

**Intel® Server Board S2400LP Family**  
**Intel® Server System H2000LP Family**  
**Intel® Compute Module HNS2400LP Family**  
**Intel® Server Chassis H2000 Family**  
**Spares/Accessories List and Configuration Guide**

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server Board S2400LP and the appropriate 2U Intel Rack Mount Server Systems



Revision 1.2

May 2012

Enterprise Platforms and Services Marketing

## ***Revision History***

October'11 – Rev 0.9 – Production draft

December'11 – Rev 0.95 – Production Candidate

February'12 – Rev 1.0 – Production Candidate 2

March'12 – Rev 1.1 – Remove EPSP InfiniBand Gen3 I/O modules

May'12 – Rev 1.2 – Production Version

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# Table of Contents:

<b>1. SYSTEM PRODUCT ORDER CODES.....</b>	<b>4</b>
1.1 PRODUCT DESCRIPTIONS – OVERVIEW.....	4
1.2 SUMMARY CHART .....	4
1.3 AVAILABLE PRODUCTION BOARD ORDER CODES .....	6
1.4 AVAILABLE PRODUCTION SYSTEM ORDER CODES .....	7
1.5 AVAILABLE PRODUCTION CHASSIS ORDER CODES .....	9
1.6 AVAILABLE PRODUCTION COMPUTE MODULE ORDER CODES .....	10
<b>2. SPARES AND ACCESSORIES ORDER CODES.....</b>	<b>12</b>
2.1 GENERAL SPARES AND ACCESSORIES.....	12
2.2 DYNAMIC KEY SPARES AND ACCESSORIES.....	17
2.3 6GB/s SAS & HW RAID:.....	18
2.4 EXPANSION MODULES: IO MODULE .....	19
2.5 SERVICE: ON-SITE REPAIR, EXTENDED WARRANTY.....	21
2.6 VMWARE PRODUCT DESCRIPTIONS – OVERVIEW .....	22
2.7 VMWARE VSPHERE* AND VCENTER* SERVER SKUS.....	22

# 1. System Product Order Codes

## 1.1 Product Descriptions – Overview

Product based on the Intel® Server Board S2400LP will be offered in variety of options to provide the flexibility and facility for customer.

BIK will be offered as integrated systems at launch, including drive carriers, InfiniBand and power supplies configuration.

Board will be offered as 10-pack at launch.

Chassis will be offered as KDK at launch. It will include power supply, but Compute Module will be excluded.

Compute Module can be ordered separately for both single-pack and 10-pack.

## 1.2 Summary chart

For a quick overview, all configuration options are summarized on below chart. Reference details below in this document for MM numbers, configuration details and product order codes.

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.

BIK:

Pcode	FF	HDD	# of HDD		Power supply	Rails	Compute Module	Available Time
H2312LPJR	2U	3.5	12		2 x 1200W AC	Value	4 x HNS2400LP	Launched
H2312LPQJR	2U	3.5	12		2 x 1200W AC	Value	4 x HNS2400LPQ	Launched
H2312LPFJR	2U	3.5	12		2 x 1200W AC	Value	4 x HNS2400LPF	Non TTM
H2216LPJR	2U	2.5		16	2 x 1200W AC	Value	4 x HNS2400LP	Launched
H2216LPQJR	2U	2.5		16	2 x 1200W AC	Value	4 x HNS2400LPQ	Launched
H2216LPFJR	2U	2.5		16	2 x 1200W AC	Value	4 x HNS2400LPF	Non TTM
H2312LPKR	2U	3.5	12		2 x 1600W AC	Value	4 x HNS2400LP	Q3'12
H2312LPQKR	2U	3.5	12		2 x 1600W AC	Value	4 x HNS2400LPQ	Q3'12
H2312LPFKR	2U	3.5	12		2 x 1600W AC	Value	4 x HNS2400LPF	Non TTM
H2216LPKR	2U	2.5		16	2 x 1600W AC	Value	4 x HNS2400LP	Q3'12
H2216LPQKR	2U	2.5		16	2 x 1600W AC	Value	4 x HNS2400LPQ	Q3'12
H2216LPFKR	2U	2.5		16	2 x 1600W AC	Value	4 x HNS2400LPF	Non TTM

