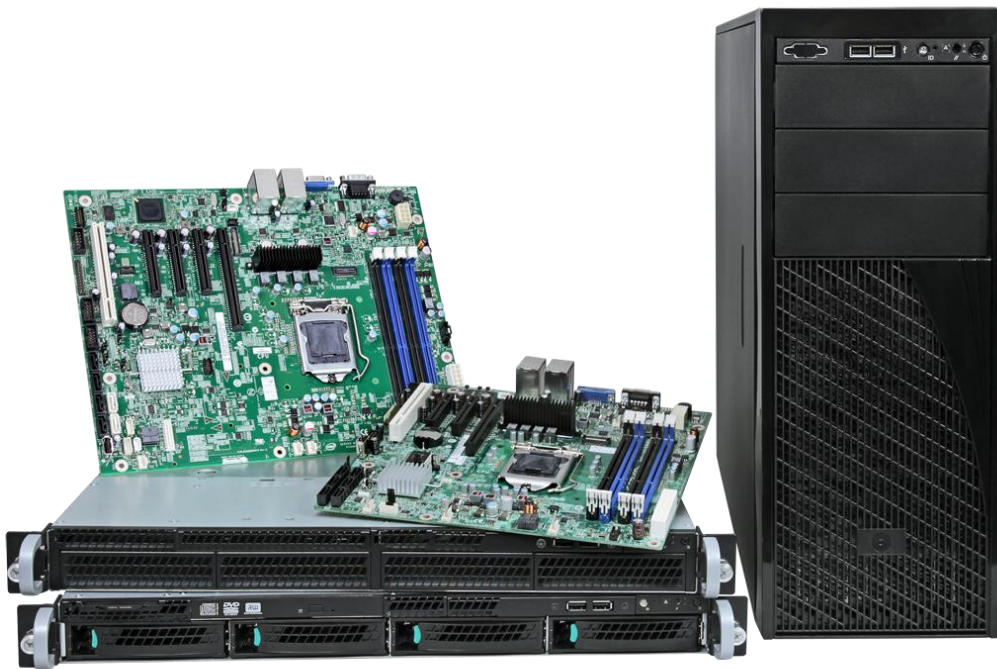


Intel® Server Systems R1304BT, Intel® Server Systems P4304BT, Intel® Server Boards S1200BT, and Intel Server Chassis P4304

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 1.8

April 2011

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

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER, AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

Intel products are not intended for use in medical, life saving, life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel server boards, server chassis, and processors may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Intel, Intel Xeon, Pentium, and the Intel logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

*Other names and brands may be claimed as the property of others.

Copyright © 2011, Intel Corporation

Table of Contents:

1. PRODUCT ORDER CODE INFORMATION	4
1.1 PRODUCT DESCRIPTIONS – OVERVIEW	4
1.2 PRODUCTION ORDER CODES FOR INTEL SERVER BOARDS AND INTEL SERVER SYSTEMS, AND INTEL SERVER CHASSIS.....	6
2. SPARES AND ACCESSORIES ORDER CODES	12
2.1 I/O MODULE ACCESSORIES	12
2.2 MANAGEMENT MODULE ACCESSORIES	12
2.3 SYSTEM SPARES AND ACCESSORIES	13
2.4 POWER SUB-SYSTEM SPARES.....	14
2.5 RISER SPARES AND ACCESSORIES.....	15

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 and Intel® RST
- Embedded Intel® Dual Gigabit Controller 82574L and 82579

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 and Intel® RST
- Embedded Intel® Dual Gigabit Controller 82574L and 82579

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

1. **Intel® Server System R1304BTL SFAN (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 R1304BTL SHBN (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 R1304BT SSFAN (Integrated SKU).** Intel Server Board S1200BTS 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 P4304BTLFCN (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 P4304BTLHCN (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 P4304BTSSFCN (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	Description	Minimum Order Quantity
	<p>S1200BTL 911776 00735858219204</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> <p>6 SATA ports (2x6Gbps, and 4x3Gbps) via Intel® C204 chipset with Intel® Embedded Server RAID Technology and Intel® RST</p> <p>Embedded Intel® Dual Gigabit Controller 82574L and 82579</p>	<p>1</p>
	<p>S1200BTS 911786 00735858219419</p>	<p>Intel® Server Board S1200BTS with Intel® C202 chipset 4 DDR3 UDIMM sockets (Unbuffered) 2 channel native (1066/1333MHz)</p> <p>Slots:</p> <p>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> <p>Embedded Intel® Dual Gigabit Controller 82574L and 82579</p>	<p>1</p>
	<p>BBS1200BTL 911645 00735858219181</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</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</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</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>R1304BTLSHBN 911688 00735858219532</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 <p>2 chassis front handles in the box (ears)</p>	<p>1</p>
	<p>R1304BTLSHBNNNA 907658 00735858219860</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>R1304BTLFAN 911698 00735858219549</p>	<p>Intel® Server System R1304BTLFAN 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 <p>2 chassis front handles in the box (ears)</p>	<p>1</p>
	<p>R1304BTLSFANNA 907775 00735858219570</p>	<p>Intel® Server System R1304BTLSFANNA Includes:</p> <ul style="list-style-type: none"> • Intel® Server System R1304BTLFAN • N American Power Cord 	<p>1</p>
	<p>R1304BTSSFAN 911709 00735858219556</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 <p>2 chassis front handles in the box (ears)</p>	<p>1</p>
	<p>R1304BTSSFANNA 907569 00735858219563</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</p>	<p>Intel® Server System P4304BTLSHCN</p> <p>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 	<p>1</p>
	<p>P4304BTLSHCNNA 907886 00735858220040</p>	<p>Intel® Server System P4304BTLSHCN</p> <p>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</p>	<p>Intel® Server System P4304BTLFCN</p> <p>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 	<p>1</p>
	<p>P4304BTLFCNNA 908252 00735858220057</p>	<p>Intel® Server System P4304BTLFCNNA</p> <p>Includes:</p> <ul style="list-style-type: none"> • Intel® Server System P4304BTLFCN (includes contents listed above) • N. American Power Cord 	<p>1</p>

