



Intel® Server Board S2600IP4

Intel® Server System Family P4000IP4

Intel® Server System Family R2000IP4

## Spares/Accessories List and Configuration Guide

**A reference guide to assist customers in ordering the necessary components to configure the Intel® Server Board S2600IP4, the 4U Intel® Server Chassis, and the 2U Intel® Server Chassis.**



**Revision 2.1**

**September 2013**

**Enterprise Platforms and Services Marketing**



## Revision History

Jan '12 – Rev 1.0 – Updated revision for “Books Open”.

Feb '12 – Rev 1.1 – Updated software sections and added “Lite” SKU.

Apr '12 – Rev 1.2 – Updated board I/O description details.

July '12 – Rev 1.4 – Added Intel® Server Continuity Suite SKUs, removed “Lite” SKU, added mini SAS cables, added RAID feature keys.

August '12 – Rev 1.5 – Corrected MM# for P4216IP4LHKC.

October '12 – Rev 1.6 – Update all 1600w products launch date.

Dec'12 – Rev1.7 – Removed VMware, Symantec, Intel® Server Continuity Suite, and Intel® Onsite Repair for Servers SKUs. Updated description details.

Mar'13 – Rev 1.8 – Updated RAID module information

May'13 – Rev1.9 – Updated FUPBEZELHSD2 description; Updated product description for some systems.

July'13 – Rev 2.0 – Updated RAID module MM number.

Sep'13 – Rev 2.1 – Remove IB module

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:

<b>1. SYSTEM PRODUCT ORDER CODES .....</b>	<b>4</b>
1.1 PRODUCT DESCRIPTIONS – OVERVIEW .....	4
1.2 SUMMARY TABLE .....	4
1.3 AVAILABLE PRODUCTION BOARD SPARE ORDER CODE FOR S2600IP4 .....	5
1.4 AVAILABLE PRODUCTION SYSTEM ORDER CODES FOR P4000IP4 FAMILY .....	5
1.5 AVAILABLE PRODUCTION SYSTEM ORDER CODES FOR R2000IP4 FAMILY .....	8
<b>2. SPARES AND ACCESSORIES ORDER CODES .....</b>	<b>11</b>
2.1 GENERAL COMMON SPARES AND ACCESSORIES .....	11
2.2 P4000 CHASSIS UNIQUE SPARES AND ACCESSORIES .....	12
2.3 R2000 CHASSIS UNIQUE SPARES AND ACCESSORIES .....	17
2.4 STORAGE SUBSYSTEM SPARES AND ACCESSORIES .....	21
2.5 EXPANSION MODULES: IO MODULE, SAS MODULE, RMM4, TPM .....	23

# 1. System Product Order Codes

---

## 1.1 Product Descriptions – Overview

The Intel® Server Board S2600IP4 is a Maximum IO server board supporting two E5-2600 CPUs. It is designed with the Medium Business, Storage, Embedded, and High Performance Computing markets in mind. This board will be offered fully integrated in a 4U pedestal chassis and a 2U rack chassis.

## 1.2 Summary Table

For a quick overview, all configuration options described in this document are summarized in the table below. For more details such as MM numbers, product order codes and availability, please refer to the other sections in this document.


### Pedestal Systems in a 4U Chassis

Product Code	Form Factor	HDD	# of HDD	Power supply	Rails	RAID	Storage Upgrade Included	Expander
P4224IP4LHKC	4U	2.5" HS	24	2x1600W	None	SW	RKSAS8	None
P4216IP4LHKC	4U	2.5" HS	16	2x1600W	None	HW	RMS25CB080	None
P4216IP4LHJC	4U	2.5" HS	16	2x1200W	None	SW	RKSAS8	None
P4208IP4LHGC	4U	2.5" HS	8	2x750W	None	SW	RKSAS8	None
P4308IP4LHKC	4U	3.5" HS	8	2x1600W	None	HW	RMS25CB080	None
P4308IP4LHJC	4U	3.5" HS	8	2x1200W	None	SW	RKSATA8	None
P4308IP4LHGC	4U	3.5" HS	8	2x750W	None	SW	RKSATA8	None

### Rackable Systems in a 2U Chassis


Product Code	Form Factor	HDD	# of HDD	Power supply	Rails	RAID	Storage Upgrade Included	Expander
R2224IP4LHPC	2U	2.5" HS	24	2x750W ERPS	Value	SW	RKSAS8	36-port RES2CV360
R2216IP4LHPC	2U	2.5" HS	16	2x750W ERPS	Value	HW	RMS25CB080	24-port RES2CV240
R2208IP4LHPC	2U	2.5" HS	8	2x750W ERPS	Value	SW	RKSAS8	None
R2312IP4LHPC	2U	3.5" HS	12	2x750W ERPS	Value	HW	RMS25CB080	RES2SV240
R2308IP4LHPC	2U	3.5" HS	8	2x750W ERPS	Value	SW	RKSATA8	None




### 1.3 Available Production Board Spare Order Code for S2600IP4




Image	Product Code MM UPC EAN MOQ	Description
	<p>S2600IP4 916026 735858239295 5032037034067 1</p>	<p>Spare Intel® Server Board S2600IP4 with 16 DIMMs and Quad NIC</p> <ul style="list-style-type: none"> <li>• Supports Dual Intel® Xeon E5-2600 processors 135W max</li> <li>• Intel® C600 series chipset</li> <li>• 16 DDR3/DDR3L DIMM slots</li> <li>• 8 PCIe slots: <ul style="list-style-type: none"> <li>Slot1: PCIe3 x16 electrical (x16 slot), FL, DW</li> <li>Slot2/4/6: PCIe3 x8 or x0 electrical (x8 slot), FL</li> <li>Slot3/5/7: PCIe3 x8 or x16 electrical (x16 slot), FL, DW <ul style="list-style-type: none"> <li>• x16 mode requires PCIe Gen3 x8 MUX</li> <li>• x16 mode borrows x8 from adjacent Slot</li> </ul> </li> <li>Slot8: PCIe2 x4 electrical (x8 slot): HL</li> </ul> </li> <li>• Intel® SAS ROC Mezz slot: PCIe x8</li> <li>• Intel® IO Module Mezz slot: PCIe x8 Gen1 speed</li> <li>• 8 SCU SATA/SAS ports (4 ports functional w/ no storage Keys and 4 ports require storage keys)</li> <li>• 2 SATA 6G AHCI ports</li> <li>• Intel® Quad Gigabit Ethernet with Intel® Virtualization Technology</li> <li>• Integrated Baseboard Management Controller with IPMI 2.0</li> <li>• Option for advanced management functions with KVM and dedicated NIC for remote management</li> </ul>