KDK:

Pcode	FF	HDD	# of HDD		Power supply	Rails	Compute Module	Available Time
H2312XXJR	2U	3.5	12		2x1200W AC	Value	Not included	Non TTM
H2216XXJR	2U	2.5		16	2x1200W AC	Value	Not included	Non TTM
H2312XXKR	2U	3.5	12		2x1600W AC	Value	Not included	Non TTM

H2216XXKR	2U	2.5		16	2x1600W AC	Value	Not included	Non TTM
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Compute Module:

Pcode	FF	Integrated InfiniBand	rIOM riser / carrier	RMM4 Lite Key	Intel® RAID C600 Upgrade Key	Available Time
HNS2400LP	1U Compute Module	No	Not included	Not included	Not included	Launched
HNS2400LPQ	1U Compute Module	Yes (QDR 40Gb/s)	Not included	Not included	Not included	Launched
HNS2400LPF	1U Compute Module	Yes (FDR 56Gb/s)	Not included	Not included	Not included	Non TTM

Board:

Pcode	FF	Integrated InfiniBand	rIOM riser / carrier	RMM4 Lite Key	Intel® RAID C600 Upgrade Key	Available Time
BBS2400LP	6.8" W x 16.6" L	No	Not included	Not included	Not included	Launched
BBS2400LPQ	6.8" W x 16.6" L	Yes (QDR 40Gb/s)	Not included	Not included	Not included	Launched
BBS2400LPF	6.8" W x 16.6" L	Yes (FDR 56Gb/s)	Not included	Not included	Not included	Non TTM

### 1.3 Available Production Board order codes



Image	Product Code MM UPC EAN MOQ	Description
	<p>BBS2400LP</p> <p>919030</p> <p>735858234986</p> <p>5032037029735</p> <p>10</p>	<p>Production Intel® Server Board S2400LP (OEM 10-pack version)</p> <ul style="list-style-type: none"> <li>- 6.8" W x 16.6" L</li> <li>- 12x DIMMs support DDR3/DDR3L LR/U/R-DIMMs</li> <li>- 4x 3Gb/s SATA/SAS ports from SCU, 1x 6Gb/s SATA DOM ports from AHCI</li> <li>- 1 PCIe3 x16 capable slot and 1 PCIe3 x8 capable slot (not PCIe Sig compatible)</li> <li>- Dual 1GbE</li> <li>- Compatible with Intel® Xeon® processor E5-2400 series.</li> </ul>
 <p>*Depop board shown</p>	<p>BBS2400LPQ</p> <p>919031</p> <p>735858234993</p> <p>5032037029742</p> <p>10</p>	<p>Production Intel® Server Board S2400LPQ (OEM 10-pack version)</p> <ul style="list-style-type: none"> <li>- 6.8" W x 16.6" L</li> <li>- 12x DIMMs support DDR3/DDR3L LR/U/R-DIMMs</li> <li>- 4x 3Gb/s SATA/SAS ports from SCU, 1x 6Gb/s SATA DOM ports from AHCI</li> <li>- 2 PCIe3 x8 capable slots (not PCIe Sig compatible)</li> <li>- Dual 1GbE</li> <li>- Single InfiniBand QDR (QSFP port)</li> <li>- Compatible with Intel® Xeon® processor E5-2400 series.</li> </ul>
 <p>*Depop board shown</p>	<p>BBS2400LPF</p> <p>921307</p> <p>00735858247375</p> <p>5032037042307</p> <p>10</p>	<p>Production Intel® Server Board S2400LPF (OEM 10-pack version)</p> <ul style="list-style-type: none"> <li>- 6.8" W x 16.6" L</li> <li>- 12x DIMMs support DDR3/DDR3L LR/U/R-DIMMs</li> <li>- 4x 3Gb/s SATA/SAS ports from SCU, 1x 6Gb/s SATA DOM ports from AHCI</li> <li>- 2 PCIe3 x8 capable slots (not PCIe Sig compatible)</li> <li>- Dual 1GbE</li> <li>- Single InfiniBand FDR (QSFP port)</li> <li>- Compatible with Intel® Xeon® processor E5-2400 series.</li> </ul>

