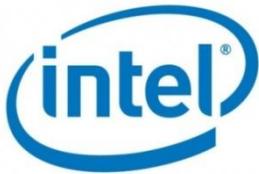


Intel® Server Board S2600CW Family

Intel® Server Chassis P4304XXMFEN2/P4304XXMUXX Family

Spares/Accessories List and Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server Board S2600CW and the Intel® Server Chassis P4304XXMFEN2/P4304XXMUXX Family.



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Intel® Server Boards and Systems

Revision History

June '13	Rev 0.3	Initial Release
Nov 13	Rev 0.5	updates to descriptions and format
Sept 14	Rev 1.0	final
Nov'14	Rev 1.21	updated pictures and chassis contents; updated MM# for DBS2600CW2; cosmetic edits
August'15	Rev 1.41	Updated chapter 1.2 cabling guide and DBS2600CW2 MM#

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1. System Product Order Codes

1.1 Product Descriptions – Overview

The Intel® Server Boards S2600CW Family is mainstream server boards supporting up to two Intel® Xeon E5-2600 v3 Processors. These boards are standard SSI EEB (12"x13") designed for the small/medium business and embedded markets. These will be offered as board-only and 4U validated chassis provided separately both by Intel and 3rd parties. For more details, please refer to the below tables.

1.1.1 Board Feature Comparison

	DBS2600CW2	DBS2600CWT	DBS2600CW2S	DBS2600CWTS
CPU Support	2x E5-2600 v3, TDP Up to 145W max			
DIMM Support	Up to 16x DDR4 RDIMM 2133MHz			
PCIe support (with 2 CPU's installed)	Four x16 Gen3, one x8 Gen3 and one x4 Gen2		Three x16 Gen3, two x8 Gen3 and one x4 Gen2	
Onboard Storage	<ul style="list-style-type: none"> - 8x 6Gb/s SATA (via 2 mini-SAS HD connectors) from PCH - 2x 6Gb/s SATA from PCH 		<ul style="list-style-type: none"> - 8 SATA (via 2 mini-SAS HD connectors) from PCH - 2x 6Gb/s SATA from PCH - 8x 12Gb/s SAS from LSI3008 	
Onboard NICs	2x 1GbE RJ45	2x 10GbE RJ45	2x 1GbE RJ45	2x 10GbE RJ45

1.1.2 Chassis Feature Comparison

	P4304XXMFEN2	P4304XXMUXX
Positioning	entry level chassis; fixed PSU, fans and drives	high-end chassis, hot-swap fans, ready for hot-swap PSU and Drives
Cooling	2x Fixed Fans	5x Hot-swap fans
power subsystem	1x Fixed 550W 80+ Silver PSU (FUP550SNRPS)	Power cage ready for up to 2x Hot-Swap PSU 750W Platinum or 1600W Platinum (to be ordered separately)
drive subsystem	Support for 4x Fixed 3.5" or 2.5" SATA drives included.	Support for 4x Fixed 3.5" or 2.5" SATA drives included.
Hot-swap drive options	<p>2 upgrade bays that together can support 12G SAS/SATA in the following configurations: 8x2.5", 16x2.5", 4x3.5", 8x3.5". For drive upgrade kits, please refer to section 1.2.</p> <p>Note that to support hot-swap drives, this chassis requires the h/s bezel with door FUPBEZELHSD2</p>	<p>2 upgrade bays that together can support 12G SAS/SATA in the following configurations: 8x2.5", 16x2.5", 4x3.5", 8x3.5". For drive upgrade kits, please refer to section 1.2.</p> <p>H/S bezel with door FUPBEZELHSD2 is included</p>
2.5" NVMe support	Yes, via drive upgrade kit FUP8X25S3NVDK (and the h/s bezel with door FUPBEZELHSD2)	Yes, via drive upgrade kit FUP8X25S3NVDK
Bezel	Fixed-drive Bezel (no door): FUPBEZELFIX2	Hot-swap drive Bezel (with door): FUPBEZELHSD2
Air duct	Included (A4UCWDUCT)	
Heat sinks	Not included; order 1x AUPCWPBTP per installed CPU	

1.2 Cabling Guide

This table shows which cables are required when upgrading offered chassis to Hot-Swap drive configurations. Note, only 7-pin cables for 4 fixed drive setup are included with chassis. Specific cable kit must be purchased depending on backplane and controller used.

