



**Intel® Server Board S2600TP Product Family**  
**Intel® Compute Module HNS2600TP Product Family**  
**Intel® Server Chassis H2000G Product Family**  
**Spares/Accessories List and Configuration Guide**

**A reference guide to assist with ordering parts and accessories available to configure an Intel server system based on the Intel® Server Board S2600TP Product Family.**

Revision 2.21  
April 2016

Intel® Server Boards and Systems

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## Document Revision History

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December 2014	Rev 1.10	Updated the IOM section
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March 2016	Rev 2.20	Added RS25GB008, RS25SB008 and AHWKPTP12GBGBIT Added support for Intel® Xeon® processor E5-2600 v4 product family Added support for 2400 MT/s RDIMMs and LRDIMMs Fixed reference links Corrected text format and List of Tables content/ordering Corrected chassis, boards and systems weights/images Removed RS3GC008
April 2016	Rev 2.21	Added Chassis H2224XXLR2 Added PSU spare FXX2130PCRPS

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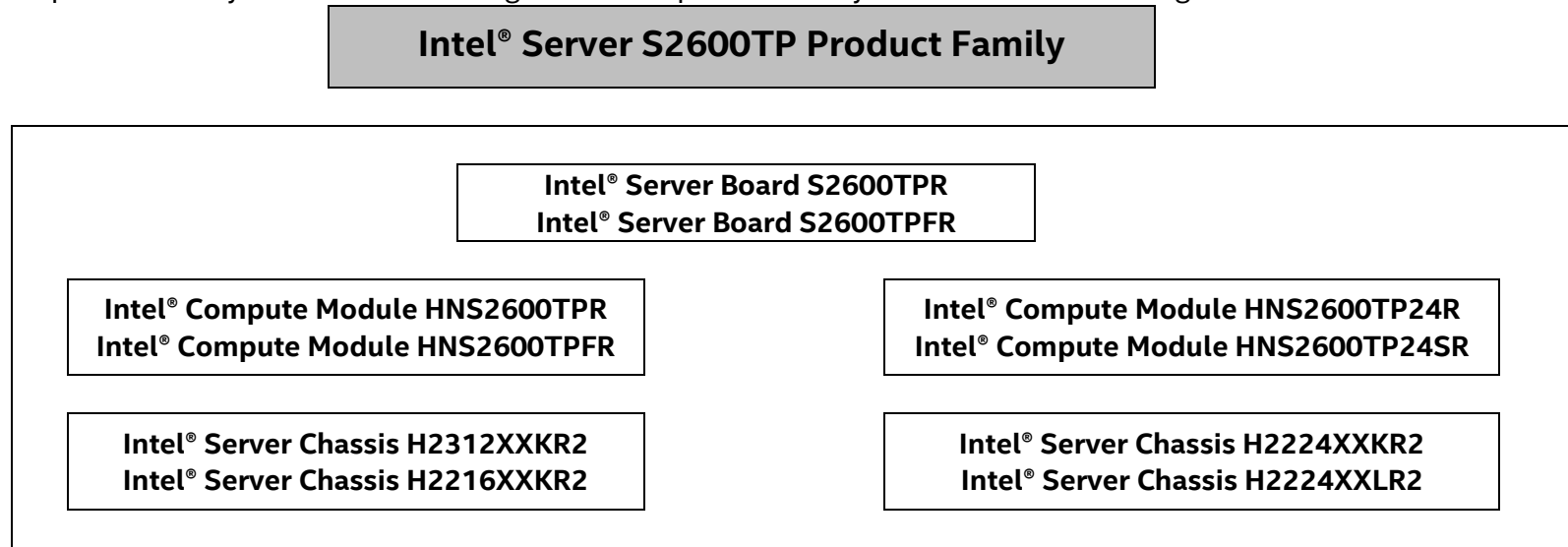




# 1. Intel® Server Family Overview

This document is provided to assist Intel customers with identifying the right Intel® server system and available accessories, enabling them to create a unique server platform that meets their unique server requirements.

The Intel® S2600TP product family is offered as building block. The product family consists of the following:



Server Building Blocks:

- **Intel® Server Board S2600TP** – Server Board only (Building block option and spare FRU)
- **Intel® Compute Module HNS2000TP product family** – Compute Module integrated with an Intel® Server Board S2600TP
- **Intel® Server Chassis H2000G product family** – 2U Rack Mount Server Chassis

The Intel® S2600TP product family supports the following processors and memory:

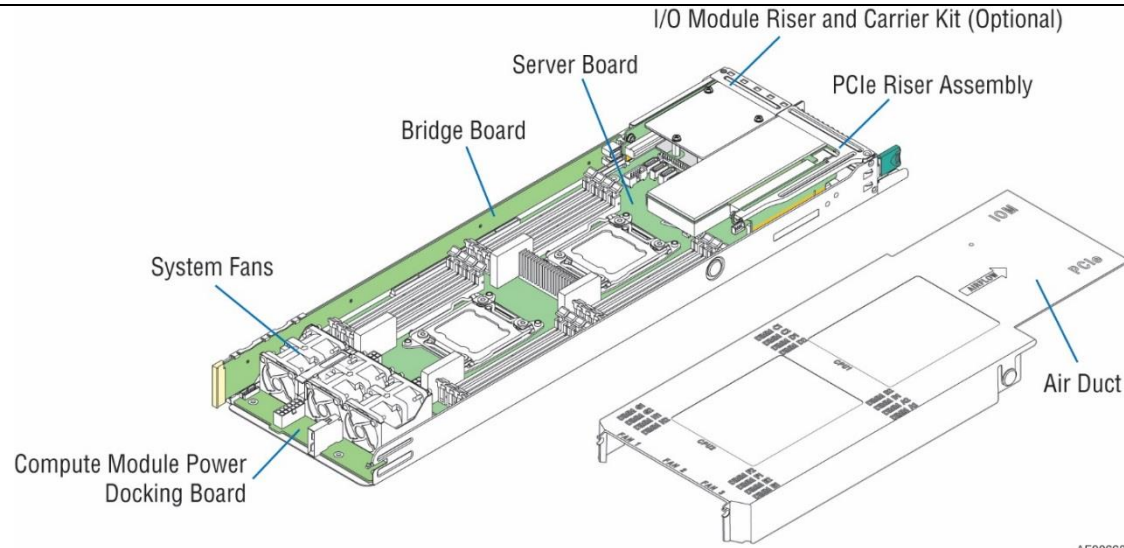
- Intel® Xeon® processor E5-2600 v3 product family
  - **NOTE: Previous generations of Intel® Xeon® processors are not supported.**
- Intel® Xeon® processor E5-2600 v4 product family
  - **NOTE: Previous generations of Intel® Xeon® processors are not supported**
- DDR4 ECC RDIMM/LRDIMM 1600, 1866, 2133, 2400 MT/s
  - **NOTE: 2400 MT/s is only supported on Intel® Xeon® processor E5-2600 v4 product family**

## Additional Information and Software

For additional information about this family of products or any of their supported accessories, refer to the following resources available at <http://www.intel.com/support>.

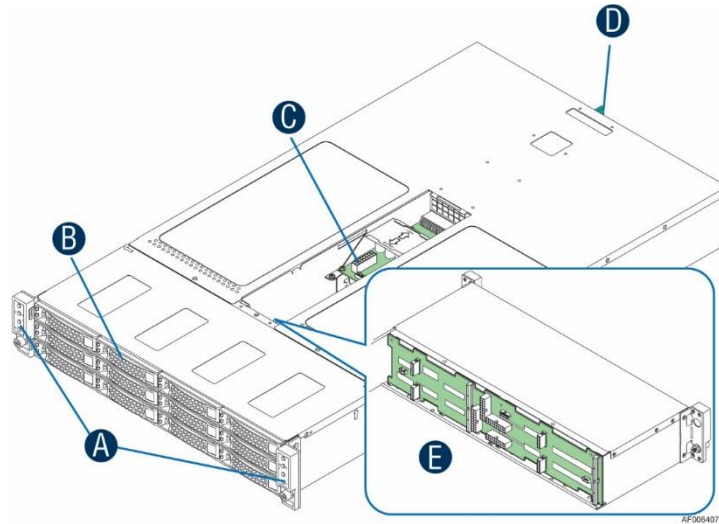
**Table 1. Product Family Reference Collaterals**

For this information or software	Use this Document or Software
For in-depth technical information about this product family	Intel® Server Board S2600TP Technical Product Specification Intel® Server System H2000G Product Family Technical Product Specification Intel® Remote Management Module 4 (Intel® RMM4) and Integrated BMC User Guide Intel® Remote Management Module 4 Technical Product Specification Intel® I/O Expansion Modules Hardware Specification Intel® Server System BIOS Setup Utility Guide Intel® Server Platform Firmware Specification Update Product Safety and Regulatory Compliance - Intel® Xeon® Processor E5-2600 v3 <a href="http://www.intel.com/p/en_US/support/highlights/server/s2600tp">http://www.intel.com/p/en_US/support/highlights/server/s2600tp</a>
For system integration instructions and service guidance	Intel® Server System H2000TP product family System Integration and Service Guide <a href="http://www.intel.com/content/www/us/en/support/boards-and-kits/000008148.html">http://www.intel.com/content/www/us/en/support/boards-and-kits/000008148.html</a>
For server configuration guidance and compatibility	Intel® Server Configurator Tool <a href="http://serverconfigurator.intel.com/">http://serverconfigurator.intel.com/</a>
For system power budget guidance	Intel® Server Board S2600TP Product Family Power Budget Tool <a href="https://downloadcenter.intel.com/download/24525/S2600TP-Power-budget-and-thermal-configuration-tool">https://downloadcenter.intel.com/download/24525/S2600TP-Power-budget-and-thermal-configuration-tool</a>
For system firmware updates, onboard device drivers, and software to manage your Intel® Server System.	<a href="https://downloadcenter.intel.com/product/78565/Intel-Server-Board-S2600TP-Family">https://downloadcenter.intel.com/product/78565/Intel-Server-Board-S2600TP-Family</a>
For a complete list of supported processors, memory, add-in cards, and peripherals:	<a href="http://www.intel.com/p/en_US/support/highlights/server/s2600tp">http://www.intel.com/p/en_US/support/highlights/server/s2600tp</a>



AF006689

**Figure 1. Intel® Compute Module HNS2600TPR Feature Set Identification**



AF006407

Label	Description
A	Front control panel
B	Drive bays
C	Power distribution module
D	Power supply modules
E	Hot-swap backplane (attached to the drive cage)

**Figure 2. Intel® Server Chassis H2000G Feature Set Identification**

## 1.1 Product Family Summary Chart

The Intel® S2600TP product family is built around either of two Intel® Server Board options: BBS2600TP and BBS2600TPF. The feature set of each server board option is identical except for the integrated InfiniBand\*.

