

Intel® Server Board S2400EP

Intel® Server Chassis R1000EP

Spares/Accessories List and Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server Family S2400EP



Revision 2.1

April 2014

Platform Collaboration and Systems Marketing

Revision History

December, 2013 – 2.0 – Added support for Intel® Xeon® processor E5-2400 v2 product family

April, 2014 – 2.1 – Remove the IO shield information from description of the Motherboard Box.

April, 2015 – 2.2 - Updated Dual RJ-45 port 10GBASE-T IO module name and MM number

Disclaimers

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.

A "Mission Critical Application" is any application in which failure of the Intel Product could result, directly or indirectly, in personal injury or death. SHOULD YOU PURCHASE OR USE INTEL'S PRODUCTS FOR ANY SUCH MISSION CRITICAL APPLICATION, YOU SHALL INDEMNIFY AND HOLD INTEL AND ITS SUBSIDIARIES, SUBCONTRACTORS AND AFFILIATES, AND THE DIRECTORS, OFFICERS, AND EMPLOYEES OF EACH, HARMLESS AGAINST ALL CLAIMS COSTS, DAMAGES, AND EXPENSES AND REASONABLE ATTORNEYS' FEES ARISING OUT OF, DIRECTLY OR INDIRECTLY, ANY CLAIM OF PRODUCT LIABILITY, PERSONAL INJURY, OR DEATH ARISING IN ANY WAY OUT OF SUCH MISSION CRITICAL APPLICATION, WHETHER OR NOT INTEL OR ITS SUBCONTRACTOR WAS NEGLIGENT IN THE DESIGN, MANUFACTURE, OR WARNING OF THE INTEL PRODUCT OR ANY OF ITS PARTS.

Intel may make changes to specifications and product descriptions at any time, without notice. Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined". Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. The information here is subject to change without notice. Do not finalize a design with this information.

The products described in this document 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.

Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order.

Copies of documents which have an order number and are referenced in this document, or other Intel literature, may be obtained by calling 1-800-548-4725, or go to: <http://www.intel.com/design/literature>.

Table of Contents



1. SYSTEM PRODUCT ORDER CODES.....	1
1.1 PRODUCT DESCRIPTIONS – OVERVIEW.....	1
1.2 AVAILABLE BOARD SKUS FOR S2400EP FAMILY	1
1.3 S2400EP BIK SKUs.....	2
2. SPARES AND ACCESSORIES ORDER CODES.....	3
2.1 S2400EP DEDICATED SPARE AND ACCESSORIES	3
2.2 GENERAL SPARES AND ACCESSORIES.....	4
2.3 DRIVE/STORAGE SUBSYSTEM SPARES AND ACCESSORIES.....	6
2.4 EXPANSION MODULES: IO MODULE, SAS MODULE, RMM4, TPM	8
2.5 SAS CABLE KITS (FOR UPGRADE TO SAS MODULES, HBA CARDS, AND SPARES).....	12
2.6 ON-SITE REPAIR AND EXTENDED WARRANTY.....	14

1. System Product Order Codes

1.1 Product Descriptions – Overview




Product based on the Intel® Server Board S2400EP is offered as both standard box board, OEM 10-pack board and system.

1.2 Available Board SKUs for S2400EP Family

Image	Product Code MM UPC EAN MOQ	Description
	<p>DBS2400EP2 920693 00735858246569 5032037041027 5</p>	<p>Intel® production Server Board DBS2400EP2 (Eagle Pass single pack)</p> <ul style="list-style-type: none"> - 12" (W) x 10.5" (L) - 8 U/R-DIMMs of DDR3/DDR3L - Up to 8 SAS ports (with -D/-T key) and 2 SATA ports - Dual GbE - Compatible with Intel® Xeon® processor E5-2400 or Intel® Xeon® processor E5-2400 v2 series. - 2 SATA cables - Intel® Multi-Server Manager Software - Quick Start Guide
	<p>DBS2400EP4 920696 00735858246576 5032037041034 5</p>	<p>Intel® production Server Board DBS2400EP4 (Eagle Pass single pack)</p> <ul style="list-style-type: none"> - 12" (W) x 10.5" (L) - 8 U/R-DIMMs of DDR3/DDR3L - Up to 8 SAS ports (with -D/-T key) and 2 SATA ports - Quad GbE - Compatible with Intel® Xeon® processor E5-2400 or Intel® Xeon® processor E5-2400 v2 series. - 2 SATA cables - Intel® Multi-Server Manager Software - Quick Start Guide

1.3 S2400EP BIK SKUs

PCSD Romley Chassis and Systems shipped to the US & Canada contain North American power cords. North American customers no longer need to order skus ending in "NA" to receive power cords on Romley products.

