



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

Reference guide for ordering parts and accessories to configure an Intel® Server System based on the Intel® Server Board S2600TP Product Family.

Rev 2.31

October 2019

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Document Revision History

Date	Revision	Changes
November 2015	2.0	Second Production Candidate Release. Added chassis H2224XXKR2.
January 2016	2.10	Removed I/O modules AXX1P40FRTIOM and AXX2P40FRTIOM.
March 2016	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. Removed RS3GC008.
April 2016	2.21	Added chassis H2224XXLR2. Added PSU spare FXX2130PCRPS.
April 2016	2.22	Added 100HFA018LS and 100HFA016LS.
May 2016	2.23	Added form factor specification for AXXKPTPM2IOM. Re-added RS3GC008. Added RS25NB008 and AXXRSBBU9.
June 2016	2.24	Corrected FXXCA84X106HS product code and, FXXE84X106HS image. Corrected H2224XXKR2 and H2224XXLR2 references and description. Added H2312XXLR2 and H2216XXLR2. Removed redundant descriptions for spares and corrected the RKSATA4R5 description.
August 2016	2.25	Re-added AXX1P40FRTIOM and AXX2P40FRTIOM. Corrected 6Gpbs bridge board iPC. Added low-profile PCIe* card form factor specification.
October 2016	2.26	Added AXXRMM4LITE2. Added the Intel® Server Board BBS2600TPTR and Intel® Compute Module HNS2600TP24STR. Removed RS25GB008, RS25NB008, AXXRPFKSSD2 and AXXRSBBU9 accessories due to EOL – Not orderable. Standardized Revision History section.
January 2017	2.27	Corrected F1UL16RISER2 for FHW1U16RISER2. Enhanced AXXRMM4LITE2 description. Reformatted document.
March 2017	2.28	Added the Intel® Server Board BBS2600TPNR and Intel® Compute Module HNS2600TPNR
December 2017	2.29	Corrected “# of DIMM slots” from 8 to 16
September 2018	2.30	Intel® RAID Add-in Cards, Modules, and Accessories support links updated.
October 2019	2.31	Corrected RS25SB008 MM#

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1. Intel® Server S2600TP Family Overview

This document is provided to assist you in identifying the right Intel® Server System components and available accessories to create a unique server platform that meets your unique server requirements.

The Intel® Server S2600TP Family is offered as a building block system. The server building blocks include:

- **Intel® Server Board S2600TP Product Family**– Server board only.
- **Intel® Compute Module HNS2600TP Product Family** – Compute module integrated with the Intel® Server Board S2600TP Product Family.
- **Intel® Server Chassis H2000G Product Family** – 2U rack mount server chassis.

The Intel® Server S2600TP Family supports the following processors and memory.

- Intel® Xeon® processor E5-2600 v4 product family
- Intel® Xeon® processor E5-2600 v3 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.

1.1 Product Family Summary

The following tables provide an overview of the available product codes for the building blocks within the Intel® Server S2600TP Family and their key features. For additional order code information and full product descriptions, refer to section 2.

1.1.1 Intel® Server Board S2600TP Product Family

The server boards in the Intel® Server Board S2600TP Product Family have identical feature sets except Intel® Server Board S2600TPFR offers integrated InfiniBand* technology, Intel® Server Board S2600TPTR is a Trusted Platform Module (TPM) and, Intel® Server Board S2600TPNR offers ADR-on-Reset cold-reset feature support when using an NVDIMM module.

Table 1. Intel® Server Board S2600TP Product Family summary

Intel Product Code (iPC)	# of CPU sockets	# of DIMM slots	# of riser slots	# of RJ45 LAN ports (1 Gb)	# of SATA ports (6 Gb/s)	Integrated InfiniBand*	Intel® I/O Expansion Module support	Trusted Platform Module (TPM)
BBS2600TPR	2	16	4	2	4	No	Yes	No
BBS2600TPFR	2	16	4	2	4	Yes (FDR 56 Gb/s)	Yes	No
BBS2600TPTR	2	16	4	2	4	No	Yes	Yes
BBS2600TPNR	2	16	4	1	4	No	Yes	No

1.1.2 Intel® Compute Module HNS2600TP Product Family

To identify the feature set of the Intel® Compute Module HNS2600TP Product Family, refer to Figure 1.

