

# **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



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Enterprise Platforms and Services Marketing

## ***Revision History***

February 19, 2013 – rev1.0, production version

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

<b>Image</b>	<b>Product Code MM UPC MOQ</b>	<b>Description</b>
		<ul style="list-style-type: none"><li>• 11 Hot Swap Redundant Fans</li><li>• Two Risers – Left and Right Riser (1 each)</li><li>• RMM4</li><li>• Extended Value Rail (will ECO to premium rail once ready after launch)</li><li>• Rack Handles</li></ul>

## 2. Spares and Accessories Order Codes

### 2.1 I/O Modules and Storage Adapters







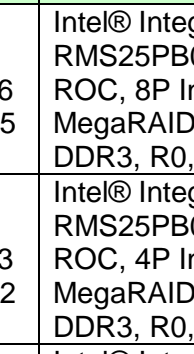
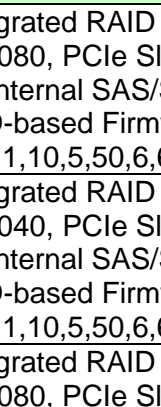
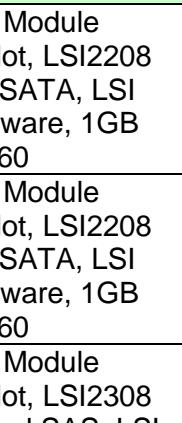

Image	Product Code MM UPC MOQ	Description
Picture not yet available	AXXIOMKIT MM: 920852 UPC: 735858244978 EAN:5032037039543 MOQ: 1	First IO module does NOT require the Bracket as it connects to the Baseboard directly. <u>AXXIOMKIT (IO Module Cable) required if the 2nd networking modules need to be installed.</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 1373 480 1402">*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
	AXX4P1GBPWLIOIM MM: 917911 UPC: 735858241083 EAN:5032037035835 MOQ: 1	Quad port 1GbE IO Module based on Intel® Ethernet Controller I350

Image	Product Code MM UPC MOQ	Description
	RMS25PB080 MM: 917056 UPC: 735858238946 EAN:5032037033725 MOQ: 5	Intel® Integrated RAID Module RMS25PB080, PCIe Slot, LSI2208 ROC, 8P Internal SAS/SATA, LSI MegaRAID-based Firmware, 1GB DDR3, R0,1,10,5,50,6,60
	RMS25PB040 917078 UPC: 735858238953 EAN:5032037033732 MOQ: 5	Intel® Integrated RAID Module RMS25PB040, PCIe Slot, LSI2208 ROC, 4P Internal SAS/SATA, LSI MegaRAID-based Firmware, 1GB DDR3, R0,1,10,5,50,6,60
	RMS25KB080 917089 UPC: 735858239028 EAN:5032037033800 MOQ: 5	Intel® Integrated RAID Module RMS25KB080, PCIe Slot, LSI2308 I/O Controller, 8P Internal SAS, LSI IR-based RAID 0,1,1E
	RMT3PB080 917079 735858238960 5032037033749 MOQ: 5	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
	RMS25KB040 917090 735858239035 5032037033817 MOQ: 5	Intel® Integrated RAID Module RMS25KB040, PCIe Slot, LSI2308 I/O Controller, 4P SAS, LSI IR-based RAID 0,1,1E
	AXXRSBBU9 MM#: 919738 UPC: 735858220286 EAN:5032037039567 MOQ: 5	Intel® RAID Smart Battery AXXRSBBU9 provides optional battery backup for mainstream RS25, RMS25, RT3 and RMT3 family RAID products.
	AXXRMFBU2 MM: 919876 UPC: 735858244541 EAN:5032037039116 MOQ: 5	Intel® RAID Maintenance Free Backup Unit with NAND Flash and Supercapacitor
	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

## 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
	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
	FR1304HSBP MM: 912384 UPC:735858219334 EAN: 5032037015783 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
	AXXSATADVDROM MM: 906872 UPC:735858197663 EAN: 5032037015127 MOQ: 1	Slimline SATA DVDROM Accessory
















Image	Product Code MM UPC MOQ	Description
	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
	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	Trusted Platform 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	Intel® RAID C600 Upgrade Key RKSAS4R5, activates 4 SAS ports and includes RSTe SW RAID 0/1/10 (no