The **S2600TPR** SKU does not offer an integrated InfiniBand\*.

The **S2600TPFR** SKU offers an integrated InfiniBand\*.

The following tables provides an overview of available Intel product codes for building blocks within the Intel® S2600TP product family. Each line item identifies key features supported in the shipping Intel SKU. Additional order code information and full product descriptions for each option are provided in later sections.

**Table 2. Server Board Product Family Summary**

Intel Product Code	# of CPU sockets	# of DIMM Slots	# of Riser Slots	Onboard RJ45 LAN ports (1 Gb)	# of SATA ports (6 Gb/s)	Integrated InfiniBand*	Intel® I/O Module support
<b>Server Board only</b>							
BBS2600TPR	2	16	4	2	4	NA	Yes
BBS2600TPFR	2	16	4	2	4	Yes (FDR 56Gb/s)	Yes

**Table 3. Compute Module Product Family Summary**

Intel Product Code	Server Board	Form Factor	# of Heat Sinks	# of Fans	# of Riser Slots	Intel® I/O Module	Bridge Board	Air Duct
HNS2600TPR	Yes (BBS2600TPR)	1U	2	3	3 <sup>1</sup>	Opt	6G/s	Yes
HNS2600TPFR	Yes (BBS2600TPFR)	1U	2	3	3 <sup>1</sup>	Opt	6G/s	Yes
HNS2600TP24R	Yes (BBS2600TPR)	1U	2	3	3 <sup>1</sup>	2 x 10GbE RJ45	12G/s	Yes
HNS2600TP24SR	Yes (BBS2600TPR)	1U	2	3	3 <sup>1</sup>	2 x 10GbE SFP+	12G/s	Yes

**Table NOTE:**

1 – One riser card with bracket in riser slot1 to support one PCIe\* 3.0x16 low profile card. One I/O module riser and carrier kit in riser slot 2 to support an Intel® I/O Expansion Module (optional). Riser slot 3 cannot be used with bridge board installed.

**Table 4. Server Chassis & Server System Product Family Summary**

Intel Product Code	Chassis Form Factor	Drive Form Factor	# of Drives (front)	Power Supply Modules	Rails
<b>Chassis Only (KDK)</b>					
<b>H2312XXKR2</b>	2U	3.5"	12	2x1600W AC	Opt
<b>H2216XXKR2</b>	2U	2.5"	16	2x1600W AC	Opt
<b>H2224XXKR2</b>	2U	2.5"	24	2x1600W AC	Opt
<b>H2224XXLR2</b>	2U	2.5"	24	2x2130W AC	Opt

Terms used in the tables:

**NA** – Not Applicable

**Opt** – Accessory option sold separately

**Yes** – Option included

**KDK** – Knock Down Kit – Intel term for chassis only product

## 2. Server Building Block Configuration

Server building blocks are offered to give Intel customers the option to configure and assemble a unique server system from the bare chassis up. Each building block component and optional accessory is purchased separately. At a minimum, building up a functional server system using building blocks will require the following:

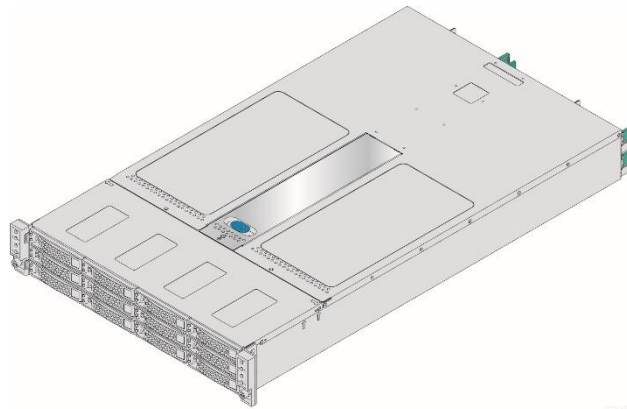
- Intel® Server Chassis H2000G
- Intel® Compute Module HNS2600TPR: see Table 5 for compatibility.
- Power cord(s)  
**NOTE:** Chassis shipped to the US & Canada will contain North American power cords.
- Processor
- Memory
- Storage Drives

Optional Intel accessories that can be added include the following: See chapter 3 for available options.

- Riser cards options
- SAS / SAS RAID support – PCIe\* add-in card or module + Appropriate SAS Data cable(s)
- Intel® I/O Module
- Intel® Remote Management Module 4 Lite



Intel® Compute Module HNS2600TPR



Intel® Server Chassis H2000G  
H2312XXKR2



Intel® Server Board S2600TPR



The following table is used to identify the building block options required to assemble a server system.

**Table 5. Compatibility Matrix**

	<b>Intel® Chassis Product Code (iPC)</b>	<b>Intel® Server Board Product Code</b>	<b>Intel® Compute Module Product Code</b>	<b>Intel® Bridge Board Product Code</b>
12/16 drives solutions	H2312XXKR2 H2216XXKR2	BBS2600TPR	HNS2600TPR	FHWKTPBGB
		BBS2600TPFR	HNS2600TPFR	Optional: AHWKPTP12GBGB AHWKPTP12GBGBR5
24 drives solutions	H2224XXKR2 H2224XXLR2	BBS2600TPR	HNS2600TP24R HNS2600TP24SR	FHWKTPBGB24

## 2.1 Intel® Server Board S2600TP Product Family SKUs



Table 6. Intel® Server Board S2600TP Product Family SKUs



Intel Product Code (iPC)	Order Information	Product Description	Product Type
<p>iPC – <b>BBS2600TPR</b></p> 	<p>MM# - 943944            UPC - 00735858308922            EAN - 5032037081689            MOQ - 10</p> <p>Packaged Gross Weight  <b>20.7 Kgs, 45.635 Lbs</b></p> <p>Un-packaged Net Weight  <b>15.2 Kgs, 33.51 Lbs</b></p>	<p><b>Intel® Server Board BBS2600TPR</b></p> <ul style="list-style-type: none"> <li>• 6.8"W x 18.9"L</li> <li>• Support for dual Intel® Xeon E5-2600 v3/v4 processor family</li> <li>• 16 DDR4 DIMM Slots</li> <li>• 4 x 6Gb/s SATA ports from secondary AHCI controller and 1 x SATA DOM port</li> <li>• 2 Integrated 1Gb ports (Intel® Ethernet Controller I350)</li> <li>• 2 PCIe* 3.0 x24 capable slots and 2 PCIe* 3.0 x16 capable slot (not PCI-SIG* compatible)</li> <li>• Integrated Baseboard Management controller with IPMI 2.0 support</li> <li>• Optional advanced management features activated by AXXRMM4LITE key</li> <li>• Dedicated 1Gb management port onboard</li> <li>• Support for Intel® I/O expansion module option</li> <li>• Support for Intel® SAS module option</li> </ul> <p><b>Box includes:</b> one server board</p> <p><b>NOTE:</b> All necessary mounting hardware, cabling, and shielding will ship with the Intel chassis and optional accessory kits.</p>	<p><b>Server Board only</b></p> <ul style="list-style-type: none"> <li>• Building block option</li> <li>• Spare FRU</li> </ul>
<p>iPC – <b>BBS2600TPFR</b></p> 	<p>MM# - 943947            UPC - 00735858308939            EAN - 5032037081696            MOQ - 10</p> <p>Packaged Gross Weight  <b>21.4 Kgs, 47.178 Lbs</b></p> <p>Un-packaged Net Weight  <b>15.9 Kgs, 35.053 Lbs</b></p>	<p><b>Intel® Server Board BBS2600TPFR</b></p> <ul style="list-style-type: none"> <li>• 6.8"W x 18.9"L</li> <li>• Support for dual Intel® Xeon E5-2600 v3/v4 processor family</li> <li>• 16 DDR4 DIMM Slots</li> <li>• 4 x 6Gb/s SATA ports from secondary AHCI controller and 1 x SATA DOM port</li> <li>• 2 Integrated 1Gb ports (Intel® Ethernet Controller X-540)</li> <li>• 2 PCIe* 3.0 x24 capable slots and 2 PCIe* 3.0 x16 capable slot (not PCI-SIG* compatible)</li> <li>• Integrated Baseboard Management controller with IPMI 2.0 support</li> <li>• Optional advanced management features activated by AXXRMM4LITE key</li> <li>• Dedicated 1Gb management port</li> <li>• Support for Intel® I/O expansion module option</li> <li>• Support for Intel® SAS module option</li> <li>• <b>Single InfiniBand* FDR IB port (Connect-IB* x8, QSFP+)</b></li> </ul> <p><b>Box includes:</b> one server board</p> <p><b>NOTE:</b> All necessary mounting hardware, cabling, and shielding will ship with the Intel chassis and optional accessory kits.</p>	<p><b>Server Board Only</b></p> <ul style="list-style-type: none"> <li>• Building block option</li> <li>• Spare FRU</li> </ul>