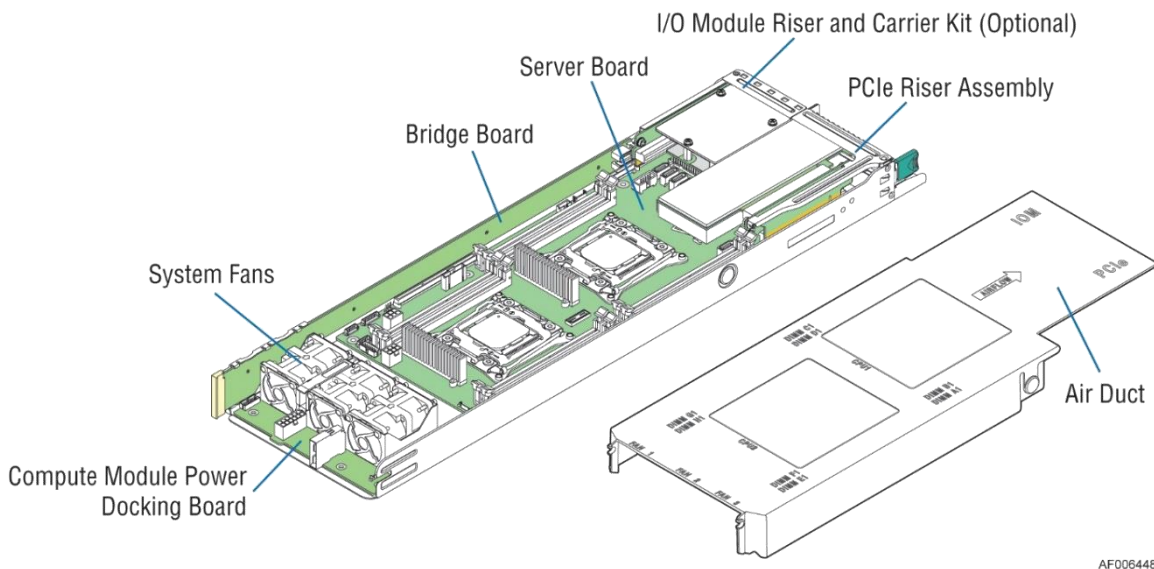


Figure 1. Intel® Compute Module HNS2600TP Product Family feature set identification

Table 2. Intel® Compute Module HNS2600TP Product Family summary

Intel Product Code (IPC)	Server board	Form factor	# of heat sinks	# of fans	# of riser slots ¹	Intel® I/O Expansion Module	Bridge board	Air duct
HNS2600TPR	BBS2600TPR	1U	2	3	3	Optional	6 G/s	Yes
HNS2600TPFR	BBS2600TPFR	1U	2	3	3	Optional	6 G/s	Yes
HNS2600TPNR	BBS2600TPNR	1U	2	3	3	Optional	6 G/s	Yes
HNS2600TP24R	BBS2600TPR	1U	2	3	3	2 x 10 GbE RJ45	12 G/s	Yes
HNS2600TP24SR	BBS2600TPR	1U	2	3	3	2 x 10 GbE SFP+	12 G/s	Yes
HNS2600TP24STR	BBS2600TPTR	1U	2	3	3	2 x 10 GbE SFP+	12 G/s	Yes

¹ One riser card with bracket in riser slot 1 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.

1.1.3 Intel® Server Chassis H2000G Product Family

To identify the feature set of the Intel® Server Chassis H2000G Product Family, refer to Figure 2.

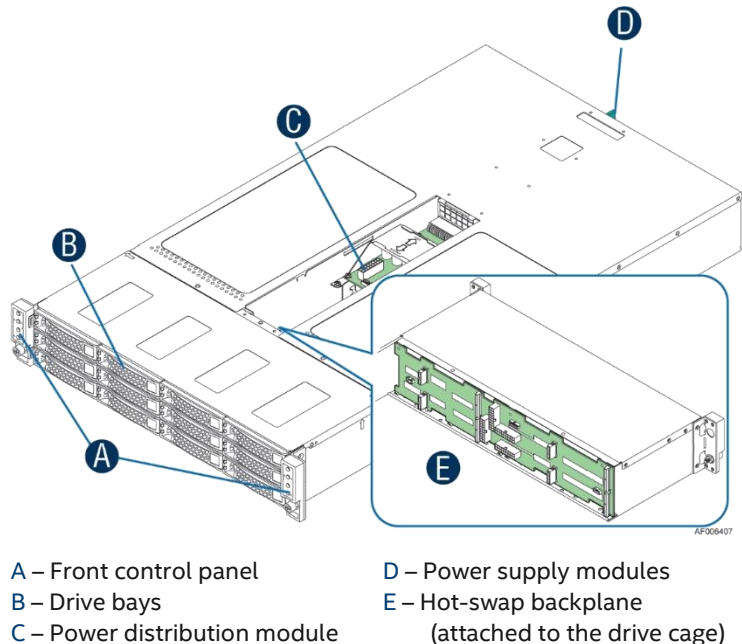


Figure 2. Intel® Server Chassis H2000G Product Family feature set identification

Table 3. Intel® Server Chassis H2000G Product Family summary

Intel Product Code (iPC)	Chassis form factor	Drive form factor	# of drives (front)	Power supply module	Rails
H2312XXKR2	2U	3.5"	12	2 x 1600 W AC	Optional
H2216XXKR2	2U	2.5"	16	2 x 1600 W AC	Optional
H2224XXKR2	2U	2.5"	24	2 x 1600 W AC	Optional
H2312XXLR2	2U	3.5"	12	2 x 2130 W AC	Optional
H2216XXLR2	2U	2.5"	16	2 x 2130 W AC	Optional
H2224XXLR2	2U	2.5"	24	2 x 2130 W AC	Optional

1.2 Additional Resources

For additional information about this family of products and its supported accessories, refer to the following resources also available through <http://www.intel.com/support>.

For in-depth technical information and a complete list of supported processors, memory, add-in cards, and peripherals, visit [Intel® Server Board S2600TP Family Support](#). Helpful documents accessible from the support site include:

- 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/v4

For system firmware updates, onboard device drivers, and software to manage your Intel® Server System, visit [Intel® Server Board 2600TP Family Downloads](#).

Other useful resources include:

- [Intel® Server Board S2600TP Family System Integration and Service Guide](#)
- [Intel® Server Configurator Tool](#)
- [Intel® Server Board S2600TP Power Budget and Thermal Configuration Tool](#)

2. Server Building Block Configurations

The Intel® Server S2600TP Family is offered as a building block system. Server building blocks provide 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, a functional server system requires:

- Chassis from the Intel® Server Chassis H2000G Product Family
- Compute module from the Intel® Compute Module HNS2600TP Product Family
- Power cord (Note that chassis shipped to the US and Canada contain North American power cords.)
- Processor
- Memory

To identify which chassis and compute modules are compatible with each other, refer to Table 4.