### 1.4 Available Production System Order Codes for P4000IP4 Family

EPSD Romley Chassis and Systems shipped to the US & Canada will 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>*Demonstration only, see description for configuration details.</p>	<p>P4308IP4LHJC 916064 735858239257 5032037034029 1</p>	<p><b>Integrated Intel® Server System</b> S2600IP4 board in an Intel "Union Peak L" 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 8x3.5" Hot-swap SAS/SATA HDD</li> <li>• Power distribution board (FUPPDBHC)</li> <li>• Passive CPU heat sinks (AUPSRCBTP)</li> <li>• Control panel (FXXFPANEL)</li> <li>• Front Bezel w/ door (FUPBEZELHSD)</li> <li>• Redundant System fans included</li> <li>• Processor/memory air duct (FIPCRUPMAD)</li> <li>• Two redundant power supplies 1200W, Platinum level Efficiency (FXX1200PCRPS)</li> </ul>



		<ul style="list-style-type: none"> <li>• Intel® RAID C600 Upgrade Key RKSATA8</li> <li>• IO Shield (AXX4IOS)</li> <li>• Mini SAS to Mini SAS cables Two 650mm cables (AXXCBL650MSMS)</li> </ul>
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4208IP4LHGC 916062 735858239219 5032037033985 1</p>	<p><b>Integrated Intel® Server System</b> S2600IP4 board in an Intel "Union Peak L" 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 8x2.5" Hot-swap SAS/SATA HDD</li> <li>• Power distribution board (FUPPDBHC)</li> <li>• Passive CPU heat sinks (AUPSRCBTP)</li> <li>• Control panel (FXXFPANEL)</li> <li>• Front Bezel w/ door (FUPBEZELHSD)</li> <li>• Redundant System fans included</li> <li>• Processor/memory air duct (FIPCRUPMAD)</li> <li>• Two redundant power supplies 750W, Platinum level Efficiency (FXX750PCRPS)</li> <li>• Intel® RAID C600 Upgrade Key RKSAS8</li> <li>• IO Shield (AXX4IOS)</li> <li>• Mini SAS to Mini SAS cables: Two 650mm cables (AXXCBL650MSMS)</li> </ul> <p><b>Note: See PCN# 112178 -01 for the latest ordering information</b></p>
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4308IP4LHGC 916065 735858239271 5032037034043 1</p>	<p><b>Integrated Intel® Server System</b> S2600IP4 board in an Intel "Union Peak L" 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 8x3.5" Hot-swap SAS/SATA HDD</li> <li>• Power distribution board (FUPPDBHC)</li> <li>• Passive CPU heat sinks (AUPSRCBTP)</li> <li>• Control panel (FXXFPANEL)</li> <li>• Front Bezel w/ door (FUPBEZELHSD)</li> <li>• Redundant System fans included</li> <li>• Processor/memory air duct (FIPCRUPMAD)</li> <li>• Two redundant power supplies 750W, Platinum level efficiency (FXX750PCRPS)</li> <li>• Intel® RAID C600 Upgrade Key RKSATA8</li> <li>• IO Shield (AXX4IOS)</li> <li>• Mini SAS to Mini SAS cables: Two 650mm cables (AXXCBL650MSMS)</li> </ul> <p><b>Note: See PCN# 112178 -01 for the latest ordering information</b></p>
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4216IP4LHJC 916059 735858239202 5032037033978 1</p>	<p><b>Integrated Intel® Server System</b> S2600IP4 board in an Intel "Union Peak L" 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 16x2.5" Hot-swap SAS/SATA HDD</li> <li>• Power distribution board (FUPPDBHC)</li> <li>• Passive CPU heat sinks (AUPSRCBTP)</li> <li>• Control panel (FXXFPANEL)</li> <li>• Front Bezel w/ door (FUPBEZELHSD)</li> <li>• Redundant System fans included</li> <li>• Processor/memory air duct (FIPCRUPMAD)</li> <li>• Two redundant power supplies 1200W, Platinum level Efficiency (FXX1200PCRPS)</li> <li>• Intel® RAID C600 Upgrade Key RKSAS8</li> <li>• IO Shield (AXX4IOS)</li> <li>• Mini SAS to Mini SAS cables: Two AXXCBL185MSMS for expander</li> </ul>

