

Intel® Server Boards S4600LH2 and S4600LT2 Intel® Server Systems R2000LH2 and R2000LT2

Spares/Accessories List and Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server Boards S4600LH2 & S4600LT2 and the 2U Intel Rack Mount Server System



Revision 1.7

Oct 2013

Enterprise Platforms and Services Marketing

Revision History

February 19, 2013 – rev1.0, production version

April 8, 2013 – rev 1.1, fixed the “Table of Contents”

April 23, 2013 – rev 1.2, updated the MM#, EAN and UPC codes for RMS25PB080

April 30, 2013 – rev 1.3, Renamed the Product code from FR1304HSBP to FXX1304HSBP and new MM#917420 due to MOQ change

June 12, 2013 – rev 1.4, Updated the MM# of RAID cards and cables

July 12, 2013 – rev 1.5, Updated the MM# of RAID cards

Sep 11, 2013 – rev 1.6, Added AXXGPGPUCABLE

Oct 16, 2013 – rev 1.7, Added 1U/2U Premium Rail Kit to system SKUs

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 © 2013, Intel Corporation

Table of Contents:

1. SYSTEM PRODUCT ORDER CODES	4
1.1 PRODUCT DESCRIPTIONS – OVERVIEW	4
1.2 AVAILABLE SYSTEM ORDER CODES FOR R2000LH FAMILY	4
2. SPARES AND ACCESSORIES ORDER CODES	6
2.1 I/O MODULES AND STORAGE ADAPTERS	6
2.2 BEZELS	8
2.3 SYSTEM ACCESSORIES AND SPARES.....	8
2.4 POWER SUB-SYSTEM SPARES AND ACCESSORIES	10
2.5 CONTROL PANEL SPARES AND ACCESSORIES.....	11
2.6 RISER SPARES AND ACCESSORIES.....	12
2.7 RAILS AND MOUNTING OPTIONS	12
2.8 CHASSIS AND ELECTRICAL SPARES KITS	13
2.9 EXTENDED WARRANTY	15

1. System Product Order Codes

1.1 Product Descriptions – Overview

Product based on the Intel® Server Boards S4600LH2 and S4600LT2 will be offered as integrated system at production. The product supports 2U with 2 different drive options and a variety of spares and accessories to order.

Server boards will be offered as a 1-pack spare. Chassis will not be offered separately.

1.2 Available System order codes for R2000LH Family



Image	Product Code MM UPC MOQ	Description
	<p>R2208LT2HKC4 MM: 919479 UPC: 735858247498 EAN: 5032037042376 MOQ: 1</p>	<p>Intel® Server System R2208LT2HKC4</p> <p>Position Statement: Ideal for Enterprise Applications including Virtualization and Databases</p> <ul style="list-style-type: none"> • S4600LT2 motherboard w/Dual 10GbE and 48 DIMM Slots • 2U chassis • Power Distribution Board • Fan Board • Four (4) heatsinks • 1600W AC* PSU (2) • 8 x2.5" HDD and 2 internal Fixed SSD support • RMS25PB080, PCIe slot, 8 port SAS 6G ROC module with two (2) cables • Hot Swap Backplane supporting 8 x2.5" disk drive • 11 Hot Swap Redundant Fans • Two Risers – Left and Right Riser (1 each) • RMM4 • 1U/2U Premium Rail Kit • Rack Handles
	<p>R2304LH2HKC MM: 919482 UPC: 735858247511 EAN: 5032037042390 MOQ: 1</p>	<p>Intel® Server System R2304LH2HKC</p> <p>Position Statement: Ideal for Enterprise Applications including Virtualization and Databases</p> <ul style="list-style-type: none"> • S4600LH2 motherboard w/Dual 1GbE and 48 DIMM Slots • 2U chassis • Power Distribution Board • Fan Board • Four (4) heatsinks • 1600W AC* PSU (2) • 4 x3.5" HDD and 2 internal Fixed SSD support • Hot Swap Backplane supporting 4 x3.5" disk drive (AXXCBL740MS7P cable required if HBA)