Board	Drive number & type	Fixed or hot-swap	Types of drives supported ²	Drive kit required	Expander required	Required cabling if using on-board SATA capable controller	Required cabling if using on-board SAS controller on S2600CW2S or S2600CWTS	Required cabling if using 12Gb/s RAID controller ¹	Required cabling if using 6Gb/s RAID controller ¹	
S2600CW	4x3.5"	Fixed	SATA Only	No Additional Parts needed	N/A	Use one cable from AXXCBL450HD7S included with chassis	Use one cable from AXXCBL450HD7S included with chassis	N/A	N/A	
		Hot-swap	SATA+SAS	1x FUP4X35S3HSDK	N/A	Use one cable from AXXCBL380HDHD included with kit	Use one cable from AXXCBL380HDHD included with kit	Need one cable from AXXCBL650HDHD	Need one cable from AXXCBL650HDMS	
	8x3.5"	Fixed	SATA Only	Need one FUP4X35NHDK for extra 4 HDD trays; Need two FUPMESK for extra power adapter cables	N/A	1x AXXCBL450HD7S	N/A	N/A	N/A	
		Hot-swap	SATA+SAS	2X FUP4X35S3HSDK (with HSBP FUP4X35S3HSBP)	N/A	1x AXXCBL380HDHD	1x AXXCBL380HDHD	1x AXXCBL650HDHD	1x AXXCBL650HDMS	
	8x2.5"	Fixed	SATA Only	Need one FUP4X35NHDK for extra 4 HDD trays; Need two FUPMESK for extra power adapter cables	N/A	1x AXXCBL450HD7S	N/A	N/A	N/A	
		Hot-swap	SATA+SAS	FUP8X25S3HSDK (with SAS only HSBP FXX8X25S3HSBP)	N/A	1x AXXCBL380HDHD	1x AXXCBL380HDHD	1x AXXCBL650HDHD	1x AXXCBL650HDMS	
		Hot-swap, NVMe support	Up to 4x 2.5" NVMe drives, up to 8 SATA/SAS drives (total 8 drives)	1x FUP8X25S3NVDK (with Combo HSBP)	N/A	Up to 4 NVMe drives; cables included in NVMe kit FUP8x25S3NVDK Up to 8 SATA/SAS drives; 1x AXXCBL380HDHD	Up to 4 NVMe drives; cables included in NVMe kit FUP8x25S3NVDK Up to 8 SATA/SAS drives; 1x AXXCBL380HDHD	1x AXXCBL650HDHD	1x AXXCBL650HDMS	
	16x2.5"	Fixed	NA, Max 8x2.5" fixed drives							
		Hot-swap	SATA+SAS	2x FUP8X25S3HSDK	No expander (use onboard SATA and SAS controller, or use two 8-port HBAs. You will not be able to create a single array across all drives.)		2x AXXCBL380HDHD	2x AXXCBL650HDHD	2x AXXCBL650HDMS	
					1x RES3TV360	N/A	Controller to expander: 1x AXXCBL380HDHD Expander to backplanes: cables included with expander kit.	Controller to expander: 1x AXXCBL650HDHD Expander to backplanes: cables included with expander kit.	Controller to expander: 1x AXXCBL650HDMS Expander to backplanes: cables included with expander kit.	
					1x RES3FV288	N/A	Controller to expander: use cables shipped with expander kit. Expander to	Controller to expander: use cables shipped with expander kit. Expander to	Controller to expander: use cables shipped with expander kit. Expander to	

