-UNI LI-ION BATTERY 2300MAH (Uses VAC-UNI charger)	\$	20.00

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (for use with FNB-V131LI & V132LI-UNI)	\$	0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (for use with FNB-V131LI & V132LI-UNI)	\$	0.00
QA03679AA	DELETE: Charger	\$	(36.00)

Antenna Choices:

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$	0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$	0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$	0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$	0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$	0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$	0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$	0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6" (For G7 Models)	\$	0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$	0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$	50.00
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Shipping Option:

STDBOX0868AA	ADD: Standard Packaging	\$	0.00
QA03060AA	ADD: Bulk Packaging	\$	0.00

VX-264 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-264 portable model standard packages include:

FNB-V133LI -UNI 1380 mAh Li-Ion Battery

VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)

Antenna Selection

Standard 3 Year Warranty



VX-264

Radio Features:

- 128 Channels
- 6 Programmable Buttons
- 8 Character Alpha Numeric Display
- 700mW Internal Speaker
- MDC1200 Encode: ANI, Call Alert, Sel Call, Emergency Radio Check* (Decode functions available in future release)
- Fleetsync® ANI Encode
- DTMF ANI Encode
- 2-Tone Encode and Decode
- 5-Tone Encode and Decode
- CTCSS/DCS Encode and Decode
- Voice Inversion Encryption
- Emergency
- Lone Worker
- Multi-Mode Scanning (Incl. Dual Watch, Priority, Follow-Me and TA Scan)
- ARTS™(Auto-Range Transpond System)
- Adjustable 1W to 5W Power Output
- BCLO, BTLO and TOT Functions
- Radio to Radio Cloning
- 3 Year Warranty

Recommended Accessories:

Speaker Microphones

- MH-360S Compact Speaker Microphone
- MH-450S Standard Speaker Microphone
- MH-45B4B Heavy Duty Public Safety Speaker Mic

Headsets and Surveillance

- MH-37A4B-1 Earpiece Mic, Light Duty
- VH-150A IS VOX capable lightweight headset, BTH
- VH-150B IS VOX capable lightweight headset, OTH
- MH100 Rx only Earpiece, 3.5mm for use with MH-450S
- MH-101A4B Single Wire Surveillance Kit
- MH-102A4B Two-Wire Surveillance Kit

Multi-Unit Charger

- VAC-6058 MUC Charger

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-264 Series Radio Models						
134-174 MHz	VHF	1-5W	128	AC127N001-VX	VX-264-D0-5	\$ 290.00
403-470 MHz	UHF	1-5W	128	AC127U002-VX**	VX-264-G6-5	\$ 290.00
450-512 MHz	UHF	1-5W	128	AC127U001-VX	VX-264-G7-5	\$ 290.00

FCC INFORMATION: AXI11273020 (134-174 MHz) / AXI11274720 (450-512 MHz) ** UHF 403-470 MHz Not Currently FCC approved, only for sale in Canada

IC INFORMATION: 10239A-11273020 (134-174 MHz) / 10239A-11274620 (403-470 MHz) 10239A-11274720 (450-512 MHz)

VX-264 Series

Portable

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AS	STANDARD BATTERY FNB-V133LI-UNI (Uses VAC-UNI charger)	\$ 0.00
QA05517AA	ADD: FNB-V134LI-UNI LI-ION BATTERY 2300MAH (Uses VAC-UNI charger)	\$ 20.00

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (for use with FNB-V131LI & V132LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (for use with FNB-V131LI & V132LI-UNI)	\$ 0.00
QA03679AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6" (For G7 Models)	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

STDBOX0868AA	ADD: Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

VX-231 Series

Portable

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-231 portable Standard Options:

FNB-V131LI -UNI 1380 mAh Li-Ion Battery

VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)

Antenna Selection

Standard 3 Year Warranty



VX-231

VX-231 Radio Cancellation

Last date of order for AC085N101-VX and AC085U101-VX is 6/26/15.
Last date of order for AC085U104-VX is 12/31/15. For additional details, refer to VSOL > Resource Center > Product Information > Cancellations

Radio Features:

- Light Weight and Compact Size
- Rugged Construction
- 16 Channels
- 12.5/25 kHz Switchable Channel Spacing
- 2 Programmable Buttons
- CTCSS/DCS Encode and Decode
- DTMF ANI / DTMF Speed Dial
- 2-Tone Encode and Decode
- Emergency
- Lone Worker
- Multi-Mode Scanning (Incl. Dual Watch, Priority, Follow-Me)
- ARTS TM (Auto-Range Transpond System)
- Radio to Radio Cloning

Recommended Accessories:

Speaker Microphone

- MH-360S Compact Speaker Microphone
- MH-450S Standard Speaker Microphone
- MH-45B4B Noise Canceling Speaker Microphone

Leather Carry Case

- LCC-351S Leather Case with Swivel

Multi Unit Charger

- VAC-6300B 6 Unit Rapid Charger (Use with FNB-V103LIA and FNB-V104LIA only)

Headsets and Surveillance

- MH-37A4B-1 Earpiece Mic, Light Duty
- VH-120S Earpiece Mic w/ Palm PTT
- VH-110S Over-head, Heavy Duty Headset
- VH-115S Lightweight Headset w/ Boom
- VH-130S Earpiece Mic w/ Palm PTT
- VH-215S Lightweight Padded Headset, Single Speaker

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-231 Series Radio Models						
134-174 MHz	VHF	1-5W	16	AC085N101-VX	VX-231-AD0B	\$ 225.00
400-470 MHz	UHF	1-5W	16	AC085U104-VX	VX-231-AG6B	\$ 225.00
450-512 MHz	UHF	1-5W	16	AC085U101-VX	VX-231-AG7B	\$ 225.00

FCC INFORMATION: K6610853020 (134-174 MHz) / K6610854620 (403-470 MHz) / K6610854720 (450-512 MHz)

VX-231 Series

Portable

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AA	ADD: STD BATTERY FNB-V131LI-UNI 1380 MAH LI-ION (Uses VAC-UNI charger)	\$ 0.00
QA03903AA	ADD: FNB-V132LI-UNI 2300 MAH LI-ION (Uses VAC-UNI charger)	\$ 20.00
QA02674AA	ADD: FNB-V103LIA 7.4V 1380 mAh Li-Ion Battery (Uses VAC-300 charger)	\$ 8.33
QA02459AA	ADD: FNB-V104LIA 2300 mAh Li-Ion Battery (Uses VAC-300 charger)	\$ 28.33

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (for use with FNB-V131LI & V132LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (for use with FNB-V131LI & V132LI-UNI)	\$ 0.00
QA02594AA	ADD: VAC-300B 120V Desktop Rapid Charger (for use with FNB-V103LIA & V104LIA)	\$ 8.33
QA02630AA	ADD: VAC-300C 240V CHRGR - LI-ION ONLY (for use with FNB-V103LIA & V104LIA)	\$ 8.33
QA02589AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

STDBOX0868AA	ADD: Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

VX-350 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-350 portable model standard packages include:

- FNB-130LI-UNI - 2300 mAh Li-Ion Battery
- VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)
- Antenna Option
- Standard 3 Year Warranty



VX-351

VX-354

Radio Features:

- 16 Channels
- Adjustable 1W to 5W Power Output
- 12.5/25 kHz Switchable Channel Spacing
- 6 or 2 Programmable Buttons (VX-354/VX-351 respectively)
- 8 Character Alpha Numeric Display (VX-354 only)
- CTCSS/DCS Encode and Decode
- DTMF ANI
- Dual 2-Tone Decode
- 5-Tone Signaling Built In
- Emergency
- Multi-Mode Scanning (Incl. Dual Watch, Priority, Follow-Me and TA Scan)
- ARTS™(Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- TX/RX Battery Saver Circuit
- Whisper
- Optional Encryption (Voice Inversion or Rolling Code)
- Optional MDC1200® / GE-Star® ANI
- Radio to Radio Cloning
- PC Programmable
- Compact and Rugged Construction

Recommended Accessories:

- Speaker Microphone**
 - MH-45B4B Noise Canceling Speaker Microphone
 - MH-450S Standard Speaker Microphone
 - MH-360S Compact Speaker Microphone
- Carry Case**
 - LCC-351S Leather Case with Swivel
 - LCC-354S Leather Case with Swivel
- Headsets and Surveillance**
 - MH-37A4B-1 Earpiece Mic, Light Duty
 - VH-120S Earpiece Mic w/ Palm PTT
 - VH-110S Over-head, Heavy Duty Headset
 - VH-115S Lightweight Headset w/ Boom
 - VH-130S Earpiece Mic w/ Palm PTT
 - VH-215S Lightweight Padded Headset, Single Speaker
- Multi-Unit Charger**
 - VAC-6300B 6 Unit Rapid Charger (for use with FNB-V96LIA only)

VX-350 Radio Cancellation
 Last date of order for AC065N101-VX, AC065U151-VX, AC065N102-VX and AC065U152-VX is 6/26/15. Last date of order for AC065U153-VX and AC065U154-VX is 12/31/15. For additional details, refer to VSOL > Resource Center > Product Information > Cancellations

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-351 Series Radio Models						
134-174 MHz	VHF	1-5W	16	AC065N101-VX	VX-351-AD0B-5	\$ 260.00
400-470 MHz	UHF	1-5W	16	AC065U153-VX	VX-351-G6-5	\$ 260.00
450-512 MHz	UHF	1-5W	16	AC065U151-VX	VX-351-AG7B-5	\$ 260.00
VX-354 Series Radio Models						
134-174 MHz	VHF	1-5W	16	AC065N102-VX	VX-354-AD0B-5	\$ 290.00
400-470 MHz	UHF	1-5W	16	AC065U154-VX	VX-354-G6-5	\$ 290.00
450-512 MHz	UHF	1-5W	16	AC065U152-VX	VX-354-AG7B-5	\$ 290.00

FCC INFORMATION: K6610653020 (134-174 MHz) / AX110654620 (403-470MHz) / K6610654720 (450-512 MHz)



VX-350 Series

Portable

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AB	ADD: STD BATTERY FNB-V130LI-UNI 2300 MAH LI-ION (Uses VAC-UNI charger)	\$ 0.00
QA03191AA	ADD: FNB-V96LIA 2300 MAH LI-ION (Uses VAC-300 charger)	\$ 8.33

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (for use with FNB-V130LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (for use with FNB-V130LI-UNI)	\$ 0.00
QA02594AA	ADD: VAC-300B Rapid Charger (for use with FNB-V96LIA)	\$ 8.33
QA02630AA	ADD: VAC-300C 240V Desktop Rapid Charger (for use with FNB-V96LIA)	\$ 8.33
QA02589AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

STDBOX0868AA	ADD: Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

VX-450 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-450 portable model standard packages include:

- FNB-V133LI-UNI - 1380 mAh Li-ion Battery
- VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)
- Antenna Selection
- I.S. Option: FNB-V113LIIS (Uses VAC-450 or VAC-6450 charger)
- Standard 3 Year Warranty



VX-451

VX-454

VX-459

Radio Features:

- Adjustable 0.25W to 5W Power Output
- 512 Chan/32 Groups (W/LCD)-32 Chan/2 Groups (W/O LCD)
- 8 Character Alphanumeric Display (VX-454/459)
- 9 Programmable Keys (VX-459), 7 (VX-454) or 3 (VX-451)
- Embedded MDC-1200 Encode/Decode
- Channel Announcement
- Voice Inversion Scrambling
- Emergency Function
- Manual on/off encryption activation
- DTMF ANI / Speed Dial / Paging
- CTCSS/DCS Encode/Decode
- Stun/Kill/Revive (5-Tone)
- Compander / Clear Voice / Whisper
- Priority Scan, Dual Watch, Follow me, Talk Around Scan Modes
- Radio to Radio Cloning (Also with Portable <-> Mobile Cloning)
- IP57 Rating
- MIL-STD 810 C/D/E/F/G
- BCLO, BTLO and TOT Functions
- Programmable LED Color Alert
- Optional Voice Storage

Recommended Accessories:

Speaker Microphones

- MH-360S Compact Speaker Microphone
- MH-450S Standard Speaker Microphone
- MH-45B4B Heavy Duty Public Safety Speaker Mic
- MH-66A4B IP57 Submersible Speaker Mic

Headsets and Surveillance

- VH-110S Over the head Heavy Duty Dual-Muff Headset
- VH-115S Lightweight Headset with Boom Mic
- VH-215S Over the head Single Muff Headset
- VH-120S Earpiece Mic w/Palm PTT
- VH-130S Earpiece mic w/palm mic and PTT
- MH-37A4B-1 Earpiece Mic, Light Duty
- MH-81A4B Over the Head VOX Headset
- VH-150A IS VOX capable lightweight headset, BTH
- VH-150B IS VOX capable lightweight headset, OTH

Multi-Unit Charger

- VAC-64 and FNB-V113 Only)

Option Board

- DVS-8 Digital Voice Storage Unit
- DVS-9 Mandown & Voice Storage Unit

PRODUCT DETAILS					NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL			
VX-451 Radio Models							
136-174 MHz	VHF	0.25-5W	32	AC095N101-VX	VX-451-D0		\$ 320.00
400-470 MHz	UHF	0.25-5W	32	AC095U102-VX	VX-451-G6		\$ 320.00
450-512 MHz	UHF	0.25-5W	32	AC095U101-VX	VX-451-G7		\$ 320.00
VX-454 Radio Models							
136-174 MHz	VHF	0.25-5W	512	AC094N102-VX	VX-454-D0		\$ 380.00
400-470 MHz	UHF	0.25-5W	512	AC094U104-VX	VX-454-G6		\$ 380.00
450-512 MHz	UHF	0.25-5W	512	AC094U102-VX	VX-454-G7		\$ 380.00
VX-459 Radio Models							
136-174 MHz	VHF	0.25-5W	512	AC094N101-VX	VX-459-D0		\$ 440.00
400-470 MHz	UHF	0.25-5W	512	AC094U103-VX	VX-459-G6		\$ 440.00
450-512 MHz	UHF	0.25-5W	512	AC094U101-VX	VX-459-G7		\$ 440.00

FCC INFORMATION: K6610943020 (134-174 MHz) / K6610944620 (403-470 MHz) / K6610944720 (450-512 MHz)

VX-450 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AS	STANDARD BATTERY FNB-V133LI-UNI (Uses VAC-UNI charger)	\$ 0.00
QA03680AA	ADD: FNB-V134LI-UNI LI-ION BATTERY 2300MAH (Uses VAC-UNI charger)	\$ 30.00
QA02461AA	ADD: FNB-112LI 1140 mAh Li-Ion Battery (Uses VAC-450 charger)	\$ 8.33
QA02462AA	ADD: FNB-V113LI 2300 mAh Li-Ion Battery (Uses VAC-450 charger)	\$ 38.33
QA03904AA*	ADD: FNB-113LIIS 2300 MAH LI-ION I.S. BATTERY (Uses VAC-450 charger)	\$ 85.00
QA04954AA	ADD: FNB-V134LIIS-UNI LI-ION I.S. BATTERY 2300MAH (REQUIRES UNI CHARGER)	\$ 85.00

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V STANDARD CHARGER (Use FNB-V133 and FNB-V134)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU CHARGER (Use FNB-V133 and FNB-V134)	\$ 0.00
QA02598AA	ADD: VAC-450B Rapid Rate Charger (Use FNB-V112 and FNB-V113)	\$ 0.00
QA02642AA	ADD: VAC-450C 240V CHARGER POWER SUPPLY (Use FNB-V112 & FNB-V113)	\$ 0.00
QA02597AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02460AA	ADD: ATV-16A 136-150 MHz Antenna	\$ 0.00
QA02463AA	ADD: ATV-16B 150-162 MHz Antenna	\$ 0.00
QA02478AA	ADD: ATV-16C 162-174 MHz Antenna	\$ 0.00
QA02618AA	ADD: ATV-16XL VHF Untuned Antenna	\$ 0.00
QA02466AA	ADD: ATU-16B 400-420 MHz Antenna	\$ 0.00
QA03039AA	ADD: ATU-16BS 400-430MHz (Stubby)	\$ 0.00
QA02467AA	ADD: ATU-16C 420-450 MHz Antenna	\$ 0.00
QA02464AA	ADD: ATU-16D 450-470 MHz Antenna	\$ 0.00
QA03040AA	ADD: ATU-16DS 450-490MHz (Stubby)	\$ 0.00
QA02465AA	ADD: ATU-16F 470-512 MHz Antenna	\$ 0.00

LTR Option:

QA03066AA	ADD: LTR TRUNKING	\$ 67.00
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General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

STDBOX0868AA	ADD: Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

EVX-530 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

EVX-531 portable model standard packages include:

- FNB-V133LI - 1380 mAh Li-ion Battery
- VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)
- VHF or UHF Antenna Selection
- CLIP-20 Belt Clip
- Standard 3 Year Warranty



EVX-531 EVX-534 EVX-539



Radio Features:

- 5W Power Output
- 32 Channels/2 Groups
- 3 Programmable Buttons
- IP57 Rating
- Programmable Tri-Color Custom LED Alert
- Compander / Clear Voice / Whisper
- Channel Announcement

Digital & Analog Features:

- Mixed Mode Scan
- Emergency
- Priority Scan, Dual Watch, Follow me, Talk Around Scan Modes
- Lone Worker
- PTT ID Encode
- BCLO, BTLO and TOT Functions
- Key Lock
- Remote Monitor

Digital Only Features:

- All Call, Group Call, Individual Call
- Escalart

Analog Only Features:

- Embedded MDC-1200 Encode
- CTCSS/DCS Encode/Decode
- 2 Tone Encode/Decode

Recommended Accessories:

Speaker Microphones

- MH-360S Compact Speaker Microphone
- MH-450S Standard Speaker Microphone
- MH-66A4B IP57 Submersible Speaker Mic

Headsets and Surveillance

- MH-37A4B-1 Earpiece Mic, Light Duty
- VH-150A IS VOX capable lightweight headset, BTH
- VH-150B IS VOX capable lightweight headset, OTH
- MH100 Rx only Earpiece, 3.5mm for use with MH-450S
- MH-101A4B Single Wire Surveillance Kit
- MH-102A4B Two-Wire Surveillance Kit

Multi-Unit Charger

- VAC-6058 MUC Charger

EVX-534/539 Legacy Display Model Cancellation
 Effective upon depletion of inventory, the EVX-534/539 legacy display models will no longer be available for purchase. For replacement models and additional details, refer to [VSOL > Resource Center > Product Information > Cancellations](#)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
EVX-531 Radio Models						
136-174 MHz	VHF	0.25-5W	32	AC113N001-VX	EVX-531-D0-5 VHF 136-174 MHZ	\$ 457.00
403-470 MHz	UHF	0.25-5W	32	AC113U002-VX	EVX-531-G6-5 UHF 403-470 MHZ	\$ 457.00
450-512 MHz	UHF	0.25-5W	32	AC113U001-VX	EVX-531-G7-5 UHF 450-512 MHZ	\$ 457.00
EVX-534 Radio Models						
136-174 MHz	VHF	0.25-5W	512	AC115N001-VX	EVX-534-D0-5 VHF 136-174 MHZ	\$ 498.00
450-512 MHz	UHF	0.25-5W	512	AC115U001-VX	EVX-534-G7-5 UHF 450-512 MHZ	\$ 498.00
EVX-539 Radio Models						
136-174 MHz	VHF	0.25-5W	512	AC115N002-VX	EVX-539-D0-5 VHF 136-174 MHZ	\$ 540.00
450-512 MHz	UHF	0.25-5W	512	AC115U003-VX	EVX-539-G7-5 UHF 450-512 MHZ	\$ 540.00

FCC INFORMATION: EVX-531 Models AXI11133020 (136-174 MHz) / AXI11134620 (403-470 MHz) / AXI11134720 (450-512 MHz) EVX-534/539 Models AXI11153020 (136-174 MHz) / AXI11154620 (403-470 MHz) / AXI11154720 (450-512 MHz)
 IC Info: EVX-531 Models: 10239A-11133020(136-174 MHz)/10239A-11134620(403-470 MHz)/10239A-11134720(450-512 MHz) EVX-534/539 Models: 10239A-11153020(136-174 MHz)/10239A-11154620 (403-470 MHz)/10239A-11154720

EVX-530 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AS	ADD: FNB-V133LI-UNI LI-ION BATTERY 1380MAH	\$ 0.00
QA03680AA	ADD: FNB-134LI-UNI LI-ION BATTERY 2300MAH	\$ 30.00

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI-B Universal Rapid Rate Charger	\$ 0.00
QA03678AA	ADD: VAC-UNI-C Universal 240V EU CHARGER	\$ 0.00
QA03679AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02460AA	ADD: ATV-16A 136-150 MHz Antenna	\$ 0.00
QA02463AA	ADD: ATV-16B 150-162 MHz Antenna	\$ 0.00
QA02478AA	ADD: ATV-16C 162-174 MHz Antenna	\$ 0.00
QA02618AA	ADD: ATV-16XL VHF Untuned Antenna	\$ 0.00
QA02466AA	ADD: ATU-16B 400-420 MHz Antenna	\$ 0.00
QA03039AA	ADD: ATU-16BS 400-430MHz (Stubby)	\$ 0.00
QA02467AA	ADD: ATU-16C 420-450 MHz Antenna	\$ 0.00
QA02464AA	ADD: ATU-16D 450-470 MHz Antenna	\$ 0.00
QA03040AA	ADD: ATU-16DS 450-490MHz (Stubby)	\$ 0.00
QA02465AA	ADD: ATU-16F 470-512 MHz Antenna	\$ 0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

STDBOX0868AA	STANDARD PACKAGING	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

EVX-530 Series Enhanced Display Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

EVX-534/539 portable model standard packages include:

- FNB-V133LI - 1380 mAh Li-ion Battery
- VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)
- VHF or UHF Antenna Selection
- CLIP-20 Belt Clip
- Standard 3 Year Warranty

Radio Features:

- 5W Power Output
- 512 Channels/32 Groups
- 7/9 Programmable Buttons
- IP57 Rating
- Channel Announcement

Digital & Analog Features:

- Mixed Mode Scan
- Emergency
- Priority Scan, Dual Watch, Follow me, Talk Around Scan Modes
- Lone Worker
- PTT ID Encode/Decode
- BCLO, BTLO and TOT Functions
- Key Lock
- DTMF Encode
- Remote Monitor

Digital Only Features:

- All Call, Group Call, Individual Call
- Text Messaging
- Direct/Dual Capacity Mode
- Transmit Interrupt
- Basic/Enhanced Privacy
- 256 bit AES Enhanced Encryption
- Site Roaming
- 128 Record Contact List

Analog Only Features:

- Embedded MDC-1200 Encode/Decode
- CTCSS/DCS Encode/Decode
- 2 Tone Encode/Decode
- 5 Tone Encode/Decode
- DTMF Paging (EVX-539)
- Remote Stun/Kill/Revive (5-Tone)



EVX-534

EVX-539

eVerge™

Recommended Accessories:

Speaker Microphones

- MH-360S Compact Speaker Microphone
- MH-450S Standard Speaker Microphone
- MH-66A4B IP57 Submersible Speaker Mic

Headsets and Surveillance

- MH-37A4B-1 Earpiece Mic, Light Duty
- VH-150A IS VOX capable lightweight headset, BTH
- VH-150B IS VOX capable lightweight headset, OTH
- MH100 Rx only Earpiece, 3.5mm for use with MH-450S
- MH-101A4B Single Wire Surveillance Kit
- MH-102A4B Two-Wire Surveillance Kit

Multi-Unit Charger

- VAC-6058 MUC Charger

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
EVX-534 Radio Models						
136-174 MHz	VHF	0.25-5W	512	AC129N001-VX	EVX-534-D0-5 VHF 136-174 MHz	\$ 498.00
403-470 MHz	UHF	0.25-5W	512	AC129U002-VX	EVX-534-G6-5 UHF 403-470 MHz	\$ 498.00
450-512 MHz	UHF	0.25-5W	512	AC129U001-VX	EVX-534-G7-5 UHF 450-512 MHz	\$ 498.00
EVX-539 Radio Models						
136-174 MHz	VHF	0.25-5W	512	AC129N002-VX	EVX-539-D0-5 VHF 136-174 MHz	\$ 540.00
403-470 MHz	UHF	0.25-5W	512	AC129U004-VX	EVX-539-G6-5 UHF 403-470 MHz	\$ 540.00
450-512 MHz	UHF	0.25-5W	512	AC129U003-VX	EVX-539-G7-5 UHF 450-512 MHz	\$ 540.00

FCC INFORMATION: EVX-534/539 Models AXI11153020 (136-174 MHz) / AXI11154620 (403-470 MHz) / AXI11154720 (450-512 MHz)

IC Info: EVX-534/539 Models: 10239A-11153020(136-174 MHz)/10239A-11154620 (403-470 MHz)/10239A-11154720 (450-512 MHz)

EVX-530 Series Enhanced Display Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AS	ADD: FNB-V133LI-UNI LI-ION BATTERY 1380MAH	\$ 0.00
QA03680AA	ADD: FNB-134LI-UNI LI-ION BATTERY 2300MAH	\$ 30.00

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI-B Universal Rapid Rate Charger	\$ 0.00
QA03678AA	ADD: VAC-UNI-C Universal 240V EU CHARGER	\$ 0.00
QA03679AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02460AA	ADD: ATV-16A 136-150 MHz Antenna	\$ 0.00
QA02463AA	ADD: ATV-16B 150-162 MHz Antenna	\$ 0.00
QA02478AA	ADD: ATV-16C 162-174 MHz Antenna	\$ 0.00
QA02618AA	ADD: ATV-16XL VHF Untuned Antenna	\$ 0.00
QA02466AA	ADD: ATU-16B 400-420 MHz Antenna	\$ 0.00
QA03039AA	ADD: ATU-16BS 400-430MHz (Stubby)	\$ 0.00
QA02467AA	ADD: ATU-16C 420-450 MHz Antenna	\$ 0.00
QA02464AA	ADD: ATU-16D 450-470 MHz Antenna	\$ 0.00
QA03040AA	ADD: ATU-16DS 450-490MHz (Stubby)	\$ 0.00
QA02465AA	ADD: ATU-16F 470-512 MHz Antenna	\$ 0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

STDBOX0868AA	STANDARD PACKAGING	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

EVX-530 Series Intrinsically Safe

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

EVX-530 IS portable model standard packages include:

- FNB-V134LIIS - 2300 mAh I.S. Li-ion Battery
- VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)
- VHF or UHF Antenna Selection
- CLIP-20 Belt Clip
- Standard 3 Year Warranty



EVX-531 EVX-534 EVX-539



Radio Features:

- 5W Power Output
- 32 Channels/2 Groups
- 3 Programmable Buttons
- IP57 Rating
- Programmable Tri-Color Custom LED Alert
- Compander / Clear Voice / Whisper
- Channel Announcement

Digital & Analog Features:

- Mixed Mode Scan
- Emergency
- Priority Scan, Dual Watch, Follow me, Talk Around Scan Modes
- Lone Worker
- PTT ID Encode
- BCLO, BTLO and TOT Functions
- Key Lock
- Remote Monitor

Digital Only Features:

- All Call, Group Call, Individual Call
- Escalart

Analog Only Features:

- Embedded MDC-1200 Encode
- CTCSS/DCS Encode/Decode
- 2 Tone Encode/Decode

Recommended Accessories:

- Speaker Microphone**
MH-66A4B IP57 Submersible Speaker Mic
- Headsets and Surveillance**
MH-81A4B Over the Head VOX Headset

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
EVX-531 Radio Models						
136-174 MHz	VHF	0.25-5W	32	AC113N021-VX	EVX-531-D0-5 VHF 136-174 MHz Intrinsically Safe	\$ 542.00
403-470 MHz	UHF	0.25-5W	32	AC113U022-VX	EVX-531-G6-5 UHF 403-470 MHz Intrinsically Safe	\$ 542.00
450-512 MHz	UHF	0.25-5W	32	AC113U021-VX	EVX-531-G7-5 UHF 450-512 MHz Intrinsically Safe	\$ 542.00
EVX-534 Radio Models						
136-174 MHz	VHF	0.25-5W	512	AC115N021-VX	EVX-534-D0-5 VHF 136-174 MHz Intrinsically Safe	\$ 583.00
403-470 MHz	UHF	0.25-5W	512	AC115U022-VX	EVX-534-G6-5 UHF 403-470 MHz Intrinsically Safe	\$ 583.00
450-512 MHz	UHF	0.25-5W	512	AC115U021-VX	EVX-534-G7-5 UHF 450-512 MHz Intrinsically Safe	\$ 583.00
EVX-539 Radio Models						
136-174 MHz	VHF	0.25-5W	512	AC115N022-VX	EVX-539-D0-5 VHF 136-174 MHz Intrinsically Safe	\$ 625.00
403-470 MHz	UHF	0.25-5W	512	AC115U024-VX	EVX-539-G6-5 UHF 403-470 MHz Intrinsically Safe	\$ 625.00
450-512 MHz	UHF	0.25-5W	512	AC115U023-VX	EVX-539-G7-5 UHF 450-512 MHz Intrinsically Safe	\$ 625.00

FCC INFORMATION: EVX-531 Models AXI11133020 (136-174 MHz) / AXI11134620 (403-470 MHz) / AXI11134720 (450-512 MHz) EVX-534/539 Models AXI11153020 (136-174 MHz) / AXI11154620 (403-470 MHz) / AXI11154720 (450-512 MHz)

IC Info: EVX-531 Models: 10239A-11133020(136-174 MHz)/10239A-11134620(403-470 MHz)/10239A-11134720(450-512 MHz) EVX-534/539 Models: 10239A-11153020(136-174 MHz)/10239A-11154620 (403-470 MHz)/10239A-11154720 (450-512 MHz)

EVX-530 Series Intrinsically Safe

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Digital/Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

QA04678AA	ADD: FNB-V134LIIS- LI-ION I.S. BATTERY 2300MAH	\$ 0.00
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Charger Choices:

STDCHG0868AA	ADD: VAC-UNI-B Universal Rapid Rate Charger	\$ 0.00
QA03678AA	ADD: VAC-UNI-C Universal 240V EU CHARGER	\$ 0.00
QA03679AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02460AA	ADD: ATV-16A 136-150 MHz Antenna	\$ 0.00
QA02463AA	ADD: ATV-16B 150-162 MHz Antenna	\$ 0.00
QA02478AA	ADD: ATV-16C 162-174 MHz Antenna	\$ 0.00
QA02618AA	ADD: ATV-16XL VHF Untuned Antenna	\$ 0.00
QA02466AA	ADD: ATU-16B 400-420 MHz Antenna	\$ 0.00
QA03039AA	ADD: ATU-16BS 400-430MHz (Stubby)	\$ 0.00
QA02467AA	ADD: ATU-16C 420-450 MHz Antenna	\$ 0.00
QA02464AA	ADD: ATU-16D 450-470 MHz Antenna	\$ 0.00
QA03040AA	ADD: ATU-16DS 450-490MHz (Stubby)	\$ 0.00
QA02465AA	ADD: ATU-16F 470-512 MHz Antenna	\$ 0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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VX-820 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-820 portable model standard packages include:

- FNB-V128LI-UNI 2300 mAh Li-Ion Battery
- VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)
- Antenna Option
- Standard 3 Year Warranty



VX-821 VX-824 VX-829

Radio Features:

- 512 Channels/32 Groups (W/LCD) 16 Channels (w/o LCD)
- 12 Character Alpha Numeric Display/Full Keypad
- RSSI & Battery Life Indicator
- 12.5/25 kHz Switchable Channel Spacing
- 9 Programmable Keys (VX-829)
- 7 Programmable Keys (VX-824)
- 3 Programmable Keys (VX-821)
- CTCSS/DCS Encode and Decode
- DTMF ANI
- Optional DTMF Paging
- Audio Compressor
- 2-Tone Encode & Dual 2-Tone Decode
- 5-Tone Encode/Decode
- Multi-Mode Scanning (Inc. Priority, Dual Watch, Follow-Me)
- Emergency Function
- ARTS™ (Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- Optional Voice Inversion Encryption
- Optional Rolling Code Encryption
- Optional Voice Storage
- Optional MDC1200® & GE-Star® ANI
- PC Programmable
- Radio to Radio Cloning
- Rugged, Compact Construction
- MIL-STD C/D/E/F

Recommended Accessories:

- Speaker Microphones**
- MH-50D7A Public Safety Speaker Mic w/Toggle
 - MH-66A7A Submersible Noise Canceling
 - MH-66B7A Submersible with 2 Prog. Func. Keys

Carry Cases

LCC-820S Series (See accessories section for details)

Headsets and Surveillance

- VH-111 Heavy Duty Dual Muff Over the Head style
- VH-121 3 Wire Mini Lapel Mic Surveillance Kit
- VH-131 2 Wire Palm Kit
- VH-115L Headset

VAC-6920B 120/240V 6 Unit Rapid Charger (Use with FNB-V86LIA, FNB-V87LIA, and FNB-V92LI/LIIS only)

VAC-6058 120/240V 6 Unit Rapid Charger (Use with FNB-V127LI, FNB-V128LI, and FNB-V129LI-UNI only)

Alkaline Battery Case

FBA-34 Alkaline Battery Case

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-821 Radio Models						
134-174 MHz	VHF	1-5W	16	AC058N011-VX	VX-821-D0-5	\$ 666.00
400-470 MHz	UHF	1-5W	16	AC058U022-VX	VX-821-G6-5	\$ 682.00
450-512 MHz	UHF	1-5W	16	AC058U019-VX	VX-821-G7-5	\$ 682.00
VX-824 Radio Models						
134-174 MHz	VHF	1-5W	512	AC058N012-VX	VX-824-D0-5	\$ 708.00
400-470 MHz	UHF	1-5W	512	AC058U023-VX	VX-824-G6-5	\$ 724.00
450-512 MHz	UHF	1-5W	512	AC058U020-VX	VX-824-G7-5	\$ 724.00
VX-829 Radio Models						
134-174 MHz	VHF	1-5W	512	AC058N013-VX	VX-829-D0-5	\$ 738.00
400-470 MHz	UHF	1-5W	512	AC058U024-VX	VX-829-G6-5	\$ 754.00
450-512 MHz	UHF	1-5W	512	AC058U021-VX	VX-829-G7-5	\$ 754.00

FCC INFORMATION: K6610583020 (134-174 MHz) / K6610584620 (403-470 MHz) / K6610584720 (450-512 MHz)

VX-820 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AC	ADD: STD BATTERY FNB-V128LI-UNI 2300 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 0.00
QA03902AA	ADD: FNB-V127LI-UNI 1380 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ (16.00)
QA04398AA	ADD: FNB-V129LI-UNI 3000 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 60.00
QA04972AA	ADD: FNB-V129LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-UNI Charger)	\$ 118.34
QA02488AA	ADD: FNB-V87LIA 2300 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 8.33
QA02659AA	ADD: FNB-V86LIA 1380 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ (7.67)
QA02660AA	ADD: FNB-V92LI 3000 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 68.33
QA02487AA	ADD: FNB-V92LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-921 Charger)	\$ 118.34

QA02487AA Cancellation

Effective upon depletion of inventory, QA02487AA will no longer be available. Please visit the [VSOL > Resource Center](#) for more information

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V Standard Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA02742AA	ADD: VAC-921B 120V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02743AA	ADD: VAC-921C 240V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02481AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

STDBOX0868AA	Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

VX-920 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-920 Series portable models packages can include:

- FNB-V128LI-UNI 2300 mAh Li-Ion Battery
- VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)
- Antenna Option
- Standard 3 Year Warranty



VX-921

VX-924

Radio Features:

- 512 Channels/32 Groups (VX-924) 48 Channels (VX-921)
- 12 Character Alpha Numeric Display (VX-924)
- Eight Programmable Keys (VX-924)
- Four Programmable Keys (VX-921)
- Programmable 3-position toggle key
- 7 - Color LED Call Alert Indicator
- RSSI & Battery Life Indicator
- 12.5/25 kHz Switchable Channel Spacing
- Stun / Kill / Revive (5-tone)
- Lone Worker
- CTCSS/DCS Encode and Decode
- DTMF ANI
- Optional DTMF Paging
- Audio Comander & Whisper
- 2-Tone Encode & Dual 2-Tone Decode
- 5-Tone Encode/Decode
- Multi-Mode Scanning (Inc. Priority, Dual Watch & Follow-Me) (Incl. Dual Watch, Priority, Follow-Me)
- Emergency Function
- ARTS™(Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- Optional Voice Inversion Encryption
- Optional Rolling Code Encryption
- Optional Voice Storage
- Optional MDC1200® & GE-Star® ANI
- PC Programmable
- Radio to Radio Cloning
- Rugged, Compact Construction
- MIL-STD C/D/E/F

Recommended Accessories:

- Speaker Microphones**
 - MH-50D7A Public Safety Speaker Mic w/Toggle
 - MH-66A7A Submersible Noise Canceling
 - MH-66B7A Submersible with 2 Prog. Func. Keys
- Carry Cases**
 - LCC-920S Series (See accessories section for details)
- Headsets and Surveillance**
 - VH-111 Heavy Duty Dual Muff Over the Head style
 - VH-121 3 Wire Mini Lapel Mic Surveillance Kit
 - VH-131 2 Wire Palm Kit
 - VH-115L Headset
- Multi-Unit Chargers**
 - VAC-6920B 120/240V 6 Unit Rapid Charger (Use with FNB-V86LIA, FNB-V87LIA, and FNB-V92LI/LIIS only)
 - VAC-6058 120/240V 6 Unit Rapid Charger (Use with FNB-V127LI, FNB-V128LI, and FNB-V129LI-UNI only)
- Alkaline Battery Case**
 - FBA-34 Alkaline Battery Case

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-921 Radio Models						
134-174 MHz	VHF	1-5W	48	AC033N018-VX	VX-921-D0-5	\$ 650.00
400-470 MHz	UHF	5W	48	AC033U035-VX	VX-921-G6-5	\$ 666.00
450-512 MHz	UHF	1-5W	48	AC033U026-VX	VX-921-G7-5	\$ 666.00
VX-924 Radio Models						
134-174 MHz	VHF	1-5W	512	AC033N019-VX	VX-924-D0-5	\$ 692.00
400-470 MHz	UHF	5W	512	AC033U036-VX	VX-924-G6-5	\$ 708.00
450-512 MHz	UHF	1-5W	512	AC033U027-VX	VX-924-G7-5	\$ 708.00

FCC INFORMATION: K6610333020 (134-174 MHz) / K6610334620 (403-470 MHz) / K6610334720 (450-512 MHz)

VX-920 Series

Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AC	ADD: STD BATTERY FNB-V128LI-UNI 2300 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 0.00
QA03902AA	ADD: FNB-V127LI-UNI 1380 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ (16.00)
QA04398AA	ADD: FNB-V129LI-UNI 3000 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 60.00
QA04972AA	ADD: FNB-V129LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-UNI Charger)	\$ 118.34
QA02488AA	ADD: FNB-V87LIA 2300 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 8.33
QA02659AA	ADD: FNB-V86LIA 1380 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ (7.67)
QA02660AA	ADD: FNB-V92LI 3000 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 68.33
QA02487AA	ADD: FNB-V92LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-921 Charger)	\$ 118.34

QA02487AA Cancellation

Effective upon depletion of inventory, QA02487AA will no longer be available. Please visit the VSOL > Resource Center for more information

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V Standard Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA02742AA	ADD: VAC-921B 120V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02743AA	ADD: VAC-921C 240V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02481AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

STDBOX0868AA	Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

VXD-720 Series Portables

UHF / VHF Models, 12.5 kHz / 6.25 kHz^e, Analog/Digital

VXD-720 portable models packages can include:

FNB-V116 - 1300 mAh Ni-MH Battery

VAC-40B - Single Unit Charger

Antenna

CLIP - 21 - Belt Clip

Standard 3 Year Warranty



VXD-720

Radio Features:

- 512 Channel Capacity
- 5 Programmable Keys
- 40 Character Scrolling Alphanumeric Display
- Tri-Color LED custom Call Alert
- Digital Encode/Decode: Call Alert, Private Call, Emergency
- Selective Radio Inhibit, radio check and remote monitor
- MDC-1200[®] analog encode/decode: call alert, emergency and PTT ID
- 2-Tone Analog paging, call alert, call alert w/voice, Select Call
- Basic Privacy in Digital Mode
- VOX
- Mixed Mode Scan
- AMBE+2[™] Digital Vocoder
- Radio to Radio Cloning

VXD-720 Series Radio Cancellation

Effective December 31, 2014 or upon depletion of inventory, VXD-720 Series radios will no longer be available for purchase. For additional details, refer to [VSOL > Resource Center > Product Information > Cancellations](#)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VXD-720 Series Radio Models						
136-174	VHF	5W	512	AC102N001-VX	VXD-720-D0-5 VHF 136-174 MHz	\$ 750.00
403-470	UHF	4W	512	AC102U001-VX	VXD-720-G6-4 UHF 403-470 MHz	\$ 750.00
450-512	UHF	4W	512	AC102U002-VX	VXD-720-G7-4 UHF 450-512 MHz	\$ 750.00

FCC INFORMATION: K6611023020 (134-174 MHz) / K6611024620 (403-470 MHz) / K6611024720 (450-512 MHz)

VXD-720 Series Portables

UHF / VHF Models, 12.5 kHz / 6.25 kHz^e, Analog/Digital

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

QA02730AA	ADD: FNB-V116 1300 mAh NiMH	\$ 0.00
QA02735AA	ADD: FNB-V117LI 2200 mAh Li-Ion	\$ 30.00

Charger Choices:

QA02732AA	ADD: VAC-40 Single Unit Charger	\$ 0.00
QA02733AA	DELETE: Charger	\$ (80.00)

General Options:

Programming Option:

QA0274AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

QA03060AA	ADD: Bulk Packaging (Does not include radio model boxes with shipment)	\$ 0.00
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Vertex Standard Portable Accessories

MSRP

VX-261	VX-264	VX-231	VX-350	VX-450	VX-450IS	VX-820	VX-920	EVX-530	EVX-530 IS	VXD-720	Model Number	Description	MSRP
Alignment / Service Related													
X	X	X									XURFI0001	CN-3 SMA to BNC Adaptor	\$ 11.00
		X	X	X							AAF26X002	CT-124B VX-410/420 Firmware Cable. Requires FIF-12A	\$ 60.00
Alkaline Battery Cases													
X	X			X				X			AAH09X001	FBA-41 Alkaline Battery Pack	\$ 44.00
						X	X				AAE11X002	FBA-34 Alkaline Battery Case VX-820/920 series	\$ 45.00
Antennas													
				X	X			X	X		AAH72X001	ATU-16B UHF Antenna 400-420 MHz	\$ 14.00
				X	X			X	X		AAH72X002	ATU-16C UHF Antenna 420-450 MHz	\$ 14.00
				X	X			X	X		AAH72X003	ATU-16D UHF Antenna 450-470 MHz	\$ 14.00
				X	X			X	X		AAH72X004	ATU-16F UHF Antenna 470-512 MHz	\$ 14.00
X	X	X	X					X			XUCET0010	ATU-6A 400-430 MHz / Brown / 6.5" / VX10UA/600/800/900	\$ 14.00
								X			XUCET0011	ATU-6AS Antenna 410-430 MHz / 3.5"	\$ 13.00
X	X	X	X			X	X				XUCET0012	ATU-6D 450-485 MHz / Red / 6" / VX-	\$ 14.00
X	X	X	X			X	X				XUCET0013	ATU-6DS Antenna 450-485 MHz / 3.5"	\$ 14.00
X	X	X	X								Q3000203	ATU-6F UHF 490-512 MHz Antenna	\$ 14.00
						X	X				XUCET0033	ATV-10A High Gain Antenna, 145-155MHz (Red) / 10.5"	\$ 16.00
						X	X				XUCET0034	ATV-10B High Gain Antenna, 150-160MHz (Brn) / 10.5"	\$ 16.00
						X	X				XUCET0035	ATV-10C High Gain Antenna, 155-165MHz (Blk) / 10.5"	\$ 16.00
						X	X				XUCET0036	ATV-10E High Gain Antenna, 165-175MHz (Org) / 10.5"	\$ 16.00
				X	X			X	X		AAH73X002	ATV-16A VHF Antenna 136-150 MHz	\$ 14.00
				X	X			X	X		AAH73X003	ATV-16B VHF Antenna 150-162 MHz	\$ 14.00
				X				X	X		AAJ10X001	ATU-16BS UHF 400-430 MHz Stubby	\$ 14.00
				X	X			X	X		AAH73X004	ATV-16C VHF Antenna 162-174 MHz	\$ 14.00
				X				X	X		AAJ10X002	ATU-16DS UHF 450-490 MHz Stubby	\$ 14.00
				X	X			X	X		AAH73X001	ATV-16XL VHF Untuned Antenna	\$ 14.00
						X					XUCET0019	ATV-6A Antenna 134-151 MHz / 4"	\$ 13.00
X	X	X	X			X	X				XUCET0020	ATV-6B Antenna 150-163 MHz / 3.5"	\$ 15.00
X	X	X	X			X	X				XUCET0021	ATV-6C Antenna 161-174 MHz / 3.5"	\$ 13.00
X	X	X	X			X	X				XUCET0022	ATV-6XL Untuned VHF Antenna 7"	\$ 14.00
X	X	X	X			X	X				XUCET0023	ATV-8A Antenna 134-150 MHz / Sable / 6"	\$ 14.00
X	X	X	X			X	X				XUCET0024	ATV-8B Antenna 150-163 MHz / Sable / 6"	\$ 14.00
X	X	X	X			X	X				XUCET0025	ATV-8C Antenna 162-174 MHz / Sable / 6"	\$ 14.00
								X			AAE64X001	ATW-1A Dual-band antenna for multi-band Rx: 134-151MHz / 450-520MHz	\$ 28.00
								X			AAE64X003	ATW-1C Dual-band antenna for multi-band Rx: 161-174MHz / 450-520MHz	\$ 28.00
								X			AAE64X002	ATW-1B Dual-band antenna for multi-band Rx: 150-163MHz / 450-520MHz	\$ 28.00
Batteries													
		X									AAJ65X001	FNB-V131LI-UNI 1380 mAh Li-Ion (VAC-UNI charger only)	\$ 40.00
		X									AAJ66X001	FNB-V132LI-UNI 2300 mAh Li-Ion (VAC-UNI charger only)	\$ 60.00
		X									AAG40X021	FNB-V103LIA 7.4V 1380 mAh Li-Ion Battery (VAC-300 Charger	\$ 48.33
		X									AAG41X021	FNB-V104LI 7.4V 2300 mAh Li-Ion Battery (VAC-300 Charger Only)	\$ 68.33
			X								AAF21X021	FNB-V96LIA 2300mAh Li-Ion Battery (VAC-300 Charger Only)	\$ 48.33
			X								AAJ64X001	FNB-V130LI-UNI 2300 mAh Li-Ion (VAC-UNI charger only)	\$ 40.00
				X							AAH07X002	FNB-V112LI 7.4V 1140mAh Li-Ion Battery Pack (VAC-450 Only)	\$ 48.33
				X							AAH08X002	FNB-V113LI 7.4V 2300 mAh Li-Ion Battery Pack (VAC-450 Only)	\$ 78.33
					X						AAH13X002	FNB-V113LIIS 2300 mAh Li-Ion IS Battery	\$ 120.00
X	X			X				X			AAJ67X001	FNB-V133LI-UNI 1380 mAh Li-Ion Battery (VAC-UNI charger)	\$ 40.00
X	X			X				X			AAJ68X001	FNB-V134LI-UNI 2300 mAh Li-Ion Battery (VAC-UNI charger only)	\$ 70.00
					X				X		AAK66X001	FNB-V134LIIS 2300 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 120.00
						X	X				AAD82X021	FNB-V86LIA 7.4 V 1380mAh Li-Ion Battery	\$ 72.33
						X	X				AAD83X021	FNB-V87LIA 7.4V 2300mAh Li-Ion Battery	\$ 88.33
						X	X				AAE79X001	FNB-V92LIIS 7.4 V 3000 mAh Li-Ion Battery, Intrinsically Safe	\$ 160.00
						X	X				AAJ61X001	FNB-V127LI-UNI 1380 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 64.00
						X	X				AAJ62X001	FNB-V128LI-UNI 2300 mAh Li-Ion Battery (VAC-UNI)	\$ 80.00
						X	X				AAJ63X001	FNB-V129LI-UNI 3000 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 140.00

Vertex Standard Portable Accessories

Date 6/26/2015

MSRP

VX-261	VX-264	VX-231	VX-350	VX-450	VX-450IS	VX-820	VX-920	EVX-530	EVX-530 IS	VXD-720	Model Number	Description	MSRP
Belt Clips													
							X				AAE85X001	CLIP17-A Swivel Belt Clip	\$ 16.00
						X					AAE85X002	CLIP17-B Swivel Belt Clip	\$ 16.00
		X	X								AAE85X005	CLIP-17E Belt Clip Swive	\$ 16.00
		X	X								AAF60X101	CLIP-18 Belt Clip	\$ 10.00
X	X			X	X			X	X		AAH12X101	CLIP-20 Belt clip VX-450 Series	\$ 10.00
						X					AAE52X001	CLIP-820 Belt Clip for the VX-820 Series (TM)	\$ 10.00
							X				AAE51X001	CLIP-920 Belt Clip for the VX-920 Series (TM)	\$ 10.00
Cases													
		X	X								XUBEE0064	LCC-351 Leather case with belt loop	\$ 32.00
		X	X								XUBEE0065	LCC-351S Leather case with swivel mount	\$ 42.00
			X								XUBEE0066	LCC-354 VX-354 Leather case	\$ 32.00
			X								XUBEE0067	LCC-354S VX-354 Leather case with swivel	\$ 42.00
				X				X	X		AAJ14X001	LCC-133LN BELT LOOP CASE (FNB-V133LI-UNI) NO DISPLAY	\$ 32.00
				X				X	X		AAJ14X002	LCC-134LN BELT LOOP CASE (FNB-V134LI-UNI) NO DISPLAY	\$ 32.00
				X				X	X		AAJ14X003	LCC-133SN SWIVEL BELT CLIP CASE (FNB-V133LI-UNI) NO DISPLAY	\$ 42.00
				X				X	X		AAJ14X004	LCC-134SN SWIVEL BELT CLIP CASE (FNB-V134LI-UNI) NO DISPLAY	\$ 42.00
				X				X	X		AAJ14X005	LCC-133LD BELT LOOP CASE (FNB-V133LI-UNI) DISPLAY	\$ 32.00
				X				X	X		AAJ14X006	LCC-134LD BELT LOOP CASE (FNB-V134LI-UNI) DISPLAY	\$ 32.00
				X				X	X		AAJ14X007	LCC-133SD SWIVEL BELT CLIP CASE (FNB-V133LI-UNI) DISPLAY	\$ 42.00
				X				X	X		AAJ14X008	LCC-134SD SWIVEL BELT CLIP CASE (FNB-V134LI-UNI) DISPLAY	\$ 42.00
						X					XUBEE0048	LCC-820 Leather case with Belt Loop	\$ 32.00
						X					XUBEE0069	LCC-820H Leather case with belt loop. For use with VX-821/P821 and FNB - V92LI (and IS) battery	\$ 32.00
						X					XUBEE0046	LCC-820S Leather Case with Swivel and Belt Loop	\$ 42.00
						X					XUBEE0047	LCC-820S/TT Leather Case w/Swivel, Belt Loop and Keyboard Opening	\$ 42.00
						X					XUBEE0068	LCC-820SH Leather case with D Swivel. For use with VX-821/P821 and FNB - V92LI (and IS) battery	\$ 42.00
						X					XUBEE0072	LCC-820SH/TT Leather case with D swivel. For use with VX-829/P829 and FNB - V92LI (and IS) battery	\$ 42.00
							X				XUBEE0075	LCC-920H Leather case with belt loop. For use with VX-921/P921 and FNB - V92LI (and IS) battery	\$ 32.00
							X				XUBEE0079	LCC-920H/TT Leather case with belt loop. For use with VX-929/P929 and FNB - V92LI (and IS) battery	\$ 32.00
							X				XUBEE0049	LCC-920S Leather Case with Swivel and Belt Loop	\$ 42.00
							X				XUBEE0050	LCC-920S/TT Leather case w/ Swivel Clip and Keyboard Cut-Out	\$ 42.00
							X				XUBEE0074	LCC-920SH Leather case with D Swivel. For use with VX-921/P921 and FNB - V92LI (and IS) battery	\$ 42.00
							X				XUBEE0078	LCC-920SH/TT Leather case with D swivel. For use with VX-929/P929 and FNB - V92LI (and IS) battery	\$ 42.00
							X				XUBEE0051	LCC-920TT Leather Case w/Belt Loop and Keypad Cut-out	\$ 32.00

Vertex Standard Portable Accessories

Date 6/26/2015

MSRP

VX-261	VX-264	VX-231	VX-350	VX-450	VX-450IS	VX-820	VX-920	EVX-530	EVX-530 IS	VXD-720	Model Number	Description	MSRP
Charger													
				X							AAH10X101	CD-49 Rapid Rate, Desktop Charger	\$ 20.00
		X	X								XUAAF19X10201	VAC-300B Desktop Rapid Charger for VX-351/354, 120VAC (For use with FNB-V103LIA, FNB-V104LIA and FNB-V96LIA only)	\$ 50.33
		X	X								XUAAF19X10202	VAC-300C Desktop Rapid Charger for VX-351/354, 230VAC (For use with FNB-V103LIA, FNB-V104LIA and FNB-V96LIA only)	\$ 50.33
X	X	X	X	X		X	X	X			XUAAJ72X001	VAC-UNI-B 120V US Universal Charger (For use with -UNI	\$ 36.00
X	X	X	X	X		X	X	X			XUAAJ72X002	VAC-UNI-C 220V EU Universal Charger (For use with -UNI	\$ 36.00
				X							XUAAH10X10101	VAC-450B 120 VAC (PA45B/CD-49) (FNB-V112LI & FNB-V113LI	\$ 36.00
				X							XUAAH10X10102	VAC-450C 230 VAC (PA-45C/CD-49) (FNB-V112LI & FNB-V113LI	\$ 36.00
X	X	X	X	X		X	X	X			XUAAK44X001	VAC-6058 120V MUC FOR UNI LIION BATTERY	\$ 450.00
X	X	X	X	X		X	X	X			XUAAK44X002	VAC-6058 220V EU MUC FOR UNI LIION BATTERY	\$ 450.00
		X	X								XUAAF61X00101	VAC-6300B 120VAC 6 unit Multi-Rapid Charger w/ US power cable	\$ 450.00
		X	X								XUAAF61X00102	VAC-6300C 240VAC 6 unit Multi-Rapid Charger w/ EU plug	\$ 450.00
				X							XUAAH93X00101	VAC-6450B 120VAC 6 unit Multi Charger	\$ 450.00
				X							XUAAH93X00102	VAC-6450C 240VAC (VAC-6450/AC Cable)	\$ 450.00
						X	X				XUAAE75X00101	VAC-6920B 120VAC 6 unit Multi-Rapid Charger w/ US power cable	\$ 575.00
						X	X				XUAAE75X00102	VAC-6920C 240VAC 6 unit Multi-Rapid Charger w/ EU power cable	\$ 575.00
						X	X				XUAAE45X00101	VAC-921B 120 VAC Desktop Rapid charger	\$ 72.33
						X	X				XUAAE45X00102	VAC-921C 240 VAC Desk top rapid charger	\$ 72.33
		X	X			X	X				AAF15X001	VCM-2 Vehicular Charger Mounting Adapter Kit for VAC-920 & VAC-300	\$ 60.00
				X							AAH92X001	VCM-4 Vehicular Charger Mounting Adapter for VAC-450	\$ 60.00
X	X	X	X	X		X	X	X			AAK45X001	VCM-5 Vehicle Charger Mounting Adapter – UNI Charger/Batteries Only	\$ 72.00
Headsets and Surveillance													
		X	X	X							AAA93X002	VH-110S Over-Head, Heavy Duty Headset	\$ 540.00
						X	X				AAE72X001	VH-111 Heavy Duty, Dual Muff, Over the head style, with Boom Mic	\$ 400.00
X	X	X	X	X	X				X		AAL40X001	VH-150A IS Lightweight behind-the-head VOX headset	\$ 70.00
X	X	X	X	X	X				X		AAL41X001	VH-150B IS Lightweight over-the head VOX headset	\$ 80.00
X	X	X	X	X							AAL82X001	MH-100 3.5MM EARPIECE for RSM Audio Jack	\$ 19.00
X	X	X	X	X							AAL83X001	MH-101A4B 1 Wire Surveillance Kit	\$ 40.00
X	X	X	X	X							AAL84X001	MH-102A4B 2 Wire Surveillance Kit	\$ 55.00
		X	X	X							AAG48X001	VH-115S Lightweight Headset w/ Boom	\$ 55.00
		X	X	X							AAA92X002	VH-120S Earpiece Mic w/ Palm PTT	\$ 220.00
		X	X	X							AAA91X003	VH-130S Earpiece Mic w/ Palm PTT	\$ 150.00
						X	X				AAG48X003	VH-115L Headset	\$ 98.00
		X	X	X							AAG49X001	VH-215S Lightweight Padded Headset, Single Speaker	\$ 121.00
X	X	X	X	X				X			AAK50X001	MH-37A4B-1 EARPIECE MICROPHONE Single Wire Surveillance Kit	\$ 40.00

ATTENTION: A08050001 is scheduled for cancellation. It is replaced by the AAK50X001 which is compatible with the digital EVX-530 series in addition to analog. A08050001 will be available while supplies last.

Vertex Standard Portable Accessories

Date 6/26/2015

MSRP

			VX-231	VX-350	VX-450	VX-450IS	VX-820	VX-920	EVX-530	EVX-530 IS	VXD-720	Model Number	Description	MSRP
Misc.														
					X	X						AAH99X101	CSS-450 Channel Selector Stopper	\$ 8.00
					X							AAH63X001	DVS-8 Digital Voice Storage Unit	\$ 50.00
					X	X						AAH88X001	DVS-9 Mandown and voice storage	\$ 100.00
Power Supply														
					X							AAH11X002	PA-45B AC Adapter	\$ 16.00
Programming and Installation														
X	X	X	X	X					X			AAD68X001	CT-106 - FIF-12 to VX-160/180/410/420/450 Cable	\$ 40.00
							X	X				AAD92X001	CT-108 - PC programming cable (for use with the FIF-12 or FIF-12A USB Interface)	\$ 65.00
							X	X				AAE50X001	CT-116 Radio to Radio Programming Cable	\$ 65.00
					X				X			AAH77X001	CT-153 Clone cable	\$ 50.00
							X	X				AAJ09X001	CT-161 PROG CABLE(PORT W/ 14PIN CONN) (USE WITH FRB-6)	\$ 76.00
X	X	X	X	X					X			XURTS0008	CT-27A Radio to radio cloning cable	\$ 14.00
X	X	X	X	X			X	X	X			AAJ06X001	FRB-6 Tuning Interface (Requires Connection Cable)	\$ 340.00
X	X	X	X	X								AAJ08X001	CT-160 Connection Cable 4-Pin Mic Jack (Use with FRB-6)	\$ 55.00
X	X	X	X	X			X	X	X			AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional cable pigtailed. Pigtails not included.	\$ 150.00
Signaling														
							X	X				AAD51X001	DVS-5 Digital Voice Storage Board (120 sec. max.)	\$ 50.00
				X			X	X				A12760001	FVP-25 Encryption Unit (Band Inversion Type) and DTMF Paging. (requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000)	\$ 60.00
				X			X	X				AAF39X001	FVP-35 Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000. Requires VX MPI for programming	\$ 346.00
				X			X	X				A12760003	FVP-36 Encryption Unit (Band Inversion Type)	\$ 40.00
								X				AAD34U001	SRX-3 D Dual Band Rx module. Adds UHF Rx to VHF radio. 450 MHz ~ 512 MHz	\$ 160.00
								X				AAD34N001	SRX-4 Dual Band Rx module. Adds VHF Rx to UHF radio. 135 MHz ~ 174 MHz	\$ 160.00
							X	X				XUCMR0002	VMDE-200 Board for MDC1200 Encode/Decode	\$ 127.79
				X			X	X				XUCMR0003	VME-100 Board for MDC1200 Digital ANI	\$ 69.31
				X	X							XUCMR0005	FVP-44 ROLLING CODE ENCRYPTION UNIT	\$ 346.00
Speaker Microphones														
X	X	X	X	X					X			AAF52X001	MH-360S Compact Speaker Microphone for VX-210A, VX-160, VX-180 & VX-450. Very similar to the MH-34D4B.	\$ 21.00
X	X	X	X	X					X			AAF53X001	MH-450S Medium-Duty Speaker Microphone w/ Lapel Clip and 3.5mm Ear Phone Jack	\$ 26.67
			X	X	X							A13960007	MH-45B4B Noise Cancelling Speaker Microphone	\$ 82.00
							X	X				AAA75X004	MH-50D7A Public Safety Speaker Microphone w/toggle, MIL-STD Rated	\$ 94.00
							X	X		X		AAE46X001	MH-66A7A Submersible Noise Canceling Speaker Microphone	\$ 92.00
X	X			X	X				X	X		AAE46X007	MH-66A4B IP57 Submersible Speaker Microphone	\$ 92.00
							X	X				AAE46X002	MH-66B7A Submersible Speaker Microphone with 2 Programmable Function keys and Audio Attenuator Switch.	\$ 180.00

VX-420A Series

Trunking Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-420A trunking portable models packages can include:

FNB-V94 - 7.2 V 1800 mAh NiMH Battery

VAC-20B - 120 VAC 3 - Hour Desktop Charger

Antenna Option

Standard 3 Year Warranty



VX-420A (4key) VX-420A (16key)

Radio Features:

- 250 Conventional Ch./32 LTR System/Groups/16 Passport Zones
- 8 Character Alphanumeric Display
- 7 Programmable Function Buttons
- Intrinsically Safe Option Available
- 12.5/25 kHz Switchable Channel Spacing
- 2 Programmable Buttons
- CTCSS/DCS Encode and Decode
- DTMF ANI /Optional DTMF Paging (with FVP-25)
- Audio Comander
- 2-Tone Encode & Dual 2-Tone Decode
- Multi-Mode Scanning (Inc. Priority, Dual Watch, Follow-Me)
- *ARTS™ (Auto-Range Transpond System) *Conv. Mode Only
- BCLO, BTLO and TOT Functions
- Built In Voice Inversion Encryption
- Emergency Function
- Radio to Radio Cloning

PassPort Mode Only Radio Features:

- Remote Stun, Kill, Revive
- Selective Calling
- PassPort Classic format by Trident Micro Systems

VX-420A Series Radio Cancellation
 Effective upon depletion of inventory, VX-420A Series radios will no longer be available for purchase. For additional details, refer to [VSOL > Resource Center > Product Information > Cancellations](#)

Recommended Accessories:

Speaker Microphones

MH-450S Standard Speaker Microphone

Carry Case

LCC-420S Leather Case with Swivel

Headsets and Surveillance

VH115S Lightweight Headset with Boom Mic

Multi-Unit Charger

VAC-6800B 6 Unit Rapid Charger (Li-Ion only)

Spare Battery

PRODUCT DETAILS NEW MODEL PREVIOUS MODEL MSRP

BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-424A Radio Models						
134-174 MHz	VHF	1-5W	250	AC071N102-VX	VX-424A(4Key)	\$ 407.00
134-174 MHz	VHF	1-5W	250	AC071N101-VX	VX-424A(16Key)	\$ 427.00

FCC INFORMATION: K6610503220 (134-174 MHz) / K6610504420 (450-512 MHz)

VX-420A Series

Trunking Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

QA02473AA	ADD: FNB-V94 1800 mAh NiMH Battery	\$ 0.00
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Charger Choices:

QA02476AA	ADD: VAC-20B 120V 3 Hour Desktop Charger	\$ 0.00
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QA02650AA	ADD: VAC-20C 240V 3 Hour Desktop Charger	\$ 0.00
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QA02477AA	ADD: VAC-810B Rapid Rate Charger (Only for use with Li-Ion Batteries)	\$ 22.00
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QA02477AA	ADD: VAC-810C 240V Rapid Rate Charger (Only for use with Li-Ion Batteries)	\$ 22.00
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QA02608AA	DELETE: Charger	\$ (38.00)
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Antenna Choices:

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
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QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
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QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
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QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
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QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
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QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
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QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
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QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00
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General Options:

Programming Option:

QA02501AA	ADD: Passport Trunking	\$ 0.00
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QA02724AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Shipping Option:

QA03060AA	ADD: Bulk Packaging	\$ 0.00
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VX-2100 Series

Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-2100 mobile models include:

MH-67A8J - Standard Microphone

Standard 3 Year Warranty



VX-2100

Radio Features:

- 8 Channels
- 50W or 25W Power Output
- 12.5/25 kHz Switchable Channel Spacing
- 6 Programmable/Replaceable Buttons
- Loud Front Speaker Audio
- CTCSS/DCS Encode and Decode
- DTMF ANI
- 2-Tone Encode/Decode
- Built-In 5 Tone Signaling
- Emergency Feature
- ARTS™ (Auto-Range Transpond System)
- DTMF Paging (Option)
- Encryption (Voice inversion/Rolling Code) OPTION
- MIL-STD 810 C/D/E/F
- D-SUB 15 pin Accessory Connector
- Multi-Mode Scanning (Incl. Dual Watch, Priority, Follow-Me)

Recommended Accessories:

Microphone

MD-12A8J Desktop Microphone

External Speaker

MLS-100 12W External Speaker

MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-2100 Series Radio Models						
134-174 MHz	VHF	25W	8	AC061N133-VX	VX-2100-D0-25	\$ 330.00
134-174 MHz	VHF	50W	8	AC061N131-VX	VX-2100-D0-50	\$ 345.00
400-470 MHz	UHF	25W	8	AC061U137-VX	VX-2100-G6-25	\$ 350.00
400-470 MHz	UHF	45W	8	AC061U135-VX	VX-2100-G6-45	\$ 380.00
450-512 MHz	UHF	25W	8	AC061U133-VX	VX-2100-G7-25	\$ 350.00
450-512 MHz	UHF	45W	8	AC061U131-VX	VX-2100-G7-45	\$ 380.00

FCC INFORMATION: K66110613040 (134-174 MHz) / K6610614640 (403-470 MHz - 25W) / K6610614640 (403-470 MHz 45W) / K6610614730 (450-512 MHz 25W) / K6610614740 (450-512 MHz 45W)

VX-2100 Series

Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Speaker Microphone Choices:

QA02627AA	ADD: MH-67A8J Speaker Microphone	\$ 0.00
QA02626AA	ADD: MH-75A8J DTMF Speaker Microphone	\$ 15.00

General Options:

Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 0.00
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VX-2200 Series

Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-2200 mobile models include:

MH-67A8J - Standard Microphone

Standard 3 Year Warranty



VX-2200

Radio Features:

- 128 Channels
- 50W or 25W Power Output
- 12.5/25 kHz Switchable Channel Spacing
- 6 Programmable/Replaceable Buttons
- Loud Front Speaker Audio
- CTCSS/DCS Encode and Decode
- DTMF ANI
- 2-Tone Encode/Decode
- Built-In 5 Tone Signaling
- Emergency Feature
- ARTS™ (Auto-Range Transpond System)
- DTMF Paging (Option)
- Encryption (Voice inversion/Rolling Code) OPTION
- MDC-1200®/GE-STAR® ANI Encode OPTION
- MIL-STD 810 C/D/E/F
- D-SUB 15 pin Accessory Connector
- Multi-Mode Scanning (Incl. Dual Watch, Priority, Follow-Me)

Recommended Accessories:

Microphone

MD-12A8J Desktop Microphone

External Speaker

MLS-100 12W External Speaker

MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-2200 Series Radio Models						
134-174 MHz	VHF	25W	128	AC061N134-VX	VX-2200-D0-25	\$370.00
134-174 MHz	VHF	50W	128	AC061N132-VX	VX-2200-D0-50	\$395.00
400-470 MHz	UHF	25W	128	AC061U138-VX	VX-2200-G6-25	\$390.00
400-470 MHz	UHF	45W	128	AC061U136-VX	VX-2200-G6-45	\$420.00
450-512 MHz	UHF	25W	128	AC061U134-VX	VX-2200-G7-25	\$390.00
450-512 MHz	UHF	45W	128	AC061U132-VX	VX-2200-G7-45	\$420.00

FCC INFORMATION: K66110613040 (134-174 MHz) / K6610614640 (403-470 MHz - 25W) / K6610614640 (403-470 MHz 45W) / K6610614730 (450-512 MHz 25W) / K6610614740 (450-512 MHz 45W)

VX-2200 Series

Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Speaker Microphone Choices:

QA02627AA	ADD: MH-67A8J Speaker Microphone	\$ 0.00
QA02626AA	ADD: MH-75A8J DTMF Speaker Microphone	\$ 15.00

General Options:

Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$50.00
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VX-4500/4600 Series

Mobiles

UHF/VHF Models, 12.5 kHz/ 20 kHz / 25 kHz Analog

VX-4500/4600 mobile models include:

MH-67A8J Standard Microphone

Standard 3 Year Warranty



VX-4500



VX-4600

Radio Features:

- 512 Channels/32 Groups (VX-4600), 8 Channels (VX-4500)
- 6 Programmable Keys
- 8 Character alphanumeric display (VX-4600)
- RSSI signal strength indicator (VX-4600)
- Embedded MDC-1200 Encode and Decode
- Channel Announcement
- VOX Built-in
- Speed Dial (VX-4600)
- CTCSS / DCS Encode and Decode
- BCLO / BTLO and TOT Functions
- Componder
- Direct Channel entry (VX-4600)
- Minimum volume control
- Talk around
- Priority scan
- Dual priority scan
- Dual watch scan
- Follow-me scan
- Talk around scan
- Talk back scan
- Operator selectable scan
- Group scan
- Manual squelch control
- D-sub 15 pin accessory connector
- Public address / horn alert
- Radio to Radio Cloning
- Clone Programming files from VX-450 to VX-4500/4600
- MIL -STD 810 C/D/E/F/G

Recommended Accessories:

Microphone:

- MH-67A8J: Standard microphone
- MH-75A8J: Keypad microphone (16 keys)
- MD-12A8J: Desktop microphone

External Speaker:

- MLS-100: External speaker, square, 12W
- MLS-200 Waterproof External Speaker (12 Watt Peak)

Additional:

- LF-6: DC Line Filter

Option Boards:

- DVS-8: Digital voice storage

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-4500 Radio Models						
134-174 MHz	VHF	50W	8	AC093N101-VX	VX-4500-D0-50	\$460.00
400-470 MHz	UHF	45W	8	AC093U105-VX	VX-4500-G6-45	\$460.00
450-512 MHz	UHF	45W	8	AC093U101-VX	VX-4500-G7-45	\$460.00
VX-4600 Radio Models						
134-174 MHz	VHF	50W	512	AC093N102-VX	VX-4600-D0-50	\$510.00
400-470 MHz	UHF	45W	512	AC093U106-VX	VX-4600-G6-45	\$510.00
450-512 MHz	UHF	45W	512	AC093U102-VX	VX-4600-G7-45	\$510.00

FCC INFORMATION: K6610933040 (134-174 MHz) / K6610934640 (403-470 MHz) / K6610934740 (450-512 MHz)

VX-4500/4600 Series

Mobiles

UHF/VHF Models, 12.5 kHz / 20 kHz / 25 kHz Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Speaker Microphone Choices:

QA02627AA	ADD: MH-67A8J Speaker Microphone	\$ 0.00
QA02626AA	ADD: MH-75A8J DTMF Speaker Microphone	\$ 15.00

LTR Option:

QA03067AA	ADD: LTR TRUNKING	\$ 50.00
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General Options:

Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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EVX-5300/5400 Series Mobiles

UHF/VHF Models, 12.5 kHz/ 20 kHz / 25 kHz Digital/Analog

EVX-5300/5400 mobile models include:

- MH-67A8J Standard Microphone
- Standard 3 Year Warranty



EVX-5300

EVX-5400

eVerge™

Radio Features:

- 8 Channels/1 Group
- 6 Programmable Keys
- Voice Compander
- Programmable Tri-Color LED
- Minimum Volume Control
- Public Address/Horn Alert
- D-Sub 15-pin accessory connector
- Radio to radio cloning

Digital & Analog Features:

- Mixed Mode Scan
- Emergency Alert
- Lone Worker
- Priority Scan
- Follow Me Scan/Dual Watch
- Remote stun/kill/revive
- Channel Announcement

Digital Only Features:

- All call, Group Call, Individual Call
- Escalart
- Remote Monitor
- PTT ID Encode
- Remote Monitor

Analog Only Features:

- CTCSS/DCS Encode/Decode
- MDC-1200 Encode/Decode
- 2-Tone Encode/Decode
- 5-Tone Encode/Decode
- DTMF Speed Dial
- DTMF Paging

Recommended Accessories:

Microphone:

- MH-67A8J: Standard microphone
- MH-75A8J: Keypad microphone (16 keys)
- MD-12A8J: Desktop microphone

External Speaker:

- MLS-100: External speaker, square, 12W

PRODUCT DETAILS					NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL			
VX-5300 25W Radio Models							
136-174 MHz	VHF	25W	8	AC114N002-VX	EVX-5300-D0-25 VHF 136-174 MHz		\$555.00
403-470 MHz	UHF	25W	8	AC114U004-VX	EVX-5300-G6-25 UHF 403-470 MHz		\$555.00
450-512 MHz	UHF	25W	8	AC114U003-VX	EVX-5300-G7-25 UHF 450-512 MHz		\$555.00
VX-5300 45/50W Radio Models							
136-174 MHz	VHF	50W	8	AC114N001-VX	EVX-5300-D0-50 VHF 136-174 MHz		\$585.00
403-470 MHz	UHF	45W	8	AC114U002-VX	EVX-5300-G6-45 UHF 403-470 MHz		\$585.00
450-512 MHz	UHF	45W	8	AC114U001-VX	EVX-5300-G7-45 UHF 450-512 MHz		\$585.00
VX-5400 25W Radio Models							
136-174 MHz	VHF	25W	512	AC114N004-VX	EVX-5400-D0-25 VHF 136-174 MHz		\$605.00
403-470 MHz	UHF	25W	512	AC114U008-VX	EVX-5400-G6-25 UHF 403-470 MHz		\$605.00
450-512 MHz	UHF	25W	512	AC114U007-VX	EVX-5400-G7-25 UHF 450-512 MHz		\$605.00
VX-5400 45/50W Radio Models							
136-174 MHz	VHF	50W	512	AC114N003-VX	EVX-5400-D0-50 VHF 136-174 MHz		\$635.00
403-470 MHz	UHF	45W	512	AC114U006-VX	EVX-5400-G6-45 UHF 403-470 MHz		\$635.00
450-512 MHz	UHF	45W	512	AC114U005-VX	EVX-5400-G7-45 UHF 450-512 MHz		\$635.00

FCC INFORMATION: AXI11143040 (134-174 MHz) / AXI11144640 (403-470 MHz) / AXI11144740 (450-512 MHz)

IC INFORMATION: 10239A-11143040 (134-174 MHz) / 10239A-11144640 (403-470 MHz) / 10239A-11144740 (450-512 MHz)

EVX-5300/5400 Series

Mobiles

UHF/VHF Models, 12.5 kHz / 20 kHz / 25 kHz Digital/Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Speaker Microphone Choices:

QA02627AA	ADD: MH-67A8J Speaker Microphone	\$ 0.00
QA02626AA	ADD: MH-75A8J DTMF Speaker Microphone	\$ 15.00

General Options:

Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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VX-5500 Series

Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-5500 mobile models include:
MH-53C7A Heavy Duty Microphone
Standard 3 Year Warranty



VX-5500

Radio Features:

- 250 Channels
- Large 8-Digit Alphanumeric Display
- 7 Programmable Backlit Keys
- Dual Band Capability
- One RF Deck to Multi Head Capable
- User Selectable Tones/Codes
- CTCSS/DCS Encode and Decode
- DTMF Signaling & Dialing Features
- Status quick check
- Emergency Functions
- Audio Compaander
- Dual Watch Scan
- Group Scan & Priority Scan
- Optional Rolling Code Encryption (w/FVP-25)
- BCLO, BTLO and TOT Functions
- Radio to Radio Cloning
- D-sub 25 pin accessory connector
- MIL-STD 810 C/D/E

Recommended Accessories:

Microphone

- MH-53A7A Noise Canceling Microphone
- MH-53B7A Noise Canceling Microphone with DTMF Keypad
- MH-53A8A Heavy Duty Weatherproof Noise Canceling DTMF Mic
- MH-53C7A Heavy Duty Microphone
- MD-12A7A Desktop Microphone
- MD-12A8J Desktop Microphone with multi pin plug

External Speaker

- MLS-100 12W External Speaker
- MLS-200 Waterproof External Speaker (12 Watt Peak)

Control Heads

- CNT-5000 Compact Motorcycle Control Head
- CNT-6000 Multi Control Head Configurations (req. T9206958A)

Power Supply

- SEC-1223 Desktop Switching Power Supply

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-5500 Dash Mount Models						
29.7-37 MHz	Low Band	70W	250	AC034L007-VX	VX-5500LA	\$ 922.50
37-50 MHz	Low Band	70W	250	AC034L005-VX	VX-5500LB	\$ 922.50
148-174 MHz	VHF	50W	250	AC034N005-VX	VX-5500VC	\$ 922.50
450-490 MHz	UHF	50W	250	AC034U005-VX	VX-5500UD	\$ 945.00
VX-5500 Dual Band Model						
148-174/450-490 MHz	VHF/UHF	50W	250	AC034N005-VXDB	VX-5500 Dual Band	\$ 2,152.31
VX-5500 Remote Mount Models						
29.7-37 MHz	Low Band	70W	250	AC034L007-VXRM	VX-5500LA Remote Mount	\$ 1,336.95
37-50 MHz	Low Band	70W	250	AC034L005-VXRM	VX-5500LB Remote Mount	\$ 1,336.95
148-174 MHz	VHF	50W	250	AC034N005-VXRM	VX-5500VC Remote Mount	\$ 1,336.95
450-490 MHz	UHF	50W	250	AC034U005-VXRM	VX-5500UD Remote Mount	\$ 1,359.45

FCC INFORMATION: K66VX-5500L (29.7-50 MHz) / K66VX-5500V (148-174 MHz) / K66VX-5500U (450-490 MHz)

VX-5500 Series

Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER Model

Speaker Microphone Choices:

QA02625AA	ADD: MH-53C7A Speaker Microphone	\$ 0.00
QA02649AA	ADD: MH-53B7A DTMF Speaker Microphone	\$ 58.00
QA02648AA	ADD: MH-53A7A Noise Cancelling Speaker Microphone	\$ 44.00

Remote Mount Choices (For Remote Mount Models)

QA02666AA	ADD: Single Deck / Single Head (includes: (1) MH-53C7A microphone, (1) 6M remote mount cable, (1) RMK-4000H remote mount control head cover, (1) RMK-4000B RF deck cover)	\$ 0.00
QA02665AA	ADD: Single Deck / Dual Heads (includes: (2) MH-53C7A microphones, (2) RMK-4000H remote mount control head covers, (1) RMK-4000B RF deck cover, (2) 6M remote mount cables, (1) CNT-6000 control head, (2) interconnection cables)	\$ 456.55

Remote Head Choices (for Dual Band Model)

QA02662AA	ADD: Dual Decks / Single Head (includes: (1) MH-53C7A microphone, (1) RMK-4000H remote mount control head cover, (2) RMK-4000B RF deck covers, (1) 6M remote mount cable, (1) 0.6M remote mount cable, (1) RF Deck)	\$ 0.00
QA02663AA	ADD: Dual Decks / Dual Heads (includes: (2) MH-53C7A microphones, (2) RMK-4000H remote mount control head covers, (2) RMK-4000B RF deck covers, (2) 6M remote mount cables, (1) 0.6M remote mount cable, VHF/UHF heads)	\$ 473.00

General Options:

Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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VX-6000 Series

Mobiles

High Power LB / UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-6000 mobile models include:
MH-53C7A Heavy Duty Microphone
Standard 3 Year Warranty



VX-6000

Radio Features:

- 250 Channels
- Power Output: 120W Low Band
- 110W VHF, 100W UHF
- Large 8-Digit Alphanumeric Display
- 7 Programmable Backlit Keys
- Dual Band Capability
- One RF Deck to Multi-Head Capable
- Status quick check
- Emergency Functions
- Priority and Group Scan
- Dual Watch Scan
- Audio Compander
- CTCSS/DCS Encode and Decode
- DTMF Signaling and Dialing Features
- Radio to Radio Cloning
- D-sub 25 pin accessory connector
- Optional Rolling Code Encryption (w/FVP-25)
- BCLO, BTLO and TOT Functions
- Loud 5W/10W Audio Output
- MIL-STD 810 C/D/E

Recommended Accessories:

Microphone

- MH-53A7A Noise Canceling Microphone
- MH-53B7A Noise Canceling Microphone with DTMF Keypad
- MH-53A8A Heavy Duty Weatherproof Noise Canceling DTMF Mic
- MH-53C7A Heavy Duty Microphone
- MD-12A7A Desktop Microphone
- MD-12A8J Desktop Microphone with multi pin plug

External Speaker

- MLS-100 12W External Speaker
- MLS-200 Waterproof External Speaker (12 Watt Peak)

Control Heads

- CNT-6000 Multi Control Head Configurations (req. T9206958A)

Power Supply

- FP-1030A External Power Supply

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-6000 Dash Mount Models						
37-50 MHz	Low Band	120W	250	AC024L005-VX	VX-6000LB	\$ 1,380.00
148-174 MHz	VHF	110W	250	AC024N005-VX	VX-6000VC	\$ 1,523.75
450-490 MHz	UHF	100W	250	AC024U005-VX	VX-6000UD	\$ 1,581.25
VX-6000 Dual Band Model						
148-174/450-490 MHz	VHf/UHF	110W	250	AC024N005-VXDB	VX-6000 Dual Band	\$ 3,347.65
VX-6000 Remote Control Head Models						
37-50 MHz	Low Band	120W	250	AC024L005-VXRM	VX-6000LB Remote Mount	\$ 1,628.40
148-174 MHz	VHF	110W	250	AC024N005-VXRM	VX-6000VC Remote Mount	\$ 1,876.80
450-490 MHz	UHF	100W	250	AC024U005-VXRM	VX-6000UD Remote Mount	\$ 1,934.30

VX-6000 Series

Mobiles

High Power LB / UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Speaker Microphone Choices (For Dash Mount Models)

QA02625AA	ADD: MH-53C7A Speaker Microphone	\$ 0.00
QA02649AA	ADD: MH-53B7A DTMF Speaker Microphone	\$ 58.00
QA02648AA	ADD: MH-53A7A Noise Cancelling Speaker Microphone	\$ 44.00

Remote Mount Choices (For Remote Mount Models)

QA02661AA	ADD: Single Deck / Single Head (includes: (1) MH-53C7A microphone, (1) 6M remote mount cable, (1) RMK-4000H remote mount control head cover, (1) RMK-4000B RF deck cover)	\$ 0.00
QA02664AA	ADD: Single Deck / Dual Heads (includes: (2) MH-53C7A microphones, (2) RMK-4000H remote mount control head covers, (1) RMK-4000B RF deck cover, (2) 6M remote mount cables, (1) CNT-6000 control head, (2) interconnection cables)	\$ 476.55

Remote Head Choices (for Dual Band Model)

QA02667AA	ADD: Dual Decks / Single Head (includes: (1) MH-53C7A microphone, (1) RMK-4000H remote mount control head cover, (2) RMK-4000B RF deck covers, (1) 6M remote mount cable, (1) 0.6M remote mount cable, (1) RF Deck)	\$ 0.00
QA02668AA	ADD: Dual Decks / Dual Heads (includes: (2) MH-53C7A microphones, (2) RMK-4000H remote mount control head covers, (2) RMK-4000B RF deck covers, (2) 6M remote mount cables, (1) 0.6M remote mount cable, VHF/UHF heads)	\$ 473.00

General Options:

Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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VXD-7200 Series Mobiles

UHF / VHF Models, 12.5 kHz / 6.25 kHz^e, Analog/Digital

VXD-7200 mobile models include:

- MH-67A8J Standard Microphone
- MMB-93 Low Profile Mounting Kit
- E-DC-27
- Standard 3 Year Warranty



VXD-7200

Radio Features:

- 512 Channels
- 4 Programmable Front Panel Keys
- 40 Character Scrolling Alphanumeric Display
- Multi-Color LED Custom Call Alert
- 26 Pin Accessory Connector
- Basic Privacy (Digital Mode)
- Digital Encode/Decode: Call Alert, Private Call, Emergency
- Selective Radio Inhibit, radio check and remote monitor
- MDC-1200[®] analog encode/decode: call alert, emergency and PTT ID
- 2-Tone Analog paging, call alert, call alert w/voice, Select Call
- High Power and Low Power Versions Available

VXD-7200 Series Radio Cancellation
 Effective December 31, 2014 or upon depletion of inventory, VXD-7200 Series radios will no longer be available for purchase. For additional details, refer to [VSOL > Resource Center > Product Information > Cancellations](#)

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		MSRP
VXD-7200 Series Radio Models						
136-174	VHF	25W	512	AC101N001-VX	VXD-7200-D0-25 136-174 25W	\$ 720.00
403-470	UHF	25W	512	AC101U001-VX	VXD-7200-G6-25 403-470 25W	\$ 720.00
450-512	UHF	40W	512	AC101U004-VX	VXD-7200-G7-40 450-512 40W	\$ 750.00

FCC INFORMATION: K6611013030 (134-174 MHz- 25W) / K6611013040 (134-174 MHz - 45W) / K6611014630 (403-470 MHz 25W) / K6611014640 (403-470 MHz 40W) / K6611014740 (450-512 MHz 45W)

VXD-7200 Series Mobiles

UHF / VHF Models, 12.5 kHz / 6.25 kHz^e, Analog/Digital

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Speaker Microphone Choices:

QA02737AA	ADD: MH-67A8J STD. MIC	\$ 0.00
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Mounting Bracket Choices:

QA02739AA	ADD: MMB-93 Low Profile Trunion Kit	\$ 0.00
QA02740AA	ADD:MMB-94 High Profile Trunion Kit	\$ 5.83
QA02741AA	ADD: MMB-95 Key Lock Trunion Kit	\$ 122.50
QA02820AA	ADD: MMB-96 In Dash Mounting Kit	\$ 15.83

Power Cable Choices:

QA02822AA	ADD: E-DC-27 10 ft, 15 amp Cable	\$ 0.00
QA02824AA	ADD: E-DC-28 20 ft, 20 amp Cable	\$ 21.67

General Options:

Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Vertex Standard Mobile Accessories

Date 6/26/15

MSRP

VX-2100	VX-2200	VX-4500/4600	VX-5500	VX-6000	EVX-5300/5400	VXD-7200	Model Number	Description	MSRP
Alignment / Service Related									
			X	X			AAC54X001	CT-88 The CT-88 cable is used in conjunction with the FIF-8 box to make adjustments to the alignment. This is for the VX-4000/VX-5500/VX-6000 mobiles. The CT-88 connects from the DB25 accessory port of the mobile, to the FIF-8 box interfaced to your PC.	\$ 55.00
Control Heads									
			X				AAD37X001	CNT-5000 Compact motorcycle control head for VX-4000 & VX-5500s. Includes CNT-5000 control head, mounting bracket (RA0555300), screw kit (U9900163 qty 2), holder (RA0555400 qty 2) & connection cable (T9207073). External microphone (MH-53A8A) & external speaker (MLS-100 or MLS-200) sold separately	\$ 499.00
			X	X			AAC98X001	CNT-6000 Control Head for multi-head configurations. Requires T9206958A for dual head remotes.	\$ 175.00
Cover Plates									
			X	X			AAB27X012	Cover plate for the RF Deck in Remote Applications (RMK-4000B)	\$ 65.00
			X	X			AAB27X011	Cover plate for the Control Head (Includes mounting bracket and hardware) (RMK-4000H)	\$ 105.00
			X	X			AAD58X001	Dedicated Motorcycle Control Head. Built for ease of use and all weather operation (RMK-5000B)	\$ 179.00
DC Cables									
			X	X			XUVTN0001	CT-96PS Ignition Sense Cable for the VX-4000, VX-5500 & VX-6000 mobiles	\$ 18.33
			X				AAE06X001	E-DC-22 30 ft DC cable for VX-4000/-5500 mobiles	\$ 80.00
				X			AAE07X001	E-DC-23 30 ft DC cable for VX-6000 mobiles	\$ 160.00
DC Noise Filter									
X	X		X				A09120001	LF-1 Plug-In Line Filter	\$ 35.00
			X		X		AAH67X001	LF-6 DC Line Filter	\$ 35.00
Microphones									
X	X	X			X	X	AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
			X	X			AAF13X003	MD-12A7A Desktop Microphone	\$ 102.00
			X	X			AAB02X004	MH-53A7A Noise-Canceling Microphone	\$ 103.00
			X	X			AAB02X007	MH-53A8A Heavy Duty Weatherproof Noise Canceling DTMF Microphone (for use with CNT-5000)	\$ 149.00
			X	X			AAB02X005	MH-53B7A Noise-Canceling Microphone with DTMF keypad	\$ 163.00
			X	X			AAB02X006	MH-53C7A Heavy Duty Microphone	\$ 105.00
X	X	X			X	X	AAE60X102	MH-67A8J Standard Microphone	\$ 40.00
X	X	X			X		AAG22X101	MH-75A8J DTMF Microphone, 16 Key, Black	\$ 55.00
Misc.									
			X				AAH63X001	DVS-8 Digital Voice Storage Unit	\$ 50.00
Mounting Brackets									
			X				AAB26X001	MMB-75 Mobile Mounting Bracket (Supplied w/radio)	\$ 25.00
			X				AAB72X001	MMB-76 Locking Mobile Mounting Bracket	\$ 75.00
			X				AAB98X001	MMB-77 Locking Mobile Mounting Bracket for the VX-6000	\$ 95.00
			X				AAC97X001	MMB-79 Mobile Mounting Bracket (Supplied w/radio VX-6000)	\$ 30.00
			X	X			AAD62X001	MMB-88 This is a mounting bracket, which is a base plate for the CNT-5000 and MLS-200. The MMB-88 mounts to a motorcycle. The CNT-5000 and MLS-200 then mount to the MMB-88, side by side.	\$ 79.00

Vertex Standard Mobile Accessories

Date 6/26/15

MSRP

VX-2100	VX-2200	VX-4500/4600	VX-5500	VX-6000	EVX-5300/5400	VXD-7200	Model Number	Description	MSRP
Power Supplies									
X	X	X	X		X		XUSLX0001A	SEC-1223 Desktop Switching Power Supply 120 VAC	\$ 216.88
				X			A12510002	FP-1030A External Power Supply	\$ 345.22
Programming and Installation									
X	X	X			X		AAD66X002	CT-104A Interface Cable for FIF-12A	\$ 40.00
			X	X			AAD67X001	CT-105 FIF-12 interface cable to connect: VX-530/600/800/900 Portables also VX-5500/VX-6000 Mobiles.	\$ 60.00
X	X	X			X		T9101411	CT-4 Programming Cable - Radio to Radio Cloning	\$ 27.61
			X	X			AAA26X001	CT-72 Cloning Cable (Set-to-Set Clone)	\$ 68.00
X	X	X	X	X	X		AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for	\$ 150.00
X	X	X	X	X			A06420002	VX VPL-1 Programming cable from PC. Check specific models for additional	\$ 87.00
			X	X			T9101628	SVC-49 Alignment Cable for FIF-12	\$ 30.81
			X	X			L9190148	Ferrite Snap-on Bead for control cable	\$ 5.31
			X	X			L9190128	Ferrite Snap-on Bead for microphone cable	\$ 2.84
X	X	X					AAJ06X001	FRB-6 Tuning Interface (Requires Connection Cable)	\$ 340.00
X	X	X					AAJ07X001	CT-159 Connection Cable (Requires FRB-6)	\$ 58.34
			X	X			AAC49X002	FIF-7A Interface Board (for VX-4000 / 5500 / 6000 with FVP-25, FVP-35,	\$ 37.00
Remote Cables									
		X					AAJ01X001	CT-156 Remote Mount Cable (3M)	\$ 80.00
		X					AAJ02X001	CT-157 Remote Mount Cable (5M)	\$ 85.00
		X					AAJ03X001	CT-158 Remote Mount Cable (7M)	\$ 95.00
			X	X			AAC04X001	CT-81 Remote Cable for RMK-4000 series (20 ft) (RF Deck to Control	\$ 90.00
			X	X			AAC05X001	CT-82 Remote Cable for RMK-4000 series (8 ft) (RF Deck to Control Head)	\$ 80.00
			X	X			AAC06X001	CT-83 Remote Cable for RMK-4000 series (2 ft) (RF Deck to RF Deck)	\$ 70.00
			X	X			AAD07X001	CT-93 Remote Cable for RMK-4000 series (30 ft) (RF Deck to Control	\$ 96.34
		X					AAH66X101	RMK-4600 Remote mount kit	\$ 65.00
Speaker									
X	X	X	X	X	X		A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X	X	X	X	X			AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00
Signaling									
X	X		X	X			A12760001	FVP-25 Encryption Unit (Band Inversion Type) and DTMF Paging. (requires	\$ 60.00
X	X		X	X			AAF39X001	FVP-35 Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the	\$ 346.00
		X					XUCMR0005	FVP-44 Rolling Code Encryption Unit	\$ 346.00
X	X		X	X			XUCMR0003	VME-100 Board for MDC1200 Digital ANI (FIF-7 also required when being installed in VX-5500/6000)	\$ 69.31
		X	X	X			A12760003	FVP-36 INVERSION SCRAMBLING UNIT	\$ 40.00

VX-2200 Trunking Series

Trunking Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-2200 trunking mobile models include:

MH-67A8J - Standard Microphone

Standard 3 Year Warranty



VX-2200 LTR/Passport

Radio Features:

- LTR Operation 32 Zone / 250 Group
- PassPort Operation 32 Zone / 250 Group
- 6 Programmable/Replaceable Buttons
- Loud Front Speaker Audio
- CTCSS/DCS Encode and Decode
- DTMF ANI/ (Optional Paging)
- RSSI Indicator
- Emergency Feature
- ARTSTM (Auto-Range Transpond System)
- Built-In Inversion Encryption
- Rolling Code Encryption (OPTION)
- MDC-1200®/GE-STAR® ANI Encode (OPTION)
- MIL-STD 810 C/D/E/F
- D-SUB 15 pin Accessory Connector
- Multi-Mode Scanning (Incl. Dual Watch, Priority, Follow-Me)

Recommended Accessories:

Microphone

- MH-75A8J: Keypad microphone (16 keys)
- MD-12A8J Desktop Microphone

External Speaker

- MLS-100 12W External Speaker
- MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-2200 Trunking Radio Models						
134-174 MHz	VHF	50W	250	AC084N102-VX	VX-2200-AD0H	\$ 400.00
450-512 MHz	UHF	50W	250	AC084U102-VX	VX-2200-AG7H	\$ 425.00

FCC INFORMATION: K66110613040 (134-174 MHz) / K6610614740 (450-512 MHz 45W)

VX-2200 Trunking Series

Trunking Mobiles

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Speaker Microphone Choices:

QA02627AA	ADD: MH-67A8J Speaker Microphone	\$ 0.00
QA02626AA	ADD: MH-75A8J DTMF Speaker Microphone	\$ 15.00

General Options:

Programming Selection Option:

QA02503AA	ADD: Passport Trunking (UHF Model Only)	\$ 0.00
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Programming Option:

QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00
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Vertex Standard Trunking Mobiles Accessories

Date 6/26/15

MSRP

VX-2200A	Model Number	Description	MSRP
Alignment / Service Related			
X	AAC92X001	CT-92 FIF-8 cable to the Mobiles VX-3200/VX-4200/VX-4200/VX-2500. Used for updating firmware using the FIF-8 firmware writer.	\$ 23.00
DC Noise Filter			
X	A09120001	LF-1 Plug-In Line Filter	\$ 35.00
Microphones			
X	AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
X	AAE60X102	MH-67A8J Standard Microphone	\$ 40.00
X	AAG22X101	MH-75A8J DTMF Microphone, 16 Key, Black	\$ 55.00
Power Supply			
X	XUSLX0001A	SEC-1223 Desktop Switching Power Supply 120 VAC	\$ 216.88
Programming and Installation			
X	AAD66X002	CT-104A Interface Cable for FIF-12A	\$ 40.00
X	T9101411	CT-4 Programming Cable - Radio to Radio Cloning	\$ 27.61
X	AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional cable pigtailed. Pigtailed not included.	\$ 150.00
X	A06420002	VX VPL-1 Programming cable from PC. Check specific models for additional cable pigtailed.	\$ 87.00
Signaling			
X	AAF39X001	FVP-35 Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the VX-4000 / VX-5500 / VX-6000. Requires VX MPI for programming	\$ 346.00
X	XUCMR0003	VME-100 Board for MDC1200 Digital ANI (FIF-7 also required when being installed in VX-5500/6000)	\$ 69.31
Speaker			
X	A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X	AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00

VX-P820 Series

P25 Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-P820 Series portable models packages can include:

FNB-V128LI-UNI 2300 mAh Li-Ion Battery

VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)

Antenna Option

Standard 3 Year Warranty

Radio Features:

- 512 Channels/32 Groups (W/LCD) 16 Channels (w/o LCD)
- 12 Character Alpha Numeric Display/Full Keypad
- RSSI & Battery Life Indicator* (Excludes VX-P821)
- Loud 700 mW Audio Output
- 3 Programmable Keys (P821) , 7 Keys (P824), 9 Keys (P829)
- IP57 Submersibility Rating
- MIL-STD C/D/E/F

Analog Only Features:

- CTCSS/DCS Encode and Decode
- DTMF ANI
- Optional DTMF Paging
- Built In 5-Tone Signaling
- Audio Compander
- 2-Tone Encode & Multi 2-Tone Decode
- Lone Worker
- ARTS™ (Auto-Range Transpond System)
- BCLO, BTLO and TOT Functions
- TX/RX Battery Save
- User Selectable Tone* (Not available on P821)
- MDC-1200 Encode (PTT ID, Emergency ID)

Analog Mode and P25 Digital Conventional Mode:

- Emergency Feature
- Versatile Scanning (Priority Scan, Dual Watch, Follow-Me Scan, Follow Me-DW and TA Scan) AF Minimum Volume
- Direct Channel Recall *(Excludes VX-P821)
- User Set Mode* (Excludes VX-P821)

P25 Digital Conventional Mode Only:

- AMBE+2™ Vocoder
- NAC (Network Access Code)
- Talk Group ID
- Individual ID Lists *(Excludes VX-P821)
- Caller ID Display *(Excludes VX-P821)
- RSSI Audible Alert
- Mixed Mode
- BCLO and TOT
- Optional AES/DES Encryption



VX-P821 VX-P824 VX-P829

Recommended Accessories:

Speaker Microphones

- MH-50D7A Noise Canceling Speaker Microphone
- MH-66A IP57 Submersible Speaker Microphone
- MH66-B7A IP57 Submersible with PF Key and Toggle

Headsets and Surveillance

- VH-111 Heavy Duty Over the Head Headset
- VH-121 3-Wire Earpiece, Mic w/Palm PTT-Switch
- VH-131 2-Wire Earpiece, Palm Mic/PTT Combo

Multi-Unit Chargers

- VAC-6920B 120/240V 6 Unit Rapid Charger (Use with FNB-V86LIA, FNB-V87LIA, and FNB-V92LI/LIIS only)
- VAC-6058 120/240V 6 Unit Rapid Charger (Use with FNB-V127LI, FNB-V128LI, and FNB-V129LI-UNI only)

Carry Cases

- LCC-820S Leather Case w/Swivel and Belt Loop
- LCC-820S/TT Leather Case w/Swivel & Keypad Opening

PRODUCT DETAILS					NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL			
VX-P821 Radio Models							
134-174 MHz	VHF	1-5W	16	AC058N211-VX	VX-P821-D0-5		\$ 1,758.00
380-450 MHz	UHF	1-5W	16	AC058U234-VX	VX-P821-G8-5		\$ 1,858.00
450-512 MHz	UHF	1-5W	16	AC058U219-VX	VX-P821-G7-5		\$ 1,858.00

FCC INFORMATION: K6610583021 (134-174 MHz) / K6610584621 (403-512 MHz)

VX-P820 Series

P25 Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

PRODUCT DETAILS		NEW MODEL	PREVIOUS MODEL	MSRP		
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-P824 Radio Models						
134-174 MHz	VHF	1-5W	512	AC058N212-VX	VX-P824-D0-5	\$ 1,878.00
380-450 MHz	UHF	1-5W	512	AC058U235-VX	VX-P824-G8-5	\$ 1,978.00
450-512 MHz	UHF	1-5W	512	AC058U220-VX	VX-P824-G7-5	\$ 1,978.00
VX-P829 Radio Models						
134-174 MHz	VHF	1-5W	512	AC058N213-VX	VX-P829-D0-5	\$ 2,058.00
380-450 MHz	UHF	1-5W	512	AC058U236-VX	VX-P829-G8-5	\$ 2,158.00
450-512 MHz	UHF	1-5W	512	AC058U221-VX	VX-P829-G7-5	\$ 2,158.00

OPTION SELECTION	DESCRIPTION	MSRP
Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP		

Battery Choices:

STDBAT0868AC	ADD: STD BATTERY FNB-V128LI-UNI 2300 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 0.00
QA03902AA	ADD: FNB-V127LI-UNI 1380 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ (16.00)
QA04398AA	ADD: FNB-V129LI-UNI 3000 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 60.00
QA04972AA	ADD: FNB-V129LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-UNI Charger)	\$ 118.34
QA02488AA	ADD: FNB-V87LIA 2300 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 8.33
QA02659AA	ADD: FNB-V86LIA 1380 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ (7.67)
QA02660AA	ADD: FNB-V92LI 3000 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 68.33
QA02487AA	ADD: FNB-V92LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-921 Charger)	\$ 118.34

QA02487AA Cancellation

Effective upon depletion of inventory, QA02487AA will no longer be available. Please visit the VSOL > Resource Center for more information

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V Standard Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA02742AA	ADD: VAC-921B 120V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02743AA	ADD: VAC-921C 240V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02481AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna (For G6 Models)	\$ 0.00
QA02617AA	ADD: ATU-6A 400-430 MHz Antenna (For G8 Models)	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

General Options:

Programming Option: **Encryption options are factory installed**

QA02502AA	ADD: AES/DES Encryption Programming	\$ 550.00
QA02724AA	ADD: Customer Codeplug Factory Programming	\$ 50.00

Shipping Option:

STDBOX0868AA	Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

VX-P920 Series

P25 Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-P920 Series portable models packages can include:

- FNB-V128LI-UNI 2300 mAh Li-Ion Battery
- VAC-UNI Universal Rapid Charger (Components: CD-58 & PA-55)
- Antenna Option
- Standard 3 Year Warranty

Radio Features:

- 512 Channels/32 Groups (W/LCD) 48 Channels (w/o LCD)
- 12 Character Alpha Numeric Display/Full Keypad
- RSSI & Battery Life Indicator* (Excludes VX-P921)
- Loud 700 mW Audio Output
- 8 Programmable Keys (P924), 10 Programmable Keys (P929)
- IP57 Submersibility Rating
- MIL-STD C/D/E/F

Analog Only Features:

- CTCSS/DCS Encode and Decode
- DTMF ANI / Optional DTMF Paging
- Built In 5-Tone Signaling
- Audio Compander
- 2-Tone Encode & Multi 2-Tone Decode

Lone Worker

- ARTS™ (Auto-Range Transpond System)
- Clear Voice
- BCLO, BTLO and TOT Functions

TX/RX Battery Save

- User Selectable Tone* (Not available on P921)
- MDC-1200 Encode (PTT ID, Emergency ID)

Analog Mode and P25 Digital Conventional Mode:

- Emergency Feature
- Versatile Scanning (Priority Scan, Dual Watch, Follow-Me Scan, Follow Me-DW and TA Scan)
- AF Minimum Volume
- Direct Channel Recall *(Excludes VX-P921)
- User Set Mode* (Excludes VX-P921)

P25 Digital Conventional Mode Only:

- AMBE+2™ Vocoder
- NAC (Network Access Code)
- Talk Group ID
- Individual ID Lists *(Excludes VX-P921)
- Caller ID Display *(Excludes VX-P921)
- RSSI Audible Alert
- Mixed Mode
- BCLO and TOT
- Optional AES/DES Encryption



VX-P924

VX-P929

Recommended Accessories:

Speaker Microphones

- MH-50D7A Noise Canceling Speaker Microphone
- MH-66A IP57 Submersible Speaker Microphone
- MH66-B7A IP57 Submersible with PF Key and Toggle

Headsets and Surveillance

- VH-111 Heavy Duty Over the Head Headset
- VH-121 3-Wire Earpiece, Mic w/Palm PTT-Switch
- VH-131 2-Wire Earpiece, Palm Mic/PTT Combo

Multi-Unit Chargers

- VAC-6920B 120/240V 6 Unit Rapid Charger (Use with FNB-V86LIA, FNB-V87LIA, and FNB-V92LI/LIIS only)
- VAC-6058 120/240V 6 Unit Rapid Charger (Use with FNB-V127LI, FNB-V128LI, and FNB-V129LI-UNI only)

Carry Cases

- LCC-920S Leather Case w/Swivel and Belt Loop
- LCC-920S/TT Leather Case w/Swivel and Keypad Opening

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-P924 Radio Models						
134-174 MHz	VHF	1-5W	512	AC033N219-VX	VX-P924-D0-5	\$ 1,678.00
380-450 MHz	UHF	1-5W	512	AC033U242-VX	VX-P924-G8-5	\$ 1,778.00
450-512 MHz	UHF	1-5W	512	AC033U227-VX	VX-P924-G7-5	\$ 1,778.00
VX-P929 Radio Models						
	VHF	1-5W	512	AC033N220-VX	VX-P929-D0-5	\$ 1,858.00
380-450 MHz	UHF	1-5W	512	AC033U243-VX	VX-P929-G8-5	\$ 1,958.00
450-512 MHz	UHF	1-5W	512	AC033U228-VX	VX-P929-G7-5	\$ 1,958.00

FCC INFORMATION: K6610333020 (134-174 MHz) / K6610334620 (403-470 MHz) / K6610334720 (450-512 MHz)

VX-P920 Series

P25 Portables

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Battery Choices:

STDBAT0868AC	ADD: STD BATTERY FNB-V128LI-UNI 2300 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 0.00
QA03902AA	ADD: FNB-V127LI-UNI 1380 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ (16.00)
QA04398AA	ADD: FNB-V129LI-UNI 3000 mAh Li-Ion Battery (Uses VAC-UNI Charger)	\$ 60.00
QA04972AA	ADD: FNB-V129LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-UNI Charger)	\$ 118.34
QA02488AA	ADD: FNB-V87LIA 2300 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 8.33
QA02659AA	ADD: FNB-V86LIA 1380 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ (7.67)
QA02660AA	ADD: FNB-V92LI 3000 mAh Li-Ion Battery (Uses VAC-921 Charger)	\$ 68.33
QA02487AA	ADD: FNB-V92LIIS 3000 mAh Intrinsically Safe Li-Ion Battery (Uses VAC-921 Charger)	\$ 118.34

QA02487AA Cancellation

Effective upon depletion of inventory, QA02487AA will no longer be available. Please visit the VSOL > Resource Center for more information

Charger Choices:

STDCHG0868AA	ADD: VAC-UNI 120V Standard Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA03678AA	ADD: VAC-UNI 240V EU Charger (Use with FNB-V127LI, FNB-V128LI, FNB-V129LI-UNI)	\$ 0.00
QA02742AA	ADD: VAC-921B 120V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02743AA	ADD: VAC-921C 240V Rapid Rate Charger (Use with FNB-V86LIA, FNB-V87LIA, FNB-V92LI, FNB-V92LIIS)	\$ 8.33
QA02481AA	DELETE: Charger	\$ (36.00)

Antenna Choices:

QA02616AA	ADD: ATV-8A 134-150 MHz Antenna	\$ 0.00
QA02458AA	ADD: ATV-8B 150-162 MHz Antenna 6"	\$ 0.00
QA03017AA	ADD: ATV-6B 150-162 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02457AA	ADD: ATV-8C 162-174 MHz Antenna 6"	\$ 0.00
QA03016AA	ADD: ATV-6C 162-174 MHz Antenna 3.5" **Reduced Range Performance**	\$ 0.00
QA02684AA	ADD: ATV-6XL VHF Untuned Antenna	\$ 0.00
QA02621AA	ADD: ATU-6A 400-430 MHz Antenna (For G6 Models)	\$ 0.00
QA02617AA	ADD: ATU-6A 400-430 MHz Antenna (For G8 Models)	\$ 0.00
QA02624AA	ADD: ATU-6D 450-485 MHz Antenna 6"	\$ 0.00
QA02615AA	ADD: ATU-6DS 450-485 MHz Antenna 3.5"	\$ 0.00

General Options:

Programming Option: **Encryption options are factory installed**

QA02502AA	ADD: AES/DES Encryption Programming	\$ 550.00
QA02724AA	ADD: Customer Codeplug Factory Programming	\$ 50.00

Shipping Option:

STDBOX0868AA	Standard Packaging	\$ 0.00
QA03060AA	ADD: Bulk Packaging	\$ 0.00

Vertex Standard P25 Portable Accessories

Date 6/26/2015

MSRP

VX-P820 VX-P920	Model Number	Description	MSRP
Alignment / Service Related			
X	X	AAD94X001 CT-110 Firmware writing cable (For use with the FIF-8)	\$ 65.00
Alkaline Battery Cases			
X	X	AAE11X002 FBA-34 Alkaline Battery Case VX-820/920 series	\$ 45.00
Antennas			
X	X	XUCET0010 ATU-6A 400-430 MHZ / Brown / 6.5" / VX10UA/600/800/900	\$ 14.00
X	X	XUCET0011 ATU-6AS Antenna 410-430 MHZ / 3.5"	\$ 13.00
X	X	XUCET0012 ATU-6D 450-485 MHZ / Red / 6" / VX-10/160/180/210/400/600/800/900	\$ 14.00
X	X	XUCET0013 ATU-6DS Antenna 450-485 MHZ / 3.5"	\$ 14.00
X	X	XUCET0033 ATV-10A High Gain Antenna, 145-155MHz (Red) / 10.5"	\$ 16.00
X	X	XUCET0034 ATV-10B High Gain Antenna, 150-160MHz (Brn) / 10.5"	\$ 16.00
X	X	XUCET0035 ATV-10C High Gain Antenna, 155-165MHz (Blk) / 10.5"	\$ 16.00
X	X	XUCET0036 ATV-10E High Gain Antenna, 165-175MHz (Org) / 10.5"	\$ 16.00
X	X	XUCET0019 ATV-6A Antenna 134-151 MHz / 4"	\$ 13.00
X	X	XUCET0020 ATV-6B Antenna 150-163 MHz / 3.5"	\$ 15.00
X	X	XUCET0021 ATV-6C Antenna 161-174 MHz / 3.5"	\$ 13.00
X	X	XUCET0022 ATV-6XL Untuned VHF Antenna 7"	\$ 14.00
X	X	XUCET0023 ATV-8A Antenna 134-150 MHz / Sable / 6"	\$ 14.00
X	X	XUCET0024 ATV-8B Antenna 150-163 MHz / Sable / 6"	\$ 14.00
X	X	XUCET0025 ATV-8C Antenna 162-174 MHz / Sable / 6"	\$ 14.00
X	X	AAE64X001 ATW-1A Dual-band antenna for multi-band Rx: 134-151MHz / 450-520MHz	\$ 28.00
X	X	AAE64X002 ATW-1B Dual-band antenna for multi-band Rx: 150-163MHz / 450-520MHz	\$ 28.00
X	X	AAE64X003 ATW-1C Dual-band antenna for multi-band Rx: 161-174MHz / 450-520MHz	\$ 28.00
Batteries			
X	X	AAD83X021 FNB-V87LIA 7.4V 2300mAh Li-ion Battery	\$ 88.33
X	X	AAD82X021 FNB-V86LIA 7.4 V 1380mAh Li-ion Battery	\$ 72.33
X	X	AAJ62X001 FNB-V128LI-UNI 2300 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 80.00
X	X	AAJ61X001 FNB-V127LI-UNI 1380 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 64.00
X	X	AAJ63X001 FNB-V129LI-UNI 3000 mAh Li-Ion Battery (VAC-UNI Charger)	\$ 140.00
X	X	AAL73X001 FNB-V129LIIS 3000 mAh Li-Ion Battery, Intrinsically Safe (VAC-UNI Charger)	\$ 160.00
Belt Clips			
X	X	AAE85X001 CLIP17-A Swivel Belt Clip	\$ 16.00
X	X	AAE85X002 CLIP17-B Swivel Belt Clip	\$ 16.00
X	X	AAE52X001 CLIP-820 Belt Clip for the VX-820 Series (TM)	\$ 10.00
X	X	AAE51X001 CLIP-920 Belt Clip for the VX-920 Series (TM)	\$ 10.00
Cases			
X	X	XUBEE0048 LCC-820 Leather case with Belt Loop	\$ 32.00
X	X	XUBEE0069 LCC-820H Leather case with belt loop. For use with VX-821/P821 and FNB - V92LI (and IS) battery	\$ 32.00
X	X	XUBEE0073 LCC-820H/TT Leather case with belt loop. For use with VX-829/P829 and FNB-V92LI (and IS) battery	\$ 32.00
X	X	XUBEE0046 LCC-820S Leather Case with Swivel and Belt Loop	\$ 42.00
X	X	XUBEE0047 LCC-820S/TT Leather Case w/Swivel, Belt Loop and Keyboard Opening	\$ 42.00
X	X	XUBEE0068 LCC-820SH Leather case with D Swivel. For use with VX-821/P821 and FNB - V92LI (and IS) battery	\$ 42.00
X	X	XUBEE0072 LCC-820SH/TT Leather case with D swivel. For use with VX-829/P829 and FNB - V92LI (and IS) battery	\$ 42.00
X	X	XUBEE0075 LCC-920H Leather case with belt loop.For use with VX-921/P921 and FNB - V92LI (and IS) battery	\$ 32.00
X	X	XUBEE0079 LCC-920H/TT Leather case with belt loop. For use with VX-929/P929 and FNB - V92LI (and IS) battery	\$ 32.00

Vertex Standard P25 Portable Accessories

MSRP

VX-P820 VX-P920	Model Number	Description	MSRP
Cases (Continued)			
X	XUBEE0049	LCC-920S Leather Case with Swivel and Belt Loop	\$ 42.00
X	XUBEE0050	LCC-920S/TT Leather case w/ Swivel Clip and Keyboard Cut-Out	\$ 42.00
X	XUBEE0074	LCC-920SH Leather case with D Swivel. For use with VX-921/P921 and FNB - V92LI (and IS) battery	\$ 42.00
X	XUBEE0078	LCC-920SH/TT Leather case with D swivel. For use with VX-929/P929 and FNB - V92LI (and IS) battery	\$ 42.00
X	XUBEE0051	LCC-920TT Leather Case w/Belt Loop and Keypad Cut-out	\$ 32.00
Chargers			
X	XUAAE75X00101	VAC-6920B 120VAC 6 unit Multi-Rapid Charger w/ US power cable	\$ 575.00
X	XUAAE75X00102	VAC-6920C 240VAC 6 unit Multi-Rapid Charger w/ EU power cable	\$ 575.00
X	XUAAK44X001	VAC-6058 120V MUC FOR UNI LIION BATTERY	\$ 450.00
X	XUAAK44X002	VAC-6058 220V EU MUC FOR UNI LIION BATTERY	\$ 450.00
X	XUAAE45X00101	VAC-921B 120 VAC Desktop Rapid charger	\$ 72.33
X	XUAAE45X00102	VAC-921C 240 VAC Desk top rapid charger	\$ 72.33
X	XUAAJ72X001	VAC-UNI-B 120V US Universal Charger (For use with -UNI batteries)	\$ 36.00
X	XUAAJ72X002	VAC-UNI-C 220V EU Universal Charger (For use with -UNI batteries)	\$ 36.00
X	AAF15X001	VCM-2 Vehicular Charger Mounting Adapter Kit for VAC-920 & VAC-300	\$ 60.00
X	AAK45X001	VCM-5 Vehicle Charger Mounting Adapter – UNI Charger/Batteries Only	\$ 72.00
Headsets and Surveillance			
X	AAE72X001	VH-111 Heavy Duty, Dual Muff, Over the head style, with Boom Mic	\$ 400.00
X	AAG49X003	VH-215L Headset	\$ 115.70
Programming and Installation			
X	AAD92X001	CT-108 PC programming cable (for use with the FIF-12 or FIF-12A USB Interface)	\$ 65.00
X	AAE50X001	CT-116 Radio to Radio Programming Cable	\$ 65.00
X	AAF83X001	CT-127 Keyloader adapter cable for VX-P820/870 & VX-P920/970 series P25 radios with encryption option. Required CT-129 or Motorola TKN8531C.	\$ 50.00
X	XUMOT0001	CT-129 Keyloader interface cable for KVL-3000+. Use with either CT-127 (for portables) or CT-128 (for mobiles) for programming encryption keys into radio.	\$ 199.00
X	AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional cable pigtailed. Pigtailed not included.	\$ 150.00
Speaker Microphones			
X	AAA75X004	MH-50D7A Public Safety Speaker Microphone w/toggle, MIL-STD Rated	\$ 94.00
X	AAE46X001	MH-66A7A Submersible Noise Canceling Speaker Microphone	\$ 92.00
X	AAE46X002	MH-66B7A Submersible Speaker Microphone with 2 Programmable Function keys and Audio Attenuator Switch.	\$ 180.00

VX-7200 Series

P25 Mobiles

P25 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

VX-7200 mobile models include:

MH-67A8J Standard Microphone

Standard 3 Year Warranty



VX-7200

Radio Features:

- 8 Channels/ 1 Group VX-7100
- 501 Channels/ 32 Groups VX-7200
- 12 Character, 7 Segment 3 Char. Large LCD (7200 only)
- 3 Programmable Keys (7100)/5 Keys (7200)
- D-Sub 15 Pin Accessory Connector
- MIL-STD 810 C/D/E/F

Analog Only Features:

- DTMF ANI/DTMF Paging* (Paging only on VX-7200)
- 2-Tone Encode and Multi-2-Tone Decoding
- CTCSS/DCS Encode and Decode
- BCLO, BTLO and TOT Functions
- User Selectable Tone* (Only on VX-7200)
- ARTS™ (Auto-Range Transpond System)
- Audio Compander

Analog and P25 Digital Mode:

- Minimum Volume
- Built In Emergency Microphone
- Public Address/Horn Alert
- Emergency Feature
- Group Scan/Priority Scan

P25 Digital Mode Only:

- P25 Digital Conventional Only
- AMBE+2™ Vocoder
- NAC (Network Access Code)
- Talk Group ID
- Individual ID lists (VX-7200 only)
- Caller ID Display (VX-7200 only)
- RSSI Audible Alert
- Mixed Mode
- BCLO and TOT
- Optional AES/DES Encryption

Recommended Accessories:

- Microphone
 - MD-12A8J Desktop Microphone
 - MH-75A8J DTMF Microphone
 - MH-67A8J Standard Microphone
- External Speaker
 - MLS-100 12W External Speaker
 - MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS	NEW MODEL	PREVIOUS MODEL	MSRP
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BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL	
VX-7200 Series Radio Models					
134-174	VHF	50W	512	AC060N002-VX	VX-7200-D0-50 134-174 50W \$ 1,874.00
450-512	UHF	45W	512	AC060U002-VX	VX-7200-G7-45 450-512 45W \$ 1,974.00
380-450	UHF	45W	512	AC060U004-VX	VX-7200-G8-45 380-450 45W \$ 1,974.00

FCC INFORMATION: K6610603040 (134-174 MHz) / K6610604840 (403-470 MHz) / K6610604740 (450-512 MHz)

VX-7200 Series

P25 Mobiles

P25 UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Microphone Choices:

QA02644AA	ADD: Speaker Mic MH-67A8J	\$ 0.00
QA02637AA	ADD: DTMF Mic MH-75A8J	\$ 15.00

General Options:

Programming Option: **Encryption options are factory installed**

QA02722AA	ADD: AES/DES Encryption Programming	\$ 550.00
QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00

Vertex Standard P25 Mobiles Accessories

Date 6/26/2015

MSRP

VX-7200	Model Number	Description	MSRP
DC Cables			
X	AAE06X001	E-DC-22 30 ft DC cable for VX-4000/-5500 mobiles	\$ 80.00
DC Noise Filters			
X	A09120001	LF-1 Plug-In Line Filter	\$ 35.00
Microphones			
X	AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
X	AAG22X101	MH-75A8J DTMF Microphone	\$ 55.00
X	AAE60X102	MH-67A8J Standard Microphone	\$ 40.00
Mounting Brackets			
X	AAD48X001	MMB-85 Quick Release Mobile Bracket for VX-4100/4200	\$ 75.00
Power Supply			
X	XUSLX0001A	SEC-1223 Desktop Switching Power Supply 120 VAC	\$ 216.88
Programming and Installation			
X	AAD66X002	CT-104A Interface Cable for FIF-12A	\$ 40.00
X	AAF84X001	CT-128 Keyloader adapter cable for VX-7100 & VX-7200 series P25 mobile radios with encryption option. Required CT-129 or Motorola TKN8531C.	\$ 50.00
X	XUMOT0001	CT-129 Keyloader interface cable for KVL-3000+. Use with either CT-127 (for portables) or CT-128 (for mobiles) for programming encryption keys into radio.	\$ 199.00
X	AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional cable pigtails. Pigtails not included.	\$ 150.00
X	A06420002	VX-VPL-1 Programming cable from PC. Check specific models for additional cable pigtails.	\$ 87.00
Speaker			
X	A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X	AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00

VX-1700 Series

HFSSB

Single Side Band

VX-1700 mobile models include:
 MH-31A8J - Standard Microphone
 Standard 3 Year Warranty



VX-1700

Radio Features:

- 200 Memory Channels (arranged in 5 banks)
- Four Programmable Keys
- Alphanumeric Labeling of Memory Channels
- A1A (CW), J3E (LSB/USB), A3E (AM), J2B (USB/LSB)
- Flexible calling options: SELCALL, TELCALL, Message Call,
- Dual Watch Operation
- VOX
- Noise Blanker
- Dimmer Function
- CW Side Tone Function
- CW Semi-break-in
- PC Programmable
- MIL-STD 810 D/E/F
- Optional Mobile Antenna
- ALE Operation (Requires ALE-1 unit Option)
- Power Output:

125W (A1A, J2B, J3E @ 1.6000 ~ 3.9999 MHz)
 100W (A1A, J2B, J3E @ 4.0000 ~ 30.000 MHz)
 31W (A3E @ 1.6000 ~ 3.9999 MHz)
 25W (A3E @ 4.0000 ~ 30.000 MHz)

Recommended Accessories:

- Power Supply**
 FP-1030A 30A Power Supply 110V
- Microphone**
 MD-100A8X Desktop Microphone
 MH-31A8J Dynamic Hand Microphone
 MD-12A8J Desktop Microphone
- Speaker**
 MLS-100 External Speaker (12W)
 MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VX-1700 Radio Model						
1.6-30 MHz	Low Band	125W	200	AC051H003-VX	VX-1700-A0-125	\$ 1,280.40

FCC INFORMATION: K6610511070

OPTION SELECTION	DESCRIPTION	MSRP
Programming Option: QA02723AA	ADD: Customer Codeplug Factory Programming	\$ 50.00

Vertex Standard HFSSB Accessories

Date 6/26/2015

MSRP

VX-1700	Model Number	Description	MSRP
Antennas			
X	D8000240	YA-007FG HF Multiband Mobile Antenna 7-30 MHz (Requires FC-40)	\$ 216.00
X	A00590003	YA-30 Broadband T2FD Dipole Base Station Antenna 77ft	\$ 369.00
X	AAF76X001	YA-31 Broadband HF Antenna 49 ft.	\$ 385.00
HF Antenna Tuners			
X	AAC86X002	FC-30 Automatic Antenna Tuner (For coaxial lines)	\$ 237.00
X	AAD77X002	FC-40 The FC-40 is a new, wide-range Antenna Coupler for the FT-450, FT-857, and FT-	\$ 412.00
Microphones			
X	A06880001	MD-100A8X Desktop Microphone	\$ 183.75
X	A06870001	MH-31A8J Dynamic Hand Microphone	\$ 54.00
X	AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
Mounting Brackets			
X	AAE67X001	MMB-89 One-Touch Mobile Bracket	\$ 45.00
Power Supply			
X	A12510002	FP-1030A 30A Power Supply 110V	\$ 345.22
Programming and Installation			
X	A13860001	CT-62 Programming Cable	\$ 40.00
Signaling			
X	AAE56X001	ALE-1 Automatic Link Establishment Unit	\$ 700.00
Speaker			
X	A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X	AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00

BSC-5000

Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog



BSC-5000

Base Station Features:

- Creates a Base Station by Installing VX-5500 or VX-6000 Series Mobile
- Internal AC Switching Power Supply or External DC Supply
- Automatic Switch-over to Backup battery
- Digital Clock (12 H or 24 H)
- Loud Speaker (12W) and Clear Sound

Recommended Accessories:

- Microphone
- MD-12A8J Desktop Microphone

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND	BAND	PWR	CHAN	CATALOG MODEL		
BSC-5000 Base Station Model						
N/A	N/A	N/A	N/A	AAD38X001-VX	BSC-5000	\$ 1,995.00

VXR-1000 Series Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog



VXR-1000

Repeater Features:

- 16 Channels
- D-sub 9 pin connector
- 5W Power Output
- 12.5/25 kHz Bandwidth (Programmable by Channel)
- CTCSS/DCS Encode & Decode
- ARTS™ (Auto Range Transponder System)
- Command Control (Allows repeater to talk directly with Portable)
- Built In Voice Inversion Encryption (Allows Secure voice between VXR-1000 and Portable)
- Local Volume Control (Requires External Speaker)
- First on Scene Logic with Priority Sampling
- Compatible with Most Popular Trunking Protocols
- Compatible with Most Low Band, VHF and UHF Systems
- PC Programmable
- MIL-STD 810 C/D/E

Recommended Accessories:

Microphone

MH-67A8J Standard Microphone

Speaker

MLS-100 External Speaker (12W)

MLS-200 Waterproof External Speaker (12 Watt Peak)

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VXR-1000 Series Repeater Models						
150-174 MHz	VHF	5W	16	A13710001-VX	VXR-1000V	\$ 599.00
450-470 MHz	UHF	5W	16	A13370001-VX	VXR-1000U	\$ 599.00

VXR-7000 Series Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog



VXR-7000

Repeater Features:

- 16 Channel Synthesized
- 8 Character ANI / ENI ID Display
- 47 CTCSS / 108 DCS Encode / Decode
- 5-Tone Encode / Decode
- Multi-Tone Decode
- DTMF Encode / Decode
- D-Sub 25 pin accessory connector
- 10 to 50W Power Output (100% Duty)
- CW Transmitter ID (Dealer Programmed)
- 12.5/25 kHz Bandwidth Prog 16 Tones/Codes
- Time-Out Timer, Hang Timer, Guard Timer (Dealer Programmed)
- Busy Channel Lockout (BLCO)
- Busy Tone Lockout (BTLO)
- Selectable Repeater Mode or Base Transceiver Mode
- Selectable Local Mode or Remote Mode
- AC Power Supply Voltage Selection (115/230 VAC $\pm 10\%$ Dealer Selectable)
- Automatic DC Power Supply Backup
- Optional Internal Duplexer (Limit 40W)
- PC Programmable
- ACC Connector Port & Line Interface Port
- Optional VX-Trunk Operational

Recommended Accessories:

Microphone

- MH-67A8J Standard Microphone
- MD-12A8J Desktop Microphone

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VXR-7000 Repeater Models						
136-150 MHz	VHF	50W	16	A13670012-VX	VXR-7000VA	\$ 1,600.00
150-174 MHz	VHF	50W	16	A13670010-VX	VXR-7000VC	\$ 1,650.00
400-430 MHz	UHF	50W	16	A13680004-VX	VXR-7000UA	\$ 1,650.00
450-480 MHz	UHF	50W	16	A13680014-VX	VXR-7000UD	\$ 1,650.00

FCC INFORMATION: K66VXR-7000VC (134-174 MHz) / K66-VXR7000U (400-480 MHz)

VXR-9000 Series

Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog



VXR-9000

Repeater Features:

- 32 Channels
- 47 CTCSS / 109 DCS Encode / Decode
- 6 Dual Functioning Programmable Front Panel Keys
- 50W or 25W Power Output
- 100W Power Amplifier Unit (Optional)
- PLL Step Sizes: 2.5/5.0/6.25 kHz
- Low Level and High Level Encryption Options
- CTCSS Reverse Burst with Programmable Length
- 3.15" Square Cooling Fan with "Malfunction" Sensor Output
- Multi-Tone Decode
- 5-Step Command Sequence for Startup,
Power Source: Main to Sub, and Sub to Main
- CW ID and CW Messages Selected by Trigger
- Coaxial relay Drivers for Single Antenna Operation; Also TX Attenuator
- Programmed Message Banks for Maintenance Logs or Any Other Free Text
- Repeater Occupation Settings to Hold the Last Tone Code (Preset Timer)
- Built In Audio Voice Companding Unit
- Channel Scanning With Priority Channel
- Automatic DC Backup Switching with Alert
- Optional Built In Power Supply Unit FP-31
- D-sub 25 pin accessory connector
- EIA rack mount size

Recommended Accessories:

- Microphone**
 MD-12A8J Desktop Microphone
 MH-67A8J Standard Microphone
- Power Supply**
 FP-31 Internal Power Supply*
**Required for all 50W models*
 FP-1030A External Power Supply

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
VXR-9000 Repeater Models						
134-160 MHz	VHF	50W	32	AC044N004-VX	VXR-9000VA	\$ 1,395.00
148-174 MHz	VHF	50W	32	AC044N006-VX	VXR-9000VC	\$ 1,395.00
400-430 MHz	UHF	50W	32	AC044U006-VX	VXR-9000UA	\$ 1,495.00
450-490 MHz	UHF	50W	32	AC044U008-VX	VXR-9000UD	\$ 1,495.00

FCC INFORMATION: K6610443240 (134-174 MHz) / K6610444140 (403-430 MHz) / K66VXR-9000U (450-490 MHz)

VXR-9000 Series

Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 25 kHz, Analog

OPTION SELECTION	DESCRIPTION	MSRP
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Options: TO COMPLETE AN ORDER YOU MUST MAKE ONE (1) CHOICE PER EACH STEP

Programming Option:

QA02725AB	ADD: 100W POWER AMPLIFIER for VXR-9000VC	\$ 1,893.00
QA02725AA	ADD: 100W POWER AMPLIFIER for VXR-9000UD	\$ 1,943.00

EVX-R70 Series Repeaters/Base Stations

UHF / VHF Models, 12.5 kHz / 6.25 kHz^e, Analog/Digital



EVX-R70

Repeater Features:

- Digital or Analog Operation
- Dynamic Mixed Mode
- DMR Standard TDMA 6.25 kHz Efficient
- 25W - 45W Power Output
- 136-174 MHz VHF, 403-470 MHz UHF, 450-512 MHz UHF
- 16 Channels
- EIA Rack Mount Size
- AMBE+2™ Digital Vocoder
- 26 Pin Accessory Connector
- Multicolored LED Status Indicator

PRODUCT DETAILS				NEW MODEL	PREVIOUS MODEL	MSRP
BAND SPLIT	BAND	PWR	CHAN	CATALOG MODEL		
EVX-R70 Repeater Models						
136-174	VHF	45W	16	AC103N002-VX	EVX-R70-D0-45	\$ 2,542.00
403-470	UHF	40W	16	AC103U004-VX	EVX-R70-G6-40	\$ 2,542.00
450-512	UHF	40W	16	AC103U006-VX	EVX-R70-G7-40	\$ 2,542.00

FCC INFORMATION: AXI11033040 (136-174 MHz) / AXI11034640 (403-470 MHz) / AXI11304740 (450-512 MHz)

Vertex Standard Repeaters/Base Station Accessories

Date 6/26/15

MSRP

BSC-5000	VXR-1000	VXR-7000	VXR-9000	EVX-R70	Model Number	Description	MSRP
Duplexers							
		X	X		XUFIP0001	VXD-60UD 50 Watt Internal Duplexer, UHF 440-470 MHz *Note: Compatible with the VXR-9000 however it can not be installed and must be used separately	\$ 410.00
		X	X		XUFIP0002	VXD-60VC 50 Watt Internal Duplexer, VHF 148-160 MHz *Note: Compatible with the VXR-9000 however it can not be installed and must be used separately	\$ 410.00
Microphones							
X					AAB02X008	MH-53A8J HEAVY DUTY MICROPHONE	\$ 150.00
X	X	X			AAF13X001	MD-12A8J Desktop Microphone	\$ 102.00
X	X	X			AAE60X102	MH-67A8J Standard Microphone	\$ 40.00
Misc.							
			X		AAC95X001	FIF-9 The FIF-9 is an interface unit which allows remote control of the VXR-9000 repeater via a 4-line or 8-line cable	\$ 145.00
				X	AAH39X001	WMB-1 Wall mount kit	\$ 148.33
		X			AAA69X001	MR-3 4U HIGH 19 INCH WIDE MOUNT KIT	\$ 220.00
				X	AAH36X001	CT-149 Mobile Rear Accy Connector Universal Cable	\$ 30.00
				X	AAH40X001	E-DC-29 Battery backup cable	\$ 66.67
Power Supply							
			X		AAC96X001	FP-31 POWER SUPPLY Internal power supply for the VXR-9000 rack mount	\$ 298.00
Programming and Installation							
		X	X		AAD66X002	CT-104A Interface Cable for FIF-12A	\$ 40.00
		X			AAA21X001	CT-68 Duplexer Installation Kit	\$ 63.00
				X	AAH43X001	CT-151 Programming cable rear accessory connector	\$ 47.00
		X	X		AAJ06X001	FRB-6 Tuning Interface (Requires Connection Cable)	\$ 340.00
		X	X		AAJ07X001	CT-159 Connection Cable (Requires FRB-6)	\$ 58.34
		X	X		AAJ23X001	FIF-12A USB Interface for PC programming. Check specific models for additional	\$ 150.00
X	X	X			A06420002	VX VPL-1 Programming cable from PC. Check specific models for additional cable	\$ 87.00
Remote Cable							
X					AAD60X001	CT-103 Cable for connection to tone panel	\$ 99.00
RF Power Amplifiers							
			X		AAE21U001	VPA-9000UD Power amplifier kit, UHF 450-490MHz (FOR 100 WATT OPTION	\$ 1,890.00
			X		AAE21N001	VPA-9000VC Power amplifier kit, VHF 148-174MHz (FOR 100 WATT OPTION	\$ 1,840.00
Signaling							
			X		A12760001	FVP-25 Encryption Unit (Band Inversion Type) and DTMF Paging. (requires FIF-7	\$ 60.00
			X		AAF39X001	FVP-35 Plug-in Rolling Code Encryption. Requires FIF-7 if installed into the VX-	\$ 346.00
Speaker							
X					A09260003	MLS-100 External Speaker (12 Watt Peak)	\$ 62.00
X					AAD49X001	MLS-200 Waterproof External Speaker (12 Watt Peak)	\$ 80.00

Vertex Standard Pending Obsolete Accessories

VX-130	VX-160	VX-180	VX-210A	VX-231	VX-350	VX-400	VX-410/420	VX-420A	VX-450/450IS	VX-500/510/520UD/530	VX-600	VX-800	VX-900	VX-820/920/P820/P920	VXD-720	VX-3200	VX-4000	VX-4100/4200	VX-5500/6000	BSC-5000	VX-1210	VX-1700	EVX-530/530IS	Model Number	Description	MSRP	
										X															Alkaline Battery Cases		
																									XUZZZ0139	FBA-19 Alkaline Battery Case	\$ 39.00
																									Batteries		
														X											AAE78X001	FNB-V92LI BAT 7.4V 3000MAH	\$ 148.33
														X											AAE79X001	FNB-V92LIIS 7.4 V 3000 mAh Li-Ion Battery, Intrinsically Safe Version	\$ 160.00
											X		X												AAB06X002	FNB-V69LI 2400MAH NIMH Battery	\$ 126.00
												X													A14150001	FNB-V62LI 2000MAH LIION Battery	\$ 64.00
											X		X												AAC42X002	FNB-V69LI IS 2400MAH NIMH Battery	\$ 126.00
																									AAA86X001	FNB-V66LI Battery	\$ 490.00
											X		X									X			AAB05X002	FNB-V68LI Battery	\$ 85.00
																									Cases		
															X										AAH24X001	CSC-96 Nylon carry case	\$ 31.67
																									AAA57X001	CSC-78 Shoulder Bag	\$ 350.00
																									Charger		
																									AAA85X004	PA-26B AC Adapter	\$ 109.08
				X	X																				AAF47X001	DCM-1 Desktop Charger Mounting Adapter (for VAC-300)	\$ 8.00
																									Headsets and Surveillance		
														X											XUOTT0005	VH-121 3 Wire Mini Lapel Mic Surveillance Kit	\$ 215.00
														X											AAG21X001	VH-121 3 Wire Mini Lapel Mic Surveillance Kit	\$ 215.00
														X											XUOTT0006	VH-131 2 Wire Palm Kit	\$ 187.00
																									Microphone		
	X	X																							A13600001	MH-34D4B Microphone	\$ 53.00
																					X				XUAAF13X00101	MD-12A8J Desktop Microphone w/ Multi Pin Plug	\$ 114.00
																						X			A08180003	MD-11B8J Base Station mic	\$ 195.00
																									Misc		
																									AAD80X001	FAN-1 Optional cooling fan	\$ 90.00
																									AAE68X001	MHG-1 Carry Handle	\$ 15.00
																									Programming and Installation		
																			X	X					AAB70X001	CN-6 Interface for third-party accessory boards	\$ 16.00
					X		X	X			X	X	X	X		X	X	X	X						AAC46X001	FIF-8A Interface Flash ROM Writer	\$ 188.00
						X	X																		AAF26X001	CT-124A Flash lead for FIF-8	\$ 60.00
														X											AAD93X001	CT-109 RS232 D89 PROGRAM CBL PC I/F	\$ 112.00
														X											AAE27X001	CT-115 Programming Cable Only (Requires VPL-1)	\$ 63.00
														X											AAD94X001	CT-110 Firmware writing cable (For use with the FIF-8)	\$ 65.00
																									Signaling		
																									AAA88X001	DSV-1200 D-Sub 9 accesory connector add on	\$ 20.00
						X					X	X	X				X		X						A12770001	2 Tone Decode Unit	\$ 37.79
																									Speaker Microphone		
																							X		AAA75X002	MH-50B7A Speaker Microphone	\$ 100.00

Effective upon depletion of inventory the accessories listed on this page will no longer be available for purchase from Vertex Standard. There is a limited quantity available in the distribution center for purchase, and will be sold on a first come, first serve basis. For questions, please contact Customer Support.

Distribution and Service Centers

FreCom Inc

Address - 435 West Baltimore Pike, West Grove, pa 19390

Phone#-610-869-3307

Fax# 610-869-3422

Email- frecom@verizon.net

Contact- Chuck Freese

Land Mobile Corporation

Address- 651 Montgomery Ave, Jenkintown, PA 19046

Phone #-215-663-1000

Fax#- none

Contact- Christopher Bors

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PART I - GENERAL INFORMATION

PART I - GENERAL INFORMATION

I.1 IFB-001.1 Purpose (Oct 2006)

The Commonwealth of Pennsylvania (Commonwealth) is issuing this Invitation for Bids (IFB) to meet the needs of DEPARTMENT OF GENERAL SERVICE to satisfy a need for **Two-Way Radio Communications Equipment** .

I.2 IFB-005.1 Type of Contract (Oct. 2006)

If the Issuing Office enters into a contract as a result of this IFB, it will be a contract containing the Contract Terms and Conditions as shown in Part V of this IFB.

I.3 IFB-008.1C No Pre-bid Conference (Oct. 2006)

There will be no pre-bid conference for this IFB. If there are any questions, please forward them to the Issuing Office prior to the bid opening date and time.

I.4 IFB-009.1 Questions (Nov. 2006)

Any questions concerning conditions and specifications must be directed to the Issuing Office.

I.5 IFB-010.1 Addenda to the IFB (Oct. 2006)

If the Issuing Office deems it necessary to revise any part of this IFB before the bid response date, the Issuing Office will post an addendum to its website at WWW.DGS.STATE.PA.US it is the Bidder's responsibility to periodically check the website for any new information or addenda to the IFB.

I.6 IFB-011.1B Submission of Bids – Electronic Submittal (Dec 12 2006)

- a. Bids are requested for the item(s) described in the Invitation For Bids and all the documents referenced in the form (collectively called the IFB). Bidders must submit their bids through the Commonwealth's electronic system (SRM).
- b. It is the responsibility of each bidder to ensure that its Bid is received through the electronic system prior to the date and time set for the opening of bids ("Bid Opening Time"). No Bid shall be considered if it arrives after the Bid Opening Time, regardless of reason for the late arrival.

Bids that are timely received in the Bid Opening Room prior to the Bid Opening Time shall be opened publicly in the presence of one or more witnesses at the time and place designated in this IFB for the Bid opening.

- c. Bids must be firm. If a Bid is submitted with conditions or exceptions or not in conformance with the terms and conditions referenced in the IFB Form, it shall be rejected. The Bid shall also be rejected if the items offered by the Bidder are not in conformance with the specifications as determined by the Commonwealth.
- d. The Bidder, intending to be legally bound hereby, offers and agrees, if this Bid is accepted, to provide the awarded items at the price(s) set forth in this Bid at the time(s) and place(s) specified.

I.7 IFB-013.1A Non-Discrimination Program – Services Exceeding \$50,000 (Nov 2006)

Bidders must include with their bid submittals a completed *MBE/WBE Subcontractor and Supplier Solicitation and Commitment Form*, (STD-168). Failure to complete the form and submit it with the bid may result in rejection of the bid as non-responsive

I.8 IFB-024.1 Bid Protest Procedure (Oct 2006)

- a. **Who May File the Protest.** Any Bidder or prospective bidder who is aggrieved in connection with the IFB or award of the contract solicitation or award of a contract may file a protest. Protests relating to cancellation of invitations for bids and protests relating to the rejection of all bids are not permitted. A Bidder is a person that submits a bid in response to the IFB. A prospective bidder is a person that has not submitted a bid in response to the IFB.
- b. **Time for Filing.**
 - 1) If a protest is submitted by a prospective bidder, the protest must be filed before bid opening time or proposal receipt date.
 - 2) If a protest is filed by a Bidder, the protest must be filed within seven days after the protesting Bidder knew or should have known of the facts giving rise to the protest EXCEPT THAT IN NO EVENT MAY A PROTEST BE FILED LATER THAN SEVEN (7) DAYS AFTER THE DATE THE CONTRACT OR PURCHASE ORDER WAS AWARDED. Date of filing is the date of receipt of protest.
 - 3) Untimely filed protests shall be disregarded.
- c. **Form of Protest.**
 - 1) A protest must be in writing and filed with the agency head (or designee) of the purchasing agency.
 - 2) A protest must state all grounds upon which the protesting party asserts that the solicitation or award was improper. Issues not raised by the protesting party in the protest are deemed waived and may not be raised on appeal.
 - 3) The protesting party may submit with the protest any documents or information deemed relevant.
- d. **Notice of Protest** If award has been made, the agency head (or designee) shall notify the successful Bidder or contractor of the protest. If the protest is received before award and substantial issues are raised by the protest, all Bidders who appear to have a substantial and reasonable prospect of winning the award shall be notified and may file their agreement/disagreement with the purchasing agency within three (3) days after receipt of notice of the protest.

e. **Stay of Procurement.** The head of the purchasing agency (or designee) shall immediately decide, upon receipt of the protest, whether or not the solicitation or award shall be stayed, or if the protest is timely received after the award, whether the performance of the contract should be suspended. The Issuing Office shall not proceed further with the IFB or with the award of the contract, and shall suspend performance under the contract if awarded, unless the agency head of the purchasing agency makes a written determination that the protest is clearly without merit or that award of the contract/purchase order without delay is necessary to protect the substantial interests of the Commonwealth.

f. **Procedures.**

1) **Contracting Officer Response.** Within fifteen (15) days of the receipt of a protest, the contracting officer may submit a written response to the head of the purchasing agency (or designee). The response may include any documents or information that the contracting officer deems relevant to the protest.

2) **Protesting Party Reply.** Within ten (10) days of the date of the contracting officer response, the protesting party may file a written reply.

3) **Review.** The head of the purchasing agency (or designee) shall:

a) Review the protest and any response or reply.

b) Request and review any additional documents or information he deems necessary to render a decision.

c) Give the protesting party and the contracting officer reasonable opportunity to review and address any additional documents or information requested by the agency head.

d) In his sole discretion, conduct a hearing.

e) Within sixty (60) days of the receipt of the protest, issue a written determination stating the reasons for the decision.

f) If additional time is required to investigate the protest, inform the protesting party of the additional time needed to render a determination and obtain the protesting party's consent.

4) **"Clearly Without Merit" Determinations.** If the head of the purchasing agency (or designee) determines, upon receipt, that the protest is clearly without merit and does not stay the procurement, the head of the purchasing agency (or designee) shall immediately issue the decision as required by Subparagraph h below.

g. **Settlement.** The Issuing Office has the authority to settle and resolve bid protests.

h. **Decision.** The head of the purchasing agency (or designee) shall promptly, but in no event later than sixty (60) days from the filing of the protest, issue a written decision. The decision shall:

1) State the reasons for the decision.

2) If the protest is denied, inform the protesting party of its right to file an appeal in Commonwealth Court

within fifteen (15) days of the mailing date of the decision.

- 3) If it is determined that the solicitation or award was contrary to law, enter an appropriate order.

The agency head (or designee) shall send a copy of the decision to the protesting party and any other person determined by the agency head (or designee) to be affected by the decision.

I.9 IFB-025.1 Electronic Version of this IFB (Oct 2006)

This IFB is being made available by electronic means. If a Bidder electronically accepts the IFB, the Bidder acknowledges and accepts full responsibility to insure that no changes are made to the IFB. In the event of a conflict between a version of the IFB in the Bidder's possession and the Issuing Office's version of the IFB, the Issuing Office's version shall govern.