		<p>Two AXXCBL245MSMS for expander Two 650mm cables (AXXCBL650MSMS)</p>
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4216IP4LHKC 916057 735858248648 5032037043380 1</p>	<p><b>Integrated Intel® Server System</b> S2600IP4 board in an Intel "Union Peak L" 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 16x2.5" Hot-swap SAS/SATA HDD</li> <li>• Power distribution board (FUPPDBHC)</li> <li>• Passive CPU heat sinks (AUPSRCBTP)</li> <li>• Control panel (FXXFPANEL)</li> <li>• Front Bezel w/ door (FUPBEZELHSD)</li> <li>• Redundant System fans included</li> <li>• Processor/memory air duct (FIPCRUPMAD)</li> <li>• Two redundant power supplies 1600W, Platinum level Efficiency (FXX1600PCRPS)</li> <li>• IO Shield (AXX4IOS)</li> <li>• Mini SAS to Mini SAS cables: Two 185mm cables (AXXCBL185MSMS) for expander Two 245mm cables (AXXCBL245MSMS) for expander Two 650mm cables (AXXCBL650MSMS)</li> </ul> <p><b>Note: See PCN# 112178 -01 for the latest ordering information</b></p>
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4224IP4LHKC 916055 735858248631 5032037043373 1</p>	<p><b>Integrated Intel® Server System</b> S2600IP4 board in an Intel "Union Peak L" 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 24x2.5" Hot-swap SAS/SATA HDD</li> <li>• Power distribution board (FUPPDBHC)</li> <li>• Passive CPU heat sinks (AUPSRCBTP)</li> <li>• Control panel (FXXFPANEL)</li> <li>• Front Bezel supporting 24 drives</li> <li>• Redundant System fans included</li> <li>• Processor/memory air duct (FIPCRUPMAD)</li> <li>• Two redundant power supplies 1600W, Platinum level efficiency (FXX1600PCRPS)</li> <li>• Intel® RAID C600 Upgrade Key RKSAS8</li> <li>• IO Shield (AXX4IOS)</li> <li>• Mini SAS to Mini SAS cables: Two 165mm cables (AXXCBL165MSMS) for expander Two 185mm cables (AXXCBL185MSMS) for expander Two 245mm cables (AXXCBL245MSMS) for expander Two 650mm cables (AXXCBL650MSMS)</li> </ul> <p><b>Note: See PCN# 112178 -01 for the latest ordering information</b></p>
 <p>*Demonstration only, see description for configuration details.</p>	<p>P4308IP4LHKC 916063 735858248655 5032037043397 1</p>	<p><b>Integrated Intel® Server System</b> S2600IP4 board in an Intel "Union Peak L" 4U pedestal chassis</p> <ul style="list-style-type: none"> <li>• Supports up to 8x3.5" Hot-swap SAS/SATA HDD</li> <li>• Power distribution board (FUPPDBHC)</li> <li>• Passive CPU heat sinks (AUPSRCBTP)</li> <li>• Control panel</li> <li>• Front Bezel w/ door (FUPBEZELHSD)</li> <li>• Redundant System fans included</li> <li>• Processor/memory air duct (FIPCRUPMAD)</li> </ul>



		<ul style="list-style-type: none"> <li>• Two redundant power supplies 1600W, Platinum level Efficiency (FXX1600PCRPS)</li> <li>• 8-port SAS ROC module with HW raid support pre-installed</li> <li>• IO Shield (AXX4IOS)</li> <li>• Mini SAS to Mini SAS cables: Two 650mm cables (AXXCBL650MSMS)</li> </ul> <p><b>Note: See PCN# 112178 -01 for the latest ordering information</b></p>
--	--	--

## 1.5 Available Production System Order Codes for R2000IP4 Family

EPSD Romley Chassis and Systems shipped to the US & Canada will 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>*Demonstration only, see description for configuration details.</p>	<p>R2224IP4LHPC 916049 735858244961 5032037039536 1</p>	<p>Integrated Intel® Server System S2600IP4 board in Intel R2000 2U rack chassis includes:</p> <ul style="list-style-type: none"> <li>• 24x2.5" Hot-swap HDD carriers</li> <li>• Power distribution board (FBP750PDB)</li> <li>• Two CPU heat sinks, (ABPSRCACP)</li> <li>• Control panel (A2USTOPANEL)</li> <li>• Redundant System fans (FBPIPHSFAN)</li> <li>• Processor/memory air duct (FIP2UAD)</li> <li>• Two Power supplies 750W, Gold efficiency (FXX750GERPS)</li> <li>• Value Rails Kit (AXXELVRAIL)</li> <li>• Integrated 36-port expander (RES2CV360)</li> <li>• Intel® RAID C600 Upgrade Key RKSAS8</li> <li>• Full RMM4 with dedicated NIC (AXXRMM4)</li> <li>• Mini-SAS to Mini-SAS cables: Two 165mm cables (AXXCBL165MSMS) Three 185mm cables (AXXCBL185MSMS) Two 245mm cables (AXXCBL245MSMS) Two 650mm cables (AXXCBL650MSMS)</li> </ul> <p><b>Note: See PCN# 112178 -00 for the latest ordering information</b></p>
	<p>R2216IP4LHPC 916050 735858239196 5032037033961 1</p>	<p>Integrated Intel® Server System S2600IP4 board in Intel R2000 2U rack chassis includes</p> <ul style="list-style-type: none"> <li>• 6x2.5" Hot-swap HDD carriers</li> <li>• Power distribution board (FBP750PDB)</li> <li>• Two CPU heat sinks, (ABPSRCACP)</li> <li>• Common Control panel</li> <li>• Redundant System fans (FBPIPHSFAN)</li> <li>• Processor/memory air duct (FIP2UAD)</li> <li>• Two Power supplies 750W, Gold efficiency (FXX750GERPS)</li> </ul>