## 1.4 Available Production System order codes



Image	Product Code MM UPC EAN MOQ	Description
 <p>*Demo only</p>	<p>H2312LPJR 919008 735858235020 5032037029773 1</p>	<p>The Production Intel® Server System H2312LPJR</p> <ul style="list-style-type: none"> <li>- 2U H2312XXJR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LP Compute Module</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>
 <p>*Demo only</p>	<p>H2312LPQJR 919009 735858235037 5032037029780 1</p>	<p>The Production Intel® Server System H2312LPQJR</p> <ul style="list-style-type: none"> <li>- 2U H2312XXJR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LPQ Compute Module (InfiniBand QDR)</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>
 <p>*Demo only</p>	<p>H2312LPFJR 921309 735858246422 5032037040914 1</p>	<p>The Production Intel® Server System H2312LPFJR</p> <ul style="list-style-type: none"> <li>- 2U H2312XXJR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LPF Compute Module (InfiniBand FDR)</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>
 <p>*Demo only</p>	<p>H2216LPJR 919014 735858235006 5032037029759 1</p>	<p>The Production Intel® Server System H2216LPJR</p> <ul style="list-style-type: none"> <li>- 2U H2216XXJR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LP Compute Module</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>
 <p>*Demo only</p>	<p>H2216LPQJR 919015 735858235013 5032037029766 1</p>	<p>The Production Intel® Server System H2216LPQJR</p> <ul style="list-style-type: none"> <li>- 2U H2216XXJR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LPQ Compute Module (InfiniBand QDR)</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>



 <p>*Demo only</p>	<p>H2216LPFJR 921310 735858246439 5032037040921 1</p>	<p>The Production Intel® Server System H2216LPFJR</p> <ul style="list-style-type: none"> <li>- 2U H2216XXJR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LPF Compute Module (InfiniBand FDR)</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>
 <p>*Demo only</p>	<p>H2312LPKR 923039 735858250016 5032037044592 1</p>	<p>The Production Intel® Server System H2312LPKR</p> <ul style="list-style-type: none"> <li>- 2U H2312XXKR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LP Compute Module</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>
 <p>*Demo only</p>	<p>H2312LPQKR 923043 735858250023 5032037044608 1</p>	<p>The Production Intel® Server System H2312LPQKR</p> <ul style="list-style-type: none"> <li>- 2U H2312XXKR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LPQ Compute Module (InfiniBand QDR)</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>
 <p>*Demo only</p>	<p>H2312LPFKR 921311 735858250030 5032037044615 1</p>	<p>The Production Intel® Server System H2312LPFKR</p> <ul style="list-style-type: none"> <li>- 2U H2312XXKR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LPF Compute Module (InfiniBand FDR)</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>
 <p>*Demo only</p>	<p>H2216LPKR 923041 735858249935 5032037044516 1</p>	<p>The Production Intel® Server System H2216LPKR</p> <ul style="list-style-type: none"> <li>- 2U H2216XXKR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LP Compute Module</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>




 <p>*Demo only</p>	<p>H2216LPQKR 923044 735858250207 5032037044769 1</p>	<p>The Production Intel® Server System H2216LPQKR</p> <ul style="list-style-type: none"> <li>- 2U H2216XXKR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LPQ Compute Module (InfiniBand QDR)</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>
 <p>*Demo only</p>	<p>H2216LPFKR 921312 735858249942 5032037044523 1</p>	<p>The Production Intel® Server System H2216LPFKR</p> <ul style="list-style-type: none"> <li>- 2U H2216XXKR Chassis (Blank Node Filler FH2000BNF excluded)</li> <li>- 4x HNS2400LPF Compute Module (InfiniBand FDR)</li> </ul> <p><i>There are no required EPSD components to make this system functional</i></p>



