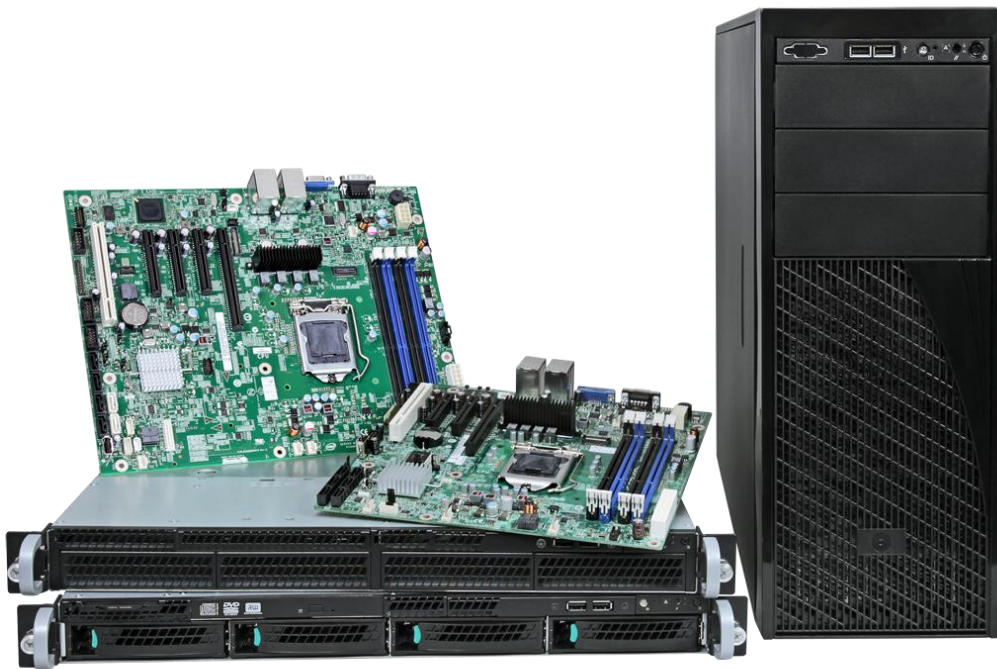


Intel® Server Systems R1304BT, Intel® Server Systems P4304BT, Intel® Server Boards S1200BT, and Intel Server Chassis P4304

Configuration Guide and Spares/Accessories List

A reference guide to assist customers in ordering the necessary components to configure the S1200BT family of Intel® Server Systems building blocks



Revision 2.0

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Enterprise Platforms and Services Marketing

Revision History

June`10 – Rev0.5 – First Revision

Sept`10 – Rev0.6 First SKU definition

Oct`10 – Rev 0.85 new SKU definition and early product codes

Nov`10 – Rev 0.90 Added Union Peak spares and accessories

Dec`10 – Rev 0.96 Added more detail to configuration descriptions

Dec`10 – Rev 1.0 Added MM#s

Dec`10 – Rev 1.1 Added more MM#s and UPCs

Jan`11 – Rev 1.2/3 Added missing MM#s and UPCs, enhanced product descriptions

March`11 – Rev 1.4,5,6,7,8 minor edits and corrections

June`11 – Rev 1.9,2.0- minor edits, photos, box contents, etc.

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1. Product Order Code Information

1.1 Product Descriptions – Overview

The products that follow are an entry-level family of general-purpose server products designed for small to medium sized business applications, including 1U rack systems supporting advanced management features and rich I/O.

Intel® Server Board Product compatible with the Intel E3-1200 series processors is offered as two SKUs:

1. **Intel® Server Board S1200BTL** – ATX form factor motherboard based on Intel C204 chipset with the following features:
 - 4 DDR3(1066/1333MHz) ECC UDIMM sockets (Unbuffered)
 - 5 Slots:
 - 1x PCI Express 2.0 x8 slot (x16 mechanical)
 - 3x PCI Express 2.0 x8 slot (x8 mechanical)
 - 1x PCI 32/33 (5V) slot
 - 6 SATA ports (2x6Gbps, and 4x3Gbps) via Intel® C204 chipset with Intel® Embedded Server RAID Technology II (SW RAID 0, 1, 10 support) and Intel® Rapid Storage Technology (SW RAID 0, 1, 10, 5 support)
 - Embedded Intel® Dual Gigabit Controller 82574L and 82579
 - IPMI 2.0 support
 - Support AXXRAKSW5, AXX4SASMOD, AXXRMS2LL040 and AXXRMS2AF040 as optional RAID accessory
 - Supports AXXRMM4 or AXXRMM4LITE as optional Remote Management Module accessory
 - Compatible with Intel® Xeon® processor E3 1200 series/ Intel® Core® i3® processors (see Tested Hardware and OS List)