Image	Product Code MM UPC EAN MOQ	Description
	<p>R1304EP2SFFN 919763 00735858246583 5032037041041 1</p>	<p>S2400EP2 in R1000 chassis w/ Fixed PSU and Fixed HDD</p> <ul style="list-style-type: none"> - One S2400EP2 baseboard - 4x3.5" Fixed HDD Bay - one 600W Fixed PSU - non-redundant fans - two heatsinks - one air duct - one value rail kit AXXVRAIL - one 1U 21.8" depth chassis
	<p>R1304EP2SHFN 919764 00735858246590 5032037041058 1</p>	<p>S2400EP2 in R1000 chassis w/ Fix PSU and hot swap HDD</p> <ul style="list-style-type: none"> - One S2400EP2 baseboard - 4x3.5" Hotswap HDD backplane and cage - one 600W Fixed PSU - non-redundant fans - two heatsinks - one air duct - one value rail kit AXXVRAIL - one 1U 21.8" depth chassis
	<p>R1208EP2SHFN 919765 00735858246606 5032037041065 1</p>	<p>S2400EP2 in R1000 chassis w/ Fix PSU and hot swap HDD</p> <ul style="list-style-type: none"> - One S2400EP2 baseboard, - 8x2.5" Hotswap HDD backplane and cage - one 600W Fixed PSU - non-redundant fans - two heatsinks - one air duct - one value rail kit AXXVRAIL - one 1U 21.8" depth chassis

2. Spares and Accessories Order Codes

2.1 S2400EP Dedicated Spare and Accessories

Image	Product Code MM UPC EAN MOQ	Description
	FEPBPSMK 920153 00735858246637 5032037041096 1	Maintenance kit including one air duct spare for R1000 chassis and S2400EP customized cable for R1000
	FXXBP4028FAN 920230 00735858246644 5032037041102 1	Fan spare for S2400EP/S1400SP in R1000 chassis, 10pin-connector fan
	FXX600WFIXPSU 920229 00735858246651 5032037041119 1	600W Fixed PSU spare for S2400EP in R1000 chassis
	AXX1UPCIEX16 919808 00735858244534 5032037039109 1	R1000 chassis standard PCIe x 16 slot riser
	BXSTS100P 900492 00735858205146 5032037009102 1	Passive Heat-Sink with Ducted Airflow BXSTS100P, Single
	FXXEA90X90HS 918256 00735858235082 5032037029834 2	Spare 1U Heat Sink FXXEA90X90HS (Ex-Aluminum 90mmx90mm) for S1400SP, S2400EP, S2400LP, S2400BB. It is for S2400EP front processor.
	FXXCA90X90HS 918255 00735858235075 5032037029827 2	Spare 1U Heat Sink FXXCA90X90HS (Copper-Aluminum 90mmx90mm) for, S2400EP, S2400LP. It is for S2400EP rear processor.

