Intel® Server Board S2600WP Family
Intel® Compute Module HNS2600WP 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 S2600WP and the appropriate 2U Intel® Rack
Mount Server Systems**

Revision 1.8

October 2013

Enterprise Platforms and Services Marketing

Revision History

October 2011 – Rev 0.90 – Production Candidate

October 2011 – Rev 0.96 – Production Candidate 2

February 2012 – Rev 1.0 – Production Candidate 3

May 2012 – Rev 1.2 – Production Version

July 2012 – Rev 1.3 – Added note in section 2.4

October 2012 – Rev 1.4 – Added AXX10GBTWLHW and Intel® Server Continuity Suit SKUs

December 2012 – Rev 1.5 – Removed End of Life "on site repair" option, End of Life Symantec* options, End of Life VMware* options, and End of Life "Intel® Server Continuity Suite" options

April 2013 – Rev 1.6 – Added Intel® Manager and Distribution for Apache Hadoop*

July 2013 – Rev 1.7 – Updated the MM# for RMS25KB040 and RMS25PB040

October 2013 – Rev 1.8 – Removed BIK SKUs, which have passed last order date

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   Product Description – Overview

Product based on the Intel® Server Board S2600WP will be offered in a variety of options to provide flexibility and facility for the customer.

- BIK SKUs are EOL after September 30 2013 as last order date.

- Board will be offered as a 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 in the below chart. Refer to the details below in this document for MM numbers, configuration details, and product order codes.

EPSD Romley Chassis and Systems shipped to the US and 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.

Knock Down Kit:

Pcode	FF	HDD	# of HDD	Power supply	Rails	Compute Module	Available Time
H2312XXKR	2U	3.5	12	2x1600W AC	Value	Not included	Shipping
H2216XXKR	2U	2.5	16	2x1600W AC	Value	Not included	Shipping

Compute Module:

Pcode	FF	Integrated InfiniBand*	Slot1 x16 PCIe Riser	rIOM riser / carrier	RMM4 Lite Key	Intel® RAID C600 Upgrade Key	Available Time
HNS2600WP	1U Compute Module	No	Included	Not included	Not included	Not included	Shipping
HNS2600WPQ	1U Compute Module	Yes (QDR 40Gb/s)	Included	Not included	Not included	Not included	Shipping
HNS2600WPF	1U Compute Module	Yes (FDR 56Gb/s)	Included	Not included	Not included	Not included	Shipping

Board:

Pcode	FF	Integrated InfiniBand*	Slot1 x16 PCIe Riser	rIOM riser / carrier	RMM4 Lite Key	Intel® RAID C600 Upgrade Key	Available Time
BBS2600WP	6.8" W x 18.9" L	No	Included	Not included	Not included	Not included	Shipping
BBS2600WPQ	6.8" W x 18.9" L	Yes (QDR 40Gb/s)	Included	Not included	Not included	Not included	Shipping
BBS2600WPF	6.8" W x 18.9" L	Yes (FDR 56Gb/s)	Included	Not included	Not included	Not included	Shipping

1.3   Available Production Board order codes

Image	Product Code MM UPC EAN MOQ	Description
	BBS2600WP 919026 735858243506 5032037038140 10	Production Intel® Server Board S2600WP (OEM 10-pack version) − 6.8'' W x 18.9'' L. − 16x DIMMs support DDR3/DDR3L LR/U/R-DIMMs. − 4x 3Gb/s SATA/SAS ports from SCU, 2x 6Gb/s SATA DOM ports from AHCI. − 3 PCIe3 x16 capable slots and 1 PCIe3 x24 capable slot (not PCIe Sig compatible). − Dual 1GbE. − Compatible with Intel® Xeon® processor E5-2600 series.
*Depop board shown	BBS2600WPQ 919027 735858243513 5032037038157 10	Production Intel® Server Board S2600WPQ (OEM 10-pack version) − 6.8'' W x 18.9'' L. − 16x DIMMs support DDR3/DDR3L LR/U/R-DIMMs. − 4x 3Gb/s SATA/SAS ports from SCU, 2x 6Gb/s SATA DOM ports from AHCI. − 4 PCIe3 x16 capable slots (not PCIe Sig compatible). − Dual 1GbE. − Single InfiniBand* QDR (QSFP port). − Compatible with Intel® Xeon® processor E5-2600 series.
*Depop board shown	BBS2600WPF 921313 735858246293 5032037040785 10	Production Intel® Server Board S2600WPF (OEM 10-pack version) − 6.8'' W x 18.9'' L. − 16x DIMMs support DDR3/DDR3L LR/U/R-DIMMs. − 4x 3Gb/s SATA/SAS ports from SCU, 2x 6Gb/s SATA DOM ports from AHCI. − 4 PCIe3 x16 capable slots (not PCIe Sig compatible). − Dual 1GbE. − Single InfiniBand* FDR (QSFP port). − Compatible with Intel® Xeon® processor E5-2600 series.