I.10 IFB-027.1 COSTARS Program (Aug 2010)

COSTARS Purchasers. Section 1902 of the Commonwealth Procurement Code, 62 Pa.C.S. § 1902 (“Section 1902”), authorizes local public procurement units and state-affiliated entities (together, “COSTARS Members”) to participate in Commonwealth procurement contracts that the Department of General Services (“DGS”) may choose to make available to COSTARS Members. DGS has identified this Contract as one which will be made available for COSTARS Members’ participation.

A. Only those entities registered with DGS are authorized to participate as COSTARS Members in this Contract. A COSTARS Member may be either a local public procurement unit or a state-affiliated entity.

1. A “local public procurement unit” is:

- Any political subdivision (local government unit), such as a municipality, school district, or commission;
- Any public authority (including authorities formed under the Municipality Authorities Act of 1955 or other authorizing legislation, such as the Public Transportation Law or the Aviation Code);
- Any tax-exempt, nonprofit educational institution or organization;
- Any tax-exempt, nonprofit public health institution or organization;
- Any nonprofit fire, rescue, or ambulance company; and
- Any other entity that spends public funds for the procurement of supplies, services, and construction (such as a council of governments, an area government, or an organization that receives public grant funds).

2. A state-affiliated entity is a Commonwealth authority or other Commonwealth entity that is not a Commonwealth agency. The term includes:

- The Pennsylvania Turnpike Commission;
- The Pennsylvania Housing Finance Agency;
- The Pennsylvania Municipal Retirement System;
- The Pennsylvania Infrastructure Investment Authority;
- The State Public School Building Authority;
- The Pennsylvania Higher Education Facilities Authority, and
- The State System of Higher Education.

The term does not include any court or other officer or agency of the unified judicial system, the General Assembly and its officers and agencies, any State-related institution, or any Commonwealth executive or independent agencies, boards, or commissions not listed above. Statewide "row" offices, including the Auditor General, Attorney General, and State Treasurer **are not** State-affiliated entities under the Procurement Code.

However, elements of the court system, the General Assembly, and independent agencies, boards, or commissions have been deemed eligible for COSTARS membership as entities that spend public funds for the procurement of supplies, services, and construction.

3. A complete list of local public procurement units and state-affiliated entities that have registered with DGS and that are authorized to procure items from the Contract can be found at <http://www.dgsweb.state.pa.us/COSTARSReg/Member.aspx>

B. COSTARS Members have the option to purchase from this Contract, from any DGS contract established exclusively for COSTARS Members in accordance with the requirements of Section 1902 , from any other cooperative procurement contracts, or from their own procurement contracts established in accordance with the applicable laws governing such procurements. The Contractor understands and acknowledges that there is no guarantee that a COSTARS Member will place an order under this Contract, and that the decision to procure from this Contract is within the sole discretion of each COSTARS Member.

C. DGS is acting as a facilitator for COSTARS Members who may wish to purchase under this Contract. COSTARS Members that participate in this Contract and issue purchase orders ("POs") to Contractors are third party beneficiaries who have the right to sue and be sued for breach of this Contract without joining the Commonwealth or DGS as a party. The Commonwealth will not intervene in any action between a Contractor and a COSTARS Member unless substantial interests of the Commonwealth are involved.

D. COSTARS Members electing to participate in this Contract will order items directly from the Contractor and be responsible for payment directly to the Contractor.

E. Those Contractors electing to permit COSTARS Members to procure from this Contract shall pay the Required Administrative Fee applicable to the Contractor's classification:

Contractor Classification	Required Administrative Fee
Qualified Small Business Bidder , defined as having less than 100 full-time employees or full-time equivalent employees and Gross Annual Revenue less than \$20,000,000 (\$25,000,000 for IT sales or service businesses)	\$500
All Other Bidders	\$1,500

1. Each bidder electing to permit COSTARS Members to participate in the Contract must pay the applicable Administrative Fee upon Contract award in order to sell the awarded items/services to COSTARS Members. If the bidder is asserting that it is a Qualified Small Business, a completed Department of General Services Small Business Certification must be returned with the bid package.

2. At the beginning of each Contract year and upon any Contract renewal, the Contractor shall submit a check for the required amount, payable to “ Commonwealth of PA ”. The Contractor must pay the Administrative Fee at each contract renewal date to continue to sell the awarded items/services to COSTARS Members.

F. DGS has registered the COSTARS name and logo (together, the “COSTARS Brand”) as a trademark with the Pennsylvania Department of State. Therefore, the Contractor may use the COSTARS Brand only as permitted under in this Subsection.

1. The Contractor shall pay the Administrative Fee covering its participation in the program, including without limitation any use of the COSTARS Brand, for each year of the Contract period. The fee is payable upon Contract award and prior to the renewal date for each succeeding Contract period

2. DGS grants the Contractor a nonexclusive license to use the COSTARS Brand, subject to the following conditions:

a. The Contractor agrees not to transfer to any third party, including without limitation any of its subcontractors or suppliers, any privileges it may have to use the COSTARS Brand under this Contract.

b. The Contractor agrees not to use the COSTARS Brand to represent or imply any Commonwealth endorsement or approval of its products or services.

c. The Contractor is permitted to use the COSTARS Brand in broadcast, or Internet media solely in connection with this Contract and any other Contract with the Commonwealth under which it has agreed to make sales to COSTARS Purchasers. The Contractor may use the COSTARS Brand on business cards, brochures, and other print publications so long as the purpose is to identify the Contractor as a COSTARS vendor, and only so long as the required Contract fee is kept current.

d. Should this Contract terminate for any reason, the Contractor agrees promptly to remove the COSTARS Brand from any and all print and electronic media and to refrain from using the COSTARS Brand for any purpose whatsoever from the date of Contract termination forward.

e. The Contractor agrees to defend, indemnify, and hold harmless the Commonwealth of Pennsylvania and DGS from and against all claims, demands, liabilities, obligations, costs, and expenses of any nature whatsoever arising out of or based upon the Contractor’s use of the COSTARS Brand.

f. The Contractor agrees it has no property rights in the use of the COSTARS Brand by virtue of this nonexclusive license. The Contractor expressly waives any claims, including without limitation due process claims that may otherwise be available under the law in the event of any dispute involving these terms of use.

G. The Contractor shall furnish to the DGS COSTARS Program Office a quarterly electronic Contract sales report detailing the previous quarter's Contract purchasing activity, using the form and in the format prescribed by DGS. The Contractor shall submit its completed quarterly report no later than the fifteenth calendar day of the succeeding Contract quarter.

1. The Contractor shall submit the reports via the web-based COSTARS Suppliers' Gateway at www.dgs.state.pa.us/costars . If a Contractor does not have access to the Internet, the Contractor shall send the reports, using the form and in the format prescribed by DGS, on compact disc via US Postal Service to the DGS COSTARS Program Office, Bureau of Procurement, 6th Floor Forum Place, 555 Walnut Street, Harrisburg, PA 17101-1914.
2. For each PO received, the Contractor shall include on the report the name and address of each COSTARS-Registered Purchaser that has used the Contract along with the sales date, and dollar volume of sales to the specific Purchaser for the reporting period.
3. DGS may suspend the Contractor's participation in the COSTARS Program for failure to provide the Quarterly Sales Report within the specified time.

H. Additional information regarding the COSTARS Program is available on the DGS COSTARS Website at www.dgs.state.pa.us/costars

1. If the Contractor is aware of any qualified entity not currently registered and wishing to participate in the COSTARS Program, please refer the potential purchaser to the DGS COSTARS Website at www.dgs.state.pa.us/costars , where it may register by completing the online registration form and receiving DGS confirmation of its registration. To view a list of currently-registered COSTARS member entities, please visit the COSTARS website.
2. Direct all questions concerning the COSTARS Program to:
Department of General Services
COSTARS Program
555 Walnut Street , 6th Floor
Harrisburg , PA 17101
Telephone: 1-866-768-7827
E-mail GS-PACostars@state.pa.us

I.11 IFB-029.1 Prices (Dec 6 2006)

The bid submitted by the successful Bidder will be incorporated into any resulting Contract and the Bidder will be required to provide the awarded item(s) at the prices quoted in its Bid.

I.12 IFB-031.1 Alternates (Nov 2006)

A Bidder who wants to offer an alternate must notify the Issuing Office in writing, at least five (5) days prior to the scheduled Bid opening, that the Bidder intends to offer an alternate in its Bid. An "alternate" is a product that deviates from the requirements of the specifications in its composition, qualities, performance, size dimension, etc. The written notification from the Bidder must include a complete description of the alternate and must identify the product's deviations from the specifications. Upon receipt of the notification, the Issuing Office will determine

whether the alternate is acceptable. If the Issuing Office, in its discretion, determines that the alternate is acceptable, the Issuing Office will issue a change notice to the invitation for bids that revises the specifications. If no change notice is issued revising the specification, a Bid offering the alternate will not be considered for award.

I.13 IFB-032.1 New Equipment (Nov 2006)

Unless otherwise specified in this invitation for bids, all products offered by Bidders must be new or remanufactured. A 'new' product is one that will be used first by the Commonwealth after it is manufactured or produced. A 'remanufactured' product is one which: 1) has been rebuilt, using new or used parts, to a condition which meets the original manufacturer's most recent specifications for the item; 2) does not, in the opinion of the Issuing Office, differ in appearance from a new item; and 3) has the same warranty as a new item. Unless otherwise specified in this invitation for bids, used or reconditioned products are not acceptable. This clause shall not be construed to prohibit Bidders from offering products with recycled content, provided the product is new or remanufactured.

I.14 I-IFB-033.1 Modification or Withdrawal of Bid (Nov 2006)

a. Bid Modification Prior to Bid Opening. Bids may be modified only by written notice or in person prior to the exact hour and date specified for Bid opening.

- 1) If a Bidder intends to modify its Bid by written notice, the notice must specifically identify the Bid to be modified and must be signed by the Bidder. The Bidder must include evidence of authorization for the individual who signed the modification to modify the Bid on behalf of the Bidder. The Bid modification must be received in a sealed envelope. The sealed envelope must identify the assigned Collective Number and the Bid Opening Time, and should state that enclosed in the envelope is a Bid modification
- 2) If a Bidder intends to modify its Bid in person, the individual who will modify the Bid must arrive in the Bid Opening Room prior to the Bid Opening Time, show a picture identification and provide evidence of his/her authorization to modify the Bid on behalf of the Bidder. If a Bidder intends to modify its Bid in person, the Bidder may do so only in the presence of an agency employee. (The agency employee will observe the actions taken by the individual to modify the Bid, but will not read the Bid or the modification).

b. Bid Withdrawal Prior to Bid Opening. Bids may be withdrawn only by written notice or in person prior to the exact hour and date specified for Bid opening.

- 1) If a Bidder intends to withdraw its Bid by written notice, the notice shall specifically identify the Bid to be withdrawn and shall be signed by the Bidder. The Bidder must include evidence of authorization for the individual who signed the bid withdrawal to withdraw the bid on behalf of the Bidder. Except as provided in Subparagraph c, below, bid withdrawals received after the exact hour and date specified for the receipt of Bids shall not be accepted.
- 2) If a Bidder intends to withdraw its Bid in person, the individual who will withdraw the Bid must arrive in the Bid Opening Room prior to the Bid Opening Time, show a picture identification and provide evidence of his/her authorization to withdraw the Bid on behalf of the Bidder.

c. Bid Withdrawal After Bid Opening. Bidders are permitted to withdraw erroneous Bids after Bid opening only if the following conditions are met:

- 1) The Bidder submits a written request for withdrawal.
 - 2) The Bidder presents credible evidence with the request that the reason for the lower Bid price was a clerical mistake as opposed to a judgment mistake and was actually due to an unintentional arithmetical error or an unintentional omission of a substantial quantity of work, labor, material, or services made directly in the compilation of the Bid.
 - 3) The request for relief and supporting evidence must be received by the Issuing Office within three (3) business days after Bid opening, but before award of the contract.
 - 4) The Issuing Office shall not permit a Bid withdrawal if the Bid withdrawal would result in the award of the contract on another Bid of the same Bidder, its partner, or a corporation or business venture owned by or in which the bidder has a substantial interest.
 - 5) If a Bidder is permitted to withdraw its Bid, the Bidder cannot supply any material or labor or perform any subcontract or other work agreement for the awarded contractor, without the written approval of the Issuing Office.
- d. Firm Bid. Except as provided above, a Bid may not be modified, withdrawn, or cancelled by any Bidder for a period of sixty (60) days following the time and date designated for Bid opening, unless otherwise specified by the Bidder in its Bid. If the lowest responsible Bidder, as determined by the Issuing Office, withdraws its Bid prior to the expiration of the award period or fails to comply with the requirements set forth in the IFB including but not limited to any requirement to submit performance or payment bonds or insurance certificates within the required time period, the Bidder shall be liable to the Commonwealth for all costs and damages associated with the re-award or re-bid including the difference between the Bidder's price and the actual cost that the Commonwealth pays for the awarded items.
- e. Clarification and Additional Information. After the receipt of Bids, the Issuing Office shall have the right to contact Bidders for the purpose of seeking:
- 1) Clarification of the Bid which confirms the Issuing Office's understanding of statements or information in the Bid or;
 - 2) Additional information on the items offered; provided the IFB does not require the rejection of the Bid for failure to include such information.

I.15 I-IFB-034.1 Rejection of Bids (Nov 2006)

The Issuing Office reserves the right to reject any and all Bids, to waive technical defects or any informality in Bids, and to accept or reject any part of any Bid if the best interests of the Commonwealth are thereby served.

PART II - REQUIREMENTS

PART II - REQUIREMENTS

II.1 IFB-006.1b COSTARS Program Questionnaire - Electronic Submission (Oct 2006)

Offerors should complete and submit the COSTARS Program Questionnaire Form, which is attached to and made a part of this IFB, and submit it with its proposal. The completed COSTARS Program Questionnaire Form should be submitted as part of the Bid Response.

II.2 II-IFB-008.1b Lobbying Certification and Disclosure – Electronic Submission. (Oct 2006).

With respect to an award of a federal contract, grant, or cooperative agreement exceeding \$100,000 or an award of a federal loan or a commitment providing for the United States to insure or guarantee a loan exceeding \$150,000 all recipients must certify that they will not use federal funds for lobbying and must disclose the use of non-federal funds for lobbying by filing required documentation. Offerors must complete and return the Lobbying Certification Form and the Disclosure of Lobbying Activities Form, which are attached to and made a part of this IFB. The completed and signed Lobbying Certification Form and the Disclosure of Lobbying Activities Form should be submitted with the Bid Response. Commonwealth agencies will not contract with outside firms or individuals to perform lobbying services, regardless of the source of funds.

II.3 II-IFB-016.1 POST-SUBMISSION DESCRIPTIVE LITERATURE (Dec 2006)

The Commonwealth may, during its evaluation of the bids, require any bidder to submit cuts, illustrations, drawings, prints, test data sheets, specification sheets and brochures which detail construction features, design, components, materials used, applicable dimensions and any other pertinent information which the Issuing Office may require in order to evaluate the product(s) offered. The required information must be submitted within two (2) business days after notification from the Issuing Office. Failure to submit the required information prior to the expiration of the second business day after notification shall result in the rejection of the bid as non-responsive.

PART III - SELECTION CRITERIA

PART III - SELECTION CRITERIA

III.1 III-IFB-001.1a Mandatory Responsiveness Requirements (Oct 2006)

To be eligible for selection, a bid must be:

- a. Timely received from a Bidder;
- b. Properly signed by the Bidder.

III.2 III-IFB-006.1f Notification of Selection - All Bidders (Oct 2006)

Award will be made to all responsive and responsible bidders.

III.3 III-IFB-007.1 Awards (Nov 2006)

Unless all Bids are rejected, and except as otherwise provided by law, award will be made, through the issuance of a Purchase Order, to the lowest responsible and responsive Bidder. Unless otherwise specified by the Issuing Office in the IFB form the Commonwealth reserves the right to award by item or on a total Bid basis, whichever is deemed more advantageous to the Commonwealth. In cases of discrepancies in prices, the unit price will be binding unless the unit price is obviously in error and the extended price is obviously correct, in which case the erroneous unit price will be corrected. As a condition for receipt of award of a contract/purchase order, the lowest responsible and responsive Bidder must be registered in the Commonwealth of Pennsylvania's Vendor Master file. In order to register, bidders must visit the PA Supplier Portal at <https://www.pasupplierportal.state.pa.us/> or call the Customer Support Center at 877-435-7363 or 717-346-2676.

III.4 III-IFB-008.1 Tie Bids (Nov 2006)

All tie bids will be broken by the Issuing Office.

III.5 III-IFB-009.1 Prompt Payment Discounts (Nov 2006)

Prompt payment discounts will not be considered in making an award. If prompt payment discounts are offered by any Bidder, however, the Issuing Office will take advantage of such offer.

III.6 III-IFB-010.1 OPTION FOR SEPARATE COMPETITIVE BIDDING PROCEDURE (NOV 2006)

The Commonwealth reserves the right to purchase products or services covered under this Contract through a separate competitive bidding procedure, whenever Commonwealth deems it in the best interest of the Commonwealth. The right will generally be exercised only when a specific need for a large quantity of the product or service exists or when the price offered is significantly lower than the Contract price.

PART IV - WORK STATEMENT

PART IV - WORK STATEMENT

IV.1 IFB-001.1b STATEMENT OF WORK (Nov 2006)

The Commonwealth is seeking bids to procure the services set forth in the attached document entitled "Statement of Work."

PART V - CONTRACT TERMS and CONDITIONS

PART V - CONTRACT TERMS and CONDITIONS

V.1 CONTRACT-001.1b Contract Terms and Conditions (Nov 30, 2006)

The Contract with the awarded bidder (who shall become the "Contractor") shall include the following terms and conditions:

V.2 CONTRACT-002.1a Term of Contract – Contract (Jan 2008)

The term of the Contract shall commence on the Effective Date (as defined below) and shall end on the Expiration Date identified in the Contract, subject to the other provisions of the Contract.

The Effective Date shall be: a) the Effective Date printed on the Contract after the Contract has been fully executed by the Commonwealth (signed and approved as required by Commonwealth contracting procedures) or b) the "Valid from" date printed on the Contract, whichever is later.

V.3 CONTRACT-002.3 Extension of Contract Term (Nov 30 2006)

The Commonwealth reserves the right, upon notice to the Contractor, to extend any single term of the Contract for up to three (3) months upon the same terms and conditions.

V.4 CONTRACT-003.1a Signatures – Contract (March 2007)

The Contract shall not be a legally binding contract until the fully-executed Contract has been sent to the Contractor.

No Commonwealth employee has the authority to verbally direct the commencement of any work or delivery of any supply under this Contract prior to the Effective Date. The Contractor hereby waives any claim or cause of action for any service or work performed prior to the Effective Date.

The Contract will not include an "ink" signature by the Commonwealth. The electronically-printed name of the Purchasing Agent represents the signature of that individual who has the authority, on behalf of the Commonwealth, to bind the Commonwealth to the terms of the Contract. If the Contract output form does not have "Fully Executed" at the top of the first page and does not have the name of the Purchasing Agent printed in the appropriate box, the Contract has not been fully executed.

The fully-executed Contract may be sent to the Contractor electronically or through facsimile equipment. The electronic transmission of a purchase order shall require acknowledgement of receipt of the transmission by the Contractor. Receipt of the electronic or facsimile transmission of the Contract shall constitute receipt of the fully-executed Contract.

The Commonwealth and the Contractor specifically agree as follows:

- a. No handwritten signature shall be required in order for the Contract to be legally enforceable.
- b. The parties agree that no writing shall be required in order to make the Contract legally binding, notwithstanding contrary requirements in any law. The parties hereby agree not to contest the validity or enforceability of a genuine Contract or acknowledgement issued electronically under the provisions of a statute of frauds or any other applicable law relating to whether certain agreements be in writing and signed by

the party bound thereby. Any genuine Contract or acknowledgement issued electronically, if introduced as evidence on paper in any judicial, arbitration, mediation, or administrative proceedings, will be admissible as between the parties to the same extent and under the same conditions as other business records originated and maintained in documentary form. Neither party shall contest the admissibility of copies of a genuine Contract or acknowledgements under either the business records exception to the hearsay rule or the best evidence rule on the basis that the Contract or acknowledgement were not in writing or signed by the parties. A Contract or acknowledgment shall be deemed to be genuine for all purposes if it is transmitted to the location designated for such documents.

c. Each party will immediately take steps to verify any document that appears to be obviously garbled in transmission or improperly formatted to include re-transmission of any such document if necessary.

V.5 CONTRACT-004.1b Definitions – IT (Nov 30 2006)

As used in this Contract, these words shall have the following meanings:

- a. Agency The department, board, commission or other agency of the Commonwealth of Pennsylvania listed as the Purchasing Agency. If a COSTARS entity or external procurement activity has issued an order against this contract, that entity shall also be identified as "Agency".
- b. Contracting Officer The person authorized to administer this Contract for the Commonwealth and to make written determinations with respect to the Contract.
- c. Days Unless specifically indicated otherwise, days mean calendar days.
- d. Developed Works or Developed Materials All documents, sketches, drawings, designs, works, papers, files, reports, computer programs, computer documentation, data, records, software, samples or any other tangible material without limitation authored or prepared by Contractor as the work product covered in the scope of work for the Project.
- e. Documentation All materials required to support and convey information about the services required by this Contract. It includes, but is not necessarily restricted to, written reports and analyses, diagrams, maps, logical and physical designs, system designs, computer programs, flow charts, disks, and/or other machine-readable storage media.
- f. Services All Contractor activity necessary to satisfy the Contract.

V.6 CONTRACT-005.1a Purchase Orders (Feb 2007)

Commonwealth agencies may issue Purchase Orders against the Contract. These orders constitute the Contractor's authority to make delivery. All Purchase Orders received by the Contractor up to and including the expiration date of the Contract are acceptable and must be performed in accordance with the Contract. Each Purchase Order will be deemed to incorporate the terms and conditions set forth in the Contract.

Purchase Orders will not include an "ink" signature by the Agency. The electronically-printed name of the purchaser represents the signature of that individual who has the authority, on behalf of the Commonwealth, to authorize the Contractor to proceed.

Purchase Orders may be issued electronically or through facsimile equipment. The electronic transmission of a purchase order shall require acknowledgement of receipt of the transmission by the Contractor. Receipt of the electronic or facsimile transmission of the Purchase Order shall constitute receipt of an order. Orders received by the Contractor after 4:00 p.m. will be considered received the following business day.

a. No handwritten signature shall be required in order for the Contract or Purchase Order to be legally enforceable.

b. The parties agree that no writing shall be required in order to make the order legally binding. The parties hereby agree not to contest the validity or enforceability of a Purchase Order or acknowledgement issued electronically under the provisions of a statute of frauds or any other applicable law relating to whether certain agreements be in writing and signed by the party bound thereby. Any Purchase Order or acknowledgement issued electronically, if introduced as evidence on paper in any judicial, arbitration, mediation, or administrative proceedings, will be admissible as between the parties to the same extent and under the same conditions as other business records originated and maintained in documentary form. Neither party shall contest the admissibility of copies of Purchase Orders or acknowledgements under either the business records exception to the hearsay rule or the best evidence rule on the basis that the order or acknowledgement were not in writing or signed by the parties. A purchase order or acknowledgment shall be deemed to be genuine for all purposes if it is transmitted to the location designated for such documents.

c. Each party will immediately take steps to verify any document that appears to be obviously garbled in transmission or improperly formatted to include re-transmission of any such document if necessary.

Purchase Orders under five thousand dollars (\$5,000) in total amount may also be made in person or by telephone using a Commonwealth Purchasing Card. When an order is placed by telephone, the Commonwealth agency shall provide the agency name, employee name, credit card number, and expiration date of the card. Contractors agree to accept payment through the use of the Commonwealth Purchasing Card.

V.7 CONTRACT-006.1 Independent Prime Contractor (Oct 2006)

In performing its obligations under the Contract, the Contractor will act as an independent contractor and not as an employee or agent of the Commonwealth. The Contractor will be responsible for all services in this Contract whether or not Contractor provides them directly. Further, the Contractor is the sole point of contact with regard to all contractual matters, including payment of any and all charges resulting from the Contract.

V.8 CONTRACT-007.01b Delivery of Services (Nov 30 2006)

The Contractor shall proceed with all due diligence in the performance of the services with qualified

personnel, in accordance with the completion criteria set forth in the Contract.

V.9 CONTRACT-007.02 Estimated Quantities (Nov 30 2006)

It shall be understood and agreed that any quantities listed in the Contract are estimated only and may be increased or decreased in accordance with the actual requirements of the Commonwealth and that the Commonwealth in accepting any bid or portion thereof, contracts only and agrees to purchase only the materials and services in such quantities as represent the actual requirements of the Commonwealth. The Commonwealth reserves the right to purchase materials and services covered under the Contract through a separate competitive procurement procedure, whenever Commonwealth deems it to be in its best interest.

V.10 CONTRACT-008.1b Warranties (Nov 30 2006)

The Contractor warrants that the Services and Developed Works will conform in all material respects to the functional specifications for the Developed Works and/or the requirements of the Contract. The warranty period for the Services and Developed Works shall be one hundred eighty (180) days from final acceptance. The Contractor shall correct any non-conformity within the warranty period specified herein.

- a. The Contractor hereby represents and warrants to the Commonwealth that the Contractor will not cause, or take any action that may directly or indirectly cause a disruption of the Commonwealth's operations.
- b. In the event of any nonconformity with the foregoing warranties, the Commonwealth will provide written notification of such nonconformity to the Contractor and the Contractor, at no cost to the Commonwealth, shall within ten (10) days notice of the nonconformity, commence work to remedy the nonconformity and shall work diligently, at no charge to the Commonwealth, until such time as the deliverable conforms, in all material respects, to the functional specifications of the Developed Works set forth in this Contract.
- c. Contractor warrants that it has the necessary legal rights, including licenses to third party products, tools or materials, to perform the Services and deliver the Developed Materials under this Contract.
- d. THE FOREGOING EXPRESS WARRANTIES ARE THE CONTRACTOR'S SOLE AND EXCLUSIVE WARRANTIES AND NO OTHER WARRANTIES, EXPRESS OR IMPLIED, SHALL APPLY, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- e. All non-expired warranties shall survive termination of the Contract.

V.11 CONTRACT-009.1a Patent, Copyright, Trademark, and Trade Secret Protection (Nov 30 2006)

- a. The Contractor shall hold the Commonwealth harmless from any suit or proceeding which may be brought by a third party against the Commonwealth, its departments, officers or employees for the alleged infringement of any United States or foreign patents, copyrights, or trademarks, or for a misappropriation of trade secrets arising out of performance of this Contract, including all work, services, materials, reports, studies, and computer programs provided by the Contractor, and in any such suit or proceeding will satisfy any final award for such infringement, including costs. The Commonwealth agrees to give Contractor prompt notice of any such claim of which it learns. Pursuant to the Commonwealth Attorneys Act 71 P.S. Section 732-101, et seq., the Office of Attorney General (OAG) has the sole authority to represent the Commonwealth in actions brought against the

Commonwealth. The OAG may, however, in its sole discretion and under the terms it deems appropriate, delegate its right of defense. If OAG delegates the defense to the Contractor, the Commonwealth will cooperate with all reasonable requests of Contractor made in the defense of such suits. No settlement which prevents the Commonwealth from continuing to use the Developed Materials as provided herein shall be made without the Commonwealth's prior written consent. In all events, the Commonwealth shall have the right to participate in the defense of any such suit or proceeding through counsel of its own choosing. It is expressly agreed by the Contractor that, in the event it requests that the Commonwealth to provide support to the Contractor in defending any such claim, the Contractor shall reimburse the Commonwealth for all expenses (including attorneys' fees, if such are made necessary by the Contractor's request) incurred by the Commonwealth for such support. If OAG does not delegate the defense of the matter, the Contractor's obligation to indemnify ceases. The Contractor will, at its expense, provide whatever cooperation OAG requests in the defense of the suit.

- b. The Contractor agrees to exercise reasonable due diligence to prevent claims of infringement on the rights of third parties. The Contractor certifies that, in all respects applicable to this Contract, it has exercised and will continue to exercise due diligence to ensure that all works produced under this Contract do not infringe on the patents, copyrights, trademarks, trade secrets or other proprietary interests of any kind which may be held by third parties. The Contractor also agrees to certify that work produced for the Commonwealth under this contract shall be free and clear from all claims of any nature.
- c. If the defense of the suit is delegated to the Contractor, the Contractor shall pay all damages and costs awarded therein against the Commonwealth. If information and assistance are furnished by the Commonwealth at the Contractor's written request, it shall be at the Contractor's expense, but the responsibility for such expense shall be only that within the Contractor's written authorization.
- d. If, in the Contractor's opinion, the products, materials, reports, studies, or computer programs furnished hereunder are likely to or do become subject to a claim of infringement of a United States patent, copyright, or trademark, or for a misappropriation of trade secret, then without diminishing the Contractor's obligation to satisfy any final award, the Contractor may, at its option and expense, substitute functional equivalents for the alleged infringing products, materials, reports, studies, or computer programs or, at the Contractor's option and expense, obtain the rights for the Commonwealth to continue the use of such products, materials, reports, studies, or computer programs.
- e. If any of the products, materials, reports, studies, or computer programs provided by the Contractor are in such suit or proceeding held to constitute infringement and the use or publication thereof is enjoined, the Contractor shall, at its own expense and at its option, either procure the right to publish or continue use of such infringing products, materials, reports, studies, or computer programs, replace them with non-infringing items, or modify them so that they are no longer infringing.
- f. If the Contractor is unable to do any of the preceding, the Contractor agrees to pay the Commonwealth:
 - (1) any amounts paid by the Commonwealth less a reasonable amount based on the acceptance and use of the deliverable;
 - (2) any license fee less an amount for the period of usage of any software; and
 - (3) the prorated portion of any service fees representing the time remaining in any period of service for which payment was made
- g. The obligations of the Contractor under this Section continue without time limit and survive the termination of this contract.

- h. Notwithstanding the above, the Contractor shall have no obligation for:
 - (1) modification of any product, service, or deliverable provided by the Commonwealth;
 - (2) any material provided by the Commonwealth to the Contractor and incorporated into, or used to prepare, a product, service, or deliverable;
 - (3) use of the product, service, or deliverable in other than its specified operating environment;
 - (4) the combination, operation, or use of the product, service, or deliverable with other products, services, or deliverables not provided by the Contractor as a system or the combination, operation, or use of the product, service, or deliverable, with any products, data, or apparatus that the Contractor did not provide;
 - (5) infringement of a non-Contractor product alone.
 - (6) the Commonwealth's distribution, marketing or use beyond the scope contemplated by the Contract; or
 - (7) the Commonwealth's failure to use corrections or enhancements made available to the Commonwealth by the Contractor at no charge.
- i. The obligation to indemnify the Commonwealth, under the terms of this Section, shall be the Contractor's sole and exclusive obligation for the infringement or misappropriation of intellectual property.

V.12 CONTRACT-009.1b Ownership Rights (Dec 12 2006)

a. Ownership of Properties

- (1) All "Developed Works" shall be owned according to the provisions set forth in this paragraph.
- (2) All software owned by the Commonwealth or its licensors ("Commonwealth Software") as of the Effective Date, shall be and shall remain the exclusive property of the Commonwealth or its licensors, and Contractor shall acquire no rights or interests in the Commonwealth Software or Tools or that of its licensors except as described in this paragraph or in another provision set forth in this Contract. The Contractor shall not use any Commonwealth Software, Commonwealth Tools or software or tools of its licensors for any purpose other than for completion of work to be performed under this Contract.

b. Definitions

- (1) Software - For purposes of this Contract, the term "software" means a collection of one or more programs, databases or microprograms fixed in any tangible medium of expression that comprises a sequence of instructions (source code) to carry out a process in, or convertible into, a form executable by an electronic computer (object code).
- (2) Data - For purposes of this Contract, the term "data" means any recorded information, regardless of form, the media on which it may be recorded, or the method of recording.