							backplanes: 2x AXXCBL650HDHD	backplanes: 2x AXXCBL650HDHD	backplanes: 2x AXXCBL650HDHD
		Up to 4x NVMe + Up to 16x SATA/SAS (total 16x drives)	1x FUP8X25S3HSDK and 1x FUP8X25S3NVDK	1x RES3TV360	N/A	Controller to expander: 1x AXXCBL380HDHD Expander to backplanes: cables included with expander kit. Cables for up to 4 NVMe drives included in NVMe kit FUP8X25S3NVDK	Controller to expander: 1x AXXCBL650HDHD Expander to backplanes: cables included with expander kit. Cables for up to 4 NVMe drives included in NVMe kit FUP8X25S3NVDK	Controller to expander: 1x AXXCBL650HDSMS Expander to backplanes: cables included with expander kit. Cables for up to 4 NVMe drives included in NVMe kit FUP8X25S3NVDK	

Note:

- One cable from kit AXXCBL450HD7S is shipped with the Intel® Server Chassis P4304XXMFEN2 and P4304XXMUXX.
- SAS drives require a hot-swap drive cage and a SAS controller, either onboard on S2600CW2S and S2600CWTS or via SAS HBA or Raid Controller.

1.3 Available Production Board Order Codes for S2600CW

Image For illustration only, not to scale.	Product Code MM UPC EAN MOQ	Description
	<p>DBS2600CW2 938624 735858289887 5032037068727 MOQ=5</p> <p>Overpack of individual boxes, Also includes IO shield, 2 SATA cables, QSG</p>	<p>Intel® Server Board S2600CW2</p> <ul style="list-style-type: none"> • Supports Dual Intel® Xeon E5-2600 v3 processors 145W max • Intel® C612 chipset • 16 DDR4 DIMM slots • Intel® Dual Gigabit Ethernet with Intel® Virtualization Technology • 6 PCIe slots <ul style="list-style-type: none"> ○ One x4 PCIe Gen 2 from PCH ○ One x8 PCIe Gen 3 from CPU 1 ○ Two x16 PCIe Gen 3 from CPU 0 ○ Two x16 PCIe Gen 3 from CPU 1 • 8 SATA through 2 Mini SAS HD ports • 2 SATA 6G AHCI ports • Integrated Baseboard Management Controller with IPMI 2.0 • Dedicated management port • Option for advanced management functions with KVM (AXXRMM4LITE) <p>Please refer to PCN113819-00 for TA#/PBA#/MM# change.</p>

	<p>DBS2600CWT 936390 735858289894 5032037068734 MOQ=5</p> <p>Overpack of individual boxes, Also includes IO shield, 2 SATA cables, QSG</p>	<p>Intel® Server Board S2600CWT, 10G enabled board</p> <ul style="list-style-type: none"> • Supports Dual Intel® Xeon E5-2600 v3 processors 145W max • Intel® C612 chipset • 16 DDR4 DIMM slots • Intel® Dual 10G Gigabit Ethernet with Intel® Virtualization Technology • 6 PCIe slots <ul style="list-style-type: none"> ○ One x4 PCIe Gen 2 from PCH ○ One x8 PCIe Gen 3 from CPU 1 ○ Two x16 PCIe Gen3 from CPU 0 ○ Two x16 PCIe Gen3 from CPU 1 • 8 SATA through 2 Mini-SAS HD ports • 2 SATA 6G AHCI ports • Integrated Baseboard Management Controller with IPMI 2.0 • Dedicated management port • Option for advanced management functions with KVM (AXXRMM4LITE)
	<p>DBS2600CW2S 936408 735858289900 5032037068741 MOQ=5</p> <p>Overpack of individual boxes, Also includes IO shield, 2 SATA cables, QSG</p>	<p>Intel® Server Board S2600CW2S, SAS down board</p> <ul style="list-style-type: none"> • Supports Dual Intel® Xeon E5-2600 v3 processors 145W max • Intel® C612 chipset • 16 DDR4 DIMM slots • Intel® Dual Gigabit Ethernet with Intel® Virtualization Technology • LSI 3008 Battery-less 12G SAS hardware RAID • 6 PCIe slots <ul style="list-style-type: none"> ○ One x4 PCIe Gen 2 from PCH ○ One x8 PCIe Gen 3 from CPU 0 ○ One x8 PCIe Gen 3 from CPU 1 ○ One x16 PCIe Gen3 from CPU 0 ○ Two x16 PCIe Gen3 from CPU 1 • 8 SATA through 2 Mini SAS HD ports • 2 SATA 6G AHCI ports • 8 SAS through 2 Mini-SAS HD ports from LSI3008 • Integrated Baseboard Management Controller with IPMI 2.0 • Dedicated management port • Option for advanced management functions with KVM (AXXRMM4LITE)
	<p>DBS2600CWTS 936410 735858289917 5032037068758 MOQ=5</p> <p>Overpack of individual boxes, Also includes IO shield, 2 SATA</p>	<p>Intel® Server Board S2600CWTS, SAS down and 10G enabled board</p> <ul style="list-style-type: none"> • Supports Dual Intel® Xeon E5-2600 v3 processors 145W max • Intel® C612 chipset • 16 DDR4 DIMM slots • Intel® Dual 10G Gigabit Ethernet with Intel® Virtualization Technology • LSI 3008 Battery-less 12G SAS hardware RAID • 6 PCIe slots <ul style="list-style-type: none"> ○ One x4 PCIe Gen 2 from PCH ○ One x8 PCIe gen 3 from CPU 0 ○ One x8 PCIe gen 3 from CPU 1