## 2.2 Intel® Compute Module HNS2000TP Product Family SKUs

Table 7. Intel® Server Compute Module HNS2600TP Product Family SKUs

Intel Product Code (iPC)	Order Information	Product Description	Product Type
<p><b>iPC - HNS2600TPR</b></p> 	<p>MM# - 943948            UPC - 00735858309295            EAN - 5032037081887            MOQ - 1</p> <p>Packaged Gross Weight  <b>4.78 Kgs, 10.538 Lbs</b></p> <p>Un-packaged Net Weight  <b>3.56 Kgs, 7.848 Lbs</b></p>	<p><b><u>Intel® Compute Module HNS2600TPR</u></b></p> <p>(1) – Intel® Server Board S2600TPR            (1) – Node Power Board – iPC FH2000NPB2            (1) – 6Gb/s Bridge Board – iPC FHWTPBGB            (1) – Slot1 riser card – iPC FHW1U16RISER2            (3) – 40x56mm dual rotor fans FXX4056DRFAN2            (1) - 1U passive heat sinks</p> <ul style="list-style-type: none"> <li>• (1) Front heat sink - iPC FXXEA84X106HS</li> <li>• (1) Rear heat sink - iPC FXXC84X106HS</li> </ul> <p>(1) – Air duct            (1) - 1U node tray</p> <p><b>NOTE:</b> Compatible with chassis H2312XXKR2, H2216XXKR2 only</p>	<p><b>Server Board only</b></p> <ul style="list-style-type: none"> <li>• Building block option</li> <li>• Spare FRU</li> </ul>
<p><b>iPC - HNS2600TPFR</b></p> 	<p>MM# - 943949            UPC - 00735858309301            EAN - 5032037081894            MOQ - 1</p> <p>Packaged Gross Weight  <b>4.83 Kgs, 10.648 Lbs</b></p> <p>Un-packaged Net Weight  <b>3.63 Kgs, 8.002 Lbs</b></p>	<p><b><u>Intel® Compute Module HNS2600TPFR</u></b></p> <p>(1) – Intel® Server Board S2600TPFR included            (1) – Node Power Board – iPC FH2000NPB2            (1) – 6Gb/s Bridge Board – iPC FHWTPBGB            (1) – Slot1 riser card – iPC FHW1U16RISER2            (3) – 40x56mm dual rotor fans FXX4056DRFAN2            (1) - 1U passive heat sinks</p> <ul style="list-style-type: none"> <li>• (1) Front heat sink - iPC FXXEA84X106HS</li> <li>• (1) Rear heat sink - iPC FXXC84X106HS</li> </ul> <p>(1) – Air duct            (1) - 1U node tray</p> <p><b>NOTE:</b> Compatible with chassis H2312XXKR2 and H2216XXKR2 only</p>	<p><b>Server Board Only</b></p> <ul style="list-style-type: none"> <li>• Building block option</li> <li>• Spare FRU</li> </ul>

<p><b>iPC - HNS2600P24R</b></p> 	<p>MM# - 943951  UPC - 00735858310178  EAN - 5032037082624  MOQ - 1</p> <p>Packaged Gross Weight  <b>4.78 Kgs, 10.538 Lbs</b></p> <p>Un-packaged Net Weight  <b>3.56 Kgs, 7.848 Lbs</b></p>	<p><b><u>Intel® Compute Module HNS2600TP24R</u></b></p> <p>(1) – Intel® Server Board S2600TPR  (1) – Node Power Board – iPC FH2000NPB24  (1) – 12Gb/s Bridge Board – iPC FHWKTPBGB24  (1) – Slot1 riser card – iPC FHW1U16RISER2  (3) – 40x56mm dual rotor fans FXX4056DRFAN2  (1) - 1U passive heat sinks</p> <ul style="list-style-type: none"> <li>• (1) Front heat sink - iPC FXXEA84X106HS</li> <li>• (1) Rear heat sink - iPC FXXC84X106HS</li> </ul> <p>(1) – Dual RJ-45 port 10GBASE-T I/O module - iPC AXX10GBTWLHW3  (1) - PCI Express* x16 (200 pin) rIOM riser and rIOM carrier board kit -iPC AXXKPTPM2IOM  (1) – Air duct  (1) - 1U node tray</p> <p><b>NOTE:</b> Compatible with chassis H2224XXKR2 only</p>	<p><b>Server Board Only</b></p> <ul style="list-style-type: none"> <li>• Building block option</li> <li>• Spare FRU</li> </ul>
<p><b>iPC - HNS2600TP24SR</b></p> 	<p>MM# - 945609  UPC - 00735858310185  EAN - 5032037082631  MOQ - 1</p> <p>Packaged Gross Weight  <b>5.28 Kgs, 11.640 Lbs</b></p> <p>Un-packaged Net Weight  <b>4.06 Kgs, 8.95 Lbs</b></p>	<p><b><u>Intel® Compute Module HNS2600TP24SR</u></b></p> <p>(1) – Intel® Server Board S2600TPR  (1) – Node Power Board – iPC FH2000NPB24  (1) – 12Gb/s Bridge Board – iPC FHWKTPBGB24  (1) – Slot1 riser card – iPC FHW1U16RISER2  (3) – 40x56mm dual rotor fans FXX4056DRFAN2  (1) - 1U passive heat sinks</p> <ul style="list-style-type: none"> <li>• (1) Front heat sink - iPC FXXEA84X106HS</li> <li>• (1) Rear heat sink - iPC FXXC84X106HS</li> </ul> <p>(1) – Dual SPF+ port 10GBASE-T I/O module - iPC AXX10GBNIAIOM  (1) - PCI Express* x16 (200 pin) rIOM riser and rIOM carrier board kit -iPC AXXKPTPM2IOM  (1) – Air duct  (1) - 1U node tray</p> <p><b>NOTE:</b> Compatible with chassis H2224XXKR2 only</p>	<p><b>Server Board Only</b></p> <ul style="list-style-type: none"> <li>• Building block option</li> <li>• Spare FRU</li> </ul>

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## 2.3 Intel® Chassis H2000G Product Family SKUs

The product tables found in this section provide order code information and detailed descriptions for each available Intel server chassis building block option. The lower sections of each table identify:


- The ship along components of the specified chassis product code – (product BOM)
- **Required Items** – Hardware required to be installed to the base system to achieve basic functionality using the default system feature set
- **Optional Accessories** – Some of the available accessories which can be installed to enhance the basic feature set of the server board / chassis. Additional accessories can be found in Chapter 4.


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### NOTES:

- Each **required item** and **optional accessory** is sold separately from the specified Intel server building block.
  - Items identified as **iPC** (Intel Product Code), are an orderable building block option, accessory or spare FRU.
  - In an effort to provide the complete product bill of materials, the ship along components list in each product table will include items identified by description and by **iPN** (Intel Part Number). The iPN information is provided for reference only. These components are **not** orderable as a spare or accessory.
-


**Table 8. Intel® Server Chassis H2000G Product Family SKUs**

<p><b>Intel Product Code (iPC):</b></p> <p style="text-align: center;"><b>iPC - H2312XXKR2</b></p> 	<p><b>Order Code Information:</b></p> <p>MM# - 933689          UPC - 00735858288347          EAN - 5032037067669          MOQ - 1</p>	<p>Product Type: <b>Chassis Only</b>          Chassis Form Factor: <b>2U rack mount</b>          Chassis dimensions: <b>L=771mm, W=438mm, H=86.9mm</b>          Packaged Gross Weight: <b>28.32 Kgs, 62.434 Lbs</b>          Un-packaged Net Weight: <b>19.97 Kgs, 44.026 Lbs</b>          Outer Box Dimensions: <b>L=983mm, W=577mm, H=266mm</b></p>
<p><b>Product Definition and Configuration Requirements</b></p>		
<p>Intel product code <b>H2312XXR2</b> includes the following components:</p> <p>(1) – 2U Chassis with Quick Reference Label affixed to top cover</p> <p>(1) - Pre-installed Standard Control Panel assembly (board only) – iPC <b>FH2000FPANEL2</b></p> <p>(1) - Power Distribution Board – iPC <b>FXXCRPSPDB2</b></p> <p>(2) - 1600W 80 PLUS Platinum PSUs – iPC <b>FXX1600PCRPS</b></p> <p>(4) – 3.5” Hot-swap drive bays with drive carriers and drive blanks, includes:</p> <ul style="list-style-type: none"> <li>• (1) 12 Gb SAS backplane – iPC <b>FHW12X35HS12G</b></li> <li>• (12) 3.5” hot swap drive carriers – iPC <b>FXX35HSCAR</b></li> </ul> <p>(4) - Blank node fillers</p> <p>(1) – Basic rack rail – iPC <b>AXXELVRAIL</b></p> <p><b>NOTE:</b> The rail kit only supports specific rack type with 3/8” square and 7.1mm round holes</p> <p>(1) – Power Supply Bay blank insert</p> <p>(8) – DIMM slot blanks – iPN H43597-00x</p> <p>(2) – Chassis handles (1 set) installed – iPN H19171-00x</p> <p>(2) – AC Power Cord retention strap assembly – iPN H23961-00x</p> <p>Server board and riser card mounting screws          Spares for each screw type included</p>	<p><b>Required Items – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>• Intel® Compute Module HNS2600TPR (choose one)             <ul style="list-style-type: none"> <li>○ iPC <b>HNS2600TPR</b> – without an integrated InfiniBand*</li> <li>○ iPC <b>HNS2600TPFR</b> – with an integrated InfiniBand*</li> </ul> </li> <li>• Power Cord(s) – See Chapter 4.6</li> </ul> <p><b>NOTE:</b> Chassis shipped to the US &amp; Canada will contain North American power cords</p> <ul style="list-style-type: none"> <li>• 1 or 2 Intel® Xeon® Processor E5-2600 v4 product family</li> <li>• ECC DDR4 memory (RDIMM or LRDIMM)</li> </ul>	<p><b>Optional Intel Accessories – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>• Intel® I/O Module – See Chapter 4.4 for options</li> <li>• Intel® SAS RAID Card / Module – See Section 4.5 for options</li> <li>• iPC <b>A2UBEZEL</b> – Lockable front system bezel</li> <li>• iPC <b>AXXRMM4LITE</b> – Intel® Remote Management Module Lite key. For advanced management features</li> <li>• Storage Drives</li> </ul> <p>See Chapter 3 for all available accessory options.</p>