<p>*Demonstration only, see description for configuration details.</p>		<ul style="list-style-type: none"> <li>• Value Rails Kit (AXXELVRAIL)</li> <li>• Integrated 24-port expander (RES2CV240)</li> <li>• 8-port SAS ROC module with HW raid support pre-installed (RMS25CB080)</li> <li>• Full RMM4 with dedicated NIC (AXXRMM4)</li> <li>• Mini-SAS to Mini-SAS cables: Two 165mm cables (AXXCBL165MSMS) Two 185mm cables (AXXCBL185MSMS) Two 650mm cables (AXXCBL650MSMS)</li> </ul> <p><b>Note: See PCN# 112178 -00 for the latest ordering information</b></p>
 <p>*Demonstration only, see description for configuration details.</p>	<p>R2208IP4LHPC 919047 73585823977 5032037034456 1</p>	<p>Integrated Intel® Server System S2600IP4 board in Intel R2000 2U rack chassis includes:</p> <ul style="list-style-type: none"> <li>• 8x2.5" Hot-swap HDD carriers</li> <li>• Power distribution board (FBP750PDB)</li> <li>• Two CPU heat sinks, (ABPSRCACP)</li> <li>• Common Control panel</li> <li>• Redundant System fans (FBPIPHSFAN)</li> <li>• Processor/memory air duct (FIP2UAD)</li> <li>• Two Power supplies 750W, Gold efficiency (FXX750GERPS)</li> <li>• Value Rails Kit (AXXELVRAIL)</li> <li>• Intel® RAID C600 Upgrade Key RKSAS8</li> <li>• Full RMM4 with dedicated NIC (AXXRMM4)</li> <li>• Mini-SAS to Mini-SAS cables: Two 650mm cables (AXXCBL650MSMS)</li> </ul>
 <p>*Demonstration only, see description for configuration details.</p>	<p>R2312IP4LHPC 916052 735858244954 5032037039529 1</p>	<p>Integrated Intel® Server System S2600IP4 board in Intel R2000 2U rack chassis includes:</p> <ul style="list-style-type: none"> <li>• 12x3.5" Hot-swap HDD carriers</li> <li>• Power distribution board (FBP750PDB)</li> <li>• Two CPU heat sinks, (ABPSRCACP)</li> <li>• Control panel (A2USTOPANEL)</li> <li>• Redundant System fans (FBPIPHSFAN)</li> <li>• Processor/memory air duct (FIP2UAD)</li> <li>• Two Power supplies 750W, Gold efficiency (FXX750GERPS)</li> <li>• Value Rails Kit (AXXELVRAIL)</li> <li>• RAID 24-port expander (RES2SV240)</li> <li>• Full RMM4 with dedicated NIC (AXXRMM4)</li> <li>• 8-port SAS ROC module with HW raid support pre-installed (RMS25CB080)</li> <li>• Mini-SAS to Mini-SAS cables: Two 500mm cables (AXXCBL500MSMS) One 650mm cable (AXXCBL650MSMS) One 730mm cable (AXXCBL730MSMS) One 820mm cable (not sold separately)</li> </ul>



\*Demonstration only, see description for configuration details.



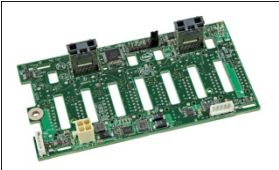
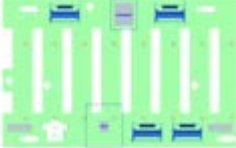



R2308IP4LHPC  
919048  
735858239189  
5032037033954  
1

Integrated Intel® Server System  
S2600IP4 board in Intel R2000 2U rack chassis

- 8x3.5" Hot-swap HDD carriers
- Power distribution board (FBP750PDB)
- Two CPU heat sinks, (ABPSRCACP)
- Common Control panel
- Redundant System fans (FBPIPHSFAN)
- Processor/memory air duct (FIP2UAD)
- Two Power supplies 750W, Gold efficiency (FXX750GERPS)
- Value Rails Kit (AXXELVRAIL)
- Intel® RAID C600 Upgrade Key RKSATA8
- Full RMM4 with dedicated NIC (AXXRMM4)
- Mini-SAS to Mini-SAS cables:  
Two 650mm cables (AXXCBL650MSMS)





## 2. Spares and Accessories Order Codes

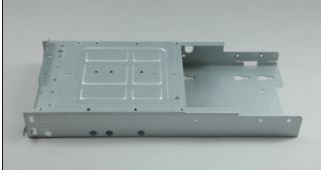



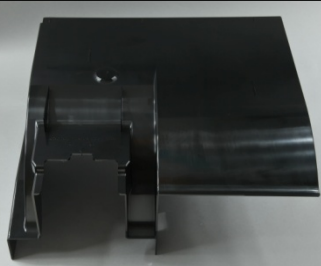

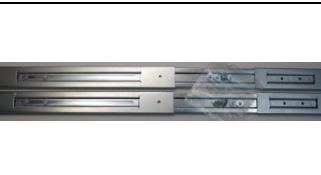
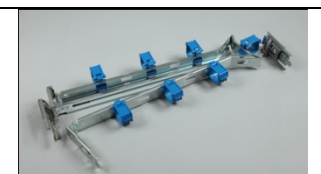
### 2.1 General Common Spares and Accessories

Image	Product Code MM UPC EAN MOQ	Description
	FXXFPANEL 915982 00735858222419 5032037018968 1	Front Panel board spare for P4000, R1000, R2000 server chassis
	AXX4IOS 919758  735858238939 5032037033718 50	IO shield for the S2600CP4, S2600IP4, and S2400GP4 Intel® Server Board
	FXX8X25HSBP  917973 735858240987 5032037035736 1	8x2.5" hot swap HSBP spare (for R1200, R2200, and P4200 Chassis families)
	FXX8X25DPBP 917974 735858240994 5032037035743 1	Spare HSBP board for 8x2.5" Dual Port HSBP  Availability: post launch.
	FXX35HSADPB 912771 00735858219495 5032037016391 8	3.5" HDD Hot Swap Drive Carrier spares for either R1300, R2300, or P4300 chassis families
	FXX25HSCAR 918807 00735858241182 5032037035910 8	2.5" HDD Hot Swap Drive Carrier spares for either R1200, R2200, or P4200 chassis families
	FPWRCABLENA 879287 00735858181129 5032037015738 1	North American Power Cord Spare
Image not yet available	AXXCBL500MSMS 921858 735858245289 5032037039802	Kit of 2 cables, 500mm length, straight SFF-8087 to SFF-8087 connectors.