2.2 General Spares and Accessories


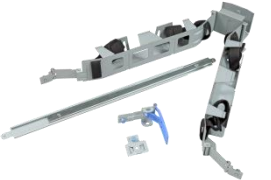



Image	Product Code MM UPC EAN MOQ	Description
	<p>A1U2ULCP 921028 735858245302 5032037039826 1 Not available at launch</p>	<p>LCP Module (local control panel) Enables system to display critical errors from SEL for instant diagnostic. Also allows custom message for branding. When installed – replaces ODD on 1208 family, and replaces IO ports tray on 1304, 2208, 2216, and 2308 families. Not compatible with 2224 and 2312 families. Module has 2 USB ports. No front video connector.</p>
	<p>FFPANEL 911682 735858219327 5032037019255 5</p>	<p>Front Panel board spare for use on all 1U/2U (R1000, R2000) Rack chassis and P4300 Pedestal Chassis</p>
	<p>A1UBEZEL 917983 735858241120 5032037035873 1</p>	<p>1U locking bezel with two branding clip-on inserts for logo, and one snap-on swoosh</p>
	<p>AXXVRAIL 912796 735858219693 5032037015202 1</p>	<p>Value Rail Kit Works for all 438mm wide Intel Rack Chassis 1U, 2U, 4U</p>
	<p>AXXPRAIL 912797 735858219686 5032037014823 1</p>	<p>1U/2U Premium Rail Kit Full extension and toolless rail kit. Supports cable management arm</p>
	<p>AXX1U2UCMA 913117 735858224604 5032037019972 1</p>	<p>Cable management arm for Premium 1U/2U rail kit</p>
	<p>AXX2POSTBRCKT 918808 735858245319 5032037039833 1</p>	<p>Fixed mount bracket kit for 2-post racks</p>

Image	Product Code MM UPC EAN MOQ	Description
	AXXSATADVDRM 906872 735858197663 5032037015127 1	Slimline SATA DVDROM Device
	AXXSATADVDRWROM 906873 735858197670 5032037015134 1	Slim SATA DVD+/-RW ROM Accessory
	FPWRCABLENA 879287 735858181129 5032037015738 1	North American Power Cord Spare

2.3 Drive/storage Subsystem Spares and Accessories

Image	Product Code MM UPC	Description
	FR1304HSBP 912384 735858219334 5032037015783 1	Hot swap backplane board spare for 1U 4x3.5" chassis (R1304 family)
	F1U8X25HSBP 917977 735858241014 5032037035767 1	Hot swap backplane board spare for 1U 8x2.5" chassis (R1208 family)
	FXX25HSCAR 918807 735858241182 5032037035910 8	Spare 2.5" HDD hot swap carriers
	FXX35HSADPB 912771 735858219495 5032037016391 8	Spare 3.5" HDD hot swap carriers Includes mounting screws for mounting 2.5" drives
	RKSATA4R5 916346 735858238861 5032037033640 5	Patsburg-A SATA SW LSI RAID 5 Key, Black
	RKSATA8 916347 735858238878 5032037033657 5	8port SATA Key, Blue
	RKSATA8R5 916348 735858238885 5032037033664 5	8port SATA with LSI SW RAID 5 Key, White
	RKSAS4 916349 735858238892 5032037033671 5	4port SAS Key, Green
	RKSAS4R5 916350 735858238908 5032037033688 5	4port SAS with LSI SW RAID 5 Key, Yellow

Image	Product Code MM UPC	Description
	RKSAS8 916351 735858238922 5032037033701 5	8port SAS Key, Orange
	RKSAS8R5 916352 735858238915 5032037033695 5	8port SAS with LSI SW RAID 5 Key, Purple

2.4 Expansion Modules: IO Module, SAS Module, RMM4, TPM




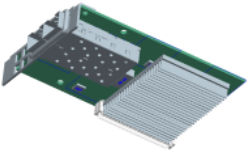

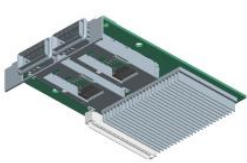
Image	Product Code MM UPC	Description
	AXXRMM4LITE 911660 735858219297 5032037014946 1	Activation key for advanced management features
	AXXRMM4R 920858 735858245296 5032037039819 1	Intel® Remote Management Module RMM4 for rack systems – Remote KVM upgrade key and Dedicated NIC Module
	AXXTPME5 919737 735858240352 5032037035088 1	TPM Module for server systems supporting S2600 and S2400 board families.
	AXX10GBNIAIOM 917905 735858241090 5032037035842 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
	AXX10GBTWLIOM3 941869 735858296656 5032037072472 1	Dual RJ-45 port 10GBASE-T IO module, based on Intel® Ethernet Controller X540 Includes three screws.
 *Dual ports shown	AXX1FDRIBIOM 918607 735858241106 5032037035859 1	Single port, FDR 56GT/S speed Intel® I/O Expansion Infiniband module, with QSFP connector, based on Mellanox CX3 MT27504A1-FCCR-FV chip. Includes three screws *Dual port shown on picture