(3) Technical Data - For purposes of this Contract, the term "technical data" means any specific information necessary for the development, production or use of the Commonwealth Software.

c. Commonwealth Property - Non-Exclusive, License Grant and Restrictions

During the term of this Contract, Commonwealth grants to Contractor for the limited purpose of providing the Services covered under this Contract, a limited, nonexclusive, nontransferable, royalty-free right (subject to the terms of any third party agreement to which the Commonwealth is a party) to do the following:

- (1) Obtain access to and use of the Commonwealth Software in accordance with the terms of this Contract.
- (2) Reproduce the Commonwealth Software for archival purposes or for other purposes expressly provided for under this Contract.
- (3) Modify the Commonwealth Software consistent with the terms and conditions of this Contract provided that Contractor agrees to assign to the Commonwealth, its rights, if any, in any derivative works resulting from Contractor's modification of the Commonwealth Software. Contractor agrees to execute any documents required to evidence this assignment and to waive any moral rights and rights of attribution provided for in paragraph 106A of Title 17 of the United States Code, the Copyright Act of 1976.
- (4) Allow the Contractor's subcontractors approved by the Commonwealth to obtain access to the Commonwealth Software for the purposes of complying with the terms and conditions of this Contract; provided, however, that neither Contractor nor any of its subcontractors may decompile or reverse engineer, or attempt to decompile or reverse engineer, any of the Commonwealth Software. Commonwealth hereby represents that it has the authority to provide the license grant and rights set forth in this paragraph.
- (5) To the extent that Contractor uses Commonwealth Software, Commonwealth Tools or software or tools of its licensor, Contractor agrees to protect the confidentiality of these works and maintain these proprietary works with the strictest confidence.

d. Impact of Third Party Agreements

Subject to the terms of any third party agreement to which the Commonwealth is a party, (i) the Commonwealth shall, at no cost to Contractor, provide Contractor with access to the Commonwealth Software in the form in use by Commonwealth as of the Effective Date of this Contract and, (ii) Contractor, as part of the Services to be rendered under this Contract, shall compile and, as changes are made, update a list of all of the Commonwealth Software then in use by Contractor or any of its subcontractors in connection with Contractor's performance of the Services required by this Contract.

e. Reservation of Rights

All rights, not expressly granted here to Contractor on a nonexclusive basis, including the right to grant non-exclusive licenses and other rights are reserved by the Commonwealth.

f. Termination of Commonwealth License Grant

Upon the expiration or termination for any reason of Contractor's obligation to provide the Services under this Contract, all rights granted to Contractor in this paragraph shall immediately cease. Contractor shall, at no cost to Commonwealth, deliver to Commonwealth all of the Commonwealth Software and Tools (including any

related source code then in Contractor's possession or under its control) in the form in use as of the Effective Date of such expiration or termination. Within fifteen (15) calendar days after termination, Contractor shall provide the Commonwealth with a current copy of the list of Commonwealth Software in use as of the date of such expiration or termination. Concurrently therewith, Contractor shall destroy or erase all other copies of any of the Commonwealth Software then in Contractor's possession or under its control unless otherwise instructed by Commonwealth, in writing; provided, however, that Contractor may retain one archival copy of such Commonwealth Software and Tools, until final resolution of any actively asserted pending disputes between the Parties, such retention being for the sole purpose of resolving such disputes.

g. **Effect of License Grant Termination**

Consistent with the provisions of this paragraph, Contractor shall refrain from manufacturing, copying, marketing, distributing, or use of any Commonwealth Software or any other work which incorporates the Commonwealth Software. The obligations of this paragraph shall survive any termination of this Contract.

h. **Use of Contractor-Owned Software** All software owned by Contractor (Contractor Software) and tools owned by Contractor (Contractor Tools) prior to the Effective Date of this Contract shall be and shall remain the exclusive property of Contractor. The Commonwealth shall acquire no rights or interests in the Contractor Software or the Contractor Tools by virtue of this Contract except as set forth in this paragraph.

i. **Definition of Contractor Tools**

Contractor Tools is defined as any tools, both in object code and source code form, which Contractor has previously developed, or which Contractor independently develops or licenses from a third party, excluding any tools that Contractor creates pursuant to this Contract. Contractor Tools includes but is not limited to, methodologies, information, concepts, toolbars for maneuvering between pages, search engines, JAVA applets, and ActiveX controls.

j. **Required Reports, Records and Inventory of Contractor Tools and Contractor Software**

- (1) Contractor must provide a list of all Contractor Tools and Contractor Software to be delivered in connection with the deliverables or Developed Materials prior to commencing any work under the Contract. Contractor must also provide a list of all other Contractor Tools and Contractor Software intended to be used by Contractor to provide the services under this Contract but will not become part of or necessary for the use of the Developed Materials. All Contractor Tools and Contractor Software necessary to use deliverables or Developed Materials shall be delivered to the Commonwealth along with the license set forth in subparagraph f. Contractor may amend these lists from time to time while the Contract is being carried out or upon its completion. Any Contractor Tools or Contractor Software not included on the lists will be deemed to have been created under this Contract.
- (2) During the term of this Contract, Contractor shall maintain at its principal office books of account and records showing its actions under this Contract. Upon reasonable notice by Commonwealth, Contractor shall allow Commonwealth to inspect these records and accounts for purposes of verifying the accuracy of such accounts and records.
- (3) In the event that Contractor fails to list a Contractor Tool or Contractor Software, but is able to demonstrate that such tool or software was independently developed by Contractor prior to the Effective Date of this Contract, Contractor shall retain complete ownership of such Contractor Tool or Contractor Software that is necessary to use the deliverables or Developed Works, provided that notice is given to the Commonwealth prior to use on the Contract.

k. Expiration or Termination NonExclusive License Grant - Non-Commercial Contractor Tools and Software

Upon the expiration or termination for any reason of Contractor's obligation to provide the Services under this Contract, and at the request of Commonwealth, Contractor shall (i) grant to Commonwealth a paid-up, nonexclusive, nontransferable license to use, modify, prepare derivative works and unless Commonwealth terminates this Contract without cause, grant to third parties engaged by Commonwealth the right to use, modify, and prepare derivative works based upon all or any portion of the non-commercially available Contractor Software and the non-commercially available Contractor Tools owned by Contractor and used by Contractor in connection with the Services, the foregoing rights being granted to the extent reasonably necessary to facilitate Commonwealth's or such third party's completion of and maintenance of the Services to be provided by Contractor under this Contract immediately prior to such expiration or termination and (ii) deliver to Commonwealth the object code version of such non-commercially available Contractor Software and such non-commercially available Contractor Tools in the form used by Contractor in connection with the Services immediately prior to such expiration or termination to allow the Commonwealth to complete and maintain such work. If Commonwealth enters into a contract that allows for the use of the Contractor Software or Contractor Tools for which a license is granted under this paragraph, the Commonwealth will include a provision in that contract that limits the use of the Contractor Software or Contractor Tools as delineated in this paragraph.

l. Rules of Usage for Developed Works

- (1) If Developed Works modify, improve, or enhance application software programs or other materials generally licensed by the Contractor, then such Developed Works shall be the property of the Contractor, and Contractor hereby grants Commonwealth an irrevocable, nonexclusive, worldwide, fully paid-up license (to include source code and relevant documentation) in perpetuity to use, modify, execute, reproduce, display, perform, prepare derivative works from and distribute, within the Commonwealth, of such Developed Works. For purposes of distribution under the license grant created by this paragraph, Commonwealth includes any government agency, department, instrumentality, division, unit or other office that is part of the Commonwealth of Pennsylvania, together with the State System of Higher Education (including any of its universities), any county, borough, commonwealth, city, municipality, town, township special purpose district, or other similar type of governmental instrumentality located within the geographical boundaries of the Commonwealth of Pennsylvania. If federal funds are used in creation of the Developed Works, the Commonwealth also includes any other state government as well as the federal government.
- (2) If Developed Works modify, improve, or enhance application software or other materials not licensed to the Commonwealth by the Contractor, then such modifications, improvements and enhancements shall be the property of the Commonwealth or its licensor. To the extent Commonwealth owns the software or other materials, it hereby grants to Contractor an irrevocable, nonexclusive, worldwide, fully paid-up license to use, modify, execute, reproduce, display, perform, prepare derivative works from, and distribute copies of such Developed Works. To the extent Commonwealth has a license to the software or other materials, and to the extent that it, in its sole discretion determines it is able to do so the Commonwealth will grant to Contractor an irrevocable, nonexclusive, worldwide, fully paid-up license to use, modify, execute, reproduce, display, perform and distribute copies of such Developed Works.
- (3) If Developed Works have been funded by Commonwealth, to any extent, with either Commonwealth or federal funds, and the Developed Works do not include pre-existing materials generally licensed by the Contractor, then the Commonwealth shall have all right, title, and interest (including ownership of copyright and trademark) to such Developed Works and the Commonwealth hereby grants to Contractor an irrevocable, nonexclusive, worldwide, fully paid-up license to use, modify, execute, reproduce, display, perform, prepare derivative works from, and distribute copies of such Developed Works. The Commonwealth shall exclusively own all software products first developed under the terms of this contract by the Contractor, its subcontractors or other third party vendors that are specifically developed for, engineered and integrated into the Developed Works.

m. Copyright Ownership - Works Developed as Part of the Scope of Work for the Project, including Developed Works developed by Subcontractors, are the sole and exclusive property of the Commonwealth and shall be considered "works made for hire" under the United States Copyright Act of 1976, as amended, 17 United States Code. In the event that the Developed Works do not fall within the specifically enumerated works that constitute works made for hire under the United States copyright laws, Contractor agrees to assign and, upon their authorship or creation, expressly and automatically assigns all copyright interests, proprietary rights, trade secrets, and other right, title, and interest in and to such Developed Works to Commonwealth. Contractor further agrees that it will have its Subcontractors assign, and upon their authorship or creation, expressly and automatically assign all copyright interest, proprietary rights, trade secrets, and other right, title, and interest in and to the Developed Works to the Commonwealth. Commonwealth shall have all rights accorded an owner of copyright under the United States copyright laws including, but not limited to, the exclusive right to reproduce the Developed Works in multiple copies, the right to distribute, copies by sales or other transfers, the right to register all copyrights in its own name as author in the United States and in foreign countries, the right to prepare derivative works based upon the Creative Works and the right to display the Developed Works. The Contractor further agrees that it will include this requirement in any subcontractor or other agreement with third parties who in any way participate in the creation or development of Developed Works. Upon completion or termination of this Contract, all working papers, files and other documentation shall immediately be delivered by Contractor to the Commonwealth. Contractor warrants that the Developed Works are original and do not infringe any copyright, patent, trademark, or other intellectual property right of any third party and are in conformance with the intellectual property laws of the United States

n. Patent Ownership

(1) Contractor and its subcontractors shall retain ownership to patentable items, patents, processes, inventions or discoveries (collectively, the Patentable Items) made by the Contractor during the performance of this Contract. Notwithstanding the foregoing, the Commonwealth shall be granted a nonexclusive, nontransferable, royalty free license to use or practice the Patentable Items. Commonwealth may disclose to third parties any such Patentable Items made by Contractor or any of its subcontractors under the scope of work for the Project that have been previously publicly disclosed. Commonwealth understands and agrees that any third party disclosure will not confer any license to such Patentable Items.

(2) Contractor shall not use any computer program, code, or any works developed by or for Contractor independently of this Contract ("Pre-Existing Materials") in the performance of the Services under this Contract, without the express written consent of the Commonwealth. Any Pre-Existing Materials used by Contractor for performance of Services under this Contract without Commonwealth consent shall be deemed to be Developed Works as that term is used in this paragraph. In the event that Commonwealth provides such consent, Contractor shall retain any and all rights in such Pre-Existing Materials.

o. Federal Government Interests

It is understood that certain funding under this Contract may be provided by the federal government. Accordingly, the rights to Developed Works or Patentable Items of Contractors or subcontractors hereunder will be further subject to government rights as set forth in 37 C.F.R. paragraph 401, and other applicable statutes.

p. Usage Rights for Know-How and Technical Information

Either Party, in the ordinary course of conducting business, may use any ideas, concepts, know-how, methodologies, processes, components, technologies, algorithms, designs, modules or techniques not otherwise covered by this paragraph relating to the Services which Contractor or Commonwealth (alone or jointly with the Commonwealth) develops or learns in connection with Contractor's provision of Services to Commonwealth under this Contract.

q. Commonwealth Intellectual Property Protection

Contractor acknowledges Commonwealth's exclusive right, title and interest, including without limitation copyright and trademark rights, in and to Commonwealth Software, Commonwealth Tools and the Developed Works developed under the provisions of this paragraph, shall not in any way, at any time, directly or indirectly, do or cause to be done any act or thing contesting or in any way impairing or tending to impair any part of said right, title, and interest, and shall not use or disclose the Commonwealth Software, Commonwealth Tools, or the Developed Works without Commonwealth's written consent, which consent may be withheld by the Commonwealth for any reason. Further, Contractor shall not in any manner represent that Contractor has any ownership interest in the Commonwealth Software, Commonwealth Tools, or the Developed Works. This provision is a material part of this paragraph.

r. Contractor Intellectual Property Protection

Commonwealth acknowledges that it has no ownership rights in the Contractor Software or Contractor Tools other than those set forth in this Contract, or as may be otherwise granted in writing.

s. Source Code and Escrow Items Obligations

Simultaneously with delivery of the Developed Works to Commonwealth, Contractor shall deliver a true, accurate and complete copy of all source codes relating to the Developed Works. To the extent that the Developed Works include application software or other materials generally licensed by the Contractor, then the source code shall be placed in escrow, subject to the terms and conditions of an Escrow Agreement to be executed by the Parties and an Escrow Agent that is acceptable to the Commonwealth.

t. Contractor's Copyright Notice Obligations

Contractor will affix the following Copyright Notice to the Developed Works developed under this paragraph and all accompanying documentation: "Copyright © [year] by the Commonwealth of Pennsylvania. All Rights Reserved." This notice shall appear on all tangible versions of the Developed Works delivered under this Contract and any associated documentation. It shall also be programmed into any all Developed Works delivered hereunder so that it appears at the beginning of all visual displays of such Developed Works.

V.13 CONTRACT-010.lb Inspection and Acceptance (Oct 2006)

- a. Acceptance of Developed Materials will occur in accordance with the Deliverable Approval Plan submitted by the Contractor and approved by the Commonwealth. Upon approval of the plan by the Commonwealth the Deliverable Approval Plan becomes part of this Contract. If software or a developed system is the deliverable, the Deliverable Approval Plan must include an Acceptance Test Plan. The Acceptance Test Plan will provide for a Final Acceptance Test, and may provide for Interim Milestone Acceptance Tests. Each Acceptance Test will be designed to demonstrate that the Developed Materials conform with the functional specification for the Developed Materials, if any, and/or the requirements of this Contract. Contractor shall notify the Commonwealth when the deliverable is completed and ready for acceptance testing. The Commonwealth will not unreasonably delay commencement of acceptance testing.
- b. Contractor shall certify, in writing, to the Commonwealth when a particular Deliverable milestone, interim or final, is completed and ready for acceptance (hereinafter Acceptance). Unless otherwise agreed to by the Commonwealth, the Acceptance period shall be ten (10) business days for interim milestones and thirty (30)

days for final milestones. On or before the 10th business day for interim milestones or 30th business day for the final milestone, following receipt by the Commonwealth of Contractor's certification of completion of a particular milestone, the Commonwealth shall either: (1) provide the Contractor with Commonwealth's written conditional acceptance of the Developed Materials in the completed milestone, subject to the Commonwealth's final acceptance of the Developed Materials or (2) identify to Contractor, in writing, the failure of the Developed Materials to comply with the specifications, listing all such errors and omissions with reasonable detail.

- c. If the Developed Materials are in compliance with the specifications, then the Commonwealth shall provide the Contractor with Commonwealth's written conditional acceptance of the Developed Materials in the completed milestone. If the Developed Materials are not in compliance with the specifications, then the Commonwealth shall provide the Contractor with Commonwealth's written rejection of the Developed Materials in the completed milestone. If the Commonwealth fails to notify the Contractor in writing of any failures in the Acceptance period within the applicable Acceptance period, the Developed Materials shall be deemed accepted. Payment for Developed Materials will only be made if the Commonwealth has accepted the Developed Materials, either through written acceptance or through deemed acceptance.
- d. If the Developed Materials do not meet an accessibility standard, the Contractor must provide written justification for its failure to meet the standard. The justification must provide specific details as to why the standard has not been met. The Commonwealth may either waive the requirement as not applicable to the Commonwealth's business requirements or require that the Contractor provide an acceptable alternative. Any Commonwealth waiver of the requirement must be in writing.
- e. Upon Contractor's receipt of the Commonwealth's written notice of rejection, which must identify the reasons for the failure of the Developed Materials in a completed milestone to comply with the specifications, the Contractor shall have fifteen (15) business days, or such other time as the Commonwealth and Contractor may agree is reasonable, within which to correct all such failures, and resubmit the corrected Developed Materials, certifying to the Commonwealth, in writing, that the failures have been corrected, and that the Developed Materials have been brought into compliance with the specifications. Upon receipt of such corrected and resubmitted Developed Materials and certification, the Commonwealth shall have thirty (30) business days to test the corrected Developed Materials to confirm that they are in compliance with the specifications. If the corrected Developed Materials are in compliance with the specifications, then the Commonwealth shall provide the Contractor with Commonwealth's conditional acceptance of the Developed Materials in the completed milestone.
- f. If, in the opinion of the Commonwealth, the corrected Developed Materials still contain material failures, the Commonwealth may either:
 - (1) repeat the procedure set forth above; or
 - (2) terminate the contract.

V.14 CONTRACT-011.1a Compliance With Law (Oct 2006)

The Contractor shall comply with all applicable federal and state laws and regulations and local ordinances in the performance of the Contract.

V.15 CONTRACT-012.1 Contract Scope (Oct 2006)

- a. If the Contractor must perform work at a Commonwealth facility outside of the daily operational hours set forth by the Commonwealth, it must make arrangements with the Commonwealth to assure access to the facility and equipment. No additional payment will be made on the basis of lack of access, unless the Commonwealth fails to provide access as set out in the IFB.
- b. Except as set out in this Contract, the Contractor shall not offer for sale or provide Commonwealth agencies with any hardware or software (i.e., personal computers, file servers, laptops, personal computer packaged software, etc.). Contractor may recommend the use of tools such as hardware and software, without requiring agencies to purchase those tools. Software tools that are NOT on statewide contract will be acquired through purchase agreements, and the Contractor shall not be considered for award of such agreements if it has recommended their use.
- c. The Contractor shall review the standards set out in IT Bulletins. The Contractor shall ensure that Services procured under this Contract comply with the applicable standards. In the event such standards change during Contractor's performance, and the Commonwealth requests that Contractor comply with the changed standard, then any incremental costs incurred by Contractor to comply with such changes shall be paid for pursuant to a change order to the Contract.

V.16 CONTRACT-013.1 Environmental Provisions (Oct 2006)

In the performance of the Contract, the Contractor shall minimize pollution and shall strictly comply with all applicable environmental laws and regulations, including, but not limited to: the Clean Streams Law Act of June 22, 1937 (P.L. 1987, No. 394), as amended 35 P.S. Section 691.601 et seq.; the Pennsylvania Solid Waste Management Act, Act of July 7, 1980 (P.L. 380, No. 97), as amended, 35 P.S. Section 6018.101 et seq. ; and the Dam Safety and Encroachment Act, Act of November 26, 1978 (P.L. 1375, No. 325), as amended , 32 P.S. Section 693.1.

V.17 CONTRACT-014.1 Post-Consumer Recycled Content (Oct 2006)

Except as specifically waived by the Department of General Services in writing, any products which are provided to the Commonwealth as a part of the performance of the Contract must meet the minimum percentage levels for total recycled content as specified on the Department of General Services website at WWW.DGS.STATE.PA.US on the date of submission of the bid, proposal or contract offer.

V.18 CONTRACT-014.3 Enforcement (Oct 2006)

The Contractor may be required, after delivery of the Contract item(s), to provide the Commonwealth with documentary evidence that the item(s) was in fact produced with the required minimum percentage of post-consumer and recovered material content.

V.19 CONTRACT-015.1 Compensation (Oct 2006)

The Contractor shall be required to furnish the awarded item(s) at the price(s) quoted in the Purchase Order. All item(s) shall be delivered within the time period(s) specified in the Purchase Order. The Contractor shall be compensated only for item(s) that are delivered and accepted by the Commonwealth.

V.20 CONTRACT-015.2 Billing Requirements (Dec 5 2006)

The Contractor shall include in all of its invoices the following minimum information:

- Vendor name and "Remit to" address, including SAP Vendor number;
- Bank routing information, if ACH;
- SAP Purchase Order number;
- Delivery Address, including name of Commonwealth agency;
- Description of the supplies/services delivered in accordance with SAP Purchase Order (include purchase order line number if possible);
- Quantity provided;
- Unit price;
- Price extension;
- Total price; and
- Delivery date of supplies or services.

If an invoice does not contain the minimum information set forth in this paragraph, the Commonwealth may return the invoice as improper. If the Commonwealth returns an invoice as improper, the time for processing a payment will be suspended until the Commonwealth receives a correct invoice. The Contractor may not receive payment until the Commonwealth has received a correct invoice.

Contractors are required to establish separate billing accounts with each using agency and invoice them directly. Each invoice shall be itemized with adequate detail and match the line item on the Purchase Order. In no instance shall any payment be made for services to the Contractor that are not in accordance with the prices on the Purchase Order, the Contract, updated price lists or any discounts negotiated by the purchasing agency.

V.21 CONTRACT-015.3 Invoice Requirement – SAP Purchase Orders (Feb 2007)

Unless otherwise specified or unless the Contractor has been authorized by the Commonwealth for Electronic Invoicing, Evaluated Receipt Settlement or Vendor Self-Invoicing, the Contractor shall send an invoice itemized by purchase order line item to the address referenced on the Purchase Order promptly after the item(s) are delivered. The invoice should include only amounts due under the Purchase Order. The Purchase Order number must be included on all invoices. In addition, the Commonwealth shall have the right to require the Contractor to prepare and submit a "Work In Progress" sheet that contains, at a minimum, the tasks performed, number of hours, hourly rates and the Purchase Order or task order to which it refers.

V.22 CONTRACT-016.1 Payment (Oct 2006)

- a. The Commonwealth shall put forth reasonable efforts to make payment by the required payment date. The required payment date is: (a) the date on which payment is due under the terms of the Contract; (b) thirty (30) days after a proper invoice actually is received at the "Bill To" address if a date on which payment is due is not specified in the Contract (a "proper" invoice is not received until the Commonwealth accepts the service as satisfactorily performed); or (c) the payment date specified on the invoice if later than the dates established by (a) and (b) above. Payment may be delayed if the payment amount on an invoice is not based upon the price(s) as stated in the Contract. If any payment is not made within fifteen (15) days after the required payment date, the Commonwealth may pay interest as determined by the Secretary of Budget in accordance with Act No. 266 of 1982 and regulations promulgated pursuant thereto. Payment should not be construed by the Contractor as acceptance of the service performed by the Contractor. The Commonwealth reserves the right to conduct further testing and inspection after payment, but within a reasonable time after performance, and to reject the service if

such post payment testing or inspection discloses a defect or a failure to meet specifications. The Contractor agrees that the Commonwealth may set off the amount of any state tax liability or other obligation of the Contractor or its subsidiaries to the Commonwealth against any payments due the Contractor under any contract with the Commonwealth.

- b. The Commonwealth shall have the option of using the Commonwealth purchasing card to make purchases under the Contract or Purchase Order. The Commonwealth's purchasing card is similar to a credit card in that there will be a small fee which the Contractor will be required to pay and the Contractor will receive payment directly from the card issuer rather than the Commonwealth. Any and all fees related to this type of payment are the responsibility of the Contractor. In no case will the Commonwealth allow increases in prices to offset credit card fees paid by the Contractor or any other charges incurred by the Contractor, unless specifically stated in the terms of the Contract or Purchase Order.

V.23 CONTRACT-016.2 ACH Payments (Aug 2007)

- a. The Commonwealth will make contract payments through the Automated Clearing House (ACH). Within 10 days of award of the contract or purchase order, the contractor must submit or must have already submitted their ACH information within their user profile in the Commonwealth's procurement system (SRM).
- b. The contractor must submit a unique invoice number with each invoice submitted. The unique invoice number will be listed on the Commonwealth of Pennsylvania's ACH remittance advice to enable the contractor to properly apply the state agency's payment to the invoice submitted.
- c. It is the responsibility of the contractor to ensure that the ACH information contained in SRM is accurate and complete. Failure to maintain accurate and complete information may result in delays in payments.

V.24 CONTRACT-017.1 Taxes (Dec 5 2006)

The Commonwealth is exempt from all excise taxes imposed by the Internal Revenue Service and has accordingly registered with the Internal Revenue Service to make tax free purchases under Registration No. 23-23740001-K. With the exception of purchases of the following items, no exemption certificates are required and none will be issued: undyed diesel fuel, tires, trucks, gas guzzler emergency vehicles, and sports fishing equipment. The Commonwealth is also exempt from Pennsylvania state sales tax, local sales tax, public transportation assistance taxes and fees and vehicle rental tax. The Department of Revenue regulations provide that exemption certificates are not required for sales made to governmental entities and none will be issued. Nothing in this paragraph is meant to exempt a construction contractor from the payment of any of these taxes or fees which are required to be paid with respect to the purchase, use, rental, or lease of tangible personal property or taxable services used or transferred in connection with the performance of a construction contract.

V.25 CONTRACT-018.1 Assignment of Antitrust Claims (Oct 2006)

The Contractor and the Commonwealth recognize that in actual economic practice, overcharges by the Contractor's suppliers resulting from violations of state or federal antitrust laws are in fact borne by the Commonwealth. As part of the consideration for the award of the Contract, and intending to be legally bound, the Contractor assigns to the Commonwealth all right, title and interest in and to any claims the Contractor now has, or may acquire, under state or federal antitrust laws relating to the products and services which are the subject of this Contract.

V.26 CONTRACT-019.1 Hold Harmless Provision (Nov 30 2006)

- a. The Contractor shall hold the Commonwealth harmless from and indemnify the Commonwealth against any and

all third party claims, demands and actions based upon or arising out of any activities performed by the Contractor and its employees and agents under this Contract, provided the Commonwealth gives Contractor prompt notice of any such claim of which it learns. Pursuant to the Commonwealth Attorneys Act (71 P.S. Section 732-101, et seq.), the Office of Attorney General (OAG) has the sole authority to represent the Commonwealth in actions brought against the Commonwealth. The OAG may, however, in its sole discretion and under such terms as it deems appropriate, delegate its right of defense. If OAG delegates the defense to the Contractor, the Commonwealth will cooperate with all reasonable requests of Contractor made in the defense of such suits.

- b. Notwithstanding the above, neither party shall enter into any settlement without the other party's written consent, which shall not be unreasonably withheld. The Commonwealth may, in its sole discretion, allow the Contractor to control the defense and any related settlement negotiations.

V.27 CONTRACT-020.1 Audit Provisions (Oct 2006)

The Commonwealth shall have the right, at reasonable times and at a site designated by the Commonwealth, to audit the books, documents and records of the Contractor to the extent that the books, documents and records relate to costs or pricing data for the Contract. The Contractor agrees to maintain records which will support the prices charged and costs incurred for the Contract. The Contractor shall preserve books, documents, and records that relate to costs or pricing data for the Contract for a period of three (3) years from date of final payment. The Contractor shall give full and free access to all records to the Commonwealth and/or their authorized representatives.

V.28 CONTRACT-021.1 Default (Dec 12 2006)

- a. The Commonwealth may, subject to the Force Majeure provisions of this Contract, and in addition to its other rights under the Contract, declare the Contractor in default by written notice thereof to the Contractor, and terminate (as provided in the Termination Provisions of this Contract) the whole or any part of this Contract or any Purchase Order for any of the following reasons:
 - 1) Failure to begin work within the time specified in the Contract or Purchase Order or as otherwise specified;
 - 2) Failure to perform the work with sufficient labor, equipment, or material to insure the completion of the specified work in accordance with the Contract or Purchase Order terms;
 - 3) Unsatisfactory performance of the work;
 - 4) Failure to deliver the awarded item(s) within the time specified in the Contract or Purchase Order or as otherwise specified;
 - 5) Improper delivery;
 - 6) Failure to provide an item(s) which is in conformance with the specifications referenced in the Contract or Purchase Order;
 - 7) Delivery of a defective item;

- 8) Failure or refusal to remove material, or remove and replace any work rejected as defective or unsatisfactory;
 - 9) Discontinuance of work without approval;
 - 10) Failure to resume work, which has been discontinued, within a reasonable time after notice to do so;
 - 11) Insolvency or bankruptcy;
 - 12) Assignment made for the benefit of creditors;
 - 13) Failure or refusal within 10 days after written notice by the Contracting Officer, to make payment or show cause why payment should not be made, of any amounts due for materials furnished, labor supplied or performed, for equipment rentals, or for utility services rendered;
 - 14) Failure to protect, to repair, or to make good any damage or injury to property;
 - 15) Breach of any provision of the Contract;
 - 16) Failure to comply with representations made in the Contractor's bid/proposal; or
 - 17) Failure to comply with applicable industry standards, customs, and practice.
- b. In the event that the Commonwealth terminates this Contract or any Purchase Order in whole or in part as provided in Subparagraph a. above, the Commonwealth may procure, upon such terms and in such manner as it determines, items similar or identical to those so terminated, and the Contractor shall be liable to the Commonwealth for any reasonable excess costs for such similar or identical items included within the terminated part of the Contract or Purchase Order.
- c. If the Contract or a Purchase Order is terminated as provided in Subparagraph a. above, the Commonwealth, in addition to any other rights provided in this paragraph, may require the Contractor to transfer title and deliver immediately to the Commonwealth in the manner and to the extent directed by the Contracting Officer, such partially completed items, including, where applicable, reports, working papers and other documentation, as the Contractor has specifically produced or specifically acquired for the performance of such part of the Contract or Purchase Order as has been terminated. Except as provided below, payment for completed work accepted by the Commonwealth shall be at the Contract price. Except as provided below, payment for partially completed items including, where applicable, reports and working papers, delivered to and accepted by the Commonwealth shall be in an amount agreed upon by the Contractor and Contracting Officer. The Commonwealth may withhold from amounts otherwise due the Contractor for such completed or partially completed works, such sum as the Contracting Officer determines to be necessary to protect the Commonwealth against loss.
- d. The rights and remedies of the Commonwealth provided in this paragraph shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Contract.
- e. The Commonwealth's failure to exercise any rights or remedies provided in this paragraph shall not be construed to be a waiver by the Commonwealth of its rights and remedies in regard to the event of default or any succeeding event of default.
- f. Following exhaustion of the Contractor's administrative remedies as set forth in the Contract Controversies

Provision of the Contract, the Contractor's exclusive remedy shall be to seek damages in the Board of Claims.

V.29 CONTRACT-022.1 Force Majeure (Oct 2006)

Neither party will incur any liability to the other if its performance of any obligation under this Contract is prevented or delayed by causes beyond its control and without the fault or negligence of either party. Causes beyond a party's control may include, but aren't limited to, acts of God or war, changes in controlling law, regulations, orders or the requirements of any governmental entity, severe weather conditions, civil disorders, natural disasters, fire, epidemics and quarantines, general strikes throughout the trade, and freight embargoes.

The Contractor shall notify the Commonwealth orally within five (5) days and in writing within ten (10) days of the date on which the Contractor becomes aware, or should have reasonably become aware, that such cause would prevent or delay its performance. Such notification shall (i) describe fully such cause(s) and its effect on performance, (ii) state whether performance under the contract is prevented or delayed and (iii) if performance is delayed, state a reasonable estimate of the duration of the delay. The Contractor shall have the burden of proving that such cause(s) delayed or prevented its performance despite its diligent efforts to perform and shall produce such supporting documentation as the Commonwealth may reasonably request. After receipt of such notification, the Commonwealth may elect to cancel the Contract, cancel the Purchase Order, or to extend the time for performance as reasonably necessary to compensate for the Contractor's delay.

In the event of a declared emergency by competent governmental authorities, the Commonwealth by notice to the Contractor, may suspend all or a portion of the Contract or Purchase Order.

V.30 CONTRACT-023.1b Termination (Dec 6 2006)

a. For Convenience

(1) The Commonwealth may terminate this Contract without cause by giving Contractor thirty (30) days prior written notice (Notice of Termination) whenever the Commonwealth shall determine that such termination is in the best interest of the Commonwealth (Termination for Convenience). Any such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance under this Contract is terminated either in whole or in part and the date on which such termination becomes effective. In the event of termination hereunder, Contractor shall receive payment for the following:

- (i) all services performed consistent with the terms of the Contract prior to the effective date of termination;
- (ii) all actual and reasonable costs incurred by Contractor as a result of the termination of the Contract; and

In no event shall the Contractor be paid for any loss of anticipated profit (by the Contractor or any Subcontractor), loss of use of money, or administrative or overhead costs.

Failure to agree on any termination costs shall be a dispute handled in accordance with the Contract Controversies clause of this Contract.

(2) The Contractor shall cease work as of the date set forth in the Notice of Termination, and shall be paid only for such services as have already been satisfactorily rendered up to and including the cease work date set forth in said notice, or as may be otherwise provided for in said Notice of Termination, and for such services performed thereafter in the thirty (30) day period of termination, if such services are requested by the

Commonwealth, for the collection, assembling, and transmitting to the Commonwealth of at least all materials, manuals, magnetic media, studies, drawings, computations, maps, supplies, and survey notes including field books, which were obtained, prepared, or developed as part of the work required under this Contract.

- (3) The above shall not be deemed to limit the Commonwealth's right to terminate this Contract for any reason as permitted by the other provisions of this Contract, or under applicable law.

b. Non-Appropriation

Any payment obligation or portion thereof of the Commonwealth created by this Contract is conditioned upon the availability and appropriation of funds. When funds (state or federal) are not appropriated or otherwise made available to support continuation of performance in a subsequent fiscal year period, the Commonwealth shall have the right to terminate the Contract. The Contractor shall be reimbursed in the same manner as that described in this section related to Termination for Convenience to the extent that appropriated funds are available.

c. Default

A party may, in addition to its other rights under this Contract, terminate this Contract in whole or in part by providing written notice of default to the other party if the other party materially fails to perform its obligations under the Contract and does not cure such failure within thirty (30) days or, if a cure within such period is not practical, commence a good faith effort to cure such failure to perform within the specified period (or such longer period as the aggrieved party may specify in writing) after receipt of written notice from the aggrieved party specifying such failure. The Contracting Officer shall provide any notice of default or written cure notice for Contract terminations.

- (1) Subject to the Limitation of Liability clause of this Contract in the event the Commonwealth terminates this Contract in whole or in part as provided in this section, the Commonwealth may procure services similar to those so terminated, and the Contractor, in addition to liability for any liquidated damages, shall be liable to the Commonwealth, as the Commonwealth's sole and exclusive remedy for such default, for the difference between the Contract price for the terminated portion of the services and the actual and reasonable cost (but in no event greater than the fair market value) of producing substitute equivalent services for the terminated services, provided that the Contractor shall continue the performance of this Contract to the extent not terminated under the provisions of this section.
- (2) Except with respect to defaults of Subcontractors, the Contractor shall not be liable for any excess costs if the failure to perform the Contract arises out of causes beyond the control of the Contractor. Such causes may include, but are not limited to, acts of God or of the public enemy, fires, floods, epidemics, quarantine restrictions, strikes, work stoppages, freight embargoes, acts of terrorism, and unusually severe weather. The Contractor shall notify the Contracting Officer immediately in writing of its inability to perform because of a cause beyond the control of the Contractor.
- (3) Nothing in this section shall abridge the Commonwealth's right to suspend, debar, or take other administrative action against the Contractor.
- (4) If it is later determined that the Commonwealth erred in terminating the Contract for default, then the Contract shall be deemed to have been terminated for convenience under Subsection (a).
- (5) If this Contract is terminated as provided by this section, the Commonwealth may, in addition to any other rights provided in this Subsection, and subject to the Ownership Rights clause of this Contract, require the Contractor to deliver to the Commonwealth in the manner and to the extent directed by the Contracting Officer, such reports and other documentation as the Contractor has specifically produced or specifically acquired for the performance of such part of the Contract as has been terminated. Payment for such reports and documentation will be made consistent with the Contract.

V.31 CONTRACT-024.1 Contract Controversies (Oct 2006)

- a. In the event of a controversy or claim arising from the Contract, the Contractor must, within six months after the cause of action accrues, file a written claim with the contracting officer for a determination. The claim shall state all grounds upon which the Contractor asserts a controversy exists. If the Contractor fails to file a claim or files an untimely claim, the Contractor is deemed to have waived its right to assert a claim in any forum.
- b. The contracting officer shall review timely-filed claims and issue a final determination, in writing, regarding the claim. The final determination shall be issued within 120 days of the receipt of the claim, unless extended by consent of the contracting officer and the Contractor. The contracting officer shall send his/her written determination to the Contractor. If the contracting officer fails to issue a final determination within the 120 days (unless extended by consent of the parties), the claim shall be deemed denied. The contracting officer's determination shall be the final order of the purchasing agency.
- c. Within fifteen (15) days of the mailing date of the determination denying a claim or within 135 days of filing a claim if, no extension is agreed to by the parties, whichever occurs first, the Contractor may file a statement of claim with the Commonwealth Board of Claims. Pending a final judicial resolution of a controversy or claim, the Contractor shall proceed diligently with the performance of the Contract in a manner consistent with the determination of the contracting officer and the Commonwealth shall compensate the Contractor pursuant to the terms of the Contract.

V.32 CONTRACT-025.1 Assignability and Subcontracting (Oct 2006)

- a. Subject to the terms and conditions of this paragraph, this Contract shall be binding upon the parties and their respective successors and assigns.
- b. The Contractor shall not subcontract with any person or entity to perform all or any part of the work to be performed under this Contract without the prior written consent of the Contracting Officer, which consent may be withheld at the sole and absolute discretion of the Contracting Officer.
- c. The Contractor may not assign, in whole or in part, this Contract or its rights, duties, obligations, or responsibilities hereunder without the prior written consent of the Contracting Officer, which consent may be withheld at the sole and absolute discretion of the Contracting Officer.
- d. Notwithstanding the foregoing, the Contractor may, without the consent of the Contracting Officer, assign its rights to payment to be received under the Contract, provided that the Contractor provides written notice of such assignment to the Contracting Officer together with a written acknowledgement from the assignee that any such payments are subject to all of the terms and conditions of this Contract.
- e. For the purposes of this Contract, the term "assign" shall include, but shall not be limited to, the sale, gift, assignment, pledge, or other transfer of any ownership interest in the Contractor provided, however, that the term shall not apply to the sale or other transfer of stock of a publicly traded company.
- f. Any assignment consented to by the Contracting Officer shall be evidenced by a written assignment agreement executed by the Contractor and its assignee in which the assignee agrees to be legally bound by all of the terms and conditions of the Contract and to assume the duties, obligations, and responsibilities being assigned.

- g. A change of name by the Contractor, following which the Contractor's federal identification number remains unchanged, shall not be considered to be an assignment hereunder. The Contractor shall give the Contracting Officer written notice of any such change of name.

V.33 CONTRACT-026.1 Other Contractors (Oct 2006)

The Commonwealth may undertake or award other contracts for additional or related work, and the Contractor shall fully cooperate with other contractors and Commonwealth employees, and coordinate its work with such additional work as may be required. The Contractor shall not commit or permit any act that will interfere with the performance of work by any other contractor or by Commonwealth employees. This paragraph shall be included in the Contracts of all contractors with which this Contractor will be required to cooperate. The Commonwealth shall equitably enforce this paragraph as to all contractors to prevent the imposition of unreasonable burdens on any contractor.

V.34 CONTRACT-027.1 Nondiscrimination/Sexual Harassment Clause (Aug 2010)

The Contractor agrees:

1. In the hiring of any employee(s) for the manufacture of supplies, performance of work, or any other activity required under the contract or any subcontract, the Contractor, each subcontractor, or any person acting on behalf of the Contractor or subcontractor shall not, by reason of gender, race, creed, or color, discriminate against any citizen of this Commonwealth who is qualified and available to perform the work to which the employment relates.
2. Neither the Contractor nor any subcontractor nor any person on their behalf shall in any manner discriminate against or intimidate any employee involved in the manufacture of supplies, the performance of work, or any other activity required under the contract on account of gender, race, creed, or color.
3. The Contractor and each subcontractor shall establish and maintain a written sexual harassment policy and shall inform their employees of the policy. The policy must contain a notice that sexual harassment will not be tolerated and employees who practice it will be disciplined.
4. The Contractor and each subcontractor shall not discriminate by reason of gender, race, creed, or color against any subcontractor or supplier who is qualified to perform the work to which the contract relates.
5. The Contractor and each subcontractor shall, within the time periods requested by the Commonwealth, furnish all necessary employment documents and records and permit access to their books, records, and accounts by the contracting agency and the Bureau of Minority and Women Business Opportunities (BMWBO), for purpose of ascertaining compliance with provisions of this Nondiscrimination/Sexual Harassment Clause. Within fifteen (15) days after award of any contract, the Contractor shall be required to complete, sign and submit Form STD -21, the "Initial Contract Compliance Data" form. If the contract is a construction contract, then the Contractor shall be required to complete, sign and submit Form STD -28, the "Monthly Contract Compliance Report for Construction Contractors", each month no later than the 15th of the month following the reporting period beginning with the initial job conference and continuing through the completion of the project. Those contractors who have fewer than five employees or whose employees are all from the same family or who have completed the Form STD -21 within the past 12 months may, within the 15 days, request an exemption from the Form STD -21 submission requirement from the contracting agency.
6. The Contractor shall include the provisions of this Nondiscrimination/Sexual Harassment Clause in every subcontract so that those provisions applicable to subcontractors will be binding upon each subcontractor.