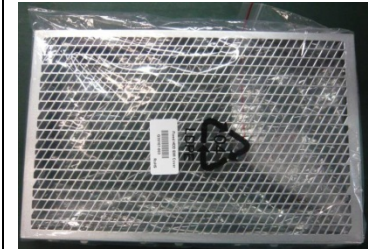
	1	
Image not yet available	AXXCBL650MSMS 918376 735858224444 5032037019910 1	Kit of 2 cables, 650mm length, straight SFF-8087 to SFF-8087 connectors.
Image not yet available	AXXCBL730MSMS 921049 735858245340 5032037039864 1	Kit of 2 cables, 730mm length, straight SFF-8087 to SFF-8087 connectors.
Image not yet available	AXXCBL165MSMS 921284 735858245692 5032037040204 1	Kit of 2 cables, 165mm length, straight SFF-8087 to right angle SFF-8087 connectors. Works for: integrated expander connection, chassis dependent.
Image not yet available	AXXCBL185MSMS 921285 735858245708 5032037040211 1	Kit of 2 cables, 185mm length, straight SFF-8087 to right angle SFF-8087 connectors. Works for: : integrated expander connection, chassis dependent.
Image not yet available	AXXCBL245MSMS 921286 735858245715 5032037040228 1	Kit of 2 cables, 245mm length, straight SFF-8087 to right angle SFF-8087 connectors. Works for: : integrated expander connection, chassis dependent.



## 2.2 P4000 Chassis Unique Spares and Accessories

Image	Product Code MM UPC EAN MOQ	Description
	A4ULCP 921029 00735858244695 5032037039260 1	LCP Module (local control panel) Enables system to display critical errors from SEL for instant diagnostic. Also allows custom message for branding.  Target availability is Q4 2012
	FXX750PCRPS 915604 00735858234979 5032037030601 1	750W Common Redundant Power Supply spare. 80Plus Platinum efficiency for P4000IP, P4000CR System.
	FXX1200PCRPS 915605 735858225137 5032037035071 1	1200W Common Redundant Power Supply spare. 80Plus Platinum efficiency for P4000IP, P4000CR System.
	FXX1600PCRPS 915606 UPC TBD EAN TBD 1	1600W Common Redundant Power Supply spare. 80Plus Platinum efficiency for P4000IP, P4000CR System.  Target availability is Q4'12




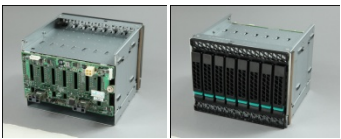

	<p>FUPCRPSCAGE 915607 00735858235891 5032037030656 1</p>	<p>Common Pedestal CRPS PSU cage assembly (cage, adaptor bracket, screws, supporting bulkhead, 1x blank filler)</p>
	<p>FUPPDBHC 916813 735858238748 5032037033527 1</p>	<p>Power Distribution Board Spare (High Current) for P4000 server chassis. Recommend to use with FXX750PCRPS, FXX1200PCRPS, or FXX1600PCRPS power supplies.</p>
	<p>AUPSRCBTP 915293 00735858238724 5032037033497 2</p>	<p>The production Intel® heat sink, SRC-B tower passive, 98mmx100mm, required for Intel® S2600CP and Intel® S2600IP server boards to be used in Intel® 4U pedestal server chassis.</p>
	<p>FUPMLHSFAN 915620 00735858235969 5032037030724 1</p>	<p>80mm system fan kit for P4000 server chassis includes fan, fan holder, for use in redundant cooling configuration</p>
	<p>FIPCRUPMAD 915631 00735858236072 5032037030830 1</p>	<p>Air duct spare for S2600IP and S2600CR in P4000 (27") server chassis</p>
	<p>AXXELVRAIL 920970 00735858244367 5032037038980 1</p>	<p>Value Rail Kit, half extension, extended inner slide member  Works for 438mm wide Intel 2U/4U Rack Chassis and System families (H2000, R2000LH/R2000LT Swan Peak 2U, P4000M/P4000L/P4000L-WS)</p>
	<p>AXX3U5UPRAIL 915634 00735858236119 5032037030892 1</p>	<p>Advanced rail kit for P4000 Server Chassis used when converting Pedestal chassis to 4U rack chassis, and full extension rails are needed.  Includes; two rails</p>
	<p>AXX3U5UCMA 915635 00735858236126 5032037030908 1</p>	<p>Rack Cable Management AXX3U5UCMA (For Use with Advanced Rail Kit AXX3U5UPRAIL for Intel® Server Chassis P4000M/P4000L/P4000L-WS Family)</p>

	<p>FUPBEZLFIX2 925750</p>	<p>Bezel spare for P4000IP and P4000CR System with fixed drives (no door)</p> <p>Note: FUPBEZLFIX2 is compatible to Production system only</p>
	<p>FUPBEZELHSD2 925749</p>	<p>Bezel spare for P4000IP System with Hot Swap HDDs (with door for hot swap bays) (fits P4304, P4308, P4208, and P4216 with hot swap drive bays installed)</p>
	<p>AUPBEZEL4UF 915636 00735858235976 5032037030731 1</p>	<p>Rack bezel kit for converting P4000 pedestal server chassis to rack chassis</p> <p>Includes: bezel frame, and 2 rack handles</p>
	<p>AUPBEZEL4UD 915637 00735858235983 5032037030748 1</p>	<p>Rack bezel accessory for P4000M/P4000L/P4000L-WS chassis in rack configuration - security door only</p>
	<p>FUP4X35NHDK 912770 00735858219488 5032037016247 1</p>	<p>Fixed Drive Carrier spare for P4300 server chassis (compatible with 2.5" HDDs/SSDs)</p>
	<p>FUPLMSK 915654 00735858236010 5032037030779 1</p>	<p>Chassis Maintenance kit for P4000L/P4000L-WS server chassis (Mechanical Spares Kit)</p> <p>Includes EMI cover, PCI card retainer 4x 3.5" EMI cover, 8x 3.5" EMI cover, ODD rail x4, #6-32 screw x20, M3x12 USB cable screw x2, M2x10</p>