2. **Intel® Server Board S1200BTS** - uATX form factor motherboard based on Intel C202 chipset with the following features:
 - 4 DDR3(1066/1333MHz) ECC UDIMM sockets (Unbuffered)
 - 4 Slots:
 - 1x PCI Express 2.0 x8 slot (x16 mechanical)
 - 1x PCI Express 2.0 x8 slot (x8 mechanical)
 - 1x PCI Express 2.0 x4 slot (x8 mechanical)
 - 1x PCI 32/33 (5V) slot
 - 6 SATA ports (6x3Gbps) via Intel® C202 chipset with Intel® Embedded Server RAID Technology II (SW RAID 0, 1, 10 support) and Intel® Rapid Storage Technology (SW RAID 0, 1, 10, 5 support)
 - Embedded Intel® Dual Gigabit Controller 82574L and 82579
 - Supports AXXRAKSW5 as optional RAID accessory
 - Compatible with Intel® Xeon® processor E3 1200 series/ Intel® Core® i3® processors (see Tested Hardware and OS List)

Rack System Product based on the Intel® Server Board S1200BT is offered as three SKUs:

1. **Intel® Server System R1304BTLFAN (Integrated SKU).** Intel Server Board S1200BTL integrated into 1U rack chassis with 4 x Fixed HDD Carriers, and a 250W non-redundant power supply.
2. **Intel® Server System R1304BTLHBN (Integrated SKU).** Intel Server Board S1200BTL integrated into 1U rack chassis with 4 x Hot Swap HDD Carriers, and a 350W non-redundant power supply.
3. **Intel® Server System R1304BTSSFAN (Integrated SKU).** Intel Server Board S1200BTL integrated into 1U rack chassis with 4 x Fixed HDD Carriers, and a 250W non-redundant power supply.

Not included in systems: System does not include Processors, DDR3 main memory, hard drives, and other customer configuration items


Pedestal System Product based on the Intel® Server Board S1200BT will be offered as three SKUs at production:




1. **Intel® Server System P4304BTLFAN (Integrated SKU).** Intel Server Board S1200BTL integrated into a pedestal chassis with 4 x Fixed (3.5") HDD Carriers, and a 365W non-redundant power supply.
2. **Intel® Server System P4304BTLHBN (Integrated SKU).** Intel Server Board S1200BTL integrated into a pedestal chassis with 4 x Hot Swap (3.5") HDD Drive Kit, and a 365W non-redundant power supply.
3. **Intel® Server System P4304BTSSFAN (Integrated SKU).** Intel Server Board S1200BTL integrated into a pedestal chassis with 4 x Fixed HDD Carriers, and a 365W non-redundant power supply.






Not included in systems: Systems do not include Processors, DDR3 main memory, hard drives, and other customer configuration items




1.2 Production Order Codes for Intel Server Boards and Intel Server Systems, and Intel Server Chassis





Not included in systems: Processors, DDR3 main memory, hard drives, and other customer configuration items are not included in below SKUs.




Image	Product Code MM UPC EAN	Description	Minimum Order Quantity
	<p>S1200BTL 911776 00735858219204 5032037013666</p>	<p>Intel® Server Board S1200BTL with Intel® C204 chipset 4 DDR3 UDIMM sockets (Unbuffered) 2 channel native (1066/1333MHz)</p> <p>Slots:</p> <p>1x PCI Express 2.0 x8 slot (x16 mechanical) 3x PCI Express 2.0 x4 slot (x8 mechanical) 1x PCI 32/33 (5V) slot</p> <ul style="list-style-type: none"> • 6 SATA ports (2x6Gbps, and 4x3Gbps) via Intel® C204 chipset with Intel® Embedded Server RAID Technology II (SW RAID 0, 1, 10 support) and Intel® Rapid Storage Technology (SW RAID 0, 1, 10, 5 support) • Embedded Intel® Dual Gigabit Controller 82574L and 82579 • IPMI 2.0 support • Support AXXRAKSW5, AXX4SASMOD, AXXRMS2LL040 and AXXRMS2AF040 as optional RAID accessory • Supports AXXRMM4 or AXXRMM4LITE as optional Remote Management Module accessory • Compatible with Intel® Xeon® processor E3 1200 series/ Intel® Core® i3® processors <p>Box also includes the following items:</p> <ul style="list-style-type: none"> • ATX I/O shield • Cables: 2 SATA HDD cables • RoHS Declaration Documentation • Attention Document • Quick Start Guide • Quick Config Label • Resource CD with utilities, drivers, documentation and technical information • Intel System Management Software CD 	<p>1</p>