Image	Product Code MM UPC MOQ	Description
		<p>or SAS I/O module installed)</p> <ul style="list-style-type: none"> • 11 Hot Swap Redundant Fans • Two Risers – Left and Right Riser (1 each) • RMM4 • 1U/2U Premium Rail Kit • Rack Handles

2. Spares and Accessories Order Codes

2.1 I/O Modules and Storage Adapters






Image	Product Code MM UPC MOQ	Description
Picture not yet available	AXXIOMKIT MM: 920852 UPC: 735858244978 EAN:5032037039543 MOQ: 1	First IO module does NOT require the Bracket as it connects to the Baseboard directly. <u>AXXIOMKIT (IO Module Cable)</u> required if the <u>2nd networking modules need to be installed.</u>
	AXX10GBNIAIOM MM: 917905 UPC: 735858241090 EAN:5032037035842 MOQ: 1	Dual SFP+ port 10GbE IO module based on Intel® 82599 10 Gigabit Ethernet Controller. Supports direct connect or transceiver. Cables/transceivers not included. Includes three screws
	AXX10GBTWLIOM MM: 917907 UPC: 735858241113 EAN:5032037035866 MOQ: 1	Dual RJ-45 port 10GBASE-T IO module, based on Intel® Ethernet Controller X540 (Twinville). Includes three screws
 <p data-bbox="240 1333 479 1365">*Dual ports shown</p>	AXX1FDRIBIOM MM: 918607 UPC: 735858241106 EAN:5032037035859 MOQ: 1	Single port, FDR speed Infiniband module, with QSFP connector, based on Mellanox CX3 chip. Includes three screws
	AXX2FDRIBIOM MM: 920627 UPC: 735858245722 EAN:5032037040235 MOQ: 1	Dual port, FDR 56GT/S (per port capable) speed Infiniband module, with QSFP connector, based on Mellanox CX3 MT27508A1-FCCR-FV chip. Note, due to PCIe3 x8 bandwidth limitation, both ports can't run simultaneously at full speed. Includes three screws
	AXX4P1GBPWL IOM MM: 917911 UPC: 735858241083 EAN:5032037035835 MOQ: 1	Quad port 1GbE IO Module based on Intel® Ethernet Controller I350
		Intel® Integrated RAID Module RMS25PB080 LSI* SAS2208 ROC











Image	Product Code MM UPC MOQ	Description
	<p>RMS25PB080 924868 (Obsolete MM# 923072) 00735858238946 MOQ: 5</p>	<p>6Gb/s SAS/SATA x8 PCIe 3.0 8 internal ports 1GB embedded memory MD2 Low Profile, half-length form factor Support RAID 0,1,10,5,6,50,60 RAID Premium Feature Key supported Cables are not included</p>
	<p>RMS25PB040 924869 (Obsolete MM# 923083) 00735858238953 MOQ: 5</p>	<p>Intel® Integrated RAID Module RMS25PB040 LSI* SAS2208 ROC 6Gb/s SAS/SATA x8 PCIe 3.0 4 internal ports 1GB embedded memory MD2 Low Profile, half-length form factor Support RAID 0,1,10,5,6,50,60 RAID Premium Feature Key supported Cables are not included</p>
	<p>RMT3PB080 924870 (Obsolete MM# 923084) 00735858238960 MOQ: 5</p>	<p>Intel® Integrated RAID Module RMT3PB080 LSI* SAS2208 ROC 6Gb/s SATA x8 PCIe 3.0 8 internal ports 512MB embedded memory MD2 Low Profile, half-length form factor Support RAID 0,1,10,5,6,50,60 RAID Premium Feature Key supported Cables are not included</p>
	<p>RMS25KB080 924454 (Obsolete MM# 917089) 735858239028 50320370338005 MOQ: 5</p>	<p>SAS Module: 8 Port SAS-2.1 version, Entry-level HW RAID/straight SAS PCIe form factor</p>
	<p>RMS25KB040 924455 (Obsolete MM# 917090) 735858239035 50320370338175 MOQ: 5</p>	<p>SAS Module: 4 Port SAS-2.1 version, Entry-level HW RAID/straight SAS PCIe form factor</p>