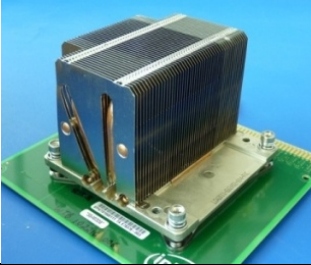

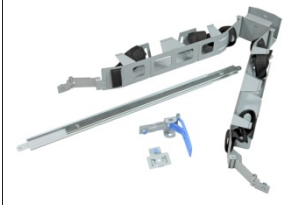

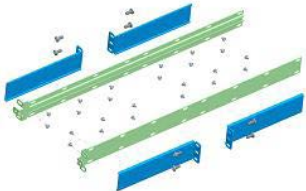

		
	<p>FUPLESK 915655 00735858236027 5032037030786 1</p>	<p>Chassis Maintenance kit for P4000L/P4000L-WS</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>● 2x SATA power cables, one 1x4 pin natural ATX power header to two SATA power headers, 150mm</li> <li>● 1x I2C cable, one 5 pin header to one 3 pin header, 600mm</li> <li>● 1x I2C cable, one 5 pin header to one 5 pin header, 200mm</li> <li>● 1x HotSwapBackPlane adapter power cable, one 4 pin header to one 2x2 pin header, 100mm</li> <li>● 1x SAS cable, one mini SAS header to four right angle SATA headers. 480mm.</li> <li>● 4x GPGPU power cables. one 2x2 pin header to one 2x4 pin header plus one 2x3 pin header. 1100mm.</li> <li>● 1x SPDIF cable, 4 pin header to one RCA header, 520mm</li> <li>● 1x front video cable, one 14 pin header to one DB15 header,</li> </ul>


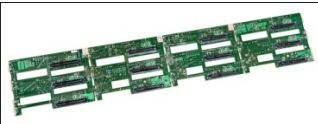








		<ul style="list-style-type: none"> <li>● 1100mm</li> <li>● 1x serial cable, one 10 pin header to one DB9 header. 390mm</li> <li>● 5xfan cables, for fan 1 to 5. 280mm</li> <li>● 1x intrusion cable. 200mm</li> <li>● 1x front panel cable, 920mm</li> </ul> <p>1x USB cable. One 2x5 header to two USB type A female headers , 950mm.</p>
	<p>FUP8X35HSBP 916353</p> <p>735858222792 5032037033480 1</p>	<p>Hot Swap Back Plane spare for 8x3.5" Drive Cage Kit FUP8X35HSDK for use with P4000 server chassis</p> <p>Includes: (1) 3.5" backplane board</p>
	<p>FUP4X35HSDK 911885</p> <p>00735858219440 5032037016230 1</p>	<p>3.5" Hot Swap Drive Kit for P4000 server chassis</p> <p>Includes: Drive Cage, Hot Swap Back Plane, 4 Hot Swap Drive carriers, data cables, I2C cable, and ID filler</p>
	<p>FUP8X35HSDK 915608</p> <p>00735858235907 5032037030663 1</p>	<p>8x3.5" Hot Swap Drive Cage Kit for P4000 server chassis</p> <p>Includes: Drive Cage, Hot Swap Back Plane, 8 Hot Swap Drive Carriers, data cables, I2C cable, and ID filler panel</p>
	<p>FUP8X25HSDKS 915819</p> <p>00735858235914 5032037030670 1</p>	<p>8x2.5 Hot Swap Drive Cage Kit for P4000 server chassis</p> <p>Includes: Drive cage, Hot Swap Back Plane, 8 Hot Swap Drive carriers, data cables, I2C cable, ID filler panels, and power adaptor cable accessory</p>
	<p>FUP8X25HSDKO 915611</p> <p>00735858236102 5032037030885 1</p>	<p>8x2.5 Hot Swap Drive Cage Kit for use in P4000 server chassis (27" only) when converting 5.25" drive cage area to gain extra HS HDDs</p> <p>Includes: Drive cage, Hot Swap Back Plane, (8) Hot Swap Drive carriers, data cables, I2C cable, SGPIO cable</p>

## 2.3 R2000 Chassis Unique Spares and Accessories


Image	Product Code MM UPC EAN MOQ	Description
Image not yet available.	<p>FXX750GERPS 917200</p> <p>735858239127 5032037033893 1</p>	750W Hot-Swap Power Supply FXX750GERPS (1U Form Factor, Gold-Efficiency)
Image not yet available.	<p>FBP750PDB 917199</p> <p>735858239134</p>	Spare Power Distribution Board FBP750PDB (for ERP1U 750W Power Supply FXX750GERPS)

	5032037033909 1	
	ABPSRCACP 915295 735858221979 5032037017121 2	Intel® heat sink SRC-A 2U Cu-Al combo passive, 91.5mmx91.5mm, required for Intel® S2600IP server board to be used in production Intel® 2U server chassis R2000 series
Image not yet available.	FBPIPHSFAN 917713 735858239141 5032037033916 1	Spare Hot-Swap Fan FBPIPHSFAN supporting Intel® Server Board S2600IP in the R2000IP Chassis.
Image not yet available.	FIP2UAD 917830 735858239158 5032037033923 1	Air Duct FIP2UAD (For Intel® Server Board S2600IP in R2000IP Chassis)
	AXXPRAIL 912797 735858219686 5032037014823 1	1U/2U Premium Rail Kit Full extension and toolless rail kit. Supports cable management arm
	AXX1U2UCMA 913117 735858224604 5032037019972 1	Cable management arm for Premium 1U/2U rail kit
	AXXELVRAIL 920970 00735858244367 5032037038980 1	Value Rail Kit, half extension, extended inner slide member  Works for 438mm wide Intel 2U/4U Rack Chassis and System families (H2000, R2000LH/R2000LT Swan Peak 2U, P4000M/P4000L/P4000L-WS)
	AXX2POSTBRCKT 918808 735858245319 5032037039833 1	1U/2U 2 post Brackets AXX2POSTBRCKT (Hard Mount)
	A2UBEZEL 918086 735858241137 5032037035880 1	2U locking bezel with two branding clip-on inserts for logo, and one snap-on swoosh
Image not yet available.	FBPIPMSK 917831 735858239165 5032037033930 1	Chassis Maintenance kit for IP/BH. Mechanical parts include: <ul style="list-style-type: none"> <li>• 2 Low profile PCIe slot fillers</li> <li>• 1 HDD module filler</li> <li>• 1 ODD latch with screws</li> <li>• 1 IO brackets with USB cutouts</li> </ul>