	<p>S1200BTS 911786 00735858219419 5032037013680</p>	<p>Intel® Server Board S1200BTS with Intel® C202 chipset 4 DDR3 UDIMM sockets (Unbuffered) 2 channel native (1066/1333MHz) Slots: One PCI Express 2.0 x8 slot (x16 mechanical) One PCI Express 2.0 x8 slot (x8 mechanical) One PCI Express x4 slot (x8 mechanical) One PCI 32/33 (5V) slot</p> <ul style="list-style-type: none"> • 6 SATA ports (6x3Gbps) via Intel® C202 chipset with Intel® Embedded Server RAID Technology II (SW RAID 0, 1, 10 support) and Intel® Rapid Storage Technology (SW RAID 0, 1, 10, 5 support) • Embedded Intel® Dual Gigabit Controller 82574L and 82579 • Supports AXXRAKSW5 as optional RAID accessory • Compatible with Intel® Xeon® processor E3 1200 series/ Intel® Core®i3® processors <p>Box also includes the following items:</p> <ul style="list-style-type: none"> • ATX I/O shield • Cables: 2 SATA HDD cables • RoHS Declaration Documentation • Attention Document • Quick Start Guide • Quick Config Label • Resource CD with utilities, drivers, documentation and technical information 	<p>1</p>
	<p>BBS1200BTL 911645 00735858219181 5032037013628</p>	<p>Intel® Server Board S1200BTL with Intel® C204 chipset. (shipped in bulk pack of 10) (Intended for large OEM customers)</p>	<p>10</p>
	<p>BBS1200BTS 911649 00735858219396 5032037013635</p>	<p>Intel® Server Board S1200BTS with Intel® C202 chipset. (shipped in bulk pack of 10) (Intended for large OEM customers)</p>	<p>10</p>


	<p>DBS1200BTL 911797 00735858219198 5032037013642</p>	<p>Intel® Server Board S1200BTL with Intel® C204 chipset. Disti 5 pack – (5 single pack server boards in a disti overpack box)</p>	<p>5</p>
	<p>DBS1200BTS 911808 00735858219402 5032037013659</p>	<p>Intel® Server Board S1200BTS with Intel® C202 chipset. Disti 5 pack – (5 single pack server boards in a disti overpack box)</p>	<p>5</p>
	<p>SVCEWUPBD 911292</p>	<p>Intel® Server Component Extended Warranty Extended Warranty SKU for S1200BTL and S1200BTS Extends Warranty from 3 years to 5 years</p>	<p>1</p>
	<p>R1304BTLSHBN 911688 00735858219532 5032037017008</p>	<p>Intel® Server System R1304BTLSHBN Includes:</p> <ul style="list-style-type: none"> • Intel® Server Board S1200BTL with Intel® C204 chipset • Intel Server Chassis R1304 • 4 port passive SAS Backplane • 4 3.5" Hot Swap HDD sleds • 3 non-redundant non-hotswap fans • 1 full-height riser with one PCI Express 2.0 x8 wired slot (one x16 connector) • 1 Silver efficient 350W power supply • 4 SATA cables for 3.5" HDD bays • 1 cable for Optical drive bay • 1 processor heatsink • Documentation (Quick Start Guide, Config Label, Attn Doc, RoHS Declaration) • Resource CD with utilities, drivers, documentation and technical information • Intel System Management Software CD <p>2 chassis front handles in the box (ears)</p>	<p>1</p>
	<p>R1304BTLSHBNNNA 907658 00735858219860 5032037017015</p>	<p>Intel® Server System R1304BTLSHBNNNA Includes:</p> <ul style="list-style-type: none"> • Intel® Server System R1304BTLSHBN (includes contents listed above) • N American Power Cord 	<p>1</p>