Table 4. Intel® Server S2600TP Family compatibility

Drive Solution	Intel® Server Chassis iPC	Intel® Compute Module iPC
12 and 16 drives solutions	H2312XXKR2 H2216XXKR2 H2312XXLR2 H2216XXLR2	HNS2600TPR HNS2600TPFR
24 drives solutions	H2224XXKR2 H2224XXLR2	HNS2600TP24R HNS2600TP24SR HNS2600TP24STR

In addition, many optional accessories and upgrades are available including riser card options, Intel® I/O Expansion Modules, Intel® Remote Management Modules (Intel® RMM), and SAS and SAS RAID support. For a full list of available accessories and upgrades, refer to section 3.

2.1 Intel® Server Board 2600TP Product Family

Table 5. Intel® Server Board S2600TPR


Intel® Server Board S2600TPR			
	iPC BBS2600TPR MM# 943944 UPC 00735858308922 EAN 5032037081689 MOQ 10	Product type Server board only Building block/ spare FRU Packaged gross wt. 20.7 kg (45.635 lb) Un-packaged net wt. 15.2 kg (33.51 lb) Dimensions 6.8" x 18.9"	
Description	<ul style="list-style-type: none"> • Support for dual Intel® Xeon® E5-2600 v3/v4 processor family • 16 DDR4 DIMM Slots • 4 x 6Gb/s SATA ports from secondary AHCI controller and 1 x SATA DOM port • 2 integrated 1Gb ports (Intel® Ethernet Controller I350) • 2 PCIe* 3.0 x24 capable slots and 2 PCIe* 3.0 x16 capable slots (not PCI-SIG* compatible) • Integrated baseboard management controller with IPMI 2.0 support • Optional advanced management features activated by Intel® RMM4 Lite • Dedicated 1Gb management port onboard • Support for Intel® I/O Expansion Modules • Support for SAS modules <p>Box includes: (1) server board</p> <p>Note: All necessary mounting hardware, cabling, and shielding ship with the chassis and optional accessory kits.</p>		

Table 6. Intel® Server Board S2600TPFR


Intel® Server Board S2600TPFR			
	iPC BBS2600TPFR MM# 943947 UPC 00735858308939 EAN 5032037081696 MOQ 10	Product type Server board only Building block/ spare FRU Packaged gross wt. 21.4 kg (47.178 lb) Un-packaged net wt. 15.9 kg (35.053 lb) Dimensions 6.8" x 18.9"	
Description	<ul style="list-style-type: none"> • Support for dual Intel® Xeon® E5-2600 v3/v4 processor family • 16 DDR4 DIMM Slots • 4 x 6Gb/s SATA ports from secondary AHCI controller and 1 x SATA DOM port • 2 integrated 1Gb ports (Intel® Ethernet Controller I350) • 2 PCIe* 3.0 x24 capable slots and 2 PCIe* 3.0 x16 capable slot (not PCI-SIG* compatible) • Integrated baseboard management controller with IPMI 2.0 support • Optional advanced management features activated by Intel® RMM4 Lite • Dedicated 1Gb management port onboard • Support for Intel® I/O Expansion Modules • Support for SAS modules • Single InfiniBand* FDR integrated port (Connect-IB* x8, QSFP+) <p>Box includes: (1) server board</p> <p>Note: All necessary mounting hardware, cabling, and shielding ship with the chassis and optional accessory kits.</p>		

Table 7. Intel® Server Board S2600TPTR



Intel® Server Board S2600TPTR			
	iPC MM# UPC EAN MOQ	BBS2600TPTR 953032 00735858327138 5032037093552 10	Product type Packaged gross wt. Un-packaged net wt. Dimensions
			Server board only Building block/ spare FRU 20.7 kg (45.635 lb) 15.2 kg (33.51 lb) 6.8" x 18.9"
Description	<ul style="list-style-type: none"> • Support for dual Intel® Xeon® E5-2600 v3/v4 processor family • 16 DDR4 DIMM Slots • 4 x 6Gb/s SATA ports from secondary AHCI controller and 1 x SATA DOM port • 2 integrated 1Gb ports (Intel® Ethernet Controller I350) • 2 PCIe* 3.0 x24 capable slots and 2 PCIe* 3.0 x16 capable slot (not PCI-SIG* compatible) • Integrated baseboard management controller with IPMI 2.0 support • Optional advanced management features activated by Intel® RMM4 Lite • Dedicated 1Gb management port onboard • Support for Intel® I/O Expansion Modules • Support for SAS modules • Trusted Platform Module (TPM) v2.0 <p>Box includes: (1) server board</p> <p>Note: All necessary mounting hardware, cabling, and shielding ship with the chassis and optional accessory kits.</p>		