		<ul style="list-style-type: none"> <li>• 2 DIMM blanks</li> <li>• 1 set of metal rack handles for 2U chassis</li> <li>• Miscellaneous screws</li> </ul>
Image not yet available.	<p>FBPIPESK 917832 735858239172 5032037033947 1</p>	<p>Chassis Maintenance kit for IP/BHP. Electrical parts include these cables:</p> <ul style="list-style-type: none"> <li>• FP Cable 30pin to 24+6pin - 690mm</li> <li>• Storage FP Cable - 250mm</li> <li>• Front USB Cable 2x1 horizontal - 720mm</li> <li>• 5pin to 3pin I2C cable - 600mm</li> <li>• 5p-5p HSBP I2C Jumper Cable (for 2nd&amp;3rd HSBP) - 75mm</li> <li>• ODD SATA cable - 640mm</li> <li>• 24 pin extend pwr cable - 160mm</li> <li>• HSBP pwr cable - 460mm</li> <li>• ODD and expender card pwr cable - 320mm</li> <li>• PDB signal cable - 200mm</li> <li>• CPU1 pwr cable - 120mm</li> <li>• CPU2 pwr cable - 360mm</li> <li>• 4 pin to 4 pin MB pwr cable - 460mm</li> <li>• Mini-SAS to Mini-SAS(for Expander) - 165mm</li> <li>• Mini-SAS to Mini-SAS(for Expander) - 185mm</li> <li>• Mini-SAS to Mini-SAS(for Expander) - 245mm</li> </ul>
	<p>F2U8X35HSBP 917975 735858241007 5032037035750 1</p>	Spare 2U 8x3.5" HSBP board (board only)
	<p>F2U12X35HSBP 917976 735858241021 5032037035774 1</p>	Spare 2U 12x3.5" HSBP board (board only)
	<p>A2U8X25HSDK 917914 735858241076 5032037035828 1</p>	Spare/accessory 8x2.5" HDD upgrade kit for 2U systems. Includes power jumper Y-cable.
	<p>A2U8X25DPDK 917966 735858241069 5032037035811 1</p>	<p>Spare/accessory Dual Ported 8x2.5" HDD upgrade kit for 2U systems.</p> <p>For upgrading up to 24 drives (R2208+2 bays, or R2216 + 1 bay) – standard control panel and ODD bay has to be replaced with rack ear panel (A2USTOPANEL). Includes power jumper Y-cable and I2C jumper cable.</p> <p>Not available at launch</p>

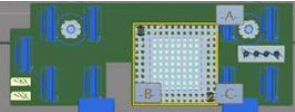
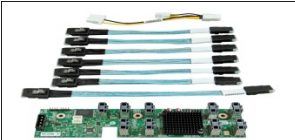

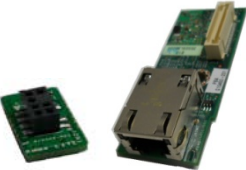


	<p>A2USTOPANEL 918248 735858241038 5032037035781 1</p>	<p>Storage rack ear control panel kit. Includes cables and adapter board, screws, second matching (empty) rack handle, can be used for upgrade.</p>
	<p>A1U2ULCP 921028 735858245302 5032037039826 1</p> <p>Not available at launch</p>	<p>LCP Module (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 1304,2208,2216,2308 families. Not compatible with 2224 and 2312 families. Module has 2 USB ports. No front video connector.</p>
	<p>AXXSATADVDROM 906872 735858197663 5032037015127 1</p>	<p>Slimline SATA DVDROM Device</p>
	<p>AXXSATADVDRWROM <b>898292</b> 735858197670 5032037015134 1</p>	<p>Slim SATA DVD+/-RW ROM Accessory</p>



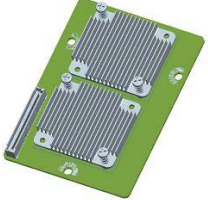
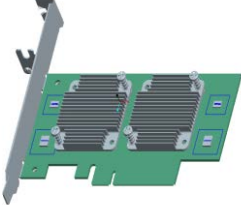


## 2.4 Storage subsystem spares and accessories

Image	Product Code MM UPC EAN MOQ	Description
	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
	RKSAS8 916351 735858238922 5032037033701 5	8port SAS Key, Orange
	RKSAS8R5 916352 735858238915 5032037033695 5	8port SAS with LSI SW RAID 5 Key, Purple
		AXXRPFKSSD2 915316 735858221467 EAN TBD 5
AXXRPFKDE2 915317 735858221474 EAN TBD 5		Upgrade Key to enable Drive Encryption Management for Intel's RAID RS25 family of ROC products
AXXRPFKNSH2 915318 735858221481 EAN TBD 5		Upgrade Key to enable Rapid Recovery Snapshot for Intel's RAID RS25 family of ROC products.