	<p>P4304BTSSFCN 912777 00735858219426</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 	<p>1</p>
	<p>P4304BTSSFCNNA 908785 00735858220057</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 	<p>1</p>
	<p>P4304XXSFCN 911754 00735858219358</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</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>


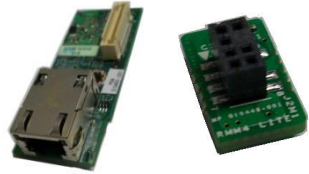

	<p>P4304XXSHCN 911765 00735858219365</p>	<p>Intel® Server Chassis P4304 (Entry Pedestal Chassis w/ 4 x Hot Swap (3.5") HDD Drive Kit, 365W non-redundant power supply)</p>	<p>1</p>
	<p>P4304XXSHCNNA 907812 00735858220026</p>	<p>Intel® Server Chassis P4304 (Entry Pedestal Chassis w/4 x Hot Swap (3.5")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

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

2.2 Management Module Accessories

Image	Product Code MM UPC	Description	Minimum Order Quantity
	AXXRMM4LITE 911660 00735858219297	Intel® Remote Management Module RMM4 LITE -Remote KVM upgrade Module	1
	AXXRMM4 911670 00735858219303	Intel® Remote Management Module RMM4 – Remote KVM upgrade with Dedicated NIC Module	1
	AXXTPME3 912429 00735858219310	Intel® TPM Trusted Platform Module	1

2.3 System Spares and Accessories






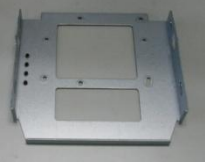









Image	Product Code MM UPC	Description	Minimum Order Quantity
	AXXVRAIL 912796 00735858219693	Value Rail Kit Works for all 438mm wide Intel Rack Chassis 1U, 2U, 3U, 4U, and 5U	1
	FFPANEL 911682 00735858219327	Front Panel board spare for use on all 1U/2U (R1300, R1200, R2200, 2300) Rack chassis and P4300 Pedestal Chassis	5
Image not yet available	FR1304MSK 912802 00735858219723	Mechanical Spares Kit for R1304 Rack Chassis	1
Image not yet available	FR1304ESK 912803 00735858219730	Electrical Spares Kit for R1304 Rack Chassis	1
Image not yet available	FUP4X35HSDK 911885 00735858219440	Hot Swap Drive Bay Kit for P4304 Pedestal Chassis	1
	FXX35HSADPB 911771 00735858219495	3.5" HDD Hot Swap carrier spares for either R1304, R2300, or P4300 chassis	8
	FUPBEZELFIX 911886 00735858219457	Spare Pedestal Bezel (Fixed version) (fits P4304)	1
	FUPBEZELHSD 911896 00735858219464	Spare Pedestal Bezel (w/door for HS bays) (fits P4304 with HS drive bays installed)	1
	FUP4X35NHDK 912770 00735858219488	Fixed drive carrier for fixed Pedestal chassis (Fits P4304)	4
Image not yet available	FUPSMSK 912773 00735858219518	Pedestal Mechanical Spares Kit for P4304 Pedestal Chassis	1


Image not yet available	FUPSESK 912774 00735858219525	Pedestal Electrical Spares Kit for P4304 Pedestal Chassis	1
	FUP4X35HSBP 913595 00735858220033	4 x 3.5" hard drive Hot Swap Backplane spare for P4304 Pedestal chassis	1
	AXXSATADVROM 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	R1000 Chassis Family Fan spare kit. 28mm x 40mm for R1304 UP Rack system	3
	FR1304HSBP 912384 00735858219334	Hot Swap Backplane spare for R1304 1U chassis	5
Image not yet available	FUPSNHFANE3 911772 00735858219501	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	R1304BT 350W non-redundant power supply spare	1
	FR1000PS250 912800 00735858219716	R1304BT 250W non-redundant power supply spare	1

	<p>FUP365SNRPS 911884 00735858219433</p>	<p>P4304 365W non-redundant Power Supply Spare (80 Plus Silver)</p>	<p>1</p>
---	--	---	----------

2.5 Riser Spares and Accessories

Image	Product Code MM UPC	Description	Minimum Order Quantity
	<p>AR1000FHR 911681 00735858219341</p>	<p>1 slot PCI-e Riser. Riser provides: 1 full-size x16 physical x8 electrical slot</p>	<p>5</p>