<p><b>Intel Product Code (iPC):</b></p> <p><b>iPC - H2216XXKR2</b></p> 	<p><b>Order Code Information:</b></p> <p>MM# - 933688  UPC - 00735858288354  EAN - 5032037067676  MOQ - 1</p>	<p>Product Type: <b>Chassis Only</b></p> <p>Chassis Form Factor: <b>2U rack mount</b></p> <p>Chassis dimensions: <b>L=733mm, W=438mm, H=86.9mm</b></p> <p>Packaged Gross Weight: <b>29.12 Kgs, 64.198 Lbs</b></p> <p>Un-packaged Net Weight: <b>19.54 Kgs, 43.078 Lbs</b></p> <p>Outer Box Dimensions: <b>L=983mm, W=577mm, H=266mm</b></p>
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**Product Definition and Configuration Requirements**

<p>Intel product code <b>H2216XXKR2</b> includes the following components:</p> <p>(1) – 2U Chassis with Quick Reference Label affixed to top cover</p> <p>(1) - Pre-installed Standard Control Panel assembly (board only) – iPC <b>FH2000FPANEL2</b></p> <p>(1) - Power Distribution Board – iPC <b>FXXCRPSPDB2</b></p> <p>(2) - 1600W 80 PLUS Platinum PSUs – iPC <b>FXX1600PCRPS</b></p> <p>(4) – 2.5" Hot-swap drive bays with drive carriers and drive blanks, includes:</p> <ul style="list-style-type: none"> <li>(1) 12 Gb SAS backplane – iPC <b>FHW16X25HS12G</b></li> <li>(16) 2.5" hot swap drive carriers – iPC <b>FXX25HSCAR</b></li> </ul> <p>(4) - Blank node fillers</p> <p>(1) – Basic rack rail – iPC <b>AXXELVRAIL</b></p> <p><b>NOTE:</b> The rail kit only supports specific rack type with 3/8" square and 7.1mm round holes</p> <p>(1) – Power Supply Bay blank insert</p> <p>(8) – DIMM slot blanks – iPN H43597-00x</p> <p>(2) – Chassis handles (1 set) installed – iPN H19171-00x</p> <p>(2) – AC Power Cord retention strap assembly – iPN H23961-00x</p> <p>Server board and riser card mounting screws</p> <p>Spares for each screw type included</p>	<p><b>Required Items – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>Intel® Compute Module HNS2600TPR (choose one) <ul style="list-style-type: none"> <li>iPC <b>HNS2600TPR</b> – without an integrated InfiniBand*</li> <li>iPC <b>HNS2600TPFR</b> – with an integrated InfiniBand*</li> </ul> </li> <li>Power Cord(s) – See Chapter 4.6. <b>NOTE:</b> Chassis shipped to the US &amp; Canada will contain North American power cords</li> <li>1 or 2 Intel® Xeon® Processor E5-2600 v4 product family</li> <li>ECC DDR4 memory (RDIMM or LRDIMM)</li> </ul>	<p><b>Optional Intel Accessories – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>Intel® I/O Module – See Chapter 4.4 for options</li> <li>Intel® SAS RAID Card / Module – See Section 4.5 for options</li> <li>iPC <b>A2UBEZEL</b> – Lockable front system bezel</li> <li>iPC <b>AXXRMM4LITE</b> – Intel® Remote Management Module Lite key. For advanced management features</li> <li>Storage Drives</li> </ul> <p>See Chapter 3 for all available accessory options.</p>
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<p><b>Intel Product Code (iPC):</b></p> <p><b>iPC - H2224XXKR2</b></p> 	<p><b>Order Code Information:</b></p> <p>MM# - 943478  UPC - 00735858302630  EAN - 5032037077422  MOQ - 1</p>	<p>Product Type: <b>Chassis Only</b></p> <p>Chassis Form Factor: <b>2U rack mount</b></p> <p>Chassis dimensions: <b>L=733mm, W=438mm, H=86.9mm</b></p> <p>Packaged Gross Weight: <b>28.86 Kgs, 63.625 Lbs</b></p> <p>Un-packaged Net Weight: <b>20.64 Kgs, 45.503 Lbs</b></p> <p>Outer Box Dimensions: <b>L=983mm, W=577mm, H=266mm</b></p>
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**Product Definition and Configuration Requirements**

<p>Intel product code <b>H2224XXKR2</b> includes the following components:</p> <p>(1) – 2U Chassis with Quick Reference Label affixed to top cover</p> <p>(1) - Pre-installed Standard Control Panel assembly (board only) – iPC <b>FH2000FPANEL2</b></p> <p>(1) - Power Distribution Board – iPC <b>FXXCRPSPDB2</b></p> <p>(1) – Power Interposer Board – iPC <b>FXXCRPSPIB</b></p> <p>(2) - 1600W 80 PLUS Platinum PSUs – iPC <b>FXX1600PCRPS</b></p> <p>(4) – 2.5” Hot-swap drive bays with drive carriers and drive blanks, includes:</p> <ul style="list-style-type: none"> <li>(1) 12 Gb SAS backplane – iPC <b>FHW24X25HS12G</b></li> <li>(24) 2.5” hot swap drive carriers – iPC <b>FXX25HSCAR2</b></li> </ul> <p>(4) - Blank node fillers</p> <p>(1) – Basic rack rail – iPC <b>AXXELVRAIL</b></p> <p><b>NOTE:</b> The rail kit only supports specific rack type with 3/8” square and 7.1mm round holes</p> <p>(1) – Power Supply Bay blank insert</p> <p>(8) – DIMM slot blanks – iPN H43597-00x</p> <p>(2) – Chassis handles (1 set) installed – iPN H19171-00x</p> <p>(2) – AC Power Cord retention strap assembly – iPN H23961-00x</p> <p>Server board and riser card mounting screws</p> <p>Spares for each screw type included</p>	<p><b>Required Items – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>Intel® Compute Module HNS2600TPR (choose one) <ul style="list-style-type: none"> <li>iPC <b>HNS2600TP24R</b> – with Dual Port Intel® X540 10GbE I/O Module (RJ45)</li> <li>iPC <b>HNS2600TP24SR</b> –with Dual Port Intel® 82599 10GbE I/O Module (SPF+)</li> </ul> </li> <li>Power Cord(s) – See Chapter 4.6. <b>NOTE:</b> Chassis shipped to the US &amp; Canada will contain North American power cords</li> <li>1 or 2 Intel® Xeon® Processor E5-2600 v4 product family</li> <li>ECC DDR4 memory (RDIMM or LRDIMM)</li> </ul>	<p><b>Optional Intel Accessories – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>Intel® I/O Module – See Chapter 4.4 for options</li> <li>Intel® SAS RAID Card / Module – See Section 4.5 for options</li> <li>iPC <b>A2UBEZEL</b> – Lockable front system bezel</li> <li>iPC <b>AXXRMM4LITE</b> – Intel® Remote Management Module Lite key. For advanced management features</li> <li>Storage Drives</li> </ul> <p>See Chapter 3 for all available accessory options.</p>
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<p><b>Intel Product Code (iPC):</b></p> <p><b>iPC - H2224XXLR2</b></p> 	<p><b>Order Code Information:</b></p> <p>MM# - 943577  UPC - 00735858309004  EAN - 5032037081757  MOQ - 1</p>	<p>Product Type: <b>Chassis Only</b></p> <p>Chassis Form Factor: <b>2U rack mount</b></p> <p>Chassis dimensions: <b>L=733mm, W=438mm, H=86.9mm</b></p> <p>Packaged Gross Weight: <b>28.86 Kgs, 63.625 Lbs</b></p> <p>Un-packaged Net Weight: <b>20.64 Kgs, 45.503 Lbs</b></p> <p>Outer Box Dimensions: <b>L=983mm, W=577mm, H=266mm</b></p>
<p><b>Product Definition and Configuration Requirements</b></p>		
<p>Intel product code <b>H2224XXLR2</b> includes the following components:</p> <p>(1) – 2U Chassis with Quick Reference Label affixed to top cover</p> <p>(1) - Pre-installed Standard Control Panel assembly (board only) – iPC <b>FH2000FPANEL2</b></p> <p>(1) - Power Distribution Board – iPC <b>FXXCRPSPDB2</b></p> <p>(1) – Power Interposer Board – iPC <b>FXXCRPSPIB</b></p> <p>(2) - 2130W 80 PLUS Platinum PSUs – iPC <b>FXX2130PCRPS</b></p> <p>(4) – 2.5" Hot-swap drive bays with drive carriers and drive blanks, includes:</p> <ul style="list-style-type: none"> <li>• (1) 12 Gb SAS backplane – iPC s</li> <li>• (24) 2.5" hot swap drive carriers – iPC <b>FXX25HSCAR2</b></li> </ul> <p>(4) - Blank node fillers</p> <p>(1) – Basic rack rail – iPC <b>AXXELVRAIL</b></p> <p><b>NOTE:</b> The rail kit only supports specific rack type with 3/8" square and 7.1mm round holes</p> <p>(1) – Power Supply Bay blank insert</p> <p>(8) – DIMM slot blanks – iPN H43597-00x</p> <p>(2) – Chassis handles (1 set) installed – iPN H19171-00x</p> <p>(2) – AC Power Cord retention strap assembly – iPN H23961-00x</p> <p>Server board and riser card mounting screws</p> <p>Spares for each screw type included</p>	<p><b>Required Items – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>• Intel® Compute Module HNS2600TPR (choose one) <ul style="list-style-type: none"> <li>○ iPC <b>HNS2600TP24R</b> – with Dual Port Intel® X540 10GbE I/O Module (RJ45)</li> <li>○ iPC <b>HNS2600TP24SR</b> –with Dual Port Intel® 82599 10GbE I/O Module (SPF+)</li> </ul> </li> <li>• Power Cord(s) – See Chapter 4.6. <b>NOTE:</b> Chassis shipped to the US &amp; Canada will contain North American power cords</li> <li>• 1 or 2 Intel® Xeon® Processor E5-2600 v4 product family ECC DDR4 memory (RDIMM or LRDIMM)</li> </ul>	<p><b>Optional Intel Accessories – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>• Intel® I/O Module – See Chapter 4.4 for options</li> <li>• Intel® SAS RAID Card / Module – See Section 4.5 for options</li> <li>• iPC <b>A2UBEZEL</b> – Lockable front system bezel</li> <li>• iPC <b>AXXRMM4LITE</b> – Intel® Remote Management Module Lite key. For advanced management features</li> <li>• Storage Drives</li> </ul> <p>See Chapter 3 for all available accessory options.</p>