1.4   Available Production System order codes

N/A

1.5   Available Production Chassis order codes

Image	Product Code MM UPC EAN MOQ	Description
*Demo only	H2312XXKR 919022 735858243292 5032037037938 1	The Production Intel® Server Chassis H2312XXKR – 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included). – 2x 1600W Platinum PSU (FXX1600PCRPS). – 12x 3.5'' Hot-swap HDDs support (carriers FXX35HSADPB included, backplane FHW12X35HSBP). – 4x Blank Node Filler (FH2000BNF). – Basic rack rail (AXXELVRAIL).
*Demo only	H2216XXKR 919023 735858243308 5032037037945 1	The Production Intel® Server Chassis H2216XXKR – 2U H2000 Chassis (front panel FH2000FPANEL included, Power Distribution Board FXXCRPSPDB included). – 2x 1600W Platinum PSU (FXX1600PCRPS). – 16x 2.5'' Hot-swap HDDs support (carriers FXX25HSCAR included, backplane FHW16X25HSBP). – 4x Blank Node Filler (FH2000BNF). – Basic rack rail (AXXELVRAIL).

1.6   Available Production Compute Module order codes

Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	HNS2600WP 918378 735858243629 5032037038263 1	The Production Intel® Compute Module HNS2600WP – Intel® Server Board S2600WP included. – Node Power Board FH2000NPB included. – Bridge Board FHWJFWPBGB included. – Slot1 riser card FHW1U16RISER included. – 3x 4056 dual rotor fans FXX4056DRFAN included. – 1U passive heatsinks (one FXXEA84X106HS for front, and one FXXCA84X106HS for rear) included – Airduct included. – 1U node tray included. (intel) hadoop
 *Demo only	HNS2600WPQ 918377 735858243636 5032037038270 1	The Production Intel® Compute Module HNS2600WPQ – Intel® Server Board S2600WPQ included (InfiniBand* QDR). – Node Power Board FH2000NPB included. – Bridge Board FHWJFWPBGB included. – Slot1 riser card FHW1U16RISER included. – 3x 4056 dual rotor fans FXX4056DRFAN included. – 1U passive heatsinks (one FXXEA84X106HS for front, and one FXXCA84X106HS for rear) included – Airduct included. – 1U node tray included. (intel) hadoop
 *Demo only	HNS2600WPF 921314 735858247948 5032037042826 1	The Production Intel® Compute Module HNS2600WPF – Intel® Server Board S2600WPF included (InfiniBand* FDR). – Node Power Board FH2000NPB included. – Bridge Board FHWJFWPBGB included. – Slot1 riser card FHW1U16RISER included. – 3x 4056 dual rotor fans FXX4056DRFAN included. – 1U passive heatsinks (one FXXEA84X106HS for front, and one FXXCA84X106HS for rear) included – Airduct included. – 1U node tray included. (intel) hadoop

2. Spares and Accessories Order Codes

2.1 General spares and accessories

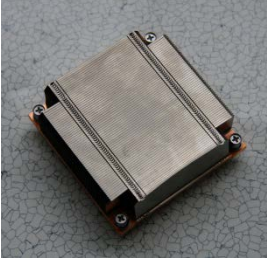| Image	Product Code MM UPC EAN MOQ	Description
*Demo only	AXXRMM4LITE 911660 00735858219297 5032037014946 1	Activation key for advanced management features.
*Demo only	AXXRMM4IOMW 918304 735858243247 5032037037884 1	PCI Express x24 (200 pin) rIOM riser and rIOM carrier board kit for supporting dedicate RMM4 NIC port and containing Intel® I/O module for HNS2600WP compute module family. **Note:** The AXXRMM4LITE is NOT included. It must be ordered separately for advanced management features. Intel® I/O modules MUST have AXXRMM4IOMW pre-installed. The production compute module and chassis configurations do not include AXXRMM4IOMW.
*Demo only	FHW1U16RISER 916729 735858223003 5032037019286 10	1U PCI Express x16 riser card for supporting in-board low-profile PCIe adding card of Slot1 on HNS2600JF and HNS2600WP compute module family
*Demo only	FXX4056DRFAN 918254 735858243469 5032037038102 10	40x56mm Dual Rotor Fan spare
*Demo only	FXX1200PCRPS 915605 735858225137 5032037035071 1	1200W AC Common Redundant Power Supply FXX1200PCRPS 80Plus Platinum-Efficiency