Table 8. Intel® Server Board S2600TPNR

Intel® Server Board S2600TPNR			
	iPC MM# UPC EAN MOQ	BBS2600TPNR 955259 00735858337571 5032037100250 10	Product type Packaged gross wt. Un-packaged net wt. Dimensions
			Server board only Building block/ spare FRU 20.7 kg (45.635 lb) 15.2 kg (33.51 lb) 6.8" x 18.9"
Description	<ul style="list-style-type: none"> • Support for dual Intel® Xeon® E5-2600 v3/v4 processor family • 16 DDR4 DIMM Slots • 4 x 6Gb/s SATA ports from secondary AHCI controller and 1 x SATA DOM port • 2 integrated 1Gb ports (Intel® Ethernet Controller I350) • 2 PCIe* 3.0 x24 capable slots and 2 PCIe* 3.0 x16 capable slot (not PCI-SIG* compatible) • Integrated baseboard management controller with IPMI 2.0 support • Optional advanced management features activated by Intel® RMM4 Lite • Dedicated 1Gb management port onboard • Support for Intel® I/O Expansion Modules • Support for SAS modules • CPLD v3.2 Support for ADR-on-Reset cold-reset NVDIMM feature <p>Box includes: (1) server board</p> <p>Note: All necessary mounting hardware, cabling, and shielding ship with the chassis and optional accessory kits.</p>		

2.2 Intel® Compute Module HNS2600TP Family

Table 9. Intel® Compute Module HNS2600TPR

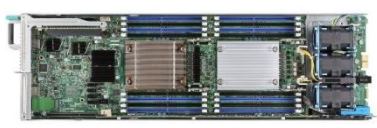
Intel® Compute Module HNS2600TPR			
	iPC MM# UPC EAN MOQ	HNS2600TPR 943948 00735858309295 5032037081887 1	Product type Packaged gross wt. Un-packaged net wt. Dimensions
Included	(1) – Intel® Server Board S2600TPR (1) – Node power board – iPC FH2000NPB2 (1) – 6Gb/s bridge board – iPC FHWKPTPBGB (1) – Slot 1 PCIe* riser card – iPC FHW1U16RISER2 Note: Only low profile PCIe* cards can be installed on the slot 1 riser card. (3) – 40x56 mm dual rotor fan FXX4056DRFAN2 (1) – Front 1U passive heat sink - iPC FXXEA84X106HS (1) – Rear 1U passive heat sink - iPC FXXCA84X106HS (1) – Air duct (1) – 1U node tray Note: Compatible with chassis H2312XXKR2, H2216XXKR2, H2312KKLR2, and H2216XXLR2 only.		

Table 10. Intel® Compute Module HNS2600TPFR

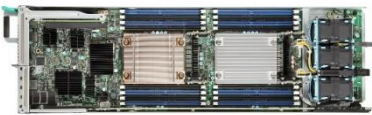
Intel® Compute Module HNS2600TPFR			
	iPC	HNS2600TPFR	Product type
	MM#	943949	Building block/ spare FRU
	UPC	00735858309301	Packaged gross wt.
	EAN	5032037081894	Un-packaged net wt.
	MOQ	1	Dimensions
			6.8" x 18.9"
Included	(1) – Intel® Server Board S2600TPFR (with integrated InfiniBand* technology) (1) – Node power board – iPC FH2000NPB2 (1) – 6Gb/s bridge board – iPC FHWKPTPBGB (1) – Slot 1 PCIe* riser card – iPC FHW1U16RISER2 Note: Only low profile PCIe* cards can be installed on the slot 1 riser card. (3) – 40x56 mm dual rotor fan FXX4056DRFAN2 (1) – Front 1U passive heat sink - iPC FXXEA84X106HS (1) – Rear 1U passive heat sink - iPC FXXCA84X106HS (1) – Air duct (1) – 1U node tray Note: Compatible with chassis H2312XXKR2, H2216XXKR2, H2312KKLR2, and H2216XXLR2 only.		

Table 11. Intel® Compute Module HNS2600TPNR

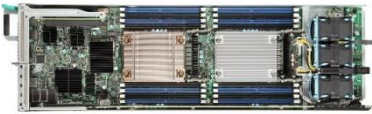

Intel® Compute Module HNS2600TPNR			
	iPC	HNS2600TPNR	Product type
	MM#	955260	Building block/ spare FRU
	UPC	00735858337588	Packaged gross wt.
	EAN	5032037100267	Un-packaged net wt.
	MOQ	1	Dimensions
			6.8" x 18.9"
Included	(1) – Intel® Server Board S2600TPNR (1) – Node power board – iPC FH2000NPB2 (1) – 6Gb/s bridge board – iPC FHWKPTPBGB (1) – Slot 1 PCIe* riser card – iPC FHW1U16RISER2 Note: Only low profile PCIe* cards can be installed on the slot 1 riser card. (3) – 40x56 mm dual rotor fan FXX4056DRFAN2 (1) – Front 1U passive heat sink - iPC FXXEA84X106HS (1) – Rear 1U passive heat sink - iPC FXXCA84X106HS (1) – Air duct (1) – 1U node tray Note: Compatible with chassis H2312XXKR2, H2216XXKR2, H2312KKLR2, and H2216XXLR2 only.		

Table 12. Intel® Compute Module HNS2600TP24R

Intel® Compute Module HNS2600TP24R			
	iPC	HNS2600TP24R	Product type
	MM#	943951	Building block/ spare FRU
	UPC	00735858310178	Packaged gross wt.
	EAN	5032037082624	Un-packaged net wt.
	MOQ	1	Dimensions
			6.8" x 18.9"

Included

- (1) – Intel® Server Board S2600TPR
- (1) – Node power board – iPC FH2000NPB24
- (1) – 12Gb/s bridge board – iPC FHWKTPBGB24
- (1) – Slot 1 PCIe* riser card – iPC FHW1U16RISER2
- Note: Only low profile PCIe* cards can be installed on the slot 1 riser card.
- (3) – 40x56 mm dual rotor fan FXX4056DRFAN2
- (1) – Front 1U passive heat sink - iPC FXXEA84X106HS
- (1) – Rear 1U passive heat sink - iPC FXXCA84X106HS
- (1) – Dual RJ45 port 10GBASE-T I/O module – iPC AXX10GBTWLHW3
- (1) – PCIe* x16 (200 pin) rIOM riser and rIOM carrier board kit –iPC AXXKTPM2IOM
- (1) – Air duct
- (1) – 1U node tray

Note: Compatible with chassis H2224XXKR2 and H2224XXLR2 only.