	<p>R1304BTLSFAN 911698 00735858219549 5032037016971</p>	<p>Intel® Server System R1304BTLSFAN Includes:</p> <ul style="list-style-type: none"> • Intel® Server Board S1200BTL with Intel® C204 chipset • Intel Server Chassis R1304 • 4 fixed 3.5" HDD sleds • 3 non-redundant non-hotswap fans • 1 full-height riser with one PCI Express 2.0 x8 wired slot (one x16 connector) • 1 Bronze efficient 250W power supply • 4 SATA cables for 3.5" HDD bays • 1 cable for Optical drive bay • 1 processor heatsink • Documentation (Quick Start Guide, Config Label, Attn Doc, RoHS Declaration) • Resource CD with utilities, drivers, documentation and technical information • Intel System Management Software CD <p>2 chassis front handles in the box (ears)</p>	<p>1</p>
	<p>R1304BTLSFANNA 907775 00735858219570 5032037016988</p>	<p>Intel® Server System R1304BTLSFANNA Includes:</p> <ul style="list-style-type: none"> • Intel® Server System R1304BTLSFAN • N American Power Cord 	<p>1</p>
	<p>R1304BTSSFAN 911709 00735858219556 5032037017039</p>	<p>Intel® Server System R1304BTSSFAN Includes:</p> <ul style="list-style-type: none"> • Intel® Server Board S1200BTS with Intel® C202 chipset • Intel Server Chassis R1304F (Fixed HDD) • 4 fixed 3.5" HDD sleds • 3 non-redundant non-hotswap fans • 1 full-height riser with one PCI Express 2.0 x8 wired slot (one x16 connector) • 1 Bronze efficient 250W power supply • 4 SATA cables for 3.5" HDD bays • 1 cable for Optical drive bay • 1 processor heatsink • Documentation (Quick Start Guide, Config Label, Attn Doc, RoHS Declaration) • Resource CD with utilities, drivers, documentation and technical information <p>2 chassis front handles in the box (ears)</p>	<p>1</p>

	<p>R1304BTSSFANNA 907569 00735858219563 5032037017046</p>	<p>Intel® Server System R1304BTSSFANNA Includes:</p> <ul style="list-style-type: none"> • Intel® Server System R1304BTSSFAN (includes contents listed above) • N. American Power Cord 	<p>1</p>
	<p>P4304BTLSHCN 912775 00735858219372 5032037016896</p>	<p>Intel® Server System P4304BTLSHCN Includes:</p> <ul style="list-style-type: none"> • Intel® Server Board S1200BTL with Intel® C204 chipset • Intel Server Chassis P4304 (21" Pedestal chassis) • 4 x Hot Swap (3.5") HDD Drive Kit • 1 rear chassis fan • 1 365W power supply • 4 SATA cables • Power cable adapter • Documentation (Quick Start Guide, Config Label, Attn Doc, RoHS Declaration) • Resource CD with utilities, drivers, documentation and technical information • Intel System Management Software CD 	<p>1</p>
	<p>P4304BTLSHCNNA 907886 00735858220040 5032037016919</p>	<p>Intel® Server System P4304BTLSHCN Includes:</p> <ul style="list-style-type: none"> • Intel® Server System P4304BTLSHCN (includes contents listed above) • N. American Power Cord 	<p>1</p>
	<p>P4304BTLFCN 912776 00735858219389 5032037016872</p>	<p>Intel® Server System P4304BTLFCN Includes:</p> <ul style="list-style-type: none"> • Intel® Server Board S1200BTL with Intel® C204 chipset • Intel Server Chassis P4304 (21" Pedestal chassis) • 4 x Fixed (3.5") HDD Carriers • 1 rear chassis fan • 1 365W power supply • 4 SATA cables • Power cable adapter • Documentation (Quick Start Guide, Config Label, Attn Doc, RoHS Declaration) 	<p>1</p>





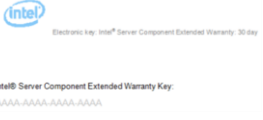
		<ul style="list-style-type: none"> Resource CD with utilities, drivers, documentation and technical information Intel System Management Software CD 	
	<p>P4304BTLSFCNNA 908252 00735858220057 5032037016889</p>	<p>Intel® Server System P4304BTLSHCNNA</p> <p>Includes:</p> <ul style="list-style-type: none"> Intel® Server System P4304BTLSFCN (includes contents listed above) N. American Power Cord 	1
	<p>P4304BTSSFCN 912777 00735858219426 5032037016902</p>	<p>Intel® Server System P4304BTSSFCN</p> <p>Includes:</p> <ul style="list-style-type: none"> Intel® Server Board S1200BTS with Intel® C202 chipset Intel Server Chassis P4304 (21" Pedestal chassis) 4 x Fixed (3.5") HDD Carriers 1 rear chassis fan 1 365W power supply 4 SATA cables Power cable adapter Documentation (Quick Start Guide, Config Label, Attn Doc, RoHS Declaration) Resource CD with utilities, drivers, documentation and technical information 	1
	<p>P4304BTSSFCNNA 908785 00735858220057 5032037016926</p>	<p>Intel® Server System P4304BTSSFCNNA</p> <p>Includes:</p> <ul style="list-style-type: none"> Intel® Server System P4304BTSSFCN (includes contents listed above) N. American Power Cord 	1