	cables, QSG	<ul style="list-style-type: none">○ One x16 PCIe gen3 from CPU 0○ Two x16 PCIe gen3 from CPU 1● 8 SATA through 2 Mini SAS HD ports● 2 SATA 6G AHCI ports● 8 SAS through 2 Mini-SAS HD ports from LSI3008● Intel® Dual 10G Gigabit Ethernet with Intel® Virtualization Technology● Integrated Baseboard Management Controller with IPMI 2.0● Dedicated management port● Option for advanced management functions with KVM (AXXRMM4LITE)
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1.4 Available Compatible Production Chassis Order Codes for Intel® Server Chassis P4000 Family

Intel Server Chassis shipped to the US & Canada will contain North American power cords. North American customers no longer need to order skus ending in “NA” to receive power cords.

Image For illustration only, not to scale.	Product Code MM UPC EAN MOQ	Description
	<p>P4304XXMFEN2 936416 735858292658 5032037070980 1</p>	<p>Intel® Server chassis P4304XXMFEN2</p> <p>Intel® Server Chassis P4304XXMFEN2, rackable*</p> <ul style="list-style-type: none"> • Standard control panel (FXXFPANEL) • Fixed 4x3.5" HDD support, no backplane, 4 HDD power connectors, one 4-port fan-out SATA cable. • Chassis is ready for hot swap drive support – need to purchase Hot Swap drive cage and front bezel FUPBEZELHSD2 with door. Two drive cages are supported simultaneously, mixing is allowed of 4x3.5" and 8x2.5". Cables sold separately. • 2 Fixed 120mm system fans • Fixed 550W PSU (FUP550SNRPS) • Processor/Memory air duct (A4UCWDUCT) • Fixed bezel (FUPBEZELFIX2) • Fixed EMI cover • Attention Documentation <p>NO CPU heat sinks Rails are not included</p> <p>This chassis can be upgraded to support Two Hot Swap drive cages, with total of up to 16 x 2.5" drives. Following drive cages supported: 4x3.5" FUP4X35S3HSDK (up to 2) 8x2.5" FUP8X25S3HSDK (up to 2) 8x2.5 with 4x NVMe support FUP8X25S3NVDK (only 1 of this type per system, second bay can still be used for SAS/SATA cage) Hot swap Bezel FUPBEZELHSD2 is required when adding hot swap support.</p>