### 3. Intel Server System Configuration Options

The following sections identify available accessory kits supported within the Intel® S2600TP product family.

#### 3.1 Locking Front Bezel Accessory Kit

The Front Bezel is made of back molede plastic and uses a snap-on design. When installed, its design allows for maximum airflow to maintain system cooling requirements. The front bezel includes a keyd locking mechanism which can be used to prevent unauthorized access to installed storage devices and front I/O ports.

Table 9. List of Front Bezel Accessory Kit

Intel Product Code	Order Information	Product Description	Product Type
<b>iPC - A2UBEZEL</b> 	MM# - 918086 UPC - 00735858241137 EAN - 5032037035880 MOQ - 1	<b>2U Bezel A2UBEZEL</b> 2U locking bezel with two branding clip-on inserts	<ul style="list-style-type: none"><li>Accessory kit</li></ul>

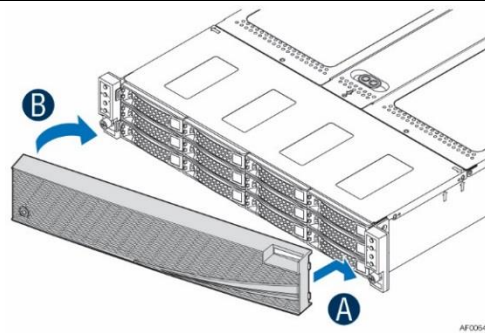


Figure 3. Installing the Front Bezel to the Chassis

The face of the bezel assembly includes snap-in identification badge options and a wave feature option to allow for customize.

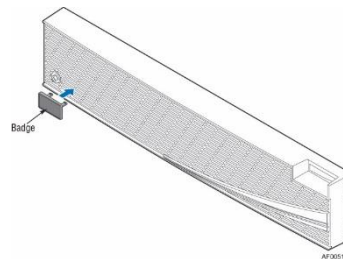
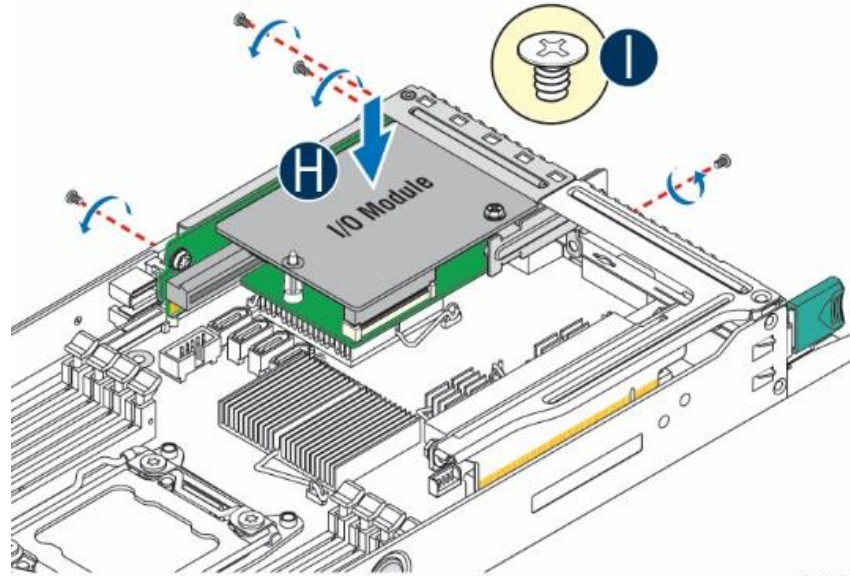


Figure 4. Installing the Snap-on to the Front Bezel



## 3.2 Intel® I/O Expansion Modules

The Intel® S2600TP product family includes supports for a number of optional Intel® I/O Module that install proprietary connectors on the server board leaving available PCIe\* add-in cards slot available for other add-in cards options.






AF006712


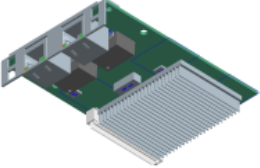



Figure 5. Intel® I/O Module Installation

**IMPORTANT NOTICE:**

All below I/O modules MUST have **AXXKPTPIOM** (MM# 935524) or **AXXKTP2IOM** (mm#943483) pre-installed in system.

**Table 9. List of Intel® I/O Expansion Modules**




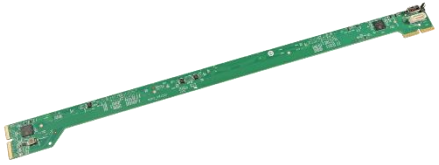
Intel Product Code	Order Information	Product Description	Product Type
<p><b>iPC –AXXKPTPIOM</b></p> 	<p>MM# –935524 UPC – 00735858288385 EAN –5032037067706 MOQ – 1</p>	<p><b>Intel® I/O Modules AXXKPTPIOM</b></p> <p>PCI Express x16 (200 pin) rIOM riser and rIOM carrier board kit for supporting Intel® I/O module (on slot 2) for Intel® Compute Module HNS2600KP Product Family or Intel® Compute Module HNS2600TP Product Family</p> <p><b>NOTE:</b> Intel® I/O modules must have AXXKPTPIOM pre-installed. The production compute module and chassis configurations do <u>not</u> include AXXKPTPIOM</p>	<ul style="list-style-type: none"> <li>Accessory Kit</li> </ul>
<p><b>iPC –AXXKTPM2IOM</b></p> 	<p>MM# –943483 UPC – 00735858302715 EAN –5032037077491 MOQ – 1</p>	<p><b>Intel® I/O Modules AXXKTPM2IOM</b></p> <p>PCI Express x16 (200 pin) rIOM riser and rIOM carrier board kit for supporting Intel® I/O module (on slot 2) and/or one SATA M.2 device for Intel® Compute Module HNS2600KP Product Family, or Intel® Compute Module HNS2600TPR, HNS2600TP24R and HNS2600TP24SR. 1 x SATA cable included</p> <p><b>NOTE:</b> The M.2 device installation is only supported on non-InfiniBand* SKUs - HNS2600TPR, HNS2600TP24R and HNS2600TP24SR. HNS2600TP24R and HNS2600TP24SR includes this part by default</p>	<ul style="list-style-type: none"> <li>Accessory Kit</li> </ul>
<p><b>iPC - AHWKTPBOB</b></p> 	<p>MM# - 936274 UPC - 00735858288408 EAN - 5032037067720 MOQ - 1</p>	<p><b>Breakout Board AHWKTPBOB</b></p> <p>Break out board accessory providing additional SATA ports for board only customers for Intel® Server Board S2600KP Product Family and Intel® Server Board S2600TP Product Family</p>	<ul style="list-style-type: none"> <li>Accessory Kit</li> </ul>


Intel Product Code	Order Information	Product Description	Product Type
<p><b>iPC - AXX10GBNIAIOM</b></p> 	<p>MM# - 917905 UPC - 00735858241090 EAN - 5032037035842 MOQ - 1</p>	<p><b>Dual Port Intel® 82599EB 10GbE I/O Module</b></p> <p>Dual SFP+ port 10GbE I/O 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>	<ul style="list-style-type: none"> <li>• Accessory Kit</li> <li>• Spare FRU for HNS2600TP24SR</li> </ul>
<p><b>iPC - AXX10GBTWLHW3</b></p> 	<p>MM# - 941868 UPC - 00735858296649 EAN - 5032037072465 MOQ - 1</p>	<p><b>Dual RJ-45 port 10GBASE-T I/O Module</b></p> <p>Dual RJ-45 port 10GBASE-T I/O module, based on Intel® Ethernet Controller X540</p>	<ul style="list-style-type: none"> <li>• Accessory Kit</li> <li>• Spare FRU for HNS2600TP24R</li> </ul>
<p><b>iPC - AXX1FDRIBIOM</b></p> 	<p>MM# - 918607 UPC - 00735858241106 EAN - 5032037035859 MOQ - 1</p>	<p><b>FDR InfiniBand* ConnectX-3* I/O Module</b></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>	<ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul>
<p><b>iPC - AXX2FDRIBIOM</b></p> 	<p>MM# - 920627 UPC - 00735858245722 EAN - 5032037040235 MOQ - 1</p>	<p><b>FDR InfiniBand* ConnectX-3* I/O Module</b></p> <p>Dual-port, FDR 56GT/S (per port capable) speed InfiniBand* module, with QSFP connector, based on Mellanox* CX3 MT27508A1-FCCR-FV chip.</p> <p>Includes three screws</p> <p><b>NOTE:</b> Due to PCIe* 3.0 x8 bandwidth limitation, both ports can't simultaneously function at full speed</p>	<ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul>
<p><b>iPC - AXX4P1GBPWL IOM</b></p> 	<p>MM# - 917911 UPC - 735858241083 EAN - 5032037035835 MOQ - 1</p>	<p><b>Quad Port Intel® I350-AE4 GbE I/O Module</b></p> <p>Quad-port 1GbE I/O Module based on Intel® Ethernet Controller I350</p>	<ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul>

### 3.3 Intel® SAS Bridge Board Upgrade Kit Options

The Intel® Compute Module HNS2600TPR and HNS2600TPFR include a 6Gb/s bridge board which have the following upgraded options.