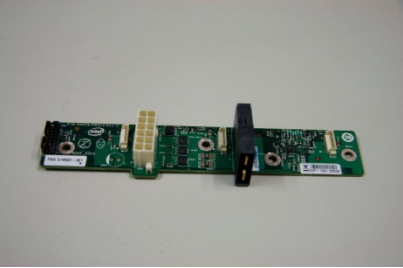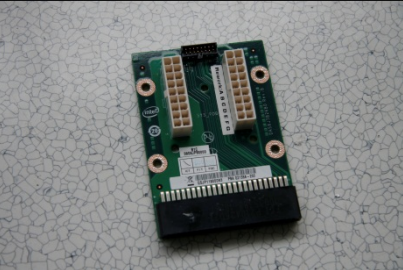| Image	Product Code MM UPC EAN MOQ	Description
*Demo only	FXX1600PCRPS 915606 735858243650 5032037038294 1	1600W AC Common Redundant Power Supply FXX1600PCRPS 80Plus Platinum-Efficiency **Note:** *Available in Q3 '12.*
*Demo only	FXXCA84X106HS 918318 735858236676 5032037031448 2	1U Standard Cu/Al 84mm x 106mm Heatsink (Rear Heatsink)
*Demo only	FXXEA84X106HS 918321 735858236683 5032037031455 2	1U Standard Ex-Al 84mm x 106mm Heatsink (Front Heatsink)
*Demo only	FHW12X35HSBP 920830 735858246729 5032037041188 1	Spare 12 x 3.5'' backplane for H2000 Chassis family
*Demo only	FHW16X25HSBP 920829 735858246736 5032037041195 1	Spare 16 x 2.5'' backplane for H2000 Chassis family

Image	Product Code MM UPC EAN MOQ	Description
*Demo only	FH2000BNF 920831 735858246880 5032037041881 10	Spare Blank Node Filler for H2000 Chassis family
*Demo only	FH2000NPB 920832 735858246743 5032037041201 10	Spare Node Power Board for HNS2600 serial Compute Module family
*Demo only	FHWJFWPBGB 920833 735858246767 5032037041225 10	Spare Bridge Board for HNS2600JF and HNS2600WP Compute Module family
*Demo only	FXXCRPSPDB 921250 735858246750 5032037041218 10	Spare Power Distribution Board for Common Redundant Power Supply 1200W and 1600W of H2000 Chassis
*Demo only	FH2000FPANEL 920835 735858246873 5032037041874 1	Spare front control panel kit for H2000 Chassis family
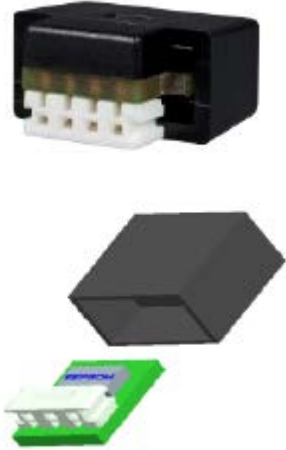
Image	Product Code MM UPC EAN MOQ	Description
 *Demo only	FH2000WPMKIT 919033 735858243643 5032037038287 1	Chassis Maintenance Kit FH2000WPMKIT (for Intel® Server Chassis H2000 family) including (2) Node tray of HNS2600WP family, (2) Airduct of HNS2600WP, Cable kit and Screw kit.
 *Demo only	FXX25HSCAR 918807 735858241182 5032037035910 8	Spare 2.5" HDD hot swap carriers
 *Demo only	FXX35HSADPB 912771 00735858219495 5032037016391 8	Spare 3.5" HDD hot swap carriers
 *Demo only	AXXELVRAIL 920970 00735858244367 5032037038980 1	Value Rail Kit, half extension, extended inner slide member
	FPWRCABLENA 879287 735858181129 5032037015738 1	North American Power Cord Spare

Image	Product Code MM UPC EAN MOQ	Description
*Demo only	A2UBEZEL 918086 735858241137 5032037035880 1	2U locking bezel with two branding clip-on inserts

2.2 Dynamic Key spares and accessories

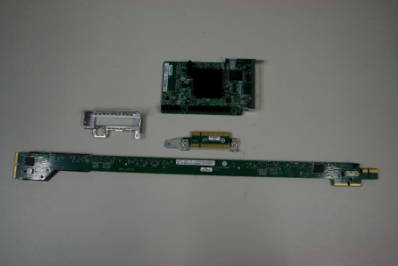| Image	Product Code MM UPC EAN MOQ	Description
  *Demo only	RKSATA4R5 916346 735858238861 5032037033640 5	Intel® RAID C600 Upgrade Key RKSATA4R5, Black
	RKSAS4 916349 735858238892 5032037033671 5	Intel® RAID C600 Upgrade Key RKSAS4, Green
	RKSAS4R5 916350 735858238908 5032037033688 5	Intel® RAID C600 Upgrade Key RKSAS4R5, Yellow