	<p>P4304XXMUXX 937011 735858289962 5032037068802 1</p>	<p>Intel® Server Chassis P4304XXMUXX</p> <p>Intel® Server Chassis P4304XXMUXX, rackable*</p> <ul style="list-style-type: none"> • Standard control panel (FXXFPANEL) • Fixed 4x3.5" HDD support, no backplane, 4 HDD power connectors, fan-out SATA cable supporting 4 drives. • Chassis is ready for hot swap drive support – need to purchase Hot Swap drive cage. Two drive cages are supported simultaneously, mixing is allowed of 4x3.5" and 8x2.5". Cables sold separately. • Hot Swap bezel with lock (FUPBEZELHSD2) • Fixed EMI cover • Chassis is ready for hot swap drive support – need to purchase HS drive cage separately • 5 Redundant/hot swap 80mm system fans • Processor/Memory air duct (A4UCWDUCT) • Power distribution board (FUPPDBHC2) • Power supply cage (FUPCRPSCAGE) • Attention Documentation <p>Power supply is not included – required 1 or 2 750W or 1600W power supply units No CPU heat sinks Rails are not included</p> <p>This chassis can be upgraded to support Two Hot Swap drive cages, with total of up to 16 x 2.5" drives. Following drive cages supported: 4x3.5" FUP4X35S3HSDK (up to 2) 8x2.5" FUP8X25S3HSDK (up to 2) 8x2.5 with 4x NVME support FUP8X25S3NVDK (only 1 of this type per system, second bay can still be used for SAS/SATA cage)</p>
	<p>FUPBEZELFIX2 925750 735858254663 5032037047593 1</p>	<p>Bezel spare for P4000 server chassis with fixed drives (no door)</p>
	<p>FUPBEZELHSD2 925749 735858254656 5032037047586 1</p>	<p>Bezel spare for P4000 server chassis with Hot Swap HDDs (w/door for HS bays)</p> <p>Contains bezel with door, lock, keys.</p>

	<p>AUPBEZEL4UF 915636 735858235976 5032037030731 1</p>	<p>Rack bezel kit for converting P4000 pedestal server chassis to rack chassis.</p> <p>Includes: bezel frame, and 2 rack handles</p>
	<p>AUPBEZEL4UD 915637 735858235983 5032037030748 1</p>	<p>Rack bezel accessory for P4000M/P4000L/P4000L-WS chassis in rack configuration - security door only. Requires AUPBEZEL4UF to be installed.</p> <p>Included: snap in door with lock and key</p>

2. Spares and Accessories Order Codes

2.1 General Spares and Accessories

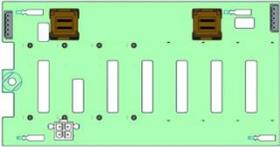
Image (For illustration only, not to scale.)	Product Code MM UPC EAN MOQ	Description
Image not yet available	A4UCWDUCT 936419 735858290029 5032037068864 1	Spare Airduct for S2600CW server board support in P4000M chassis family Note: included in chassis.
	FUP550SNRPS 915602 735858235839 5032037030588 1	550W Fixed 80Plus Silver efficiency power supply spare. Note: included in P4304XXMFEN2 chassis
	FXX750PCRPS 915604 735858234979 5032037030601 1	750W Common Redundant Power Supply (CRPS) spare 80Plus Platinum efficiency.
	FXX1600PCRPS 915606 735858243650 5032037038294 1	1600W Common Redundant Power Supply spare 80Plus Platinum efficiency.
Image not yet available	FUPNRPSADP 912769 735858219471 5032037016278 1	P4000 Non-Redundant Power Supply adaptor kit Includes; bracket, screws, locker
	FUPCRPSCAGE 915607 735858235891 5032037030656 1	Common Pedestal CRPS PSU cage assembly (cage, adaptor bracket, screws, supporting bulkhead, 1x blank filler)
	FUPPDBHC2 936420 735858290036 5032037068871 1	Spare power Distribution Board Spare (High Current) for P4000CW server chassis. Used with FXX750PCRPS, or FXX1600PCRPS power supplies.