### 1.5 Available Production Chassis order codes

Image	Product Code MM UPC EAN MOQ	Description
 <p>*Demo only</p>	<p>H2312XXJR 919020 735858243285 5032037037921 1</p>	<p>The Production Intel® Server Chassis H2312XXJR</p> <ul style="list-style-type: none"> <li>- 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included)</li> <li>- 2x 1200W Platinum PSU (FXX1200PCRPS)</li> <li>- 12x 3.5" Hot-swap HDDs support (carriers FXX35HSADPB included, backplane FHW12X35HSBP)</li> <li>- 4x Blank Node Filler (FH2000BNF)</li> <li>- Basic rack rail (AXXELVRAIL)</li> </ul>
 <p>*Demo only</p>	<p>H2216XXJR 919021 735858243278 5032037037914 1</p>	<p>The Production Intel® Server Chassis H2216XXJR</p> <ul style="list-style-type: none"> <li>- 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included)</li> <li>- 2x 1200W Platinum PSU (FXX1200PCRPS)</li> <li>- 16x 2.5" Hot-swap HDDs support (carriers FXX25HSCAR included, backplane FHW16X25HSBP)</li> <li>- 4x Blank Node Filler (FH2000BNF)</li> <li>- Basic rack rail (AXXELVRAIL)</li> </ul>

 <p>*Demo only</p>	<p>H2312XXKR 919022 735858243292 5032037037938 1</p>	<p>The Production Intel® Server Chassis H2312XXKR</p> <ul style="list-style-type: none"> <li>- 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included)</li> <li>- 2x 1600W Platinum PSU (FXX1600PCRPS)</li> <li>- 12x 3.5" Hot-swap HDDs support (carriers FXX35HSADPB included, backplane FHW12X35HSBP)</li> <li>- 4x Blank Node Filler (FH2000BNF)</li> <li>- Basic rack rail (AXXELVRAIL)</li> </ul>
 <p>*Demo only</p>	<p>H2216XXKR 919023 735858243308 5032037037945 1</p>	<p>The Production Intel® Server Chassis H2216XXKR</p> <ul style="list-style-type: none"> <li>- 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included)</li> <li>- 2x 1600W Platinum PSU (FXX1600PCRPS)</li> <li>- 16x 2.5" Hot-swap HDDs support (carriers FXX25HSCAR included, backplane FHW16X25HSBP)</li> <li>- 4x Blank Node Filler (FH2000BNF)</li> <li>- Basic rack rail (AXXELVRAIL)</li> </ul>



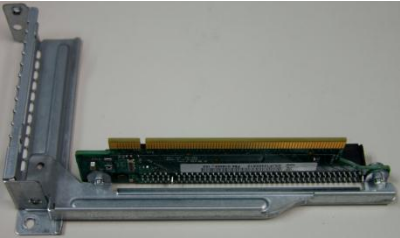

## 1.6 Available Production Compute Module order codes

Image	Product Code MM UPC EAN MOQ	Description
 <p>*Demo only</p>	<p>HNS2400LP 918380 735858235044 5032037029797 1</p>	<p>The Production Intel® Compute Module HNS2400LP</p> <ul style="list-style-type: none"> <li>- Intel® Server Board S2400LP included</li> <li>- Node Power Board FH2000NPB included</li> <li>- Bridge Board FHWLPBGB included</li> <li>- Slot1 riser card FHW1U16RISER included</li> <li>- 3x 4056 dual rotor fans FXX4056DRFAN included</li> <li>- 1U passive heatsinks (one FXXEA90X90HS for front, and one FXXCA90X90HS for rear) included</li> <li>- Airduct included</li> <li>- 1U node tray included</li> </ul>