Table 13. Intel® Compute Module HNS2600TP24SR

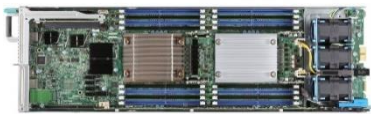
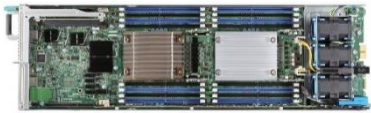
Intel® Compute Module HNS2600TP24SR				
	iPC MM# UPC EAN MOQ	HNS2600TP24SR 945609 00735858310185 5032037082631 1	Product type Packaged gross wt. Un-packaged net wt. Dimensions	Building block/ spare FRU 5.28 kg (11.640 lb) 4.06 kg (8.95 lb) 6.8" x 18.9"
	Included	(1) – Intel® Server Board S2600TPR (1) – Node power board – iPC FH2000NPB24 (1) – 12Gb/s bridge board – iPC FHWKPTPBGB24 (1) – Slot 1 PCIe* riser card – iPC FHW1U16RISER2 Note: Only low profile PCIe* cards can be installed on the slot 1 riser card. (3) – 40x56 mm dual rotor fan FXX4056DRFAN2 (1) – Front 1U passive heat sink - iPC FXXEA84X106HS (1) – Rear 1U passive heat sink - iPC FXXCA84X106HS (1) – Dual SPF+ port 10GBASE-T I/O module - iPC AXX10GBNIAIOM (1) – PCIe* x16 (200 pin) rIOM riser and rIOM carrier board kit –iPC AXXKPTPM2IOM (1) – Air duct (1) – 1U node tray Note: Compatible with chassis H2224XXKR2 and H2224XXLR2 only.		

Table 14. Intel® Compute Module HNS2600TP24STR

Intel® Compute Module HNS2600TP24STR				
	iPC MM# UPC EAN MOQ	HNS2600TP24STR 953190 00735858327312 5032037093705 1	Product type Packaged gross wt. Un-packaged net wt. Dimensions	Building block/ spare FRU 5.28 kg (11.640 lb) 4.06 kg (8.95 lb) 6.8" x 18.9"
	Included	(1) – Intel® Server Board S2600TPTR (with integrated TPM 2.0 chip) (1) – Node power board – iPC FH2000NPB24 (1) – 12Gb/s bridge board – iPC FHWKPTPBGB24 (1) – Slot 1 PCIe* riser card – iPC FHW1U16RISER2 Note: Only low profile PCIe* cards can be installed on the slot 1 riser card. (3) – 40x56 mm dual rotor fan FXX4056DRFAN2 (1) – Front 1U passive heat sink - iPC FXXEA84X106HS (1) – Rear 1U passive heat sink - iPC FXXCA84X106HS (1) – Dual SPF+ port 10GBASE-T I/O module - iPC AXX10GBNIAIOM (1) – PCIe* x16 (200 pin) rIOM riser and rIOM carrier board kit –iPC AXXKPTPM2IOM (1) – Air duct (1) – 1U node tray Note: Compatible with chassis H2224XXKR2 and H2224XXLR2 only.		

2.3 Intel® Server Chassis H2000G Family

The product tables in this section provide order code information and detailed descriptions for each available Intel® Server Chassis building block option. The lower rows of the table identify:

- Included components shipped with the specified chassis.
- Required items which include hardware necessary to achieve basic functionality using the default system feature set.
- Optional accessories which include some of the accessories available to enhance the basic feature set of the server board or chassis. Find additional accessories in section 3.

In an effort to provide the complete product bill of materials, the lists of included components contain items identified by Intel Part Number (iPN). The iPN information is provided for reference only; these components are not orderable as spares or accessories. Items identified by Intel Product Code (iPC) are orderable building blocks, accessories, or spares.