Image	Product Code MM UPC MOQ	Description
	EAN: 5032037033688 MOQ: 5	RAID 5) and LSI SW RAID 0/1/10/5 (enables LSI SWR5), Yellow

## 2.4 Power Sub-system Spares and Accessories


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

		
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## 2.5 Control Panel Spares and Accessories



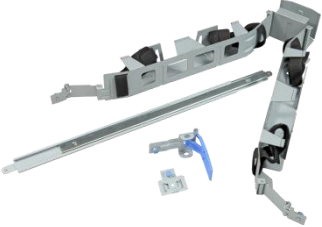
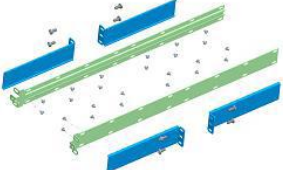
Image	Product Code MM UPC MOQ	Description
	A1U2ULCP MM: 921028 UPC: 735858245302 EAN:5032037039826 MOQ: 1	LCP Module (local control panel) Enables system to display critical errors from SEL for instant diagnostic. Also allows custom message for branding. When installed – replaces ODD on 1208 family, 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

	<p>AXXPRAIL MM# 924417 UPC: TBD EAN:TBD MOQ: 1</p>	<p>1U/2U Premium Rail Kit Full extension and toolless rail kit. Supports cable management arm and new requirement from UL of supporting addl weight. <a href="#">Plan to have this Premium Rails in Q2 2013.</a></p>
	<p>AXXELVRAIL MM# 920970 UPC: 735858244367 EAN:5032037038980 MOQ: 1</p>	<p>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</p>
	<p>AXX1U2UCMA MM: 913117 UPC: 735858224604 EAN:5032037019972 MOQ: 1</p>	<p>Cable management arm for Premium 1U/2U rail kit</p>
	<p>AXX2POSTBRCKT MM: 918808 UPC:735858245319 EAN:5032037039833 MOQ: 1</p>	<p>Fixed mount bracket kit for 2-post racks</p>

## 2.8 Chassis and Electrical Spares Kits

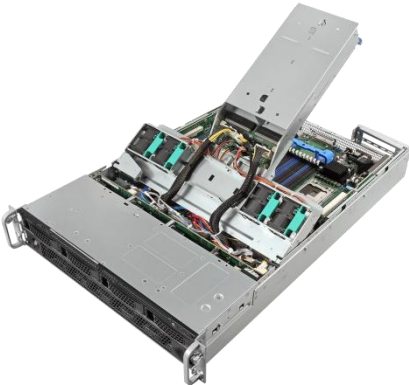
Image	Product Code MM UPC MOQ	Description
	<p>R2000LHMKTMECH MM#: 923352 UPC: 735858250542 EAN:5032037045025 MOQ: 1</p>	<p>R2000LHMKTMECH Chassis Maintenance kit (mechanical parts) supporting Intel® Server Board S4600LH2/S4600LT2 includes:</p> <ul style="list-style-type: none"> <li>• IO Module Filler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

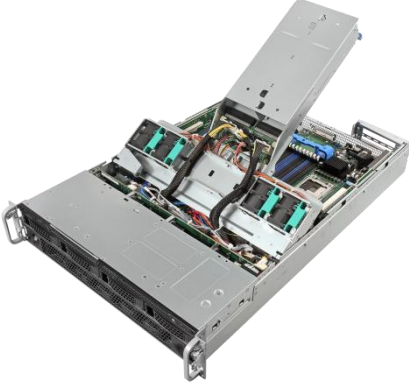
Image	Product Code MM UPC MOQ	Description
		<ul style="list-style-type: none"> <li>Misc Hardware (screws, USB Mounting Screws, etc)</li> </ul>
	<p>R2000LHMKTELEC MM#: 923355 UPC: 735858250627 EAN:5032037045032 MOQ: 1</p>	<p>R2000LHMKTELEC Chassis Maintenance kit (electrical part) supporting Intel® Server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

Image	Product Code MM UPC MOQ	Description
		<ul style="list-style-type: none"> <li>• The PCI/ROC to 2.5" HSBP SAS 4-7 Data Cable x1</li> <li>• The black screws for the Wall-mount USB Cable</li> </ul>

## 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