Image	Product Code MM UPC MOQ	Description
	AXXRSBBU9 919738 00735858220286 MOQ: 5	Intel® RAID Smart Battery Backup module for use with Intel® Integrated Server RAID
	AXXRMFBU2 926341 007358582445415 MOQ: 5	Intel® RAID Maintenance Free Backup Unit AXXRMFBU2 for use with Intel® Integrated RAID Module.
	AXXCBL740MS7P MM: 914239 UPC: 735858220743 EAN: N/A MOQ: 5	Intel RAID/SAS Cable Kit AXXCBL740MS7P provides two 740mm cables. Each cable has a Mini-SAS 8087 connector on the initiator (RAID card) end and four 7-Pin (SATA style) connectors on the target (drive or backplane) end
	AXXCBL650MSMS 918376 UPC: 735858224444 EAN: 5032037019910 MOQ: 5	Kit of 2 cables, 650mm length, straight SFF-8087 to SFF-8087 connectors.
	AXXGPGPUCABLE 919761 UPC: 735858247566 EAN: 5032037042444 MOQ: 10	GPGPU cable accessory supporting Intel® Xeon Phi™ Coprocessors

2.2 Bezels

Image	Product Code MM UPC MOQ	Description
	A2UBEZEL MM: 918086 UPC: 735858241137 EAN: 5032037035880 MOQ: 1	2U locking bezel with two branding clip-on inserts for logo, and one snap-on swoosh

2.3 System Accessories and spares

Image	Product Code MM UPC MOQ	Description
-------	----------------------------------	-------------



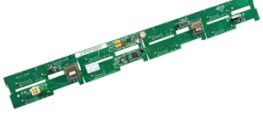









Image	Product Code MM UPC MOQ	Description
	S4600LT2 MM: 919655 UPC: 735858247542 EAN: 5032037042420 MOQ: 1	Board spare w/Dual 10GbE and DIMM count: 48, single pack
	S4600LH2 MM: 919623 UPC: 735858247559 EAN: 5032037042437 MOQ: 1	Board spare w/Dual 1GbE and DIMM count: 48, single pack
	F1U8X25HSBP MM: 917977 UPC: 735858241014 EAN: 5032037035767 MOQ: 1	Hot Swap Backplane spare board supporting 8 x2.5" drives
	FXX1304HSBP MM: 917420 UPC: 735858223126 EAN: 5032037019323 MOQ: 1	Hot Swap Backplane spare board supporting 4 x3.5" drives
	AXXRMM4 MM: 911670 UPC: 735858219303 EAN: 5032037014922 MOQ: 1	Intel® Remote Management Module RMM4 – Remote KVM upgrade with Dedicated NIC Module
	AXXSATADVDRROM MM: 906872 UPC: 735858197663 EAN: 5032037015127 MOQ: 1	Slimline SATA DVDROM Accessory
	AXXSATADVDRWROM MM: 906873 UPC: 735858197670 EAN: 5032037015134 MOQ: 1	Slim SATA DVD+-RW ROM Accessory
	FPWRCABLENA MM: 879287 UPC: 735858181129 EAN: 5032037015738 MOQ: 1	North American (AC) Power Cord Spare

Image	Product Code MM UPC MOQ	Description
	FXX35HSADPB MM: 912771 UPC: 735858219495 EAN: 5032037016391 MOQ: 8	Spare 3.5" HDD hot swap carriers Includes mounting screws for mounting 2.5" drives
	FXX25HSCAR MM: 918807 UPC: 735858241182 EAN: 5032037035910 MOQ: 8	Spare 2.5" HDD hot swap carriers
	AXXTPE5 MM: 919737 UPC: 735858240352 EAN: 5032037035088 MOQ: 1	TPM Module for server systems
	When no key installed	4 SATA channels active with SW RAID „basic“ which includes RSTe SW RAID 0/1/10/5 + LSI SW RAID 0/1/10
	RKSATA4R5 MM: 916346 UPC: 735858238861 EAN: 5032037033640 MOQ: 5	Intel® RAID C600 Upgrade Key RKSATA4R5, enables LSI SATA SW RAID 5 Key, Black
	RKSAS4 MM: 916349 UPC: 735858238892 EAN: 5032037033671 MOQ: 5	Intel® RAID C600 Upgrade Key RKSAS4, activates 4 SAS ports and includes RSTe SW RAID 0/1/10 (no RAID 5) and LSI SW RAID 0/1/10 , Green
	RKSAS4R5 MM: 916350 UPC: 735858238908 EAN: 5032037033688 MOQ: 5	Intel® RAID C600 Upgrade Key RKSAS4R5, activates 4 SAS ports and includes RSTe SW RAID 0/1/10 (no RAID 5) and LSI SW RAID 0/1/10/5 (enables LSI SW RAID 5), Yellow