Table 15. Intel® Server Chassis H2312XXKR2


Intel® Server Chassis H2312XXKR2																									
	<table border="0"> <tr> <td>iPC</td> <td>H2312XXKR2</td> <td>Product type</td> <td>Chassis only</td> </tr> <tr> <td>MM#</td> <td>933689</td> <td>Chassis form factor</td> <td>2U rack mount</td> </tr> <tr> <td>UPC</td> <td>00735858288347</td> <td>Packaged gross wt.</td> <td>28.32 kg (62.434 lb)</td> </tr> <tr> <td>EAN</td> <td>5032037067669</td> <td>Un-packaged net wt.</td> <td>19.97 kg (44.026 lb)</td> </tr> <tr> <td>MOQ</td> <td>1</td> <td>Chassis dimensions</td> <td>771 x 438 x 86.9 mm</td> </tr> <tr> <td></td> <td></td> <td>Package dimensions</td> <td>983 x 577 x 260 mm</td> </tr> </table>	iPC	H2312XXKR2	Product type	Chassis only	MM#	933689	Chassis form factor	2U rack mount	UPC	00735858288347	Packaged gross wt.	28.32 kg (62.434 lb)	EAN	5032037067669	Un-packaged net wt.	19.97 kg (44.026 lb)	MOQ	1	Chassis dimensions	771 x 438 x 86.9 mm			Package dimensions	983 x 577 x 260 mm
iPC	H2312XXKR2	Product type	Chassis only																						
MM#	933689	Chassis form factor	2U rack mount																						
UPC	00735858288347	Packaged gross wt.	28.32 kg (62.434 lb)																						
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MOQ	1	Chassis dimensions	771 x 438 x 86.9 mm																						
		Package dimensions	983 x 577 x 260 mm																						
<p>Included</p>	<p>(1) – 2U chassis with quick reference label affixed to top cover (1) – Pre-installed standard control panel assembly (board only) – iPC FH2000FPANEL2 (1) – Power distribution board – iPC FXXCPRSPDB2 (2) – 1600 W 80 PLUS* Platinum power supply units – iPC FXX1600PCRPS (4) – 3.5" hot-swap drive bays with drive carriers and drive blanks, includes: (1) – 12 Gb SAS/SATA backplane – iPC FHW12X35HS12G (12) – 3.5" hot swap drive carriers – iPC FXX35HSCAR (4) – Blank node fillers (1) – Basic rack rail – iPC AXXELVRAIL Note: The rail kit only supports specific rack type with 3/8" square and 7.1 mm round holes. (1) – Power supply bay blank insert (8) – DIMM slot blanks – iPN H43597-00x (2) – Chassis handles (1 set) installed – iPN H19171-00x (2) – AC power cord retention strap assembly – iPN H23961-00x Server board and riser card mounting screws Spares for each screw type</p>																								
<p>Required items (sold separately)</p>	<ul style="list-style-type: none"> • Intel® Compute Module HNS2600TP (choose one) <ul style="list-style-type: none"> ○ HNS2600TPR ○ HNS2600TPFR – with integrated InfiniBand* technology • Power cord(s) – See section 4 <p>Note: Chassis shipped to the US and Canada contain North American power cords.</p> <ul style="list-style-type: none"> • (1) or (2) Intel® Xeon® Processor E5-2600 v4 product family • ECC DDR4 memory (RDIMM or LRDIMM) 																								
<p>Optional accessories (sold separately)</p>	<ul style="list-style-type: none"> • One x16 PCIe* 3.0 slot riser card (one for each riser slot) – iPC FHW1U16RISER2 • Intel® I/O Expansion Modules – See section 3.2 for options • Intel® RAID Modules – See section 3.4 for options • Lockable front system bezel – iPC A2UBEZEL • Intel® RMM4 Lite for advanced management features – iPC AXXRMM4LITE • Storage drives 																								

Table 16. Intel® Server Chassis H2216XXKR2


Intel® Server Chassis H2216XXKR2			
	<p>iPC H2216XXKR2 MM# 933688 UPC 00735858288354 EAN 5032037067676 MOQ 1</p>	<p>Product type Chassis only Chassis form factor 2U rack mount Packaged gross wt. 29.12 kg (64.198 lb) Un-packaged net wt. 19.54 kg (43.078 lb) Chassis dimensions 733 x 438 x 86.9 mm Package dimensions 984 x 578 x 266 mm</p>	
Included	<p>(1) – 2U chassis with quick reference label affixed to top cover (1) – Pre-installed standard control panel assembly (board only) – iPC FH2000FPANEL2 (1) – Power distribution board – iPC FXXCRRPSPDB2 (2) – 1600 W 80 PLUS* Platinum power supply units – iPC FXX1600PCRPS (4) – 2.5" hot-swap drive bays with drive carriers and drive blanks, includes: (1) – 12 Gb SAS/SATA backplane – iPC FHW16X25HS12G (16) – 2.5" hot swap drive carriers – iPC FXX25HSCAR2 (4) – Blank node fillers (1) – Basic rack rail – iPC AXXELVRAIL Note: The rail kit only supports specific rack type with 3/8" square and 7.1 mm round holes. (1) – Power supply bay blank insert (8) – DIMM slot blanks – iPN H43597-00x (2) – Chassis handles (1 set) installed – iPN H19171-00x (2) – AC power cord retention strap assembly – iPN H23961-00x Server board and riser card mounting screws Spares for each screw type</p>		
Required items (sold separately)	<ul style="list-style-type: none"> • Intel® Compute Module HNS2600TP (choose one) <ul style="list-style-type: none"> ○ HNS2600TPR ○ HNS2600TPFR – with integrated InfiniBand* technology • Power cord(s) – See section 4 <p>Note: Chassis shipped to the US and Canada contain North American power cords.</p> <ul style="list-style-type: none"> • (1) or (2) Intel® Xeon® Processor E5-2600 v4 product family • ECC DDR4 memory (RDIMM or LRDIMM) 		
Optional accessories (sold separately)	<ul style="list-style-type: none"> • One x16 PCIe* 3.0 slot riser card (one for each riser slot) – iPC FHW1U16RISER2 • Intel® I/O Expansion Modules – See section 3.2 for options • Intel® RAID Modules – See section 3.4 for options • Lockable front system bezel – iPC A2UBEZEL • Intel® RMM4 Lite for advanced management features – iPC AXXRMM4LITE • Storage drives 		