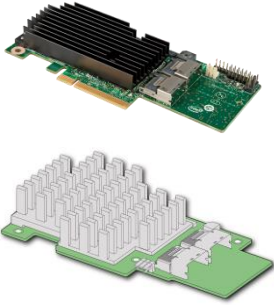
Image	Product Code MM UPC	Description
	<p>AXX2FDRIBIOM 920627 UPC/EAN not available at books open 1</p>	<p>Dual port, FDR 56GT/S (per port capable) speed Infiniband module, with QSFP connector, based on Mellanox CX3 MT27508A1-FCCR-FV chip. Note, due to PCIe3 x8 bandwidth limitation, both ports can't simultaneously function at full speed.</p> <p>Includes three screws</p>
	<p>AXX4P1GBPWL IOM 917911 735858241083 5032037035835 1</p>	<p>Quad port 1GbE IO Module based on Intel® Ethernet Controller I350</p>
	<p>Mezz. card: 8 ports RMS25CB080 917084 735858238977 5032037033756 5</p> <p>PCIe card: 8 ports RMS25PB080 917056 00735858238946 5032037033725 5</p> <p>Mezz. card: 4 ports RMS25CB040 917085 735858238984 5032037033763 5</p> <p>PCIe card: 4 ports RMS25PB040 917078 735858238953 5032037033732 5</p>	<p>HW RAID SAS Module: 4/8 port internal SAS-2.1 version, Full HW RAID, LSI MegaRAID-based Firmware, 1GB DDR3, R0,1,10,5,50,6,60 Supports Battery Backup Unit. Based on LSI2208.</p> <p>Mezzanine card form factor – does not occupy PCIe slot, only compatible with systems enabled with SAS Module connector.</p> <p>PCIe card form factor – compatible with all PCSD boards, requires PCIe x8 slot.</p>

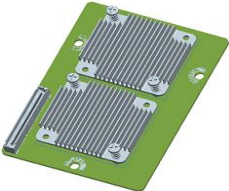
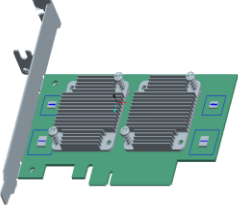
Image	Product Code MM UPC	Description
	Mezz. card: 8 ports RMS25JB080 917087 735858239004 5032037033787 5 Mezz. card: 4 ports RMS25JB040 917088 735858239011 5032037033794 5 PCIe card: 8 ports RMS25KB080 917089 5 PCIe card: 4 ports RMS25KB040 917090 735858239035 5032037033817 5	Entry-raid SAS Module: internal SAS-2.1 version, Entry-level LSI IR-based RAID 0,1,1E/straight SAS Based on LSI2308. Mezzanine card form factor – does not occupy PCIe slot, only compatible with systems enabled with SAS Module connector. PCIe card form factor – compatible with all PCSD boards, requires PCIe x8 slot.
	Mezz. card: 8 ports RMT3CB080 917086 735858238991 5032037033770 5 PCIe card: 8 ports RMT3PB080 917079 735858238960 5032037033749 5	HW RAID SATA Module: 8 Port internal SATA-3 version, Full HW RAID, LSI MegaRAID-based Firmware, 512MB DDR3, R0,1,10,5,50,6,60 Supports Battery Backup. Based on LSI2208. Mezzanine card form factor – does not occupy PCIe slot, only compatible with systems enabled with SAS Module connector. PCIe card form factor – compatible with all PCSD boards, requires PCIe x8 slot.
	AXXRSBBU9 914238 735858220286 5032037039567 5	Lithium Polymer RAID module battery backup unit.
	AXXRMFBU2 919876 735858244541 5032037039116 5	Maintenance Free Backup Unit with NAND Flash and Supercapacitor
	AXXQAAIOMOD 920561 735858244848 5032037039413 5	Intel Quick Assist Accelerator I/O Module Mezz Card



Image	Product Code MM UPC	Description
 A photograph of an Intel Quick Assist Accelerator PCIe card. The card is green with a silver metal bracket on the left side. It features two large black heat sinks in the center and several smaller components and connectors on the surface.	AXXQAAPCIE 920562 735858244855 5032037039420 1	Intel Quick Assist Accelerator PCIe card