 <p>*Demo only</p>	<p>HNS2400LPQ 918379 735858235051 5032037029803 1</p>	<p>The Production Intel® Compute Module HNS2400LPQ</p> <ul style="list-style-type: none"> <li>- Intel® Server Board S2400LPQ included (InfiniBand QDR)</li> <li>- Node Power Board FH2000NPB included</li> <li>- Bridge Board FHWLPBGB included</li> <li>- Slot1 riser card FHW1U16RISER included</li> <li>- 3x 4056 dual rotor fans FXX4056DRFAN included</li> <li>- 1U passive heatsinks (one FXXEA90X90HS for front, and one FXXCA90X90HS for rear) included</li> <li>- Airduct included</li> <li>- 1U node tray included</li> </ul>
 <p>*Demo only</p>	<p>HNS2400LPF 921308 735858250092 5032037044677 1</p>	<p>The Production Intel® Compute Module HNS2400LPF</p> <ul style="list-style-type: none"> <li>- Intel® Server Board S2400LPF included (InfiniBand FDR)</li> <li>- Node Power Board FH2000NPB included</li> <li>- Bridge Board FHWLPBGB included</li> <li>- Slot1 riser card FHW1U16RISER included</li> <li>- 3x 4056 dual rotor fans FXX4056DRFAN included</li> <li>- 1U passive heatsinks (one FXXEA90X90HS for front, and one FXXCA90X90HS for rear) included</li> <li>- Airduct included</li> <li>- 1U node tray included</li> </ul>






## 2. Spares and Accessories Order Codes



### 2.1 General spares and accessories

Image	Product Code MM UPC EAN MOQ	Description
 <p>*Demo only</p>	AXXRMM4LITE  911660  00735858219297  5032037014946  1	Activation key for advanced management features
 <p>*Demo only</p>	AXXRMM4IOM  918249  735858243254  5032037037891  1	PCI Express x16 (164 pin) rIOM riser and rIOM carrier board kit for supporting dedicate RMM4 NIC port and containing Intel® I/O module for HNS2600JF and HNS2400LP compute module family  <b>NOTE:</b> The AXXRMM4LITE is NOT included. It must be ordered seperately for advanced management features.
 <p>*Demo only</p>	FHW1U16RISER  916729  735858223003  5032037019286  10	1U PCI Express x16 riser card for supporting in-board low-profile PCIe adding card of Slot1 on HNS2600JF, HNS2600WP and HNS2400LP compute module family
 <p>*Demo only</p>	FXX4056DRFAN  918254  735858243469  5032037038102  10	40x56mm Dual Rotor Fan spare

 <p>*Demo only</p>	<p>FXX1200PCRPS 915605 735858225137 5032037035071 1</p>	<p>1200W AC Common Redundant Power Supply FXX1200PCRPS 80Plus Platinum-Efficiency</p>
 <p>*Demo only</p>	<p>FXX1600PCRPS 915606 735858243650 5032037038294 1</p>	<p>1600W AC Common Redundant Power Supply FXX1600PCRPS 80Plus Platinum-Efficiency <i>Notes: Available in Q3'12</i></p>
 <p>*Demo only</p>	<p>FXXCA90X90HS 918255 735858235075 5032037029827 2</p>	<p>1U Standard Cu/Al 90mm x 90mm Heat Sink (Rear Heat Sink)</p>
 <p>*Demo only</p>	<p>FXXEA90X90HS 918256 735858235082 5032037029834 2</p>	<p>1U Standard Ex-Al 90mm x 90mm Heat Sink (Front Heat Sink)</p>
 <p>*Demo only</p>	<p>FHW12X35HSBP 920830 735858246729 5032037041188 1</p>	<p>Spare 12 x 3.5" backplane for H2000 Chassis family</p>