	BXSTS200C 915970 735858221818 5032037014496 1	Intel Boxed Thermal Solutions, heat sink combo with removable fan. For use with 2U/3U/4U/5U non-Intel chassis.
	BXSTS200P 915972 735858221795 5032037014472 1	Intel Boxed Thermal Solutions, passive 25.5mm heat sink. For use with 1U non-Intel chassis.
	AUPCWBPBP 936421 735858289566 5032037068529 2	Spare/Accessory tower passive heat sinks, 92mm x 100mm. 2 are required with Intel® Server Board S2600CW in P4000 chassis if two processors are installed. Notes: minimum order quantity 2.
	FUPMLHSFAN 915620 735858235969 5032037030724 1	80mm system fan kit for P4000M/P4000L server chassis includes fan, fan holder, for use in redundant cooling configuration.
	FUPNHFANCPU 919572 735858236034 5032037030793 1	Fixed Fan Spare Kit for P4000M (24") for CPU area fan. Includes: (1) 120mm fixed fan.
	FUPMNHFANPCI 919575 735858236041 5032037030809 1	Fixed Fan spare kit for P4000M (24") for PCI area fan. Includes: (1) 120mm fixed fan.
Image not yet available	AXXELVRAIL 920970 735858244367 5032037038980 1	Value Rail Kit, half extension, extended inner slide member Works for 438mm wide Intel 2U/4U Rack Chassis and System families (H2000, R2000LH/R2000LT Swan Peak 2U, P4000M/P4000L/P4000L-WS)
	AXX3U5UPRAIL 915634 735858236119 5032037030892 1	Advanced rail kit for P4000 Server Chassis used when converting Pedestal chassis to 4U rack chassis, and full extension rails are needed. Includes: 2 rails
Image not yet available	AXX3U5UCMA 915635 735858236126 5032037030908 1	Rack Cable Management for use with Advanced Rail Kit AXX3U5UPRAIL for Intel® Server Chassis P4000 Family.

	FXXFPANEL 915982 735858222419 5032037018968 1	Front Panel board spare for P4000 server chassis
Image not yet available	AXXCWIOS 936422 735858289986 5032037068826 50	I/O Shield spare/accessory for Intel® Server Board S2600CW
	AUPMCOPROBR 926364 735858257046 5032037049139 1	Bracket for securing full length GPU cards to fan bulkhead, for use in P4000M, includes 1 bracket, 2 GPGPU power cables, 2 Xeon PHI specific brackets and 5 screws for GPGPU fixture.
	FPWRCABLENA 879287 735858181129 5032037015738 1	North American Power Cord Spare
	FXXSSIPWR 936430 735858289702 5032037068642 10	Power adapter/dongle for chassis with limited space access for board power connectors Note: not required in Intel chassis
	AXXRJ45DB93 920430 735858242820 5032037037525 1	Serial adapter Kit of the following cables: 1040mm Serial 10pin header to DB9 Cable 520mm Serial 10pin header to DB9 Cable 100mm DCD RJ45 to DB9 Cable 100mm DSR RJ45 to DB9 Cable

2.2 Drive/storage subsystem spares and accessories

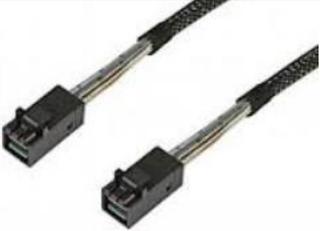
Image For illustration only, not to scale.	Product Code MM UPC EAN MOQ	Description
	FUP4X35S3HSBP 936423 735858289979 5032037068819 1	Spare 4x3.5" Hot Swap Backplane for use with P4000 server chassis Includes: 1 4x3.5" backplane board