Table 17. Intel® Server Chassis H2224XXKR2


Intel® Server Chassis H2224XXKR2																									
	<table border="0"> <tr> <td>iPC</td> <td>H2224XXKR2</td> <td>Product type</td> <td>Chassis only</td> </tr> <tr> <td>MM#</td> <td>943478</td> <td>Chassis form factor</td> <td>2U rack mount</td> </tr> <tr> <td>UPC</td> <td>00735858302630</td> <td>Packaged gross wt.</td> <td>28.86 kg (63.625 lb)</td> </tr> <tr> <td>EAN</td> <td>5032037077422</td> <td>Un-packaged net wt.</td> <td>20.64 kg (45.503 lb)</td> </tr> <tr> <td>MOQ</td> <td>1</td> <td>Chassis dimensions</td> <td>733 x 438 x 86.9 mm</td> </tr> <tr> <td></td> <td></td> <td>Package dimensions</td> <td>983 x 577 x 266 mm</td> </tr> </table>	iPC	H2224XXKR2	Product type	Chassis only	MM#	943478	Chassis form factor	2U rack mount	UPC	00735858302630	Packaged gross wt.	28.86 kg (63.625 lb)	EAN	5032037077422	Un-packaged net wt.	20.64 kg (45.503 lb)	MOQ	1	Chassis dimensions	733 x 438 x 86.9 mm			Package dimensions	983 x 577 x 266 mm
iPC	H2224XXKR2	Product type	Chassis only																						
MM#	943478	Chassis form factor	2U rack mount																						
UPC	00735858302630	Packaged gross wt.	28.86 kg (63.625 lb)																						
EAN	5032037077422	Un-packaged net wt.	20.64 kg (45.503 lb)																						
MOQ	1	Chassis dimensions	733 x 438 x 86.9 mm																						
		Package dimensions	983 x 577 x 266 mm																						
Included	<p>(1) – 2U chassis with quick reference label affixed to top cover (1) – Pre-installed standard control panel assembly (board only) – iPC FH2000FPANEL2 (1) – Power distribution board – iPC FXXCPRSPDB2 (2) – 1600 W 80 PLUS* Platinum power supply units – iPC FXX1600PCRPS (4) – 2.5" hot-swap drive bays with drive carriers and drive blanks, includes: (1) – 12 Gb SAS/SATA backplane – iPC FHW16X25HS12G (24) – 2.5" hot swap drive carriers – iPC FXX25HSCAR2 (4) – Blank node fillers (1) – Basic rack rail – iPC AXXELVRAIL Note: The rail kit only supports specific rack type with 3/8" square and 7.1 mm round holes. (1) – Power supply bay blank insert (8) – DIMM slot blanks – iPN H43597-00x (2) – Chassis handles (1 set) installed – iPN H19171-00x (2) – AC power cord retention strap assembly – iPN H23961-00x Server board and riser card mounting screws Spares for each screw type</p>																								
Required items (sold separately)	<ul style="list-style-type: none"> • Intel® Compute Module HNS2600TP (choose one) <ul style="list-style-type: none"> ○ HNS2600TP24R – with dual port Intel® X540 10GbE I/O Module (RJ45) ○ HNS2600TP24SR – with dual port Intel® 82599 10GbE I/O Module (SPF+) ○ HNS2600TP24STR – with dual port Intel® 82599 10GbE I/O Module (SPF+) and integrated TPM 2.0 chip • Power cord(s) – See section 4 <p>Note: Chassis shipped to the US and Canada contain North American power cords.</p> <ul style="list-style-type: none"> • (1) or (2) Intel® Xeon® Processor E5-2600 v4 product family • ECC DDR4 memory (RDIMM or LRDIMM) 																								
Optional accessories (sold separately)	<ul style="list-style-type: none"> • One x16 PCIe* 3.0 slot riser card (one for each riser slot) – iPC FHW1U16RISER2 • Intel® I/O Expansion Modules – See section 3.2 for options • Intel® RAID Modules – See section 3.4 for options • Lockable front system bezel – iPC A2UBEZEL • Intel® RMM4 Lite for advanced management features – iPC AXXRMM4LITE • Storage drives 																								

Table 18. Intel® Server Chassis H2312XXLR2


Intel® Server Chassis H2312XXLR2			
	<p>iPC H2312XXLR2 MM# 942352 UPC 00735858316729 EAN 5032037086981 MOQ 1</p>	<p>Product type Chassis only Chassis form factor 2U rack mount Packaged gross wt. 29.5 kg (65.036 lb) Un-packaged net wt. 21.5 kg (47.399 lb) Chassis dimensions 771 x 438 x 86.9 mm Package dimensions 983 x 577 x 260 mm</p>	
Included	<p>(1) – 2U chassis with quick reference label affixed to top cover (1) – Pre-installed standard control panel assembly (board only) – iPC FH2000FPANEL2 (1) – Power distribution board – iPC FXXCRPSPDB2 (2) – 2130 W 80 PLUS* Platinum power supply units – iPC FXX2130PCRPS (4) – 3.5" hot-swap drive bays with drive carriers and drive blanks, includes: (1) – 12 Gb SAS/SATA backplane – iPC FHW12X35HS12G (12) – 3.5" hot swap drive carriers – iPC FXX35HSCAR (4) – Blank node fillers (1) – Basic rack rail – iPC AXXELVRAIL Note: The rail kit only supports specific rack type with 3/8" square and 7.1 mm round holes. (1) – Power supply bay blank insert (8) – DIMM slot blanks – iPN H43597-00x (2) – Chassis handles (1 set) installed – iPN H19171-00x (2) – AC power cord retention strap assembly – iPN H23961-00x Server board and riser card mounting screws Spares for each screw type</p>		
Required items (sold separately)	<ul style="list-style-type: none"> • Intel® Compute Module HNS2600TP (choose one) <ul style="list-style-type: none"> ○ HNS2600TPR ○ HNS2600TPFR – with integrated InfiniBand* technology • Power cord(s) – See section 4 <p>Note: Chassis shipped to the US and Canada contain North American power cords.</p> <ul style="list-style-type: none"> • (1) or (2) Intel® Xeon® Processor E5-2600 v4 product family • ECC DDR4 memory (RDIMM or LRDIMM) 		
Optional accessories (sold separately)	<ul style="list-style-type: none"> • One x16 PCIe* 3.0 slot riser card (one for each riser slot) – iPC FHW1U16RISER2 • Intel® I/O Expansion Modules – See section 3.2 for options • Intel® RAID Modules – See section 3.4 for options • Lockable front system bezel – iPC A2UBEZEL • Intel® RMM4 Lite for advanced management features – iPC AXXRMM4LITE • Storage drives 		