2.4 Power Sub-system Spares and Accessories

Image	Product Code MM UPC MOQ	Description
-------	----------------------------------	-------------

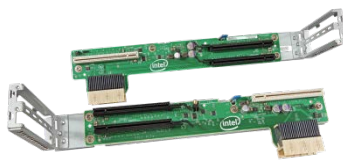
	<p>FXX1600PCRPS MM: 915606 UPC: 735858243650 EAN:5032037038294 MOQ: 1</p>	<p>Spare 1600W AC Hot-Swap power supply module</p>
	<p>FXXLHPPDB MM: 921254 UPC: 735858247580 EAN:5032037042468 MOQ: 1</p>	<p>Spare Power Distribution Board FXXLHPPDB, supporting Intel® Server Chassis R2000LH</p>
	<p>FXXE84X106HS MM:918321 UPC: 735858236683 EAN:5032037031455 MOQ: 2</p>	<p>Spare 1U Heat Sink 84 x 106 Aluminum Extrusion (Front Heat Sink)</p>
	<p>FXXCA84X106HS MM: 918318 UPC: 735858236676 EAN:5032037031448 MOQ: 2</p>	<p>Spare 1U Heat Sink 84 x 106 Cu/Al (Rear Heat Sink)</p>
	<p>FXXLHPFANBD MM: 921258 UPC: 735858247597 EAN:5032037042475 MOQ: 1</p>	<p>Spare Fan Board FXXLHPFANBD, supporting Intel® Server Chassis R2000LH</p>
	<p>FXXLHPFAN MM: 924285 UPC: 735858247603 EAN:5032037042482 MOQ: 1</p>	<p>Spare Redundant Hot Swap Fans (Upper and Lower – 1 each) FXXLHFAN, supporting Intel® Server Chassis R2000LH</p>

2.5 Control Panel Spares and Accessories



Image	Product Code MM UPC MOQ	Description
	<p>A1U2ULCP MM: 921028 UPC: 735858245302</p>	<p>LCP Module (local control panel) Enables system to display critical errors from SEL for instant diagnostic. Also</p>

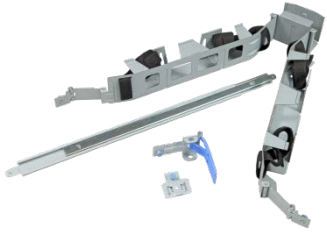
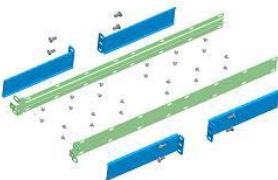
	EAN:5032037039826 MOQ: 1	allows custom message for branding. When installed – replaces ODD on 1208 family, and replaces IO ports tray on 1304,2208,2216,2308 families. Not compatible with 2224 and 2312 families. Module has 2 USB ports. No front video connector.
	FXXFPANEL MM: 915982 UPC: 735858222419 EAN:5032037018968 MOQ: 1	Front Panel board spare for P4000, R1000, R2000 server chassis

2.6 Riser Spares and Accessories

Image	Product Code MM UPC MOQ	Description
	F4S16RISER MM: 921257 UPC: 735858247627 EAN:5032037042505 MOQ: 1	Spare Left Riser and Right Riser F4S16RISER, supporting Intel® Server Chassis R2000LH