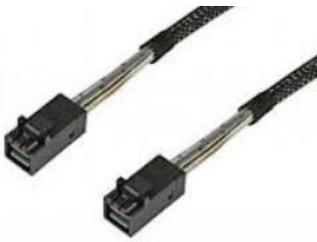
	<p>FXX8X25S3HSBP 934890 735858288804 5032037068086 1</p>	<p>Spare 8x2.5" Single Port Hot Swap Backplane for use with P4200 chassis.</p>
	<p>FUP4X35S3HSDK 936623 735858289993 5032037068833 1</p>	<p>3.5" Hot Swap Drive Kit for P4000 server chassis Includes: Drive Cage, Hot Swap Back Plane, 4 Hot Swap Drive carriers, I²C cable, IMPB cable, 4 SATA cables and ID filler</p>
	<p>FUP8X25S3HSDK 936425 735858290005 5032037068840 1</p>	<p>8x2.5" Hot Swap Drive Cage Kit for P4000 server chassis Includes: Drive cage, Hot Swap Back Plane, 8 Hot Swap Drive carriers, I2C cable, ID filler panels, and power adaptor cable accessory</p>
	<p>FUP8X25S3NVDK 936426 735858290012 5032037068857 1</p>	<p>8x2.5" Hot Swap PCIe COMBO Drive Cage Kit for P4000 server chassis. This accessory kit enables support for 2.5" FF PCIe SSDs (NVMe) Includes: Drive cage, Hot Swap COMBO Back Plane, 8 Hot Swap Drive carriers, 2 PCI data cables 600mm, PCIe slot adapter board, I2C cable, PEM cable, ID filler panels, and power adaptor cable accessory.</p>
	<p>FXX35HSADPB 912771 735858219495 5032037016391 8</p>	<p>3.5" HDD Hot Swap Drive Carrier spares for P4000 chassis families</p>
	<p>FXX25HSCAR 918807 735858241182 5032037035910 8</p>	<p>2.5" HDD Hot Swap Drive Carrier spares for P4000 chassis families</p>
<p>Image not yet available</p>	<p>FUP4X35NHDK 912770 735858219488 5032037016247 4</p>	<p>Fixed Drive Carrier spare for P4300 server chassis (compatible with 2.5" HDDs/SSDs)</p>
<p>Image not yet available</p>	<p>FUPMMSK 915638 735858235990 5032037030755 1</p>	<p>Chassis Maintenance kit for P4000M Server Chassis– (Mechanical Spares Kit) Including EMI cover, ODD rail, PCI card retainer {4x 3.5" EMI cover, 8x 3.5" EMI cover, ODD rail x4, #6-32 screw x20, M3x12 USB cable screw x2, M2x10 Intrusion cable</p>

	<p>FUPMESK 915653</p> <p>735858236003 5032037030762 1</p>	<p>Chassis Maintenance kit for P4000M Server Chassis– (Electric Spares Kit)</p> <p>Including power cable extension, 1x4 -> 2x2 power adaptor cable accessory (for 2.5" HDD connector)</p>
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2.3 Expansion modules: SAS Module, RMM4, TPM

<p>Image For illustration only, not to scale.</p>	<p>Product Code MM UPC EAN MOQ</p>	<p>Description</p>
	<p>AXXRPFKHY5 933690 735858276856 5032037060462 5</p>	<p>Intel® RAID Hybrid RAID 5 activation key</p> <p>A RAID premium feature key that enables hybrid RAID 5 capability for select Intel® Server Boards with integrated SAS I/O controllers. Grey.</p>
	<p>RKSATA4R5 916346 735858238861 5032037033640 5</p>	<p>Chipset SATA RAID 5 activation key</p>
 <p>Intel® RAID Expander RES3FV288</p>	<p>RES3FV288 932895 735858287548 5032037067287 5</p>	<p>Low Profile MD2 Form Factor RAID Expander Card 28 internal ports and 8 external ports SAS 3.0 (12G) compliant including 6Gb/s device bandwidth aggregation for 12Gb/s data transfer Redundant dual-port capable for HA and high performance systems Power from PCIe x1 or 4-pin connector HD Mini-SAS Connectors</p>
 <p>Intel® RAID Expander RES3TV360</p>	<p>RES3TV360 932894 735858287364 5032037067102 5</p>	<p>36-port, 12 Gb/s-capable expander card</p>
	<p>AXXRMM4LITE 911660 735858219297 5032037014946 1</p>	<p>Intel® Remote Management Module RMM4LITE - Activation key for advanced management features including remote KVM.</p>