**Table 10. Intel® SAS Bridge Board Upgrade Kit Options**

Intel Product Code	Order Information	Product Description	Product Type
<p><b>iPC - AHWKPTP12GBGBIT</b></p> 	<p>MM# - 949475 UPC - 735858316248 EAN - 5032037086851 MOQ - 1</p>	<p><b>Spare 12Gb SAS Bridge Board AHWKPTP12GBGBIT (SAS without RAID)</b></p> <p>12Gb SAS Bridge Board (No RAID) for Intel® Compute Module HNS2600KPR or HNS2600KPFR, HNS2600TPR or HNS2600TPFR and, H2312XXKR2 or H2216XXKR2 chassis only.</p> <p><b>NOTE:</b> It is only supported in dual processor configurations.</p>	<ul style="list-style-type: none"> <li>Upgrade Kit for HNS2600TPR and HNS2600TPFR</li> </ul>
<p><b>iPC - AHWKPTP12GBGB</b></p> 	<p>MM# - 935580 UPC - 735858288484 EAN - 5032037067805 MOQ - 1</p>	<p><b>Spare 12Gb SAS Bridge Board AHWKPTP12GBGB</b></p> <p>12Gb SAS Bridge Board (RAID 0/1/10) for Intel® Compute Module HNS2600TPR or HNS2600TPFR and, H2312XXKR2 or H2216XXKR2 chassis only.</p> <p><b>NOTE:</b> 12Gb/s LSI* SAS3008 is included on the bridge board, RAID FW is based on MegaRAID*. It is only supported in dual processor configurations.</p>	<ul style="list-style-type: none"> <li>Upgrade Kit for HNS2600TPR and HNS2600TPFR</li> </ul>
<p><b>iPC - AHWTPTP12GBGBR5</b></p> 	<p>MM# - 937453 UPC - 735858288903 EAN - 5032037068185 MOQ - 1</p>	<p><b>12Gb SAS Bridge Board AHWTPTP12GBGBR5 (with RAID 5)</b></p> <p>12Gb SAS Bridge Board (RAID 0/1/10/5) for Intel® Compute Module HNS2600TPR and HNS2600TPFR Product Family and, H2312XXKR2 or H2216XXKR2 chassis only.</p> <p><b>NOTE:</b> 12Gb/s LSI* SAS3008 is included on the bridge board, RAID FW is based on MegaRAID*. It is only supported in dual processor configurations.</p>	<ul style="list-style-type: none"> <li>Upgrade Kit for HNS2600TPR and HNS2600TPFR</li> </ul>
<p><b>iPC - FHWKPTPBGB</b></p> 	<p>MM# - 935575 UPC - 00735858288422 EAN - 5032037067744 MOQ - 1</p>	<p><b>Spare SATA Bridge Board</b></p> <p>Spare SATA Bridge Board for Intel® Compute Module HNS2600TPR or Intel® Compute Module HNS2600TPFR only</p>	<ul style="list-style-type: none"> <li>Spare FRU</li> </ul>

<p><b>iPC - FHWKPTPBGB24</b></p> 	<p>MM# - 943482  UPC - 00735858302708  EAN - 5032037077484  MOQ - 1</p>	<p><b>Spare SAS/PCIe SFF Combo Bridge Board</b></p> <p>Spare 12Gb/s SAS/PCIe SFF Combo Bridge Board for Intel® Compute Module HNS2600TP24R or HNS2600TP24SR only</p> <p><b>NOTE:</b> 12Gb/s SAS chip 3008 is included on the bridge board, only supports SAS pass through mode, no RAID support. It is only supported in dual processor configurations</p>	<ul style="list-style-type: none"> <li>• Spare FRU</li> </ul>
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### 3.4 Intel® SAS RAID Add-in Cards, Module, and Accessories

Intel® RAID offers a broad portfolio of RAID solutions designed to address the storage-related challenges of the modern day datacenter as well as the small business. The Intel® S2600TP product family include support for the latest generation of 12Gb/s SAS Intel® RAID add-in cards, modules, expanders, and accessories. Previous 6Gb/s Intel RAID cards can also be supported. See the published Tested Hardware and OS List for a full list of validated Intel RAID cards.




Additional information for Intel RAID products can be found at the following Intel web sites:

[http://www.intelraid.com/files/Intel\\_RMS3\\_Brief\\_Final.pdf](http://www.intelraid.com/files/Intel_RMS3_Brief_Final.pdf)

[http://www.intelraid.com/files/Intel-1106-RAID-Brochure\\_New2014102.pdf](http://www.intelraid.com/files/Intel-1106-RAID-Brochure_New2014102.pdf)





### 3.4.1 Intel® RAID Controller Add-in Cards

Table 11. List of Intel® RAID Controller Add-in Cards

Intel Product Code	Order Information	Product Description	Product Type
<p><b>iPC - RS3SC008</b></p> 	<p>MM# - 928223 UPC - 735858266956 EAN - 5032037068567 MOQ - 5</p>	<p><b>Intel® RAID Controller RS3SC008</b></p> <p>Intel® RAID Controller RS3SC008 for Intel® Compute Module HNS2600TPR or HNS2600TPFR or HNS2600TP24R (H2224XXKR2 chassis) or HNS2600TP24SR (H2224XXKR2 chassis) only and, H2312XXKR2 or H2216XXKR2 chassis only.</p> <ul style="list-style-type: none"> <li>• Low Profile, half length, (MD2 Compliant) PCIe* add-in card</li> <li>• 8 external SAS / SATA ports (12Gb/s SAS, 6Gb/s SATA)</li> <li>• LSI* SAS3108 ROC</li> <li>• RAID Levels – 0, 1, 5, 6, 10, 50, and 60</li> <li>• Embedded 1GB DDR3 Cache Memory</li> <li>• Supports Maintenance Free Backup Unit AXXRMFBU4.</li> </ul> <p><b>NOTE:</b> AXXRMFBU4 support is only for server board customer, H2000G chassis cannot support it as there's no enough space. SAS Data cables not included. Must be purchased separately.</p>	<ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul>
<p><b>iPC - RS25GB008</b></p> 	<p>MM# - 919566 UPC - 735858219877 EAN - 5032037088060 MOQ - 5</p>	<p><b>Intel® RAID Controller RS25GB008</b></p> <p>For Intel® Compute Module HNS2600TPR or HNS2600TPFR only and, H2312XXKR2 or H2216XXKR2 chassis only.</p> <ul style="list-style-type: none"> <li>• Low Profile, half length, (MD2 Compliant) PCIe* add-in card</li> <li>• 8 external SAS / SATA ports (6Gb/s)</li> <li>• LSI* SAS2308 I/O Controller</li> <li>• No RAID (JBOD only)</li> </ul> <p><b>NOTE:</b> SAS Data cables not included. Must be purchased separately.</p>	<ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul>
<p><b>iPC - RS25SB008</b></p> 	<p>MM# - 934614 UPC - 735858228633 EAN - 5032037023443 MOQ - 5</p>	<p><b>Intel® RAID Controller RS25SB008</b></p> <p>Intel® RAID Controller RS25SB008 for Intel® Compute Module HNS2600TPR or HNS2600TPFR or HNS2600TP24R (H2224XXKR2 chassis) or HNS2600TP24SR (H2224XXKR2 chassis) only and, H2312XXKR2 or H2216XXKR2 chassis only.</p> <ul style="list-style-type: none"> <li>• Low Profile, half length, (MD2 Compliant) PCIe* add-in card</li> <li>• 8 external SAS / SATA ports (6Gb/s)</li> <li>• LSI* SAS2208 I/O ROC</li> <li>• RAID Levels - 0, 1, 5, 6, 10, 50, and 60</li> <li>• Embedded 1GB DDR3 Cache Memory</li> </ul> <p><b>NOTE:</b> SAS Data cables not included. Must be purchased separately.</p>	<ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul>

### 3.4.2 Intel® RAID Accessoried Options

Table 12. List of Intel® RAID Accessories Options



Intel Product Code	Order Information	Product Description	Product Type
<p><b>iPC - RKSATA4R5</b></p> 	<p>MM# - 916346 UPC - 735858238861 EAN - 5032037033640 MOQ - 5</p>	<p><b>Intel® RAID C600 Upgrade Key RKSATA4R5</b></p> <p>Raid activation key for Intel® Compute Module HNS2600KPR or HNS2600KPFR, HNS2600TPR or HNS2600TPFR and, H2312XXKR2 or H2216XXKR2 chassis only.</p> <p>Activates RSTe SW RAID 0/1/10/5 and LSI* SW RAID 0/1/10/5 (enables LSI* SWR5), Black.</p>	<ul style="list-style-type: none"> <li>Accessory Kit</li> </ul>
<p><b>iPC - AXXPFKSSD2</b></p> 	<p>MM# - 915316 UPC - 735858221467 EAN - 5032037051699 MOQ - 5</p>	<p><b>Intel® RAID SSD Cache with Fast Path *I/O</b></p> <p>Upgrade Key to enable SSD Cache with Fast path I/O for Intel's RAID RS25 family of ROC products.</p>	<ul style="list-style-type: none"> <li>Accessory Kit</li> </ul>
<p><b>iPC - AXXPFKDE2</b></p> 	<p>MM# - 915317 UPC - 735858221474 EAN - 5032037051705 MOQ - 5</p>	<p><b>Intel® RAID Drive Encryption Management</b></p> <p>Upgrade Key to enable Drive Encryption Management for Intel's RAID RS25 family of ROC products</p>	<ul style="list-style-type: none"> <li>Accessory Kit</li> </ul>
<p><b>iPC - AXXPFKSNH2</b></p> 	<p>MM# - 915318 UPC - 735858221481 EAN - 5032037051712 MOQ - 5</p>	<p><b>Intel® RAID Rapid Recovery Snapshot</b></p> <p>Upgrade Key to enable Rapid Recovery Snapshot for Intel's RAID RS25 family of ROC products.</p>	<ul style="list-style-type: none"> <li>Accessory Kit</li> </ul>

### 3.5 Rack Mount kits

The Intel® S2600TP provides the upgrade option to the rack mount kits.