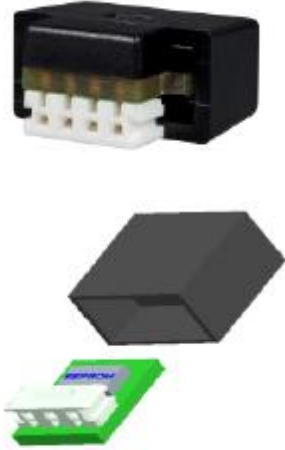
 <p>*Demo only</p>	<p>FHW16X25HSBP 920829 735858246736 5032037041195 1</p>	<p>Spare 16 x 2.5" backplane for H2000 Chassis family</p>
 <p>*Demo only</p>	<p>FH2000BNF 920831 735858246880 5032037041881 10</p>	<p>Spare Blank Node Filler for H2000 Chassis family</p>
 <p>*Demo only</p>	<p>FH2000NPB 920832 735858246743 5032037041201 10</p>	<p>Spare Node Power Board for H2000 Chassis family</p>
 <p>*Demo only</p>	<p>FHWLPBGB 920834 735858246774 5032037041232 10</p>	<p>Spare Bridge Board for H2000LP System</p>
 <p>*Demo only</p>	<p>FXXCRPSPDB 921250 735858246750 5032037041218 10</p>	<p>Spare Power Distribution Board for Common Redundant Power Supply 1200W and 1600W of H2000 Chassis</p>

 <p>*Demo only</p>	<p>FH2000FPANEL 920835 735858246873 5032037041874 1</p>	<p>Spare front control panel kit for H2000 Chassis family</p>
 <p>*Demo only</p>	<p>FH2000LPMKIT 919034 735858235068 5032037029810 1</p>	<p>Chassis Maintenance Kit FH2000LPMKIT (for Intel® Server System H2000LP family) including (2) Node tray of HNS2400LP, (2) Airduct of HNS2400LP, Cable kit and Screw kit</p>
 <p>*Demo only</p>	<p>FXX25HSCAR 918807 735858241182 5032037035910 8</p>	<p>Spare 2.5" HDD hot swap carriers</p>
 <p>*Demo only</p>	<p>FXX35HSADPB 912771 00735858219495 5032037016391 8</p>	<p>Spare 3.5" HDD hot swap carriers</p>
 <p>*Demo only</p>	<p>AXXELVRAIL 920970 00735858244367 5032037038980 1</p>	

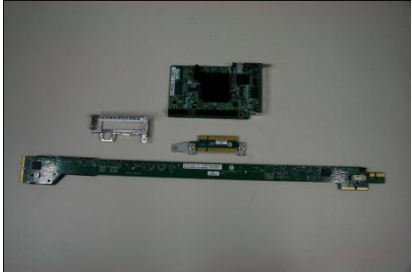


 <p>*Demo only</p>	<p>FPWRCABLENA 879287 735858181129 5032037015738 1</p>	<p>North American Power Cord Spare</p>
 <p>*Demo only</p>	<p>A2UBEZEL 918086 735858241137 5032037035880 1</p>	<p>2U locking bezel with two branding clip-on inserts</p>




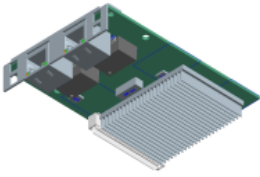
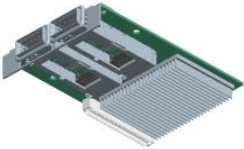


## 2.2 Dynamic Key spares and accessories

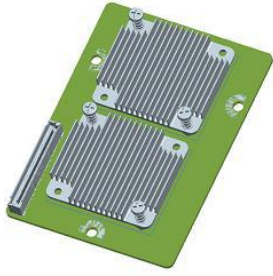
Image	Product Code MM UPC EAN MOQ	Description
 <p>*Demo only</p>	When no key installed:	4 SATA channels active with SW RAID 'basic' which includes RSTe SW RAID 0/1/10/5 + LSI SW RAID 0/1/10
	RKSATA4R5  916346  735858238861  5032037033640  5	Intel® RAID C600 Upgrade Key RKSATA4R5 enables LSI SATA SW RAID 5, Black
	RKSAS4  916349  735858238892  5032037033671  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  916350  735858238908  5032037033688  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 SWR5), Yellow