2.3   6Gb/s SAS & HW RAID

Image	Product Code MM UPC EAN MOQ	Description
*Demo only	AHWJFWP6GBGB 922862 735858250047 5032037044622 1	6Gb/s SAS bridge board and cable accessories kit (not cable-free) for HNS2600JF and HNS2600WP Compute Module family **Note:** 6Gb/s SAS module is NOT included. Customer must to order 6Gb/s SAS module RMS25KB040 or RMS25PB040 separately.
*Demo only	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
*Demo only	RMS25PB040 924869(Obsolete 917078) 735858238953 5032037033732 5	Intel$^®$ Integrated RAID Module RMS25PB040, PCIe Slot, LSI2208 ROC, 4P Internal SAS/SATA, LSI MegaRAID-based Firmware, 1GB DDR3, RAID 0,1,10,5,50,6,60 Requires PCIex8 slot
*Demo only	AH2000WP6GKIT 922864 735858250061 5032037044646 1	6Gb/s SAS accessories kit (cable-free) for HNS2600WP Compute Module family **Note**: 6Gb/s SAS module RMS25LB has been included.
*Demo only	FH20006GBGBR 922998 735858250214 5032037044776 1	Spare 6Gb/s SAS bridge board and riser package for AH2000WP6GKIT

Image	Product Code MM UPC EAN MOQ	Description
*Demo only	RMS25LB 922997 735858250085 5032037044660 1	Spare 6Gb/s SAS module for AH2000WP6GKIT. It MUST have AXXRMM4IOMW pre-installed. The default production system and chassis configurations do not include AXXRMM4IOMW.

2.4   Expansion modules: IO Module

IMPORTANT NOTICE:

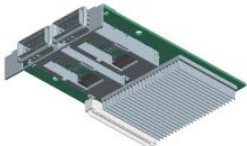All below I/O modules MUST have **AXXRMM4IOMW** (mm# 918304) pre-installed in the system.
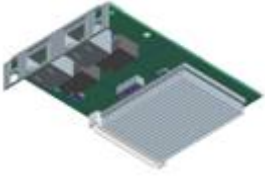
Image	Product Code MM UPC EAN MOQ	Description
	AXX10GBNIAIOM 917905 735858241090 5032037035842 1	Dual SFP+ port 10GbE IO module based on Intel® 82599 10 Gigabit Ethernet Controller. Supports direct connect or transceiver. Cables/transceivers not included. Includes three screws. It must have AXXRMM4IOMW pre-installed. The default production system and chassis configurations do not include AXXRMM4IOMW.
 *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. It must have AXXRMM4IOMW pre-installed. The default production system and chassis configurations do not include AXXRMM4IOMW.
	AXX2FDRIBIOM 920627 735858245722 5032037040235 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 cannot function simultaneously at full speed. Includes three screws. It must have AXXRMM4IOMW pre-installed. The default production system and chassis configurations do not include AXXRMM4IOMW.
	AXX4P1GBPWLIOM 917911 735858241083 5032037035835 1	Quad port 1GbE IO Module based on Intel® Ethernet Controller I350. It must have AXXRMM4IOMW pre-installed. The default production system and chassis configurations do not include AXXRMM4IOMW.

Image	Product Code MM UPC EAN MOQ	Description
	AXX10GBTWLHW 924136 735858254038 5032037047142 1	Dual RJ-45 port 10GBASE-T IO Module based on Intel$^®$ Ethernet Controller X540. Includes three screws. It must have AXXRMM4IOMW pre-installed. The default production system and chassis configurations do not include AXXRMM4IOMW.

2.5   Intel® Manager and Distribution for Apache Hadoop*

Image	Product Code MM MOQ	Description
	HNS2600WPIDH 924828 1	Intel® Manager and Distribution for Apache Hadoop*, 1-year <u>Standard</u> Support Subscription, 4 server node. *** Must be purchased with an H2312XXKR or H2216XXKR chassis and 4 x HNS2600WPXX nodes.*
	HNS2600WPIDH 924906 1	Intel® Manager and Distribution for Apache Hadoop*, 1-year <u>Premium</u> Support Subscription, 4 server node *** Must be purchased with an H2312XXKR or H2216XXKR chassis and 4 x HNS2600WPXX nodes.*
	DSDPS40HR 924929 1	Intel® Manager and Distribution for Apache Hadoop*, 40 hours of Professional Services

2.6   Service: Extended Warranty

Image	Product Code MM MOQ	Description
	SVCEWHWSY 923113 1	Intel® Server System H2000 two years Extended Warranty, Single
	SVCEWDPBD 911294 1	Intel® Server Board S2600WP family two years Extended Warranty, Single