**CAUTION:** Exceeding the rail kit's specified maximum weight limit or misalignment of the server in the rack may result in failure of the rack rails, resulting in damage to the systems or personal injury. Using two people or the use of a mechanical assist tool to install and align the server into the rack is highly recommended.


**Table 13. List of Rack Mount Kits**

Intel Product Code	Order Information	Product Description	Product Type
<p data-bbox="239 508 453 532"><b>iPC - AXXFULLRAIL</b></p> 	<p data-bbox="611 581 772 605">MM# - 939209</p> <p data-bbox="611 621 852 646">UPC - 735858291989</p> <p data-bbox="611 662 867 686">EAN - 5032037070546</p> <p data-bbox="611 703 705 727">MOQ - 1</p>	<p data-bbox="1083 505 1457 529"><b>2/4U Premium Rail AXXFULLRAIL</b></p> <p data-bbox="919 537 1205 561">2U+ Premium quality rails.</p> <ul data-bbox="919 565 1465 654" style="list-style-type: none"> <li>• Travel distance 780mm</li> <li>• Full extension from rack</li> <li>• Kit includes: Rails, screws, installation manual</li> </ul> <p data-bbox="919 695 1577 751"><b>NOTE:</b> Cable Management Arm is not supported by the Intel® Server Chassis H2000G Product Family.</p>	<ul data-bbox="1650 643 1835 667" style="list-style-type: none"> <li>• Upgrade kit</li> </ul>
<p data-bbox="239 821 449 846"><b>iPC - AXXELVRAIL</b></p> 	<p data-bbox="611 894 772 919">MM# - 920970</p> <p data-bbox="611 935 852 959">UPC - 735858244367</p> <p data-bbox="611 976 867 1000">EAN - 5032037038980</p> <p data-bbox="611 1016 705 1040">MOQ - 1</p>	<p data-bbox="1077 818 1463 842"><b>Enhanced Value RAIL AXXELVRAIL</b></p> <p data-bbox="919 883 1556 907">Value Rail Kit, half extension, extended inner slide member</p>	<ul data-bbox="1650 951 1822 976" style="list-style-type: none"> <li>• Spare FRU</li> </ul>




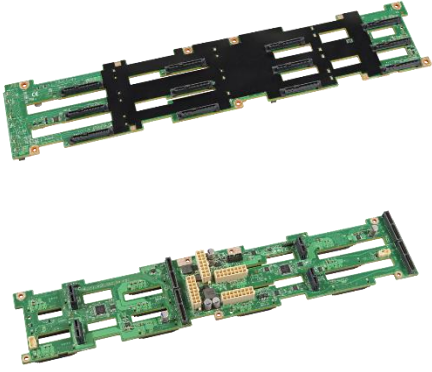
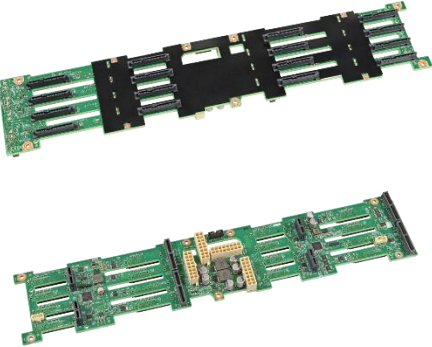
# 4. Miscellaneous Accessory Options

Table 14. List of Miscellaneous Accessory Options


Intel Product Code	Order Information	Product Description	Product Type
<p>iPC - AXXRMM4LITE</p> 	<p>MM# - 911660            UPC - 735858219297            EAN - 5032037014946            MOQ - 1</p>	<p>Activation key for advanced management features</p>	<ul style="list-style-type: none"> <li>• Accessory kit</li> </ul>



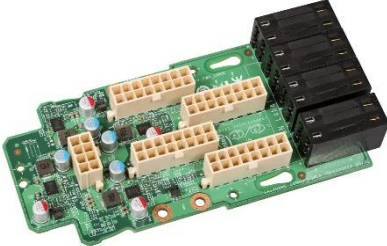
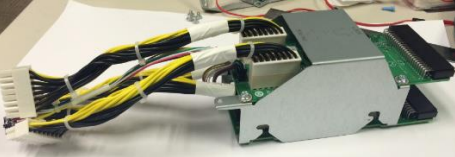
## 5. Spare and Replacement Parts (FRUs)


Table 15. List of Spare and Replacement Parts

Intel Product Code	Order Information	Product Description	Product Type
<p><b>iPC - FHW1U16RISER2</b></p> 	<p>MM# - 935565 UPC - 00735858288392 EAN - 5032037067713 MOQ - 1</p>	<p><b>PCI Express Riser FHW1U16RISER2 (Slot 1)</b></p> <p>1U PCI Express* x16 riser card for supporting in-board low-profile PCIe* card (on slot 1) on Intel® Compute Module HNS2600KP Product Family or Intel® Compute Module HNS2600TP Product Family</p>	<ul style="list-style-type: none"> <li>Spare FRU</li> </ul>
<p><b>iPC - FHW12X35HS12G</b></p> 	<p>MM# - 935567 UPC - 00735858288446 EAN - 5032037067768 MOQ - 1</p>	<p><b>Spare 12Gb SAS/SATA 12 x 3.5" Backplane</b></p> <p>12 x 3.5" spare backplane for Intel® Server Chassis H2312XXKR2</p>	<ul style="list-style-type: none"> <li>Spare FRU for H2312XXKR2</li> </ul>
<p><b>iPC - FHW16X25HS12G</b></p> 	<p>MM# - 935573 UPC - 00735858288453 EAN - 5032037067775 MOQ - 1</p>	<p><b>Spare 12Gb SAS/SATA 16 x 2.5" Backplane</b></p> <p>16 x 2.5" spare backplane for Intel® Server Chassis H2216XXKR2</p>	<ul style="list-style-type: none"> <li>Spare FRU for H2216XXKR2</li> </ul>

Intel Product Code	Order Information	Product Description	Product Type
<p data-bbox="262 115 529 139"><b>iPC - FHW24X25HS12G</b></p> 	<p data-bbox="709 186 978 329">MM# - 943481 UPC - 00735858302692 EAN - 5032037077477 MOQ - 1</p>	<p data-bbox="1123 115 1535 175"><b>Spare 12Gb SAS 24 x 2.5" Backplane</b></p> <p data-bbox="1003 215 1549 272">24 x 2.5" spare backplane for Intel® Server Chassis H2224XXKR2</p>	<ul data-bbox="1682 232 1885 289" style="list-style-type: none"> <li>• Spare FRU for H2224XXKR2</li> </ul>
<p data-bbox="262 386 529 410"><b>iPC - FXX4056DRFAN2</b></p> 	<p data-bbox="709 467 961 610">MM# - 935566 UPC - 735858288439 EAN - 5032037067751 MOQ - 1</p>	<p data-bbox="1003 524 1350 548">40x56mm Dual Rotor Fan spare</p>	<ul data-bbox="1682 524 1850 548" style="list-style-type: none"> <li>• Spare FRU</li> </ul>
<p data-bbox="262 708 529 732"><b>iPC - FXXCA84X106HS</b></p> 	<p data-bbox="709 781 978 924">MM# - 918318 UPC - 00735858236676 EAN - 5032037031448 MOQ - 2</p>	<p data-bbox="1003 821 1640 878">1U Standard Boxed Cu/Al 84mm x 106mm Heat Sink (Rear Heat Sink)</p>	<ul data-bbox="1682 837 1850 862" style="list-style-type: none"> <li>• Spare FRU</li> </ul>
<p data-bbox="262 1016 529 1040"><b>iPC - FXXEA84X106HS</b></p> 	<p data-bbox="709 1089 978 1232">MM# - 918321 UPC - 00735858236683 EAN - 5032037031455 MOQ - 2</p>	<p data-bbox="1003 1130 1598 1187">1U Standard Cu/Al 91.5mm x 91.5mm Heat Sink (Front Heat Sink)</p>	<ul data-bbox="1682 1146 1850 1170" style="list-style-type: none"> <li>• Spare FRU</li> </ul>