	<p>AXXTPME5 919737 735858240352 5032037035088 1</p>	<p>Trusted Platform Module for server systems</p>
	<p>RMS25KB080 924454 735858239028 5032037033800 5</p>	<p>Intel® Integrated RAID Module RMS25KB080, PCIe Slot, LSI2308 I/O Controller, 8P Internal SAS, LSI IR-based RAID 0,1,1E</p> <p>Requires PCIe x8 slot</p>
	<p>RMS25KB040 924455 735858239035 5032037033817 5</p>	<p>Intel® Integrated RAID Module RMS25KB040, PCIe Slot, LSI2308 I/O Controller, 4P SAS, LSI IR-based RAID 0,1,1E</p> <p>Requires PCIe x8 slot</p>
	<p>RMS25PB080 924868 735858238946 5032037033725 5</p>	<p>Intel® Integrated RAID Module RMS25PB080, PCIe Slot, LSI2208 ROC, 8P Internal SAS/SATA, LSI MegaRAID-based Firmware, 1GB DDR3, RAID 0,1,10,5,50,6,60</p> <p>Requires PCIe x8 slot</p>
	<p>RMS25PB040 924869 735858238953 5032037033732 5</p>	<p>Intel® Integrated RAID Module RMS25PB040, PCIe Slot, LSI2208 ROC, 4P Internal SAS/SATA, LSI MegaRAID-based Firmware, 1GB DDR3, RAID 0,1,10,5,50,6,60</p> <p>Requires PCIe x8 slot</p>
	<p>RMT3PB080 924870 735858238960 5032037033749 5</p>	<p>Intel® Integrated RAID Module RMT3PB080, PCIe Slot, LSI2208 ROC, 8P Internal SATA (only), LSI MegaRAID-based Firmware, 512MB DDR3, Restricted to use only SATA drives, R0,1,10,5,50,6,60</p> <p>Requires PCIe x8 slot</p>
	<p>AXXRMFBU2 926341 735858244541 5032037039116 5</p>	<p>Intel® RAID Maintenance Free Backup Unit provides optional battery backup for mainstream RS25, RMS25, RT3 and RMT3 family RAID products.</p>
	<p>AXXRSBBU9 919738 735858220286 5032037039567 5</p>	<p>Intel® RAID Smart Battery AXXRSBBU9 provides optional battery backup for mainstream RS25, RMS25, RT3 and RMT3 family RAID products.</p>
	<p>AXXCBL380HDHD 936427 735858284738 5032037065023 1</p>	<p>380mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8643</p> <p>Used for connecting Hot Swap drive cages to mainboard SATA ports.</p>

	<p>AXXCBL450HD7S 936428 735858287388 5032037067126 1</p>	<p>450mm long, cable kit (2 cables included) straight SFF8643 to straight 7-pin SATA</p> <p>Used to connect fixed SATA drives to mainboard SATA ports. Spare for cables shipped with chassis.</p>
	<p>AXXCBL650HDMS 927237 735858266963 5032037053631 1</p>	<p>650mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8087</p> <p>650mm long, cable kit (2 cables included) straight MiniSAS-HD to straight Mini-SAS</p> <p>Used to connect 6G/s SAS cards (with SFF-8087 connectors) to backplanes</p>
	<p>AXXCBL650HDHD 937129 735858284752 5032037065047 1</p>	<p>650mm long, cable kit (2 cables included) straight SFF8643 to straight SFF8643</p> <p>650mm long, cable kit (2 cables included) straight Mini-SAS HD to straight Mini-SAS HD</p> <p>Used to connect 12G/s SAS cards (with SFF-8643 connectors) to backplanes</p>

2.4 Service: Extended Warranty

Image	Product Code MM MOQ	Description
	<p>SVCEWDPSY 911295 1</p>	<p>Two year extended warranty for Intel® Server Systems or Intel® Server Knock Down Kits + Intel® Server Boards that support two processors. Intel® RAID controller extended warranty is purchased separately.</p>
	<p>SVCEWDPBD 911294 1</p>	<p>Two year extended warranty for Intel® Server Boards that support two processors.</p>