	<p>P4304XXSFCN 911754 00735858219358 5032037016933</p>	<p>Intel® Server Chassis P4304 (Entry Pedestal Chassis w/ 4 Fixed HDD sleds, 365W non-redundant power supply)</p>	<p>1</p>
	<p>P4304XXSFCNNA 907811 00735858220019 5032037019262</p>	<p>Intel® Server Chassis P4304 (Entry Pedestal Chassis w/ 4 Fixed HDD sleds, 365W non-redundant power supply)</p> <ul style="list-style-type: none"> • N. American Power Cord 	<p>1</p>
	<p>P4304XXSHCN 911765 00735858219365 5032037016940</p>	<p>Intel® Server Chassis P4304 (Entry Pedestal Chassis w/ 4 x Hot Swap (3.5") HDD Drive Kit, 365W non-redundant power supply)</p>	<p>1</p>
	<p>P4304XXSHCNNA 907812 00735858220026 5032037016957</p>	<p>Intel® Server Chassis P4304 (Entry Pedestal Chassis w/4 x Hot Swap (3.5") HDD Drive Kit, 365W non-redundant power supply)</p> <ul style="list-style-type: none"> • N. American Power Cord 	<p>1</p>


 <p>Electronic Key: Intel® Server Component Extended Warranty, 30 day</p> <p>Intel® Server Component Extended Warranty Key: XXXXXXXXXXXXXXXX</p>	<p>SVCEWUPSY 911293</p>	<p>Intel® Server Component Extended Warranty</p> <p>Extended Warranty SKU for UP Systems</p> <p>Extends Warranty from 3 years to 5 years</p> <p>Can be applied to the following SKUs:</p> <p>R1304BTLSFAN, R1304BTLSFANNA, R1304BTLSHBN, R1304BTLSHBNNA, R1304BTSSFAN, R1304BTSSFANNA, P4304BTLSFAN, P4304BTLSFANNA, P4304BTLSHCN, P4304BTLSHCNNA, P4304BTSSFAN, P4304BTSSFANNA, P4304XXSFAN, P4304XXSFANNA, P4304XXSHCN, P4304XXSHCNNA,</p>	
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2. Spares and Accessories Order Codes

2.1 I/O Module Accessories





Image	Product Code MM UPC	Description	Minimum Order Quantity
	AXX4SASMOD 900946 00735858206372	Internal 4-port SAS module, based on LSI* 1064e controller, with Embedded RAID support.	1
	AXXRMS2LL040 907856 00735858215763	Internal 4-port SAS (6Gb) module 4P SAS with RAID 0,1,1E	5
	AXXRMS2AF040 907854 00735858215756	Internal 4-port SAS (6Gb) Entry Module w/ RAID 0,1,5	5
	AXXRAKSW5 878958 00735858181860	Intel RAID Activation Key AXXRAKSW5 to enable SW RAID 5 for Embedded SW RAID Technology stack on MB SATA ports (compatible with both S1200BTL, and S1200BTS)	1
	SVCEWRAID 911298	Intel® Server Component Extended Warranty Extended Warranty SKU RAID Extends Warranty from 3 years to 5 years Can be applied to the following SKUs: AXXRAKSW5, AXX4SASMOD, AXXRMS2AF040, AXXRMS2AF080, AXXRMS2LL040, AXXRMS2LL080	1

2.2 Management Module Accessories




Image	Product Code MM UPC	Description	Minimum Order Quantity
	AXXRMM4LITE 911660 00735858219297 5032037014946	Intel® Remote Management Module RMM4 LITE -Remote KVM upgrade Module	1

	<p>AXXRMM4 911670 00735858219303 5032037014922</p>	<p>Intel® Remote Management Module RMM4 – Remote KVM upgrade with Dedicated NIC Module</p>	1
	<p>AXXTPME3 912429 00735858219310 5032037015196</p>	<p>Intel® TPM Trusted Platform Module</p>	1




