

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 1.6

Sep 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

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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"> • 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 • Extended Value Rail (will ECO to premium rail once ready after launch) • Rack Handles
	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"> • 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

Image	Product Code MM UPC MOQ	Description
		<p>(AXXCBL740MS7P cable required if HBA 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 • Extended Value Rail (will ECO to premium rail once ready after launch) • 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) 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
 *Dual ports shown	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
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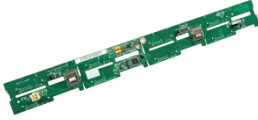









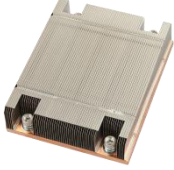


Image	Product Code MM UPC MOQ	Description
	S4600LT2 MM: 919655 UPC: 735858247542 EAN: 5032037042420 MOQ: 1	Board spare w/Dual 10GbE and DIMM count: 48, single pack
	S4600LH2 MM: 919623 UPC: 735858247559 EAN: 5032037042437 MOQ: 1	Board spare w/Dual 1GbE and DIMM count: 48, single pack
	F1U8X25HSBP MM: 917977 UPC: 735858241014 EAN: 5032037035767 MOQ: 1	Hot Swap Backplane spare board supporting 8 x2.5" drives
	FX1304HSBP 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
	AXXSATADVDR0M 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
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	<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>FXXEA84X106HS 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>

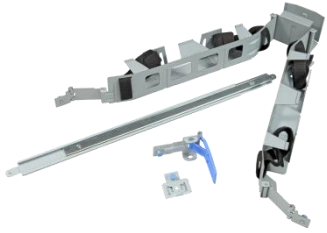
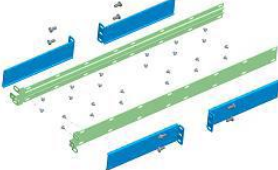
	EAN:5032037039826 MOQ: 1	allows custom message for branding. When installed – replaces ODD on 1208 family, and replaces IO ports tray on 1304,2208,2216,2308 families. Not compatible with 2224 and 2312 families. Module has 2 USB ports. No front video connector.
	FXXFPANEL MM: 915982 UPC: 735858222419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

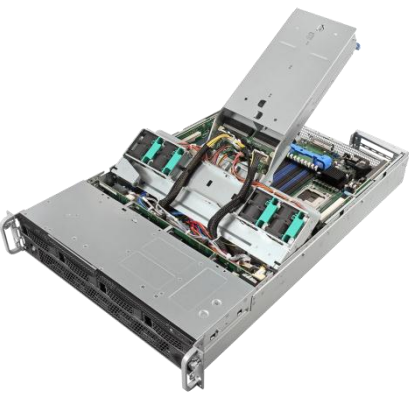
Image	Product Code MM UPC MOQ	Description
	R2000LHMKTMECH MM#: 923352 UPC: 735858250542 EAN:5032037045025 MOQ: 1	R2000LHMKTMECH Chassis Maintenance kit (mechanical parts) supporting Intel® Server Board S4600LH2/S4600LT2 includes: <ul style="list-style-type: none"> • IO Module Filler Panel (2) • Optical 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)

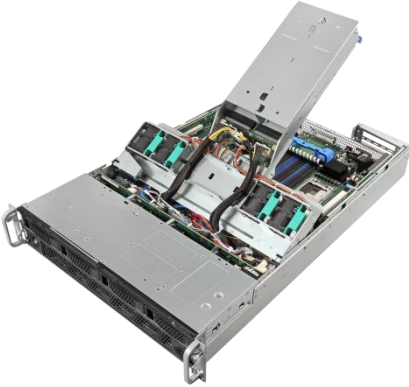
Image	Product Code MM UPC MOQ	Description
	<p>R2000LHMKTELEC MM#: 923355 UPC: 735858250627 EAN:5032037045032 MOQ: 1</p>	<p>R2000LHMKTELEC Chassis Maintenance kit (electrical part) supporting Intel® Server Board S4600LH2/S4600LT2 includes:</p> <ul style="list-style-type: none"> • The Main Serverboard 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