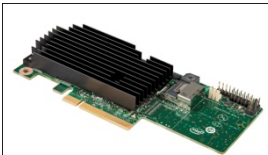





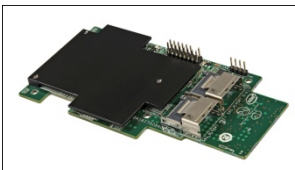






## 2.5 Expansion modules: IO Module, SAS Module, RMM4, TPM

Image	Product Code MM UPC EAN MOQ	Description
	RES2CV240 918934 735858241175 5032037035903 1	Integrated 24-port 6G SAS expander, compatible with R2200 family and P4000M/P4000L of chassis (only supported in 2.5" drive 2U or 4U chassis) Includes 3 screws and bumpers, 4 cables and power cable.
	RES2CV360 918935 735858241168 5032037035897 1	Integrated 36-port 6G SAS expander, compatible with R2200 family and P4000M/P4000L family of chassis (only supported in 2.5" drive 2U or 4U chassis) Includes 3 screws and bumpers, 6 Mini-SAS cables and power cable.
	AXXRMM4LITE 911660 00735858219297 5032037014946 1	Intel® Remote Management Module RMM4LITE - Activation key for advanced management features including remote KVM.
	AXXRMM4 911670 00735858219303 5032037014922 1	Intel® Remote Management Module RMM4 – Activation key for advanced management features including remote KVM plus Dedicated NIC Module.
	AXXTPME5 919737 735858240352 5032037035088 1	Trusted Platform Module for server systems
Picture not yet available	AXXIOMKIT 920852 735858244978 5032037039543 1	IO Module Cable and Brackets for use with any of the IO modules below with S2600IP4 the Intel®Server chassis P4000 and R2000.
	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.  Requires IO Module Kit AXXIOMKIT.

	<p>AXX10GBTWLIOM 917907 735858241113 5032037035866 1</p>	<p>Dual RJ-45 port 10GBASE-T IO module, based on Intel® Ethernet Controller X540 Includes three screws.  Requires IO Module Kit AXXIOMKIT.</p>
	<p>AXX4P1GBPWL IOM 917911 735858241083 5032037035835 1</p>	<p>Quad port 1GbE IO Module based on Intel® Ethernet Controller I350  Requires IO Module Kit AXXIOMKIT.</p>
	<p>AXXQAAIOMOD 920561 735858244848 5032037039413 1</p>	<p>Intel® Quick Assist Accelerator I/O Module Requires IO Module Kit AXXIOMKIT.  Note: This accessory will not be available at launch.</p>
	<p>AXXQAAPCIE 920562 735858244855 5032037039420 1</p>	<p>Intel® Quick Assist Accelerator PCIe card.  Note: This accessory will not be available at launch.</p>
	<p>AUPLGPUBR 920612 00735858244480 5032037039055 1</p>	<p>Bracket for securing full length GPU cards to fan bulkhead, for use in P4000L/P4000L-WS, includes 1 bracket, 4 1100mm GPGPU power cables and 7 screws for GPGPU fixture. Each GPGPU power cable has one 2x2 pin header to one 2x3 pin header plus one 2x1 header and one 2x3 pin header. The 2x3 header plus the 2x1 header can combine to a standard 2x4 pin header per GPGPU card's requirement.</p>
<p>Picture not yet available</p>	<p>AUPLCOPROBR 926365 00735858257053 5032037049146 1</p>	<p>Bracket for securing full length double width GPU cards to fan bulkhead, for use in P4000L/P4000L-WS, includes 1 bracket, 4 GPGPU power cables, 4 Intel® Xeon® Phi™ Coprocessor PCI Express* Card extension brackets, screws. Target availability: Q1'13</p>
	<p>RMS25CB080 924871 (Obsolete MM# 923085) 00735858238977 5</p>	<p>Intel® Integrated RAID Module RMS25CB080 LSI* SAS2208 ROC 6Gb/s SAS/SATA x8 PCIe 3.0 8 internal ports 1GB embedded memory Require one 80-pins on-board module connector Support RAID 0,1,10,5,6,50,60 RAID Premium Feature Key supported</p>



		Cables are not included
	RMS25CB040 924872 (Obsolete MM# 923086) 00735858238984 5	Intel® Integrated RAID Module RMS25CB040 LSI* SAS2208 ROC 6Gb/s SAS/SATA x8 PCIe 3.0 4 internal ports 1GB embedded memory Require one 80-pins on-board module connector Support RAID 0,1,10,5,6,50,60 RAID Premium Feature Key supported Cables are not included  Mezzanine card form factor – does not occupy PCIe slot
	RMS25KB080 924454 (Obsolete MM# 917089) 735858239028 5032037033800 5	SAS Module: 8 Port SAS-2.1 version, Entry-level HW RAID/straight SAS PCIe form factor
	RMS25KB040 924455 (Obsolete MM# 917090) 735858239035 5032037033817 5	SAS Module: 4 Port SAS-2.1 version, Entry-level HW RAID/straight SAS PCIe form factor
	RMT3CB080 924873 (Obsolete MM# 923087) 00735858238991 5	Intel® Integrated RAID Module RMT3CB080 LSI* SAS2208 ROC 6Gb/s SAS/SATA x8 PCIe 3.0 4 internal ports 512MB embedded memory Require one 80-pins on-board module connector Support RAID 0,1,10,5,6,50,60 RAID Premium Feature Key supported Cables are not included  Mezzanine card form factor – does not occupy PCIe slot
	RMS25PB080 924868 (Obsolete MM# 923072) 00735858238946 5	Intel® Integrated RAID Module RMS25PB080 LSI* SAS2208 ROC 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  Requires PCIe x8 slot
	RMS25PB040 924869 (Obsolete MM# 920383) 00735858238953 5	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  Requires PCIe8 slot
	RMS25JB080 924452 (Obsolete MM# 917087) 735858239004 5032037033787 5	Mezzanine SAS IO module: 8 Port SAS-2.1 version, Entry-level HW RAID/straight SAS
	RMS25JB040 924453 (Obsolete MM# 917088) 735858239011 5032037033794 5	Mezzanine SAS IO module: 4 Port SAS-2.1 version, Entry-level HW RAID/straight SAS
	RMT3PB080 924870 (Obsolete MM# 923084) 00735858238960 5	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  Requires PCIe8 slot
	AXXRMFBU2 926341 00735858244541 5	Intel® RAID Maintenance Free Backup Unit AXXRMFBU2 for use with Intel® Integrated RAID Module.
	AXXRSBBU9 919738 00735858220286 5	Intel® RAID Smart Battery Backup module for use with Intel® Integrated Server RAID
	SVCEWDPSY 911295 1	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.
	SVCEWDPBD 911294 1	Two year extended warranty for Intel® Server Boards that support two processors.