## 2.3 6Gb/s SAS & HW RAID:

Image	Product Code MM UPC EAN MOQ	Description
 <p>*Demo only</p>	AH2000LP6GKIT  922865  735858250078  5032037044653  1	6Gb/s SAS accessories kit (cable-free) for H2000LP family  <b>Notes:</b> 6Gb/s SAS module RMS25LB has been included.  <i>Available in Q3'12</i>
 <p>*Demo only</p>	FH20006GBGBR  922998  TBD  TBD  1	Spare 6Gb/s SAS bridge board and riser package for AH2000JF6GKIT, AH2000WP6GKIT and AH2000LP6GKIT  <i>Available in Q3'12</i>
 <p>*Demo only</p>	RMS25LB  922997  735858250085  5032037044660  1	Spare 6Gb/s SAS module for AH2000JF6GKIT, AH2000WP6GKIT and AH2000LP6GKIT  <i>Available in Q3'12</i>

## 2.4 Expansion modules: IO Module

Image	Product Code MM UPC EAN MOQ	Description
	<p>AXX10GBNIAIOM</p> <p>917905</p> <p>735858241090</p> <p>5032037035842</p> <p>1</p>	<p>Dual SFP+ port 10GbE IO module based on Intel® 82599 10 Gigabit Ethernet Controller</p> <p>Supports direct connect or transceiver. Cables/transceivers not included.</p> <p>Includes three screws</p>
	<p>AXX10GBTWLIOM</p> <p>917907</p> <p>735858241113</p> <p>5032037035866</p> <p>1</p>	<p>Dual RJ-45 port 10GBASE-T IO module, based on Intel® Ethernet Controller X540</p> <p>Includes three screws</p>
 <p>*Dual ports shown</p>	<p>AXX1FDRIBIOM</p> <p>918607</p> <p>735858241106</p> <p>5032037035859</p> <p>1</p>	<p>Single port, FDR 56GT/S speed Intel I/O Expansion Infiniband module, with QSFP connector, based on Mellanox CX3 MT27504A1-FCCR-FV chip.</p> <p>Includes three screws</p> <p>*Dual port shown on picture</p>
	<p>AXX2FDRIBIOM</p> <p>920627</p> <p>735858245722</p> <p>5032037040235</p> <p>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. Includes three screws.</p>
	<p>AXX4P1GBPWLIO M</p> <p>917911</p> <p>735858241083</p> <p>5032037035835</p> <p>1</p>	<p>Quad port 1GbE IO Module based on Intel® Ethernet Controller I350</p>



AXXQAAIOMOD

920561

735858244848

5032037039413

1

Intel Quick Assist Accelerator I/O Module

## 2.5 Service: On-site Repair, Extended Warranty

Image	Product Code MM MOQ	Description
	SVCORHWSY  TBD  1	Intel® Server System H2000 On-Site Repair, Next Business Day
	SVCEWHWSY  TBD  1	Intel® Server System H2000 Extended Warranty, Single
	SVCEWHWB  TBD  1	Intel® Compute Module HNS2000 Extended Warranty, Single
	SVCEWDPBD  911294  1	Two year extended warranty for Intel® Server Boards that support two processors.

## 2.6 VMware Product Descriptions – Overview

VMware vSphere\* software is available as an accessory when ordering an Intel® Server Board or Intel® Server System. **Customers can only order these SKUs at the time they are ordering an Intel® Server Board or Intel® Server System.** These SKUs cannot be ordered individually.