Intel Product Code	Order Information	Product Description	Product Type
<p data-bbox="281 152 506 175"><b>iPC - FXX25HSCAR2</b></p> 	<p data-bbox="705 228 961 367">MM# - 937542 UPC - 735858289405 EAN - 5032037068383 MOQ - 8</p>	<p data-bbox="1003 285 1360 308">Spare 2.5" HDD hot swap carriers</p>	<ul data-bbox="1682 285 1843 308" style="list-style-type: none"> <li>• Spare FRU</li> </ul>
<p data-bbox="281 461 506 483"><b>iPC - FXX35HSCAR</b></p> 	<p data-bbox="705 537 961 675">MM# - 936192 UPC - 735858289412 EAN - 5032037068390 MOQ - 8</p>	<p data-bbox="1003 594 1360 617">Spare 3.5" HDD hot swap carriers</p>	<ul data-bbox="1682 594 1843 617" style="list-style-type: none"> <li>• Spare FRU</li> </ul>
<p data-bbox="281 769 506 792"><b>iPC - FXX1600PCRPS</b></p> 	<p data-bbox="705 833 961 971">MM# - 915606 UPC - 735858243650 EAN - 5032037038294 MOQ - 1</p>	<p data-bbox="1087 769 1570 818"><b>1600W Common Redundant Power Supply FXX1600PCRPS (Platinum-Efficiency)</b></p> <p data-bbox="1003 857 1591 906">1600W AC Common Redundant Power Supply 80Plus Platinum-Efficiency</p>	<ul data-bbox="1682 847 1927 961" style="list-style-type: none"> <li>• Spare FRU for H2216XXKR2 and H2312XXKR2 and H2224XXKR2</li> </ul>
<p data-bbox="281 1062 506 1084"><b>iPC - FXX2130PCRPS</b></p> 	<p data-bbox="705 1109 978 1247">MM# - 948196 UPC - 00735858311939 EAN - 5032037084062 MOQ - 1</p>	<p data-bbox="1087 1062 1570 1110"><b>2130W Common Redundant Power Supply FXX2130PCRPS (Platinum-Efficiency)</b></p> <p data-bbox="1003 1149 1591 1198">2130W AC Common Redundant Power Supply 80Plus Platinum-Efficiency</p>	<ul data-bbox="1682 1110 1927 1256" style="list-style-type: none"> <li>• Spare FRU for H2216XXKR2 and H2312XXKR2 and H2224XXKR2 and H2224XXLR2</li> </ul>

Intel Product Code	Order Information	Product Description	Product Type
<p data-bbox="289 151 499 175"><b>iPC - FH2000NPB2</b></p> 	<p data-bbox="705 196 978 334">MM# - 935574 UPC - 00735858288477 EAN - 5032037067799 MOQ - 1</p>	<p data-bbox="1108 151 1545 175"><b>Spare Node Power Board FH2000NPB2</b></p> <p data-bbox="1003 212 1650 293">Spare Node Power Board (Compute Module Power Docking Board) for Intel® Compute Module HNS2600TP or HNS2600TPF.</p>	<ul data-bbox="1682 224 1913 310" style="list-style-type: none"> <li>• Spare FRU for HNS2600TP and HNS2600TPF</li> </ul>
<p data-bbox="281 402 508 427"><b>iPC - FH2000NPB24</b></p> 	<p data-bbox="705 461 978 599">MM# - 943480 UPC - 00735858302685 EAN - 5032037077460 MOQ - 1</p>	<p data-bbox="1108 399 1545 423"><b>Spare Node Power Board FH2000NPB2</b></p> <p data-bbox="1003 461 1650 542">Spare Node Power Board (Compute Module Power Docking Board) for Intel® Compute Module HNS2600TP24R or HNS2600TP24SR.</p>	<ul data-bbox="1682 488 1955 574" style="list-style-type: none"> <li>• Spare FRU for HNS2600TP24R and HNS2600TP24SR</li> </ul>
<p data-bbox="289 683 499 708"><b>iPC - FXXCRPSPIB</b></p> 	<p data-bbox="705 764 978 902">MM# - 943484 UPC - 00735858302722 EAN - 5032037077507 MOQ - 1</p>	<p data-bbox="1079 675 1575 699"><b>Spare Power Interposer Board FH2000NPB2</b></p> <p data-bbox="1003 737 1598 794">Spare power interposer board module for Intel® Server Chassis H2224XXKR2.</p> <p data-bbox="1003 837 1394 956">Includes: (1) bracket included (1) 5V power cable included (1) power interposer board included</p>	<ul data-bbox="1682 794 1955 880" style="list-style-type: none"> <li>• Spare FRU for HNS2600TP24R and HNS2600TP24SR</li> </ul>
<p data-bbox="281 1013 508 1037"><b>iPC - FXXCRPSPDB2</b></p> 	<p data-bbox="705 1032 978 1170">MM# - 935576 UPC - 735858288460 EAN - 5032037067782 MOQ - 1</p>	<p data-bbox="1150 1008 1503 1032"><b>Power Distribution Board Spare</b></p> <p data-bbox="1003 1070 1650 1183">Spare Power Distribution Board Module including 2 boards, cables, a bus pair and supporting bracket, for Common Redundant Power Supply 1600W of Intel® Server Chassis H2000G Product Family.</p>	<ul data-bbox="1682 1089 1850 1114" style="list-style-type: none"> <li>• Spare FRU</li> </ul>

Intel Product Code	Order Information	Product Description	Product Type
<p data-bbox="268 152 520 175"><b>iPC - FH2000FPANEL2</b></p> 	<p data-bbox="705 233 869 256">MM# - 935578</p> <p data-bbox="705 272 949 295">UPC - 735858288415</p> <p data-bbox="705 311 961 334">EAN - 5032037067737</p> <p data-bbox="705 350 802 373">MOQ - 1</p>	<p data-bbox="1163 146 1491 168"><b>Spare Front Control Panel Kit</b></p> <p data-bbox="1003 211 1650 295">Spare front control panel kit (2 mini-front panel boards and rack handle assembly) for Intel® Server Chassis H2000G Product Family.</p>	<ul data-bbox="1680 289 1848 311" style="list-style-type: none"> <li>Spare FRU</li> </ul>

## 6. Extended Warranty

Table 16. Extended Warranty

Image	Order Information	Description
 <p>Intel Server Component Extended Warranty Key  <small>923113-923113-923113</small>  <small>MOQ - 1</small>            Extended 30 Days            Instructions to enable Intel® Server Component Extended Warranty:            1. Register your Intel® Server Component Extended Warranty Key at <a href="https://www.intel.com/enterprise/warranty">https://www.intel.com/enterprise/warranty</a>            2. Use the <a href="https://www.intel.com/enterprise/warranty">https://www.intel.com/enterprise/warranty</a> with the Intel® Server Component Extended Warranty Key to register your system.            3. For more information, visit <a href="https://www.intel.com/enterprise/warranty">https://www.intel.com/enterprise/warranty</a></p>	<p>iPC - SVCEWHWSY            MM# - 923113            MOQ - 1</p>	<p>Extended Warranty for complete system (1x Intel® Server Chassis H2000G + 4x Intel® Compute Module HNS2600TP), Single</p>
 <p>Intel Server Component Extended Warranty Key  <small>914905-914905-914905</small>  <small>MOQ - 1</small>            Extended 30 Days            Instructions to enable Intel® Server Component Extended Warranty:            1. Register your Intel® Server Component Extended Warranty Key at <a href="https://www.intel.com/enterprise/warranty">https://www.intel.com/enterprise/warranty</a>            2. Use the <a href="https://www.intel.com/enterprise/warranty">https://www.intel.com/enterprise/warranty</a> with the Intel® Server Component Extended Warranty Key to register your system.            3. For more information, visit <a href="https://www.intel.com/enterprise/warranty">https://www.intel.com/enterprise/warranty</a></p>	<p>iPC - SVCEWHWB            MM# - 914905            MOQ - 1</p>	<p>Extended Warranty for single node (1x Intel® Compute Module HNS2600TP), Single</p>
 <p>Intel Server Component Extended Warranty Key  <small>911294-911294-911294</small>  <small>MOQ - 1</small>            Extended 30 Days            Instructions to enable Intel® Server Component Extended Warranty:            1. Register your Intel® Server Component Extended Warranty Key at <a href="https://www.intel.com/enterprise/warranty">https://www.intel.com/enterprise/warranty</a>            2. Use the <a href="https://www.intel.com/enterprise/warranty">https://www.intel.com/enterprise/warranty</a> with the Intel® Server Component Extended Warranty Key to register your system.            3. For more information, visit <a href="https://www.intel.com/enterprise/warranty">https://www.intel.com/enterprise/warranty</a></p>	<p>iPC - SVCEWDPBD            MM# - 911294            MOQ - 1</p>	<p>Extended warranty for the mainboard only (for use with 3<sup>rd</sup> party chassis; applies to board only SKUs BBS2600TP, BBS2600TPF)</p>

# Glossary of Terms

**Table 17. A list of Acronyms and Terms used throughout this document**

<b>Acronym or Term</b>	<b>Definition</b>	<b>Acronym or Term</b>	<b>Definition</b>
CRPS	Common Redundant Power Supply	QSFP	Quad Small Form factor Pluggable
EAN	International Article Number (Barcode)	RAID	Redundant Array of Independent Drives
ESRT2	Intel® Embedded Server RAID Technology 2	Required Option	Hardware that must be added to the shipping configuration for the system to operate
FDR Infiniband	Fourteen Data Rate Infiniband	RMFBU	RAID Maintenance Free Backup Unit
FRU	Field Replaceable Unit	RMM4 Lite	Intel® Remote Management Module 4 Lite Activation key
IOM	Input/Output Module	ROC	RAID on Chip
iPC	Intel Product Code	RSTe	Intel® Rapid Storage Technology
iPN	Intel Product Number	SAS	Serial Attached SCSI
JBOD	Just a bunch of drives	SATA	Serial ATA
KDK	Knock-Down-Kit – (Chassis only product)	SFP	Small Form factor Pluggable
MM#	Master Material order number	SKU	Stock Keeping Unit
MOQ	Minimum Order Quantity	SSD	Solid State Drive
NVMe	NVM Express – based on Non-Volatile Memory Host Controller Interface Specification (NVMeHCI)	UPC	Universal Product Code (Barcode)
Optional Accessory	Hardware that can be added to the system to enhance the default feature set of the shipping configuration		



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