7. The Commonwealth may cancel or terminate the contract and all money due or to become due under the contract may be forfeited for a violation of the terms and conditions of this Nondiscrimination/Sexual Harassment Clause. In addition, the agency may proceed with debarment or suspension and may place the Contractor in the Contractor Responsibility File.

V.35 CONTRACT-028.1 Contractor Integrity Provisions (Aug 2010)

It is essential that those who seek to contract with the Commonwealth of Pennsylvania (“Commonwealth”) observe high standards of honesty and integrity. They must conduct themselves in a manner that fosters public confidence in the integrity of the Commonwealth procurement process.

In furtherance of this policy, Contractor agrees to the following:

1. Contractor shall maintain the highest standards of honesty and integrity during the performance of this contract and shall take no action in violation of state or federal laws or regulations or any other applicable laws or regulations, or other requirements applicable to Contractor or that govern contracting with the Commonwealth.
2. Contractor shall establish and implement a written business integrity policy, which includes, at a minimum, the requirements of these provisions as they relate to Contractor employee activity with the Commonwealth and Commonwealth employees, and which is distributed and made known to all Contractor employees.
3. Contractor, its affiliates, agents and employees shall not influence, or attempt to influence, any Commonwealth employee to breach the standards of ethical conduct for Commonwealth employees set forth in the *Public Official and Employees Ethics Act, 65 Pa.C.S. §§1101 et seq.*; the *State Adverse Interest Act, 71 P.S. §776.1 et seq.*; and the *Governor’s Code of Conduct, Executive Order 1980-18 , 4 Pa. Code §7.151 et seq .*, or to breach any other state or federal law or regulation.
4. Contractor, its affiliates, agents and employees shall not offer, give, or agree or promise to give any gratuity to a Commonwealth official or employee or to any other person at the direction or request of any Commonwealth official or employee.
5. Contractor, its affiliates, agents and employees shall not offer, give, or agree or promise to give any gratuity to a Commonwealth official or employee or to any other person, the acceptance of which would violate the *Governor’s Code of Conduct, Executive Order 1980-18 , 4 Pa. Code §7.151 et seq.* or any statute, regulation, statement of policy, management directive or any other published standard of the Commonwealth.
6. Contractor, its affiliates, agents and employees shall not, directly or indirectly, offer, confer, or agree to confer any pecuniary benefit on anyone as consideration for the decision, opinion, recommendation, vote, other exercise of discretion, or violation of a known legal duty by any Commonwealth official or employee.
7. Contractor, its affiliates, agents, employees, or anyone in privity with him or her shall not accept or agree to accept from any person, any gratuity in connection with the performance of work under the contract, except as provided in the contract.
8. Contractor shall not have a financial interest in any other contractor, subcontractor, or supplier providing services, labor, or material on this project, unless the financial interest is disclosed to the Commonwealth in writing and the Commonwealth consents to Contractor’s financial interest prior to Commonwealth execution of the contract. Contractor shall disclose the financial interest to the

Commonwealth at the time of bid or proposal submission, or if no bids or proposals are solicited, no later than Contractor's submission of the contract signed by Contractor.

9. Contractor, its affiliates, agents and employees shall not disclose to others any information, documents, reports, data, or records provided to, or prepared by, Contractor under this contract without the prior written approval of the Commonwealth, except as required by the *Pennsylvania Right-to-Know Law, 65 P.S. §§ 67.101-3104*, or other applicable law or as otherwise provided in this contract. Any information, documents, reports, data, or records secured by Contractor from the Commonwealth or a third party in connection with the performance of this contract shall be kept confidential unless disclosure of such information is:

- a.** Approved in writing by the Commonwealth prior to its disclosure; or
- b.** Directed by a court or other tribunal of competent jurisdiction unless the contract requires prior Commonwealth approval; or
- c.** Required for compliance with federal or state securities laws or the requirements of national securities exchanges; or
- d.** Necessary for purposes of Contractor's internal assessment and review; or
- e.** Deemed necessary by Contractor in any action to enforce the provisions of this contract or to defend or prosecute claims by or against parties other than the Commonwealth; or
- f.** Permitted by the valid authorization of a third party to whom the information, documents, reports, data, or records pertain; or
- g.** Otherwise required by law.

10. Contractor certifies that neither it nor any of its officers, directors, associates, partners, limited partners or individual owners has not been officially notified of, charged with, or convicted of any of the following and agrees to immediately notify the Commonwealth agency contracting officer in writing if and when it or any officer, director, associate, partner, limited partner or individual owner has been officially notified of, charged with, convicted of, or officially notified of a governmental determination of any of the following:

- a.** Commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property.
- b.** Commission of fraud or a criminal offense or other improper conduct or knowledge of, approval of or acquiescence in such activities by Contractor or any affiliate, officer, director, associate, partner, limited partner, individual owner, or employee or other individual or entity associated with:
 - (1)** obtaining;
 - (2)** attempting to obtain; or

- (3) performing a public contract or subcontract.

Contractor's acceptance of the benefits derived from the conduct shall be deemed evidence of such knowledge, approval or acquiescence.

- c. Violation of federal or state antitrust statutes.
- d. Violation of any federal or state law regulating campaign contributions.
- e. Violation of any federal or state environmental law.
- f. Violation of any federal or state law regulating hours of labor, minimum wage standards or prevailing wage standards; discrimination in wages; or child labor violations.
- g. Violation of the *Act of June 2, 1915 (P.L.736, No. 338)*, known as the *Workers' Compensation Act, 77 P.S. 1 et seq.*
- h. Violation of any federal or state law prohibiting discrimination in employment.
- i. Debarment by any agency or department of the federal government or by any other state.
- j. Any other crime involving moral turpitude or business honesty or integrity.

Contractor acknowledges that the Commonwealth may, in its sole discretion, terminate the contract for cause upon such notification or when the Commonwealth otherwise learns that Contractor has been officially notified, charged, or convicted.

11. If this contract was awarded to Contractor on a non-bid basis, Contractor must, (as required by *Section 1641 of the Pennsylvania Election Code*) file a report of political contributions with the Secretary of the Commonwealth on or before February 15 of the next calendar year. The report must include an itemized list of all political contributions known to Contractor by virtue of the knowledge possessed by every officer, director, associate, partner, limited partner, or individual owner that has been made by:

- a. Any officer, director, associate, partner, limited partner, individual owner or members of the immediate family when the contributions exceed an aggregate of one thousand dollars (\$1,000) by any individual during the preceding year; or
- b. Any employee or members of his immediate family whose political contribution exceeded one thousand dollars (\$1,000) during the preceding year.

To obtain a copy of the reporting form, Contractor shall contact the Bureau of Commissions, Elections and Legislation, Division of Campaign Finance and Lobbying Disclosure, Room 210, North Office Building, Harrisburg, PA 17120.

12. Contractor shall comply with requirements of the *Lobbying Disclosure Act, 65 Pa.C.S. § 13A01 et seq.*, and the regulations promulgated pursuant to that law. Contractor employee activities prior to or outside of formal Commonwealth procurement communication protocol are considered lobbying and subjects the Contractor employees to the registration and reporting requirements of the law. Actions by outside lobbyists on Contractor's behalf, no matter the procurement stage, are not exempt and must be reported.

13. When Contractor has reason to believe that any breach of ethical standards as set forth in law, the Governor’s Code of Conduct, or in these provisions has occurred or may occur, including but not limited to contact by a Commonwealth officer or employee which, if acted upon, would violate such ethical standards, Contractor shall immediately notify the Commonwealth contracting officer or Commonwealth Inspector General in writing.

14. Contractor, by submission of its bid or proposal and/or execution of this contract and by the submission of any bills, invoices or requests for payment pursuant to the contract, certifies and represents that it has not violated any of these contractor integrity provisions in connection with the submission of the bid or proposal, during any contract negotiations or during the term of the contract.

15. Contractor shall cooperate with the Office of Inspector General in its investigation of any alleged Commonwealth employee breach of ethical standards and any alleged Contractor non-compliance with these provisions. Contractor agrees to make identified Contractor employees available for interviews at reasonable times and places. Contractor, upon the inquiry or request of the Office of Inspector General, shall provide, or if appropriate, make promptly available for inspection or copying, any information of any type or form deemed relevant by the Inspector General to Contractor's integrity and compliance with these provisions. Such information may include, but shall not be limited to, Contractor's business or financial records, documents or files of any type or form that refers to or concern this contract.

16. For violation of any of these Contractor Integrity Provisions, the Commonwealth may terminate this and any other contract with Contractor, claim liquidated damages in an amount equal to the value of anything received in breach of these provisions, claim damages for all additional costs and expenses incurred in obtaining another contractor to complete performance under this contract, and debar and suspend Contractor from doing business with the Commonwealth. These rights and remedies are cumulative, and the use or non-use of any one shall not preclude the use of all or any other. These rights and remedies are in addition to those the Commonwealth may have under law, statute, regulation, or otherwise.

17. For purposes of these Contractor Integrity Provisions, the following terms shall have the meanings found in this Paragraph 17.

a. “Confidential information” means information that a) is not already in the public domain; b) is not available to the public upon request; c) is not or does not become generally known to Contractor from a third party without an obligation to maintain its confidentiality; d) has not become generally known to the public through a act or omission of Contractor; or e) has not been independently developed by Contractor without the use of confidential information of the Commonwealth.

b. “Consent” means written permission signed by a duly authorized officer or employee of the Commonwealth, provided that where the material facts have been disclosed, in writing, by pre-qualification, bid, proposal, or contractual terms, the Commonwealth shall be deemed to have consented by virtue of execution of this contract.

c. “Contractor” means the individual or entity that has entered into this contract with the Commonwealth, including those directors, officers, partners, managers, and owners having more than a five percent interest in Contractor.

d. “Financial interest” means:

(1) Ownership of more than a five percent interest in any business; or

(2) Holding a position as an officer, director, trustee, partner, employee, or holding any position of management.

e. “Gratuity” means tendering, giving or providing anything of more than nominal monetary value including, but not limited to, cash, travel, entertainment, gifts, meals, lodging, loans, subscriptions, advances, deposits of money, services, employment, or contracts of any kind. The exceptions set forth in the *Governor’s Code of Conduct, Executive Order 1980-18*, the *4 Pa. Code §7.153(b)*, shall apply.

f. “Immediate family” means a spouse and any unemancipated child.

g. “Non-bid basis” means a contract awarded or executed by the Commonwealth with Contractor without seeking bids or proposals from any other potential bidder or offeror.

h. “Political contribution” means any payment, gift, subscription, assessment, contract, payment for services, dues, loan, forbearance, advance or deposit of money or any valuable thing, to a candidate for public office or to a political committee, including but not limited to a political action committee, made for the purpose of influencing any election in the Commonwealth of Pennsylvania or for paying debts incurred by or for a candidate or committee before or after any election.

V.36 CONTRACT-029.1 Contractor Responsibility Provisions (Nov 2010)

For the purpose of these provisions, the term contractor is defined as any person, including, but not limited to, a bidder, offeror, loan recipient, grantee or lessor, who has furnished or performed or seeks to furnish or perform, goods, supplies, services, leased space, construction or other activity, under a contract, grant, lease, purchase order or reimbursement agreement with the Commonwealth of Pennsylvania (Commonwealth). The term contractor includes a permittee, licensee, or any agency, political subdivision, instrumentality, public authority, or other public entity in the Commonwealth.

1. The Contractor certifies, in writing, for itself and its subcontractors required to be disclosed or approved by the Commonwealth, that as of the date of its execution of this Bid/Contract, that neither the Contractor, nor any such subcontractors, are under suspension or debarment by the Commonwealth or any governmental entity, instrumentality, or authority and, if the Contractor cannot so certify, then it agrees to submit, along with its Bid/Contract, a written explanation of why such certification cannot be made.

2. The Contractor also certifies, in writing, that as of the date of its execution of this Bid/Contract it has no tax liabilities or other Commonwealth obligations, or has filed a timely administrative or judicial appeal if such liabilities or obligations exist, or is subject to a duly approved deferred payment plan if such liabilities exist.

3. The Contractor's obligations pursuant to these provisions are ongoing from and after the effective date of the Contract through the termination date thereof. Accordingly, the Contractor shall have an obligation to inform the Commonwealth if, at any time during the term of the Contract, it becomes delinquent in the payment of taxes, or other Commonwealth obligations, or if it or, to the best knowledge of the Contractor, any of its subcontractors are suspended or debarred by the Commonwealth, the federal government, or any other state or governmental entity. Such notification shall be made within 15 days of the date of suspension or debarment.

4. The failure of the Contractor to notify the Commonwealth of its suspension or debarment by the Commonwealth, any other state, or the federal government shall constitute an event of default of the Contract with the Commonwealth.

5. The Contractor agrees to reimburse the Commonwealth for the reasonable costs of investigation incurred by

the Office of State Inspector General for investigations of the Contractor's compliance with the terms of this or any other agreement between the Contractor and the Commonwealth that results in the suspension or debarment of the contractor. Such costs shall include, but shall not be limited to, salaries of investigators, including overtime; travel and lodging expenses; and expert witness and documentary fees. The Contractor shall not be responsible for investigative costs for investigations that do not result in the Contractor's suspension or debarment.

6. The Contractor may obtain a current list of suspended and debarred Commonwealth contractors by either searching the Internet at <http://www.dgs.state.pa.us/> or contacting the:

Department of General Services
Office of Chief Counsel
603 North Office Building
Harrisburg, PA 17125
Telephone No: (717) 783-6472
FAX No: (717) 787-9138

V.37 CONTRACT-030.1 Americans with Disabilities Act (Oct 2006)

- a. Pursuant to federal regulations promulgated under the authority of The Americans With Disabilities Act, 28 C.F.R. Section 35.101 et seq., the Contractor understands and agrees that it shall not cause any individual with a disability to be excluded from participation in this Contract or from activities provided for under this Contract on the basis of the disability. As a condition of accepting this contract, the Contractor agrees to comply with the "General Prohibitions Against Discrimination," 28 C.F.R. Section 35.130, and all other regulations promulgated under Title II of The Americans With Disabilities Act which are applicable to all benefits, services, programs, and activities provided by the Commonwealth of Pennsylvania through contracts with outside contractors.
- b. The Contractor shall be responsible for and agrees to indemnify and hold harmless the Commonwealth of Pennsylvania from all losses, damages, expenses, claims, demands, suits, and actions brought by any party against the Commonwealth of Pennsylvania as a result of the Contractor's failure to comply with the provisions of Subparagraph a. above.

V.38 CONTRACT-032.1 Covenant Against Contingent Fees (Oct 2006)

The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure the Contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty, the Commonwealth shall have the right to terminate the Contract without liability or in its discretion to deduct from the Contract price or consideration, or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

V.39 CONTRACT-033.1 Applicable Law (Oct 2006)

This Contract shall be governed by and interpreted and enforced in accordance with the laws of the Commonwealth of Pennsylvania (without regard to any conflict of laws provisions) and the decisions of the Pennsylvania courts. The Contractor consents to the jurisdiction of any court of the Commonwealth of Pennsylvania and any federal courts in Pennsylvania, waiving any claim or defense that such forum is not convenient or proper. The Contractor agrees that any such court shall have in personam jurisdiction over it, and consents to service of process in any manner authorized by Pennsylvania law.

V.40 CONTRACT- 034.1b Integration (Nov 30 2006)

This Contract, including the Invitation for Bids, the Contractor's bid, all referenced documents, and any Purchase Order constitutes the entire agreement between the parties. No agent, representative, employee or officer of either the Commonwealth or the Contractor has authority to make, or has made, any statement, agreement or representation, oral or written, in connection with the Contract, which in any way can be deemed to modify, add to or detract from, or otherwise change or alter its terms and conditions. No negotiations between the parties, nor any custom or usage, shall be permitted to modify or contradict any of the terms and conditions of the Contract. No modifications, alterations, changes, or waiver to the Contract or any of its terms shall be valid or binding unless accomplished by a written amendment signed by both parties.

V.41 CONTRACT-034.2b Order of Precedence - IFB (Dec 6 2006)

In the event there is a conflict among the documents comprising this Contract, the Commonwealth and the Contractor agree on the following order of precedence: the Contract; the IFB; and the Contractor's Bid in Response to the IFB.

V.42 CONTRACT-035.1b Changes (Oct 2006)

- a. At any time during the performance of the Contract, the Commonwealth or the Contractor may request a change to the Contract. Contractor will make reasonable efforts to investigate the impact of the change request on the price, timetable, specifications, and other terms and conditions of the Contract. If the Commonwealth is the requestor of the change, the Contractor will inform the Commonwealth if there will be any charges for the Contractor's services in investigating the change request prior to incurring such charges. If the Commonwealth and the Contractor agree on the results of the investigation and any necessary amendments to the Contract, the Contract will be modified to take into account the agreed changes and the change will be implemented. If the parties cannot agree upon the results of the investigation or the necessary amendments to the Contract, the contracting officer may unilaterally order the work to be done, and the matter will be handled in accordance with CONTRACT CONTROVERSIES clause of this Contract. The change request will be evidenced by a Purchase Order issued by the Commonwealth. No work may begin on the change request until the Contractor has received the Purchase Order.
- b. Changes outside the scope of this Contract shall be accomplished through the Commonwealth's normal procurement procedures, and may result in an amended Contract or a new contract. No payment will be made for services outside of the scope of the Contract for which no amendment has been executed, prior to the provision of the services.

V.43 CONTRACT-036.1 Background Checks (Oct 2006)

- a. The Contractor must, at its expense, arrange for a background check for each of its employees, as well as for the employees of its subcontractors, who will have access to Commonwealth IT facilities, either through on site or remote access. Background checks are to be conducted via the Request for Criminal Record Check form and procedure found at <http://www.psp.state.pa.us/psp/lib/psp/sp4-164.pdf>. The background check must be conducted prior to initial access by an IT employee and annually thereafter.
- b. Before the Commonwealth will permit a contract employee (IT Employee) access to Commonwealth facilities, the Contractor must provide written confirmation to the office designated by the agency that the background check has been conducted. If, at any time, it is discovered that an IT Employee has a criminal record that includes a felony or misdemeanor involving terroristic threats, violence, use of a lethal weapon, or breach of trust/fiduciary responsibility; or which raises concerns about building, system, or personal security, or is

otherwise job-related, the Contractor shall not assign that employee to any Commonwealth facilities, shall remove any access privileges already given to the employee, and shall not permit that employee remote access to Commonwealth facilities or systems, unless the agency consents, in writing, prior to the access being provided. The agency may withhold its consent at its sole discretion. Failure of the Contractor to comply with the terms of this paragraph may result in default of the Contractor under its contract with the Commonwealth.

- c. The Commonwealth specifically reserves the right of the Commonwealth to conduct background checks over and above that described herein.

V.44 CONTRACT-037.1a Confidentiality (Oct 2006)

- a. The Contractor agrees to guard the confidentiality of the Commonwealth with the same diligence with which it guards its own proprietary information. If the Contractor needs to disclose all or part of project materials to third parties to assist in the work or service performed for the Commonwealth, it may do so only if such third parties sign agreements containing substantially the same provisions as contained in this Section. The Commonwealth agrees to protect the confidentiality of Contractor's confidential information. In order for information to be deemed to be confidential, the party claiming confidentiality must designate the information as "confidential" in such a way as to give notice to the other party. The parties agree that such confidential information shall not be copied, in whole or in part, except when essential for authorized use under this Contract. Each copy of such confidential information shall be marked by the party making the copy with all confidentiality notices appearing in the original. Upon termination or cancellation of this Contract or any license granted hereunder, the receiving party will return to the disclosing party all copies of the confidential information in the receiving party's possession, other than one copy, which may be maintained for archival purposes only. Both parties agree that a material breach of these requirements may, after failure to cure within the time frame specified in this Contract, and at the discretion of the non-breaching party, result in termination for default.

- b. The obligations stated in this Section do not apply to information:

- (1) already known to the recipient at the time of disclosure other than through the contractual relationship;
- (2) independently generated by the recipient and not derived from the information supplied by the disclosing party;
- (3) known or available to the public, except where such knowledge or availability is the result of unauthorized disclosure by the recipient of the proprietary information;
- (4) disclosed to the recipient without a similar restriction by a third party who has the right to make such disclosure; or
- (5) required to be disclosed by the recipient by law, regulation, court order, or other legal process.

- c. There shall be no restriction with respect to the use or disclosure of any ideas, concepts, know-how, or data processing techniques developed alone or jointly with the Commonwealth in connection with services provided to the Commonwealth under this Contract.

V.45 CONTRACT-037.1b Confidentiality (Oct 2006)

The Contractor agrees to protect the confidentiality of the Commonwealth's information. The Commonwealth agrees to protect the confidentiality of Contractor's confidential information. In order for information to be deemed to be

confidential, the party claiming confidentiality must designate the information as "confidential" in such a way as to give notice to the other party. The parties agree that such confidential information shall not be copied, in whole or in part, except when essential for authorized use under this Contract. Each copy of such confidential information shall be marked by the party making the copy with all notices appearing in the original. Upon termination or cancellation of this Contract or any license granted hereunder, the receiving party will return to the disclosing party all copies of the confidential information in the receiving party's possession, other than one copy, which may be maintained for archival purposes only. Both parties agree that a material breach of these requirements may, after failure to cure within the time frame specified in this Contract, and at the discretion of the non-breaching party, result in termination for default.

The obligations stated in this Section do not apply to information:

- i. already known to the recipient at the time of disclosure;
- ii. independently generated by the recipient and not derived from the information supplied by the disclosing party;
- iii. known or available to the public, except where such knowledge or availability is the result of unauthorized disclosure by the recipient of the proprietary information;
- iv. disclosed to the recipient without a similar restriction by a third party who has the right to make such disclosure; or
- v. required to be disclosed by the recipient by law, regulation, court order, or other legal process.

V.46 CONTRACT-038.1 Limitation of Liability (Nov 30 2006)

- a. Except to the extent that the required Contractor insurance coverage under the Insurance clause exceeds the Contract value, the Contractor's liability to the Commonwealth under this Contract shall be limited to the value of this Contract. This limitation will apply, except as otherwise stated in this Section, regardless of the form of action, whether in contract or in tort, including negligence. This limitation does not, however, apply to damages for:
 - (1) bodily injury;
 - (2) death;
 - (3) intentional injury;
 - (4) damage to real property or tangible personal property for which the Contractor is legally liable; or
 - (5) the Contractor's indemnity of the Commonwealth for patent, copyright, trade secret, or trademark protection.
- b. In no event will the Contractor be liable for lost profits, lost revenue or lost savings. Except as set out in Virus; Malicious, Mischievous or Destructive Programming clause the Contractor will not be liable for damages due to lost records or data, unless otherwise specified in the RFP. Notwithstanding the foregoing, the Contractor shall provide reasonable assistance to the Commonwealth in restoring such lost records or data to their most recent

backup copy.

V.47 CONTRACT-039.1 Virus; Malicious, Mischievous or Destructive Programming (Oct 2006)

- a. Notwithstanding any other provision in this Contract to the contrary, the Contractor shall be liable for any damage to any data and/or software owned or licensed by the Commonwealth if the Contractor or any of its employees, subcontractors or consultants introduces a virus or malicious, mischievous or destructive programming into the Commonwealth's software or computer networks and has failed to comply with the Commonwealth software security standards. The Commonwealth must demonstrate that the Contractor or any of its employees, subcontractors or consultants introduced the virus or malicious, mischievous or destructive programming. The Contractor's liability shall cease if the Commonwealth has not fully complied with its own software security standards.
- b. The Contractor shall be liable for any damages incurred by the Commonwealth including, but not limited to, the expenditure of Commonwealth funds to eliminate or remove a computer virus or malicious, mischievous or destructive programming that result from the Contractor's failure to take proactive measures to keep virus or malicious, mischievous or destructive programming from originating from the Contractor or any of its employees, subcontractors or consultants through appropriate firewalls and maintenance of anti-virus software and software security updates (such as operating systems security patches, etc.).
- c. In the event of destruction or modification of software, the Contractor shall eliminate the virus, malicious, mischievous or destructive programming, restore the Commonwealth's software, and be liable to the Commonwealth for any resulting damages.
- d. The Contractor shall be responsible for reviewing Commonwealth software security standards and complying with those standards.
- e. The Commonwealth may, at any time, audit, by a means deemed appropriate by the Commonwealth, any computing devices being used by representatives of the Contractor to provide services to the Commonwealth for the sole purpose of determining whether those devices have anti-virus software with current virus signature files and the current minimum operating system patches or workarounds have been installed. Devices found to be out of compliance will immediately be disconnected and will not be permitted to connect or reconnect to the Commonwealth network until the proper installations have been made.
- f. The Contractor may use the anti-virus software used by the Commonwealth to protect Contractor's computing devices used in the course of providing services to the Commonwealth. It is understood that the Contractor may not install the software on any computing device not being used to provide services to the Commonwealth, and that all copies of the software will be removed from all devices upon termination of this Contract.
- g. The Commonwealth will not be responsible for any damages to the Contractor's computers, data, software, etc. caused as a result of the installation of the Commonwealth's anti-virus software or monitoring software on the Contractor's computers.

V.48 CONTRACT-051.1 Notice (Dec 2006)

Any written notice to any party under this Contract shall be deemed sufficient if delivered personally, or by facsimile, telecopy, electronic or digital transmission (provided such delivery is confirmed), or by a recognized overnight courier service (e.g., DHL, Federal Express, etc.) with confirmed receipt, or by certified or registered United States mail, postage prepaid, return receipt requested, and sent to following:

- a. If to the Contractor: the Contractor's address as recorded in the Commonwealth's Supplier Registration system.
- b. If to the Commonwealth: the address of the Issuing Office as set forth on the Contract.

V.49 CONTRACT-052.1 Right to Know Law (Feb 2010)

a. The Pennsylvania Right-to-Know Law, 65 P.S. §§ 67.101-3104, (“RTKL”) applies to this Contract. For the purpose of these provisions, the term “the Commonwealth” shall refer to the contracting Commonwealth agency.

b. If the Commonwealth needs the Contractor’s assistance in any matter arising out of the RTKL related to this Contract, it shall notify the Contractor using the legal contact information provided in this Contract. The Contractor, at any time, may designate a different contact for such purpose upon reasonable prior written notice to the Commonwealth.

c. Upon written notification from the Commonwealth that it requires the Contractor’s assistance in responding to a request under the RTKL for information related to this Contract that may be in the Contractor’s possession, constituting, or alleged to constitute, a public record in accordance with the RTKL (“Requested Information”), the Contractor shall:

1. Provide the Commonwealth, within ten (10) calendar days after receipt of written notification, access to, and copies of, any document or information in the Contractor’s possession arising out of this Contract that the Commonwealth reasonably believes is Requested Information and may be a public record under the RTKL; and
2. Provide such other assistance as the Commonwealth may reasonably request, in order to comply with the RTKL with respect to this Contract.

d. If the Contractor considers the Requested Information to include a request for a Trade Secret or Confidential Proprietary Information, as those terms are defined by the RTKL, or other information that the Contractor considers exempt from production under the RTKL, the Contractor must notify the Commonwealth and provide, within seven (7) calendar days of receiving the written notification, a written statement signed by a representative of the Contractor explaining why the requested material is exempt from public disclosure under the RTKL.

e. The Commonwealth will rely upon the written statement from the Contractor in denying a RTKL request for the Requested Information unless the Commonwealth determines that the Requested Information is clearly not protected from disclosure under the RTKL. Should the Commonwealth determine that the Requested Information is clearly not exempt from disclosure, the Contractor shall provide the Requested Information within five (5) business days of receipt of written notification of the Commonwealth’s determination.

f. If the Contractor fails to provide the Requested Information within the time period required by these provisions, the Contractor shall indemnify and hold the Commonwealth harmless for any damages, penalties, costs, detriment or harm that the Commonwealth may incur as a result of the Contractor’s failure, including any statutory damages assessed against the Commonwealth.

g. The Commonwealth will reimburse the Contractor for any costs associated with complying with these provisions only to the extent allowed under the fee schedule established by the Office of Open Records or as otherwise provided by the RTKL if the fee schedule is inapplicable.

h. The Contractor may file a legal challenge to any Commonwealth decision to release a record to the public with the Office of Open Records, or in the Pennsylvania Courts, however, the Contractor shall indemnify the Commonwealth for any legal expenses incurred by the Commonwealth as a result of such a challenge and shall hold

the Commonwealth harmless for any damages, penalties, costs, detriment or harm that the Commonwealth may incur as a result of the Contractor's failure, including any statutory damages assessed against the Commonwealth, regardless of the outcome of such legal challenge. As between the parties, the Contractor agrees to waive all rights or remedies that may be available to it as a result of the Commonwealth's disclosure of Requested Information pursuant to the RTKL.

i. The Contractor's duties relating to the RTKL are continuing duties that survive the expiration of this Contract and shall continue as long as the Contractor has Requested Information in its possession.

SERVICES

Invitation for Bid

ISSUING OFFICE

**COMMONWEALTH OF PENNSYLVANIA
Office for Information Technology
Bureau of IT Procurement
506 Finance Building
Harrisburg, PA 17120**

IFB NUMBER

6100022889

DATE OF ISSUANCE

July 26, 2012

TWO-WAY RADIO COMMUNICATIONS EQUIPMENT AND ACCESSORIES

CALENDAR OF EVENTS

The Commonwealth will make every effort to adhere to the following schedule:

Activity	Responsibility	Date
<p>Deadline to submit Questions via email to: Sheryl Kimport ra-OITpurchases@pa.gov with the subject line "IFB 6100022889.</p> <p>Excel template for questions attached to bid.</p>	Contractor(s)	August 3, 2012 at 4:00 pm
<p>Answers to Potential Bidder questions posted to DGS Website @ www.emarketplace.pa.gov & the PA Supplier Portal @ www.pasupplierportal.state.pa.us no later than this date.</p>	Issuing Office	August 9, 2012 at 4:00 pm
<p>Please monitor the above Websites for all communications regarding the IFB.</p>	Potential Contractor(s)	On going
<p>Proposal must be received by the Issuing Office at: Electronic Bid (for SRM Electronic Bids) Large Price Listing Deliver to: (Sheryl Kimport), Bureau of IT Procurement c/o Commonwealth Mail Processing Center 2 Technology Park (<i>rear</i>) Attn: IT Procurement 506 Finance Harrisburg PA 17110 Attn: Sheryl Kimport</p>	Contractor(s)	August 29, 2012 at 3:30 PM

Statement of Work

CONTRACT SCOPE

The Commonwealth of Pennsylvania (COPA), Office of Administration (OA), is soliciting bids for Contractor(s) to provide equipment, service, maintenance and accessories for Two Way Radios. This Invitation to Bid will be a multiple award bid encompassing the entire Commonwealth.

TERM OF CONTRACT

The term of the contract will commence on the Effective Date and will end in 5 years.

MULTIPLE AWARD METHOD OF AWARD

Award will be made to responsible and qualified bidders offering the greatest discount in each category from the manufacturer's most current (at time of bid opening), official, **dated** price lists or priced catalog, which must accompany bid IN ELECTRONIC FORMAT. See "Price Lists" below.

OPEN ENROLLMENT

This contract will be a multiple awarded contract, with open enrollment. Every 6 (six) months (January and July), new Contractors may seek to be added to the list of qualified equipment providers and existing pre-qualified equipment providers may seek to become qualified for additional equipment categories. In order to be considered, Contractors must submit their proposal online to ensure receipt by the Commonwealth on or BEFORE 4:00pm. EST. on the last Commonwealth business day of each 6 (six) month period. Those proposals received on or before this deadline will be evaluated beginning on the 1st business day of the month which follows. Proposals received after the deadline (will be held for the next evaluation cycle. There will be no exceptions to this process. The evaluation and contract execution cycles will take an estimated 30 business days.

OPTION FOR SEPARATE COMPETITIVE BIDDING PROCEDURE

The Department of General Services reserves the right to purchase supplies covered under this Contract through a separate procurement whenever the department deems it to be in the best interest of the Commonwealth. The right will generally be exercised only when a specific need for a large quantity of the supply exists or the price offered is significantly lower than the Contract price.

ELIGIBILITY

STATEMENT OF WORK - TWO-WAY RADIO COMMUNICATIONS EQUIPMENT AND ACCESSORIES

In order to be eligible for award, a bidder must be the manufacturer of the offered products or an authorized distributor of the manufacturer's products. If a bidder is not the manufacturer of the offered products, the bidder must include with its bid a letter signed by the manufacturer, or the manufacturer's authorized representative, stating that the bidder is authorized to sell the manufacturer's products and that the manufacturer will honor any responsibilities under the warranty for products sold by the bidder, if the bidder fails to perform such service. The required information must be submitted with your bid. Failure to submit the required documentation will result in the rejection of the bid.

DISTRIBUTION AND SERVICE CENTERS

It is recommended that manufacturers have adequate cooperating distributor outlets or service centers throughout the Commonwealth from which products may be procured, serviced (including warranty service work), or installed as necessary by various Using Agencies of the Commonwealth,. Bidders must submit with their bids a list of names and addresses of their cooperating distributors and/or service centers. This list will be complete including address, contact person, telephone number, fax number, email address, etc. and be suitable for reproduction. The required information must be submitted with your bid. Failure to submit the required documentation will result in the rejection of the bid

COMPLIANCE

Equipment shall comply with all applicable Federal Communications Commission (FCC) requirements. All components shall meet or exceed all applicable Electronic Industries Alliance (EIA) standards. Upon request by a Using Agency of the Commonwealth, awarded vendors may be required to submit a Certificate of Conformance to the Agency for adherence and compliance to FCC requirements and/or EIA standards applicable to the equipment or components being purchased.

SINGLE DISCOUNT

Only one price list discount will be accepted per product category per OEM.

PRICE LISTS

Price lists must be submitted with the bid proposal for the sole purpose of providing a reference to the various items on the price list and the manufacturer's price for each item. **Bidders will be required to supply the entire manufacturer's product line, including services if applicable, and within the confines of the categories as defined by the Commonwealth in this invitation for bid.** Any reference to terms or conditions, which may appear on a Price List, Quotation, Statement of Work or any other documentation received from the contractor, will not be a part of the contract with the supplier and will be disregarded by the Commonwealth as null and void. Contractors agree to supply the Commonwealth with copies of the Price List/Catalog as requested by using agencies. All price lists/catalogs must be identified in bid proposal with Price List/Catalog Name and Date.

If catalogs cannot be uploaded due to size limitation of the SRM system, Contractors must furnish an electronic copy via CD-ROM or Flash drive in Microsoft Office or Microsoft Office-compatible format. Any contractors furnishing CD-ROM or flash drives must deliver

STATEMENT OF WORK - TWO-WAY RADIO COMMUNICATIONS EQUIPMENT AND ACCESSORIES

the electronic copy by the bid opening date and time. The electronic copy must be a mirror image of the paper copy and any spreadsheets must be in Microsoft Excel. The Offerors may not lock or protect any cells or tabs. Vendors may bid on any or all of the categories listed on the bid. The required information must be submitted with your bid. Failure to submit the required documentation will result in the rejection of the bid.

If available, contractors should also identify and submit with their bid a link to their price lists/catalog, if available through an Internet Website. This is an accepted form of an electronic catalog.

PRODUCT UPDATE OPTION AND APPLICATION

The awarded vendor may update their contract price list twice (2) a year during the months of January and July to reflect the introduction of new products, manufacturer's price increases, as well as deletions and substitutions of a manufacturer's discontinued items. The percentage discounts may not be decreased during the term of the contract and any extensions or renewals thereto.

Vendors shall submit a letter or email the appropriate Commodity Specialist requesting review and approval of any update(s), to include updates to price lists. The vendor shall itemize all changes in a clear concise fashion. It is the responsibility of the vendor to adequately justify changes. All requests for updates to a contract price lists, must be accompanied by the manufacturer's latest published price list along with a letter of verification from the manufacturer. If approved, a contract change notice will be issued adding the updated price list to contract. It will then be the responsibility of the awarded vendors to distribute the price list to the users.

At no time are awarded vendors allowed to unilaterally change the products or prices on contract. The Commodity Specialist must grant approval. Orders will be monitored to ensure compliance.