2.7 Rails and Mounting Options

Image	Product Code MM UPC MOQ	Description
	AXXPRAIL 924417 735858219686 MOQ: 1	1U/2U Premium Rail Kit. Full extension and toolless rail kit. Supports cable management arm. Rail allows adjustment within 609.6mm~762mm to fit difference depth rack. Maximum extension when installed (travel distance) 800 mm. Note: It will only support specific rack type with 3/8" square and 7.1mm round holes.
	AXXELVRAIL MM# 920970 UPC: 735858244367 EAN:5032037038980 MOQ: 1	Enhanced Value Rail Kit Works for all 438mm wide Intel Rack Chassis 1U, 2U, and 4U. Rail allows adjustment within 609.6mm~765mm to fit difference depth rack. Maximum extension when installed (travel distance) 424.2mm Note: It will only support specific rack type with 3/8" square and

		7.1mm round holes.
	AXX1U2UCMA MM: 913117 UPC: 735858224604 EAN:5032037019972 MOQ: 1	Cable management arm for Premium 1U/2U rail kit
	AXX2POSTBRCKT MM: 918808 UPC:735858245319 EAN:5032037039833 MOQ: 1	Fixed mount bracket kit for 2-post racks

2.8 Chassis and Electrical Spares Kits


Image	Product Code MM UPC MOQ	Description
	R2000LHMKTMECH MM#: 923352 UPC: 735858250542 EAN:5032037045025 MOQ: 1	R2000LHMKTMECH Chassis Maintenance kit (mechanical parts) supporting Intel® Server Board S4600LH2/S4600LT2 includes: <ul style="list-style-type: none"> • IO Module Filler Panel (2) • Optical Disk Drive Plastic Latch (1) • Optical Drive Filler Panel (2) • CPU Heat Sink Spacer (4) • Cable Management Clamp (2) • Power Supply Filler (2) • Rack handles (set of 2) • DIMM Blanks (48) • Front I/O Bracket w/USB & Dsub (1) • Misc Hardware (screws, USB Mounting Screws, etc)


Image	Product Code MM UPC MOQ	Description
	<p>R2000LHMKTELEC MM#: 923355 UPC: 735858250627 EAN:5032037045032 MOQ: 1</p>	<p>R2000LHMKTELEC Chassis Maintenance kit (electrical part) supporting Intel® Server Board S4600LH2/S4600LT2 includes:</p> <ul style="list-style-type: none"> • The Main Server board Power Cable x1 • The Power Supply Control Cable x1 • The Lower System Fan Power and Control Cable x1 • The Optical Disk and Solid State Drive Power Cable x1 • The Front Panel System Control Cable x1 • The Hotswap Backplane I2C Cable x1 • The SATA Data Cable for the Hard Drive, Solid State, and/or Optical Drive Devices x1 • The Front Access Wall-mount USB Cable x1 • The Front Access Wall-mount Video Cable x1 • The Upper Hotswap Fan Harness Cable 190mm x1 • The Upper Hotswap Fan Harness Cable 250mm x1 • The Upper Hotswap Fan Harness Cable 310mm x1 • The Upper Hotswap Fan Harness Cable 340mm x1 • The Hotswap Backplane Power Cable x1 • The Patsburg to 3.5" HSBP SAS Data Cable x1 • The Patsburg to 2.5" HSBP SAS 0-3 Data Cable x1 • The Patsburg to 2.5" HSBP SAS 4-7 Data Cable x1 • The PCI/ROC to 2.5" HSBP SAS 0-3 Data Cable x1 • The PCI/ROC to 2.5" HSBP SAS 4-7 Data

Image	Product Code MM UPC MOQ	Description
		Cable x1 <ul style="list-style-type: none"> The black screws for the Wall-mount USB Cable

2.9 Extended warranty

Image	Product Code MM UPC MOQ	Description
	SVCEWMPBD UPC: 735858250634 EAN:5032037045049 MM#: 9914870	Four Processor Intel® Server Board Extended Warranty
	SVCEWMPSY UPC: 735858253208 EAN: 5032037046220 MM#: 914881	Four Processor Intel® Server System Extended Warranty