**Licensing Per Processor with vRAM Entitlements:** VMware vSphere 5 is licensed on a per-processor basis with a vRAM entitlement. Each VMware vSphere 5 processor license comes with an entitlement to a certain amount of vRAM capacity, or memory configured to virtual machines. For more information, VMware’s licensing whitepaper can be found at <http://www.vmware.com/products/vsphere/overview.html>.

## 2.7 VMware vSphere\* and vCenter\* Server SKUs

**Each VMware vSphere SKU contains a paper certificate with a software product activation code. As directed on the certificate, the end user must register the product activation code with VMware at <http://www.vmware.com/code/intel> to access VMware Software, Support and Subscription Services.**

VMware vSphere\* and vCenter\* Server Editions

All VMware vSphere SKUs (except Essentials) are bundled with either 1 year VMware Basic (12x5) or with 1 year VMware Production (24x7) Support and Subscription. The Essentials SKU is bundled with 1 year VMware Subscription.

<b>Essentials</b>	VMware vSphere 5 Essentials Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Subscription.
<b>Essentials Plus</b>	VMware vSphere 5 Essentials Plus Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription
<b>Standard</b>	VMware vSphere 5 Standard for 1 processor (with 32 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription
<b>Enterprise</b>	VMware vSphere 5 Enterprise for 1 processor (with 64 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription
<b>Enterprise Plus</b>	VMware vSphere 5 Enterprise Plus for 1 processor (with 96 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription
<b>VMware vCenter* Server Standard for vSphere 5</b>	VMware vCenter Server 5 Standard for vSphere 5 (Per Instance) One instance of vCenter Server is required to centrally manage virtual machines and their hosts and to enable all VMware vSphere features on Standard, Enterprise and Enterprise Plus editions. with 1 year VMware Basic (12x5) Support and Subscription with 1 year VMware Production (24x7) Support and Subscription

**VMware vSphere\* and VMware vCenter\* – Order Codes:**

Product Code	UPC	MM	Description	Minimum Order Quantity
VMW5ESS	7 35858 22474 1	918769	Paper certificate containing software license activation code for VMware vSphere 5 Essentials Bundle for 3 hosts (Max 2 processors per host) and 192	1

			GB vRAM entitlement with 1 year VMware Subscription.	
VMW5ESSPLUS	7 35858 22475 8	918774	Paper certificate containing software license activation code VMware vSphere 5 Essentials Plus Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5ESSPLUSP	7 35858 22476 5	918768	Paper certificate containing software license activation code for VMware vSphere 5 Essentials Plus Bundle for 3 hosts (Max 2 processors per host) and 192 GB vRAM entitlement with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5STD	7 35858 22477 2	918773	Paper certificate containing software license activation code for VMware vSphere 5 Standard for 1 processor (with 32 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5STDP	7 35858 22478 9	918767	Paper certificate containing software license activation code for VMware vSphere 5 Standard for 1 processor (with 32 GB vRAM entitlement per processor) with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5ENT	7 35858 22479 6	918772	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise for 1 processor (with 64 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5ENTP	7 35858 22484 0	918770	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise for 1 processor (with 64 GB vRAM entitlement per processor) with 1 year VMware Production (24x7) Support and Subscription.	1
VMW5ENTPLUS	7 35858 22480 2	918771	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise Plus for 1 processor (with 96 GB vRAM entitlement per processor) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5ENTPLUSP	7 35858 22481 9	918760	Paper certificate containing software license activation code for VMware vSphere 5 Enterprise Plus for 1 processor (with 96 GB vRAM	1

			entitlement per processor) with 1 year VMware Production (24x7) Support and Subscription.	
VMW5VCSTD	7 35858 22482 6	918742	Paper certificate containing software license activation code for VMware vCenter Server 5 Standard for vSphere 5 (Per Instance) with 1 year VMware Basic (12x5) Support and Subscription.	1
VMW5VCSTDP	7 35858 22483 3	918759	Paper certificate containing software license activation code for VMware vCenter Server 5 Standard for vSphere 5 (Per Instance) with 1 year VMware Production (24x7) Support and Subscription.	1