WARRANTY

The bid price shall include a minimum one-year warranty covering parts and labor against defects in workmanship and materials for all equipment purchased under this contract. For depot repair for small/portable devices, the bidder will be responsible for all pick-up, shipping and return charges. Depot returns are to be completed with 3 business days of receipt of warranted equipment. For all fixed station equipment purchased under this contract, bidders must include a one-year on-site warranty. During the warranty period, the vendor shall repair or replace defective components and/or units at no cost to the Commonwealth. The warranty period shall commence upon acceptance of the items by the Commonwealth.

ON SITE WARRANTY SERVICE

STATEMENT OF WORK - TWO-WAY RADIO COMMUNICATIONS EQUIPMENT AND ACCESSORIES

Bidders must have the capability, either directly or through the manufacturer or a manufacturer's representative, to perform on-site warranty service (warranty is defined as the standard provided by the manufacturer for the period of time indicated in the contract). On-site services must be completed by the end of the next business day.

QUALITY AND RELIABILITY

The awarded Contractors must perform quality repairs to all equipment maintained under this agreement. After equipment is serviced, the equipment must perform in an efficient manner with a minimum amount of down time. 90-Day (Rolling) Repetitive Service: If a single asset requires three (3) service calls for any service issues within a 90-day rolling time period, the Contractor will be required to notify the agency to discuss the issues and make suggestions as to what should be done with the device. If the cause of excessive service calls is determined to be due to an operator error, misuse, or abuse by the Commonwealth, associated repair time will not be a factor in determining satisfactory machine performance. Also, COPA will discuss repetitive failures caused by a known equipment manufacturing defect with the awarded Contractor.

COPA will require contractors to provide new, non-refurbished parts. Replacement parts must be made available for at least three (3) years after the warranty expiration. If a product has reached the end of life and new parts are not readily available, the Commonwealth realizes refurbished parts will be the only option.

All new and refurbished parts will be covered under additional warranty by the contractor for a minimum of 180 days after installation or longer if provided by the parts manufacturer. COPA will permit the permanent "Swap-Out" of contract covered equipment. "Swap-Out" is defined as the permanent replacement of the total unit with total component replacement. A "Swap-Out" permanent replacement will only take place in the event that it is agreed upon by both the Agency and Contractor that a "Swap-Out" is in the best interest of COPA.

The awarded contractors must apply all Original Equipment Manufacturer (OEM) mandatory engineering changes to all contract covered equipment, at no cost to COPA and restore all contract covered equipment to original functionality, as defined by the OEM.

For equipment requiring internal software or middleware, the awarded Contractor must have the skills required to reload all software so that COPA equipment is restored to the level of operability and/or network connectivity that existed prior to the equipment failure. Prior to reloading any software, the Contractor must verify the process with the using agency, as an agency may choose to have this function performed by their personnel. The Contractor must not install any software, on any COPA equipment, that is not licensed to COPA.

SERVICES

STATEMENT OF WORK - TWO-WAY RADIO COMMUNICATIONS EQUIPMENT AND ACCESSORIES

Bidders may offer to provide additional related services in conjunction with the equipment items they are offering to supply to the Commonwealth under this Contract (“Ancillary Services”). **However, any Ancillary Services offered must be: (1) expressly authorized in the original IFB/Contract, (2) directly related to the delivery, installation or normal use of the product or component parts purchased, (3) limited to the actual product or component parts purchased, and (4) initiated/ordered at the time of product purchase. Stand-alone services and services for products not purchased from this supply Contract, including existing equipment for which component parts from this contract are purchased, are *not* within the scope of this Contract. The Department of General Services reserves the right to determine which Ancillary Services shall be included in any contract.**

Ancillary services authorized in the Invitation To Bid for this Contract may include, but are not limited to, the following:

- Maintenance
- Training
- Relocation of Equipment
- Customization – any modification to a Contract item to meet Purchaser-specific requirements.
- Extended Warranty (only for products/component parts purchased from the contract)
- Post Warranty Support and Maintenance Service (only for products/component parts purchased from the contract)
- Installation – Installation as used in this Contract is limited to delivery in place with no permanent attachment to the real property. Installation of component parts into existing equipment of the Purchaser is permitted. This Contract may not be used to purchase initial equipment for installation in new construction. However, fastening a product to an existing building floor, wall, ceiling or roof which can later be removed without damaging the building and connecting to existing electrical, plumbing and HVAC fixtures is permitted. Installation which involves the process of building, altering, repairing, improving or demolishing a structure or building or other improvements of any kind to any real property are defined by law to be construction activities and are not permitted for this Contract. Installation and construction activities for purchasers that are governmental entities, including the Using Agencies, are subject to certain laws regarding public construction, which may include but are not limited to:
 - a. The Pennsylvania Prevailing Wage Act, *43 P.S. Sections 165-1 et seq.* The Secretary of Labor and Industry will determine any applicable wage rates by each craft or work classification needed to perform the Contract installation for a government unit.
 - b. The Steel Products Procurement Act, *73 P.S. §§ 1881-1887*, and the Trade Practices Act, *71 P. S. § 773.101 et seq.*, which place restrictions upon the source of certain steel, cast iron and aluminum products allowed to be used in the performance of public agency contracts.
 - c. The Separations Act of 1913, *71 P.S. § 1618 (and 53 P.S. § 1003 for municipalities)*, which requires the solicitation of separate bids and the award of separate contracts

STATEMENT OF WORK - TWO-WAY RADIO COMMUNICATIONS EQUIPMENT AND ACCESSORIES

where design/specifications are developed for more than one type of electrical, plumbing or HVAC work.

- d. Any additional laws, regulations or policies that may apply to the installation, including but not limited to performance security, payment bonding, insurance and progress/prompt payment requirements.

COSTARS - At the time a quote is requested, the COSTARS Purchaser shall inform the suppliers of any applicable laws and requirements. Failure by the COSTARS Purchaser to do so, however, does not eliminate or otherwise affect the applicability of the laws and requirements to the purchase. COSTARS Purchasers may not use this contract to avoid applicable legal requirements. It is the responsibility of each COSTARS Purchaser (and their legal counsel) to determine what legal requirements or limitations apply and whether or not this contract is appropriate for a particular purchase.

For such Ancillary Services, the Awarded Vendor and the Using Agencies shall negotiate the applicable services and prices and the Agencies will request a written and signed quote from the Awarded Vendor, which will be attached to the Purchase Order (PO) for the equipment. Agencies requiring these Ancillary Services will procure them via a PO using a statement of work. These services are over and above the services already built into the equipment bid prices. These services and their associated prices will not be a factor in bid evaluation and award of the contract; however, bidders may submit a list of services they wish to provide and their costs. If it is not possible to submit pricing, as may be the case with certain installation services, bidders may note which services they will provide and the actual price will be negotiated between the Awarded Vendor and the Using Agency and attached to the PO in the form of a quote from the Vendor. The Commonwealth expressly reserves the right to restrict the Ancillary Services which can be procured under the Contract(s) and not to include any services if either the price(s) is (are) unacceptable or the services are outside of the acceptable scope of Ancillary Services. Any price updates for these Ancillary Services are subject to the "Update Option" clause.

TECHNICIANS

All Technicians assigned to repair, fix or service any COPA equipment, must have a minimum of five (5) years demonstrated experience and be certificated by the OEM in order to provide maintenance. The Commonwealth reserves the right to audit technician qualifications at any time during the course of the contract.

DELIVERIES

STATEMENT OF WORK - TWO-WAY RADIO COMMUNICATIONS EQUIPMENT AND ACCESSORIES

All deliveries shall be F.O.B. Destination to any Using Agency within the Commonwealth of Pennsylvania. All articles ordered from this contract shall be delivered within a reasonable time, not to exceed thirty (30) calendar days after receipt of order unless otherwise agreed to, in writing, by the Department of General Services. All deliveries against the contract shall be securely packaged so as to avoid breakage or damage in accordance with standard industry practice.

USER MANUALS

User manuals and operating instructions must be provided with each piece of equipment. Delivery is considered complete if these requirements is met by delivery one (1) copy of each required manual or if there are web manuals or a tutorial is available online.

TRAINING

Training, up to 4 hours, related to purchased and installed equipment will be provided to the Commonwealth at no cost.

NEW PRODUCTS, SERVICES AND NEW TECHNOLOGIES

The bidder must insure that the Commonwealth will continually be made aware of new innovations and “state-of-the-art” technologies. Education on products, services and technologies must be provided to the Commonwealth. Websites, Newsletters, user groups and e-mail are an acceptable forms of training.

MANAGEMENT INFORMATION REPORTS

Account reports are required to be submitted to the Issuing Officer on a quarterly basis in an electronic format or through web access. Quarters will be by calendar year.

Report Requirements:

- 1. Bidders are required to use the template provided by DGS
- 2. Report Due Date: The Bidder is to provide all reports no later than 10 days after the end of the applicable reporting period
- 3. Reports may be added or deleted as required by the Department of General Services.

FINANCIAL CAPABILITIES

Describe your company’s financial stability and economic capability to perform the contract requirements. If your company is a publically traded company, please provide a link to your financial records on your company’s website; otherwise, provide three (3) years of your company’s financial documents such as audited financial statements or recent tax returns (e.g. Balance sheets, profit and loss statements). Financial capability information submitted in response to this IFB will be exempt from public records disclosure under 65 P.S. § 67.708(b)(26).

The Issuing Office reserves the right to request additional information which, in the Issuing Office’s opinion, is necessary to assure that the Contractor’s competence, number of qualified

STATEMENT OF WORK - TWO-WAY RADIO COMMUNICATIONS EQUIPMENT AND ACCESSORIES

employees, business organization, and financial resources are adequate to perform according to the IFB.

The Issuing Office may make investigations as deemed necessary to determine the ability of the Contractor to perform the Project, and the Contractor shall furnish to the Issuing Office all requested information and data. The Issuing Office reserves the right to reject any proposal if the evidence submitted by, or investigation of, such Contractor fails to satisfy the Issuing Office that such Contractor is properly qualified to carry out the obligations of the IFB and to complete the Project as specified.

RESTRICTIONS

Any equipment purchased that is intended to be installed or provisioned on the PA Statewide Radio Network, PA-STARNET , per Management Directive 245.15, needs to be approved by the Office of Public Safety Radio Services.

Any deployment of radio equipment requiring FCC Licensing Approvals must be coordinated through the Office of Public Safety Radio per Management Directive 245.15.

Purchase of unlicensed microwave equipment is restricted to the Office of Public Safety Radio Services.

EXCEPTIONS AND APPROVALS

If an agency needs to purchase new equipment that will be intended to be installed or provisioned on the Statewide Radio Network, they must coordinate their request through the Office of Administration, Office of Public Safety Radio.

Robert Barnham
Interoperability Coordinator, Information Policy Specialist
Office of Public Safety Radio Services
717-772-8005
rbarnham@state.pa.us

INQUIRIES

STATEMENT OF WORK - TWO-WAY RADIO COMMUNICATIONS EQUIPMENT AND ACCESSORIES

Direct all inquiries to
Sheryl Kimport | IT Commodity Specialist
Governor's Office of Administration | Office for Information Technology
Bureau of IT Procurement
506 Finance Building | Harrisburg, PA 17120
E-mail: RA-OITPurchases@pa.gov

******Complete as required and attach electronically to Bid******

COSTARS Program Questionnaire (**Attach to your bid**)

COSTARS Program Small Bus Cert (**Attach to your bid**)

Domestic Workforce Utilization Certification (**Attach to your bid**)

Bidder's Qualifications (**Attach to your bid**)

STD-168 (must be completed even if no participation) (**Attach to your bid**)

Financials (**Attach to your bid**)

Distribution and Service Centers Listing (**Attach to your bid**)

Letter of Authorization from OEM's (**Attach to your bid**)

Manufacturer Discount Sheet (**Attach to your bid**)

State of Manufacture Chart (**Attach to your bid**)

Specifications for Bid 6100017908

Questions Template (**Refer to page 2**)

Specifications for bid 6100017908

1. New 1000 (one thousand) Gallon Liquid Propane Storage Tank

- A. Aboveground 1000 gallon liquid propane gas tank, supplied in accordance with NFPA 30 and NFPA 58 requirements.
 - 1. Unit, including alarm contacts, shall be in compliance with UL 142.
 - 2. Single wall construction
 - 3. Horizontally mounted
 - 4. Cylindrical shape
 - 5. Lockable fuel cap.

2. New Chain Link Fence & Gate

- A. Fabricator Qualifications: Continuing member of the Chain Link Fence Manufacturer Institute (CLFMI).
- B. Product Compatibility: Provide the chain link fence component products of one manufacturer.
- C. Acceptable Manufacturers:
 - 1. Anchor Fence, Inc.
 - 2. United States Steel; CYCLONE Fence.
 - 3. Allied Fence Products.
 - 4. Or equal.

CHAIN LINK FABRIC

- a) Galvanized Fabric: No. 9 gauge galvanized steel wire having a hot-dipped zinc (Class 1) coating of 1.2 ounce per square foot of wire surface. Fabric interwoven in a 2 inch mesh with top and bottom selvage edges both twisted and barbed. Fabric shall conform to ASTM A 392.
- b) Galvanized Barbed Wire: Three lines of steel wire with a Class 3 galvanized coating per ASTM A 121. Barbed wire consists of two No. 12-1/2 gauge stranded line wires, with No. 14 gauge round wire barbs in a four-point pattern on 3 inch centers.
- c) Galvanized Tension Wire: No. 7 gauge marcelled wire conforming to ASTM A 824 and galvanized according to ASTM A 824 Type II zinc-coating (Class 2) at 1.20 ounces per sq. ft.

FRAME WORK AND GATES

- a) Galvanizing: Ferrous metal elements of the fence frame and accessories shall receive zinc (Grade E) coating by the hot dip process after fabrication. Metal coated to 1.8 oz. of zinc coating per square foot of surface, in a smooth finish, free from dross, uncoated spots and foreign materials, in accordance with ASTM A 123.
- b) Frame Work: Roll-formed shapes or tubular members with zinc hot-galvanized coating according to ASTM A 123, and comprised of the following components:
 - 1. Intermediate (Line) Posts: Nominal 2-1/2 inch roll formed shapes or tubular members fabricated from 50,000 psi

minimum yield strength steel and weighing 3.12 lbs. per ft., or 2-1/2 inch schedule 40 at 3.65 per ft.

2. End, Pull and Corner Posts: Nominal 3 inch roll formed shapes or tubular members fabricated from 50,000 psi minimum yield strength steel and weighing 5.10-lbs. per ft., or 3 inch schedule 40 at 5.79 lbs. per ft.
3. Gate Posts: Nominal 3-1/2 inch steel pipe or tubular members fabricated from 30,000 psi minimum yield strength steel and weighing 9.10 lbs. per ft.
4. Post Braces: Nominal 1-5/8 inch steel pipe weighing 2.27 lbs. per ft. minimum, with 3/8 inch diameter truss rod and adjustable take-up device. Provide two brace assemblies at each corner post and one brace assembly at each end and gate post.
5. Top Rail, Intermediate, and Bottom Rail: Nominal 1-5/8 inch steel pipe weighing 2.27 lbs. per ft. minimum.
6. Barbed Wire Supporting Arms: Designed for three strands and of sufficient strength to withstand without failure, 200 lbs. downward pull at the end of the arm.
7. Post Tops: Where barbed wire supporting arms are not required cover post ends with pressed steel or malleable iron, weather tight caps designed to permit passage of top rail, as required.
8. Stretcher Bars: One piece 3/16 x 3/4 inch bar of length equal to full height of fabric. Provide one bar for each gate and end post and two for each corner and pull post. Provide 1/2 inch wide stretcher bar bands spaced not over 14 inches O.C. to secure stretcher bars to posts.

NOTE: Bottom of posts set not less than 36 inches in concrete base. Space line posts a maximum of ten feet on center.

c) Post Setting Concrete: Minimum 3,000 psi concrete as specified in Section 03300.

d) Swing Type Gate: Fabricated of nominal 1-7/8 inch tubular horizontal and vertical members and truss members assembled by welding. Provide the same fabric as fence and install with stretcher bars and bar ties at 14 inches O.C. Provide diagonal cross bracing of 3/8 inch diameter adjustable length truss rods. Attach gate hardware with rivets or by other means, which will provide security against removal. Gate hardware as follows:

1. Hinges: Pressed steel or malleable iron to suit gate size, non-lift-off type, and offset to permit 180 degree swing. Provide one pair (top and bottom) per gate leaf.
2. Latch: Forked or plunger-bar type to permit operation either side of gate. Provide padlock eye as integral part of latch. Provide gate stops for pair of gates designed to accept drop rod or plunger bar.
3. Keeper: Provide keeper for each gate leaf that will hold gate leaf in open position until manually released.

3. Grounding and Bonding of Electrical Systems and Equipment

- A. Grounding system installation to be in compliance with UL 467 and NFPA 70 requirements
- B. Product Compatibility:
 - 1. Bare Copper Conductors: Comply with the following:
 - a) Solid Conductors: ASTM B 3.
 - b) Assembly of Stranded Conductors: ASTM B 8.
 - c) Tinned Conductors: ASTM B 33.
 - 2. Connectors: Comply with the following:
 - a) IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items
 - b) Bolted Connectors: Bolted-pressure-type connectors, or compression type
 - c) Welded Connectors: Exothermic-welded type, in kit form, and selected per manufacturer written instructions
- C. Above Ground
 - 1. For ground rings and interconnection of internal and external ground rings, #2 AWG or larger is required. Solid copper wire is permitted only. Internal ground ring and all external conductors must be bare.
 - 2. For grounding of equipment and miscellaneous objects, green insulated #2 AWG stranded copper wire or #2 AWG bare tinned solid copper wire is required, except where specifically noted. All insulation is to be THHN rated.
 - 3. #2 AWG bare tinned solid copper wire is to be used to connect tower guys to the ground rods (if applicable).
- D. Below Ground
 - 1. Rings shall be bare tinned solid copper wire #2 AWG, minimum. All wire connected to ring shall be #2 AWG bare tinned solid copper wire.
 - 2. The new ground system will be installed using Bentonite clay.
 - a) The Bentonite material will be installed in a slurry mix according to the manufacturer's recommendations.
 - b) Approximately 3" of Bentonite will encapsulate and surround the ground conductor on all sides.
 - c) Bentonite will be used to encapsulate all ground rings, all buried interconnecting ring to ring ground conductors and all ring to external equipment ground conductors.
 - 3. All ground conductors will be buried a minimum of 30" below the graded surface or below the frost line, whichever is deeper. All ground rods will be installed with a distance between rods of 2-times the length of the rod. Installation of up to (40) new 5/8"x10' ground rods will be required.
- E. Test-Wells
 - 1. Two Test-Wells will be installed per site. One Test-Well will be installed within the shelter ring at a point furthest from the tower ground ring. The second Test-Well will be installed off of a ground stub connected to the tower ring. Each Test-Well will consist of a minimum 8" diameter PVC pipe with screw on cap. The top of the ground conductor within the Test -Well is to be no more than 12" below finished surface level to allow access. The Test-Well ground conductor will be positioned within the well in a position allowing

access and measurement by a technician using a clamp style resistance meter.

Bidder's Qualifications

Respond to the following and attach to your bid submittal

1. Did Submitter violate any of the contractor integrity provisions in connection with the submission of its offer or any contract negotiations?

YES NO

2. In the last 4 years, has Submitter's officers, directors, associates, partners, or individual owners been charged with or convicted of, any misdemeanor or felony?

YES NO

3. Are you an established manufacturer or an authorized manufacturer's dealer having at least 5 years of experience selling or servicing the Items covered by the Contract.

YES NO

4. Are your installation and service personnel certified by the OEM for installation and repair, where applicable?

YES NO

SIGNATURE

DATE

COMPANY NAME

Item No	Radio Equipment Category		Manufacturer	Price List ID & Date	%Discount from List
	Mobile Devices and Accessories				
1		Portable Hand Held Radios			
2		Vehicular Radios			
3		Other 2-way Radios and Accessories			
4		Mobile Antennas and Amplifiers			
5		Mobile Mounts and Power			
6		Mobile Radio Batteries and Chargers			
7		Device Protection and Carry Cases			
8		Mobile Radio Service Equipment			
	Fixed Station				
9		Two-Way Radio Control Stations			
10		Two-Way Radio Consoles			
11		Two-Way Radio Base Stations			
12		Two-Way Radio Repeaters			
13		Accessories and Service Equipment			
14		Public Safety Interoperable Communications Equipment			
15		Voice and Data Switching Equipment			
	Testing Equipment				
16		RF Antenna and Equipment Analyzers			
17		Spectrum Analyzers			
18		Frequency Counters			
19		Service Monitors			
20		Signal Generators			
21		Other 2-way radio test equipment			
	Network Infrastructure and Remote Communication Sites				
	Construction to install is NOT authorized. Refer to section: SERVICES and COSTARS.				
22		Antenna Structures, Towers and Poles			
23		Telecommunication Enclosures and Shelters			
24		Communication Site Hardware			
25		Communication Site Power Systems			
			Generator Systems		
			Back up Batteries for DC Power Supplies		
			Wind and Solar Systems		
26		*Remote Site Liquid Propane Storage Tanks			
27		Transmission Lines and Accessories			
28		Base Site Antennas and Filters			
			Radio Communications		
			Microwave		
			Broadband		
29		Bi-Directional Amplifiers			
30		Remote Facility Monitoring , Security and Surveillance Equipment			
31		*Remote Facility Chain Link Fence and Gate			
32		*Grounding and Bonding of Electrical Systems and Equipment			
		*Note: Specifications attached to bld.			

COSTARS PROGRAM QUESTIONNAIRE

If your firm is awarded a Contract, does it agree to sell the awarded items/services at the same prices and/or discounts, and in accordance with the contractual terms and conditions, to registered COSTARS Members who elect to participate in the contract? If your answer is "YES", your firm agrees to pay the applicable Administrative Fee (\$1500 or \$500 for Qualified Small Businesses) upon contract award and each contract renewal date.

Please Answer: YES _____ NO _____

If you are asserting that your firm is a Qualified Small Business, have you completed, signed and included with your bid the required Department of General Services Small Business Certification form? **Appendix C**

Please Answer: YES _____ NO _____

Corporate or Legal Entity Name

Signature/Date

Printed Name/Title

**DEPARTMENT OF GENERAL SERVICES
SMALL BUSINESS CERTIFICATION**

If the Bidder/Offeror is a Qualified Small Business, the Bidder/Offeror must complete, sign and submit the following certification with its Bid/Proposal.

I, _____, being the _____ [title] of _____ [Contractor], ("Contractor") do hereby certify and represent to the Commonwealth of Pennsylvania ("Commonwealth") that:

- 1. Contractor is not a subsidiary of another firm. Yes No
- 2. Contractor is not dominant in its field of operation. Yes No
- 3. Contractor employs no more than 100 full-time or full-time equivalent employees. Yes No

Total Number of Full-time or Full-time Equivalent Employees on Payroll _____

- 4. Contractor earned less than \$20,000,000 in gross annual revenues (\$25,000,000 in gross annual revenues for those businesses in the information technology sales or service business) in each of its last two fiscal years. Yes No

Gross Annual Revenues in its Last Fiscal Year \$ _____
 Gross Annual Revenues in its Preceding Fiscal Year \$ _____

- 5. If Contractor is a new business (less than 1 year), Contractor has an approved business plan by the Small Business Development Center or by a Pennsylvania Enterprise Center authorized by the Minority Development Agency of the United States Department of Commerce. Yes No

- 6. The information and certifications provided by Contractor are material and important and will be relied upon by the Commonwealth in awarding the contract. The Department shall treat any misstatement as fraudulent concealment of the true facts punishable under Section 4904 of the Pennsylvania Crimes Code, Title 18, of Pa. Consolidated Statutes.

Attest or Witness:

Corporate or Legal Entity's Name

Signature/Date

Signature/Date

Printed Name/Title

Printed Name/Title

DOMESTIC WORKFORCE UTILIZATION CERTIFICATION

Each proposal will be scored for its commitment to use the domestic workforce in the fulfillment of the contract. Maximum consideration will be given to those offerors who will perform the contracted direct labor exclusively within the geographical boundaries of the United States. Those who propose to perform a portion of the direct labor outside of the United States will receive a correspondingly smaller score for this criterion.

In order to be eligible for any consideration for this criterion, offerors must complete and sign the following certification. This certification will be included as a contractual obligation when the contract is executed. Failure to complete and sign this certification will result in no consideration being given to the offeror for this criterion.

I, _____ [title] of _____ [name of Contractor] a _____ [place of incorporation] corporation or other legal entity, ("Contractor") located at _____ [address], having a Social Security or Federal Identification Number of _____, do hereby certify and represent to the Commonwealth of Pennsylvania ("Commonwealth") (Check **one** of the boxes below):

All of the direct labor performed within the scope of services under the contract will be performed exclusively within the geographical boundaries of the United States.

OR

_____ percent (____%) [Contractor must specify the percentage] of the direct labor performed within the scope of services under the contract will be performed within the geographical boundaries of the United States. Please identify the direct labor performed under the contract that will be performed outside the United States: _____

[Use additional sheets if necessary]

The Department of General Services [or other purchasing agency] shall treat any misstatement as fraudulent concealment of the true facts punishable under Section 4904 of the *Pennsylvania Crimes Code*, Title 18, of Pa. Consolidated Statutes.

Attest or Witness:

Corporate or Legal Entity's Name

Signature/Date

Signature/Date

Printed Name/Title

Printed Name/Title

STATE OF MANUFACTURE CHART

THIS FORM MUST BE COMPLETED AND RETURNED WITH THE BID

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

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

<u>ITEM NUMBER</u>	<u>NAME OF MANUFACTURER</u>	<u>STATE (OR FOREIGN COUNTRY) OF MANUFACTURE</u>
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█
█	█	█

BIDDER'S RESIDENCY

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

Correct Address:

█
█
█

QUESTIONS
Two-Way Radio Communications Equipment and Accessories
6100017908

Offeror Information:	
Offeror Name	
Offeror Mailing Address	
Offeror Website	
Offeror Contact Person	
Contact Person's Phone Number	
Contact Person's Facsimile Number	
Contact Person's E-Mail Address	

Question #	IFB Page #	IFB Section Reference	Question
1			
2			
3			
4			
5			
6			
7			

QUESTIONS
Two-Way Radio Communications Equipment and Accessories
6100017908

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Offeror Contact Person	
Contact Person's Phone Number	
Contact Person's Facsimile Number	
Contact Person's E-Mail Address	

Question #	IFB Page #	IFB Section Reference	Question
8			
9			
10			
11			
12			
13			
14			

QUESTIONS
Two-Way Radio Communications Equipment and Accessories
6100017908

Offeror Information:	
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Question #	IFB Page #	IFB Section Reference	Question
15			
16			
17			
18			
19			
20			
21			

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Question #	IFB Page #	IFB Section Reference	Question
22			
23			
24			
25			
26			
27			
28			

QUESTIONS
Two-Way Radio Communications Equipment and Accessories
6100017908

Offeror Information:	
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Offeror Website	
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Contact Person's Phone Number	
Contact Person's Facsimile Number	
Contact Person's E-Mail Address	

Question #	IFB Page #	IFB Section Reference	Question
29			
30			
31			
32			
33			
34			
35			

QUESTIONS
Two-Way Radio Communications Equipment and Accessories
6100017908

Offeror Information:	
Offeror Name	
Offeror Mailing Address	
Offeror Website	
Offeror Contact Person	
Contact Person's Phone Number	
Contact Person's Facsimile Number	
Contact Person's E-Mail Address	

Question #	IFB Page #	IFB Section Reference	Question
36			
37			
38			
39			
40			
41			
42			

QUESTIONS
Two-Way Radio Communications Equipment and Accessories
6100017908

Offeror Information:	
Offeror Name	
Offeror Mailing Address	
Offeror Website	
Offeror Contact Person	
Contact Person's Phone Number	
Contact Person's Facsimile Number	
Contact Person's E-Mail Address	

Question #	IFB Page #	IFB Section Reference	Question
43			
44			
45			
46			
47			
48			
49			

QUESTIONS
Two-Way Radio Communications Equipment and Accessories
6100017908

Offeror Information:	
Offeror Name	
Offeror Mailing Address	
Offeror Website	
Offeror Contact Person	
Contact Person's Phone Number	
Contact Person's Facsimile Number	
Contact Person's E-Mail Address	

Question #	IFB Page #	IFB Section Reference	Question
50			

Questions & Answers
 Supplement Two Way Radio Equipment and Services
 IFB 6100034581

#	IFB Page Number	IFB Section Reference	Question	Answer
1	n/a	n/a	List of Items, Schedule of Requirements, Scope of Work, Terms of Reference, Bill of Materials required.	All IFB documents can be located by logging on to the PA Supplier Portal: https://pasupplierportal.state.pa.us/irj/portal/anonymous
2	n/a	n/a	Soft Copy of the Tender Document through email.	All IFB documents can be located by logging on to the PA Supplier Portal: https://pasupplierportal.state.pa.us/irj/portal/anonymous
3	n/a	n/a	Names of countries that will be eligible to participate in this tender.	Anyone can participate who meets the qualifications and specifications as described in the IFB.
4	n/a	n/a	Information about the Tendering Procedure and Guidelines	Anyone can participate who meets the qualifications and specifications as described in the IFB.
5	n/a	n/a	Estimated Budget for this Purchase	At this time the Commonwealth cannot divulge this information.
6	n/a	n/a	Any Extension of Bidding Deadline?	The bids are due on Monday, July 6, 2015 by 12:00 noon.
7	n/a	n/a	Any Addendum or Pre Bid meeting Minutes?	There are no addendums or pre bid meeting minutes surrounding this supplement IFB.
8	n/a	n/a	How were the awards determined (by highest discount by item number, highest discount by manufacturer?)	Awards are made to all suppliers who bid on this IFB.

Questions & Answers
 Supplement Two Way Radio Equipment and Services
 IFB 6100034581

#	IFB Page Number	IFB Section Reference	Question	Answer
9	n/a	n/a	Was wondering if the two-way radio contract has opened yet for new applicants? If it is open, where would I go to start the application process?	All IFB documents can be located by logging on to the PA Supplier Portal: https://pasupplierportal.state.pa.us/irj/portal/anonymous
10				
11				

Question #	IFB Page #	IFB Section Reference	Question	Answer
	(If Known)	(If Known)	(Required)	(Required)
1			Specifications.docx. The specifications do not appear to be the correct one for this bid. Can you check and see if there has been a mistake made on this document?	This document is only for fencing, propane storage and grounding & bonding electrical systems and equipment tanks.
2			Please clarify the information you are looking for under the "Item Number" column of the State of Manufacture Chart. Is this the description of the product that we are proposing or is this for a category description such as "Two Way Radio"?	Please insert the item category in the "Item Number" field on the State Of Manufacture Chart. Add additional lines as necessary for additional manufactures in each item category.
3			New 1000 gallon liquid propane storage tank. New chain link fence and gate. Grounding and bonding of electrical systems and equipment. None of these items are Two-Way Radio Communication Equipment and Accessories. How do we know what radio equipment to bid if the specifications do not list any radio equipment or specifications? We do manufacture and sell two-way radio equipment (we are on your current state contract), but do not sell the specified items listed above.	This bid is for Two Way Radio Equipment, accessories, services, prefabricated structures or towers. There is only incidental construction allowed. If an agency needs a structure or tower, specifications will be developed by that agency to fit the need of that particular requirement. All list prices should be in your pricing catalog. The Manufacture's Discount Sheet is to be in MS Excel and must be completed. Catalogs can be in any acceptable MS or Adobe format. There is no requirement to bid on all categories.
4	1	State of Manufacture Chart	Please clarify the information you are looking for under the "Item Number" column of the State of Manufacture Chart. Is this the description of the product that we are proposing or is this for a category description such as "Two Way Radio"?	Refer to Question #2
5		Pricing	We have several Two-Way Radio Products. Can we upload our 2011 Price Book electronically using the My Notes tab or should we just send you a CD?	You may do either. Ensure the CD must arrive on or before the bid due date.

6		Help Desk	Is there a hotline for your Help Desk that we can call to make sure we have provided all the information needed to submit our bid prior to the due date?	<p>Feel free to contact the Issuing Officer listed in the bid for questions or contact the supplier help desk to obtain assistance call the Customer Services Call Center at (717) 346-2676 (Harrisburg area) or (877) 435-7363 (toll free) and follow the menu prompts or send an e-mail to one of the addresses below: Supplier Registration: RA-PSC_Supplier_Requests@state.pa.us Bidding Help & eAlerts: srmhelp@state.pa.us Be advised the Issuing Officer can not review your bid for completeness prior to electronic submission.</p>
7		Questions	How do we get answers to our questions?	Questions will be posted to eMarketplace as the Issuing Officer responds to the questions. Ensure you visit the bid often to updates and subscribe to eAlerts.
8		61000117908 Std-168 Form	Is there any penalty if we don't use an MBE/WBE subcontractor or unable to name potential MBE/WBE subcontractors at the time we submit our bid?	No penalty if you do not use MBE/WBE subcontractor for this IFB bid.
9	PAGE 4 2 way radio and accessories		Format is excel, my catalog will be in Adobe? Is this correct	The Manufacture's Discount Sheet is be in MS Excel and must be completed. Catalogs can be in any acceptable MS or Adobe format.
10			If I am doing a percent discount on all our products. Do I reference the particular category as a % discount off all items. Also, can I have a column for list price, and a column showing the % discount for the state when submitting excel price list electronically??	1. Yes 2. All list prices should be in your pricing catalog.
11			Does a vendor need to bid all categories to qualify for the IFB Bid?	No, the is no requirement to bid on all categories.
12			Also, STD-168, MBE, WBE. We are neither. Would I only complete the top portion if we are neither?	Ensure you complete and return the form even if you do not have any MBE/WBE participation.

13	PAGE 4 2 way radio and accessories		Regarding Distribution and Service Centers Listing. What info is required for Dealers?	Include specific locations and services provided at those locations.
14	Page 11 (checklist item)		What is the letter of Authorization from OEM's? Do you have a format for us to follow? Please let me know what is needed, or has to be included in this letter.	The Letter of Authorization, from the OEM, authorizes your company to sell/distribute its products.
15	General	Terms and Conditions	Are we able to make any changes to the contract T's & C's or must we accept without modification?	Changes/Modifications to the Commonwealth Terms and Conditions are not allowed.
16	Checklist item		1. What is the manufacturers discount sheet? 2. Is that the excel pricelist with discount?	This is your price sheet. This is correct.
17			My firm is interested in providing bids to provide equipment, service, maintenance and accessories for the TWO-WAY radio contract, solicitation #6100017908. More specifically the towers, equipment shelters and generators. However, I cannot locate any specifications for these items. Is a project manual available with these specifications? I have located specifications for propane tanks, chain link fence and the grounding and bonding of electrical systems through the PA Supplier Portal. Please let me know how I can obtain the needed specifications. Thank you in advance for your help with this.	This bid is for prefabricated structures or towers. There is only incidental construction allowed. If an agency needs a structure or tower, specifications will be developed by that agency to fit the need of that particular requirement.
19	Page #4	IFB Two Way Radio SOW_6100017908	Distribution and Service Centers - Since the specification states this will be an Open Enrollment Contract (per page #3) will the Manufacturer or the Authorized Distributor of the Manufacture's Products be allowed to update - add &/or delete cooperating distributor &/or service centers as needed.	Yes, please refer the section "Product Update Option and Application"
20	Page #5	IFB Two Way Radio SOW_6100017908	On-Site Warranty Service - Unrealistic to expect in all cases that on-site services MUST be completed by the end of the next business day as there are many variables involved with supporting wireless voice and data communication systems. It is realistic to expect a service provider to be on-site by the next business day. Please re-evaluate this item for clarification.	The Commonwealth will not revise this requirement.
21			Is any preference taken into consideration when making awards for PA based manufacturers &/or authorized distributors (i.e. those companies that have an actual store front, service center, or manufacturing facility)?	There is no preference provided to PA manufacturers or distributors.
22	General	Terms and Conditions	Are we able to make any changes to the contract T's & C's or must we accept without modification?	Refer to Question #15.

23	8	TRAINING	<p>Can the Department of General Services provide additional clarification of this requirement? Is this training applicable only based on a specific type of equipment procurement, such as terminal products, <u>and</u> a minimum quantity purchased? Can various training delivery mechanisms (e.g., instructor-led, online, etc.) be used to satisfy this requirement, as appropriate?</p>	<p>1. Yes, training is required to be provided for all equipment purchased. Various training delivery mechanisms may be used. Refer to the section "Services"</p>
24	6100017908	Form STD - 168	<p>What should be put in the Bid Base amount if we are bidding on multiple items or services?</p>	<p>Bid Base equals total contract amount.</p>
25	6100017908	Small Business Certif. Form	<p>Question one and two are negative questions. Butler Mech is not a subsidiary of another form so do we answer YES? Same for Question # 2</p>	<p>DGS is not able to respond to your quest as we do not know the particular situation of your company.</p>