2.3 System Spares and Accessories

Image	Product Code MM UPC	Description	Minimum Order Quantity
	<p>AXXVRAIL 912796 00735858219693 5032037015202</p>	<p>Value Rail Kit Works for 438mm wide Intel Rack Chassis 1U, and 2U</p>	1
	<p>FFPANEL 911682 00735858219327 5032037019255</p>	<p>Front Panel board spare for use on all 1U/2U (R1300, R1200, R2200, 2300) Rack chassis and P4300 Pedestal Chassis</p>	5
	<p>FXXFPANEL 915982 00735858222419 5032037018968</p>	<p>Front Panel board spare for use on all 1U/2U (R1300, R1200, R2200, 2300) Rack chassis and P4300 Pedestal Chassis</p>	1
Image not yet available	<p>FR1304MSK 912802 00735858219723 5032037015790</p>	<p>Mechanical Spares Kit for R1304 Rack Chassis</p>	1
Image not yet available	<p>FR1304ESK 912803 00735858219730 5032037015776</p>	<p>Electrical Spares Kit for R1304 Rack Chassis</p>	1
Image not yet available	<p>FUP4X35HSDK 911885 00735858219440 5032037016230</p>	<p>Hot Swap Drive Bay Kit for P4304 Pedestal Chassis</p>	1
	<p>FXX35HSADPB 911771 00735858219495 5032037016391</p>	<p>3.5" HDD Hot Swap carrier spares for either R1304, R2300, or P4300 chassis</p>	8



	FUPBEZELFIX 911886 00735858219457 5032037016254	Spare Pedestal Bezel (Fixed version) (fits P4304)	1
	FUPBEZELHSD 911896 00735858219464 5032037016261	Spare Pedestal Bezel (w/door for HS bays) (fits P4304 with HS drive bays installed)	1
	FUP4X35NHDK 912770 00735858219488 5032037016247	Fixed drive carrier for fixed Pedestal chassis (Fits P4304)	4
Image not yet available	FUPSMSK 912773 00735858219518 5032037016292	Pedestal Mechanical Spares Kit for P4304 Pedestal Chassis	1
Image not yet available	FUPSESK 912774 00735858219525 5032037016285	Pedestal Electrical Spares Kit for P4304 Pedestal Chassis	1
	FUP4X35HSBP 913595 00735858220033 5032037019279	4 x 3.5" hard drive Hot Swap Backplane spare for P4304 Pedestal chassis	1
	AXXSATADVDROM 906872 00735858197663	Slimline SATA DVDROM Accessory	1
	AXXSATADVDRWROM 906873 00735858197670	Slim SATA DVD+/-RW ROM Accessory	1
	FPWRCABLENA 879287 00735858181129	North American Power Cord Spare	1
	FR1000FAN 912799 00735858219709 5032037015745	R1000 Chassis Family Fan spare kit. 28mm x 40mm for R1304 UP Rack system	3

	FR1304HSBP 912384 00735858219334 5032037015783	Hot Swap Backplane spare for R1304 1U chassis	5
	FXX1304HSBP 916119 00735858223126 5032037019323	Hot Swap Backplane spare for R1304 1U chassis	1
	AXXTIO 901685 00735858207683	I/O Shield for Intel® Server Boards S1200BTL and S1200BTS	50
Image not yet available	FUPSNHFANE3 911772 00735858219501 5032037016308	92mm rear fan kit (1 x 92 mm fan, 1 x rear vent cover) spare for P4304 Pedestal Chassis	1

2.4 Power Sub-system Spares

Image	Product Code MM UPC	Description	Minimum Order Quantity
	FR1000PS350 912801 00735858219853 5032037015769	R1304BT 350W non-redundant power supply spare	1
	FR1000PS250 912800 00735858219716 5032037015752	R1304BT 250W non-redundant power supply spare	1
	FUP365SNRPS 911884 00735858219433 5032037016223	P4304 365W non-redundant Power Supply Spare (80 Plus Silver)	1

2.5 Riser Spares and Accessories

Image	Product Code MM UPC	Description	Minimum Order Quantity
	F1US8RISER 916134 00735858222426 5032037018975	1 slot PCI-e Riser. Riser provides: 1 full-size x16 physical x8 electrical slot	1
	AR1000FHR 911681 00735858219341 5032037013871	1 slot PCI-e Riser. Riser provides: 1 full-size x16 physical x8 electrical slot	5