2.5 SAS Cable Kits (for Upgrade to SAS modules, HBA Cards, and Spares)

Image	Product Code MM UPC	Description
	AXXCBL500MSMS 921858 735858245289 5032037039802 1	Kit of 2 cables, 500mm length, straight SFF-8087 to SFF-8087 connectors. Spare for R2208GZ
	AXXCBL650MSMS 918376 735858224444 5032037019910 1	Kit of 2 cables, 650mm length, straight SFF-8087 to SFF-8087 connectors.
	AXXCBL730MSMS 921049 735858245340 5032037039864 1	Kit of 2 cables, 730mm length, straight SFF-8087 to SFF-8087 connectors.
	AXXCBL600MSMS 921048 735858245272 5032037039796 1	Kit of 2 cables, 600mm length, straight SFF-8087 to SFF-8087 connectors.
	AXXCBL585MSMR 921047 735858245265 5032037039789 1	Kit of 2 cables, 585mm length, straight SFF-8087 to right angle SFF-8087 connectors.
	AXXCBL850MS7R 921114 735858245371 5032037039895 1	Kit of 2 cables, 850mm length, straight SFF-8087 to right angle 7-pin SATA connectors.
	AXXCBL730MRMR 921045 735858245234 5032037039758 1	Kit of 2 cables, 730mm length, right angle SFF-8087 to right angle SFF-8087 connectors.
	AXXCBL550MRMR 921043 735858245227 5032037039741 1	Kit of 2 cables, 550mm length, right angle SFF-8087 to right angle SFF-8087 connectors.
	AXXCBL1030MR7R 921079 735858245258 5032037039772 1	Kit of 2 cables, 1030mm length, right-angle SFF-8087 to right angle 7-pin SATA connectors.
	AXXCBL770MSMR 921044 735858245241 5032037039765 1	Kit of 2 cables, 770mm length, straight SFF-8087 to right angle SFF-8087 connectors.

Image	Product Code MM UPC	Description
	AXXCBL165MSMS 1	Kit of 2 cables, 165mm length, straight SFF-8087 to right angle SFF-8087 connectors. Works for: integrated expander connection, chassis dependent.
	AXXCBL185MSMS 1	Kit of 2 cables, 185mm length, straight SFF-8087 to right angle SFF-8087 connectors. Works for: integrated expander connection, chassis dependent.
	AXXCBL245MSMS 1	Kit of 2 cables, 245mm length, straight SFF-8087 to right angle SFF-8087 connectors. Works for: integrated expander connection, chassis dependent.

2.6 On-site Repair and Extended Warranty

Image	Product Code MM UPC	Description
 <p>Intel® Server Component Extended Warranty Key</p> <p>Expansion: 30 Days</p> <p>Instructions to enable Intel® Server Component Extended Warranty</p> <ol style="list-style-type: none"> 1. Search for your system model (Intel® Server System, Intel® Server Board, Intel® Server Rack Chassis, or Intel® Server Kit) only available on Intel.com page of the product. 2. Go to the "Support" tab and click on "Warranty" link. Select the "Server Component Extended Warranty" link. 3. You will be redirected to the Intel® Server Component Extended Warranty page. 	<p>SVCEWDPSY 911295 1</p>	<p>Two year extended warranty for Intel® Server Systems or Intel® Server Knock Down Kits + Intel® Server Boards that support two processors. Intel® RAID controller extended warranty is purchased separately.</p>
 <p>Intel® Server Component Extended Warranty Key</p> <p>Expansion: 30 Days</p> <p>Instructions to enable Intel® Server Component Extended Warranty</p> <ol style="list-style-type: none"> 1. Search for your system model (Intel® Server System, Intel® Server Board, Intel® Server Rack Chassis, or Intel® Server Kit) only available on Intel.com page of the product. 2. Go to the "Support" tab and click on "Warranty" link. Select the "Server Board Extended Warranty" link. 3. You will be redirected to the Intel® Server Board Extended Warranty page. 	<p>SVCEWDPBD 911294 1</p>	<p>Two year extended warranty for Intel® Server Boards that support two processors.</p>