Table 19. Intel® Server Chassis H2216XXLR2



Intel® Server Chassis H2216XXLR2																									
	<table border="0"> <tr> <td>iPC</td> <td>H2216XXLR2</td> <td>Product type</td> <td>Chassis only</td> </tr> <tr> <td>MM#</td> <td>942353</td> <td>Chassis form factor</td> <td>2U rack mount</td> </tr> <tr> <td>UPC</td> <td>00735858316736</td> <td>Packaged gross wt.</td> <td>28.4 kg (62.611 lb)</td> </tr> <tr> <td>EAN</td> <td>5032037086998</td> <td>Un-packaged net wt.</td> <td>20.5 kg (45.194 lb)</td> </tr> <tr> <td>MOQ</td> <td>1</td> <td>Chassis dimensions</td> <td>733 x 438 x 86.9 mm</td> </tr> <tr> <td></td> <td></td> <td>Package dimensions</td> <td>983 x 577 x 260 mm</td> </tr> </table>	iPC	H2216XXLR2	Product type	Chassis only	MM#	942353	Chassis form factor	2U rack mount	UPC	00735858316736	Packaged gross wt.	28.4 kg (62.611 lb)	EAN	5032037086998	Un-packaged net wt.	20.5 kg (45.194 lb)	MOQ	1	Chassis dimensions	733 x 438 x 86.9 mm			Package dimensions	983 x 577 x 260 mm
iPC	H2216XXLR2	Product type	Chassis only																						
MM#	942353	Chassis form factor	2U rack mount																						
UPC	00735858316736	Packaged gross wt.	28.4 kg (62.611 lb)																						
EAN	5032037086998	Un-packaged net wt.	20.5 kg (45.194 lb)																						
MOQ	1	Chassis dimensions	733 x 438 x 86.9 mm																						
		Package dimensions	983 x 577 x 260 mm																						
Included	<p>(1) – 2U chassis with quick reference label affixed to top cover (1) – Pre-installed standard control panel assembly (board only) – iPC FH2000FPANEL2 (1) – Power distribution board – iPC FXXCRPSPDB2 (2) – 2130 W 80 PLUS* Platinum power supply units – iPC FXX2130PCRPS (4) – 3.5" hot-swap drive bays with drive carriers and drive blanks, includes: (1) – 12 Gb SAS/SATA backplane – iPC FHW16X25HS12G (16) – 2.5" hot swap drive carriers – iPC FXX25HSCAR2 (4) – Blank node fillers (1) – Basic rack rail – iPC AXXELVRAIL Note: The rail kit only supports specific rack type with 3/8" square and 7.1 mm round holes. (1) – Power supply bay blank insert (8) – DIMM slot blanks – iPN H43597-00x (2) – Chassis handles (1 set) installed – iPN H19171-00x (2) – AC power cord retention strap assembly – iPN H23961-00x Server board and riser card mounting screws Spares for each screw type</p>																								
Required items (sold separately)	<ul style="list-style-type: none"> • Intel® Compute Module HNS2600TP (choose one) <ul style="list-style-type: none"> ○ HNS2600TPR ○ HNS2600TPFR – with integrated InfiniBand* technology • Power cord(s) – See section 4 <p>Note: Chassis shipped to the US and Canada contain North American power cords.</p> <ul style="list-style-type: none"> • (1) or (2) Intel® Xeon® Processor E5-2600 v4 product family • ECC DDR4 memory (RDIMM or LRDIMM) 																								
Optional accessories (sold separately)	<ul style="list-style-type: none"> • One x16 PCIe* 3.0 slot riser card (one for each riser slot) – iPC FHW1U16RISER2 • Intel® I/O Expansion Modules – See section 3.2 for options • Intel® RAID Modules – See section 3.4 for options • Lockable front system bezel – iPC A2UBEZEL • Intel® RMM4 Lite for advanced management features – iPC AXXRMM4LITE • Storage drives 																								

Table 20. Intel® Server Chassis H2224XXLR2


Intel® Server Chassis H2224XXLR2																									
	<table border="0"> <tr> <td>iPC</td> <td>H2224XXLR2</td> <td>Product type</td> <td>Chassis only</td> </tr> <tr> <td>MM#</td> <td>943577</td> <td>Chassis form factor</td> <td>2U rack mount</td> </tr> <tr> <td>UPC</td> <td>00735858309004</td> <td>Packaged gross wt.</td> <td>28.86 kg (63.625 lb)</td> </tr> <tr> <td>EAN</td> <td>5032037081757</td> <td>Un-packaged net wt.</td> <td>20.64 kg (45.503 lb)</td> </tr> <tr> <td>MOQ</td> <td>1</td> <td>Chassis dimensions</td> <td>733 x 438 x 86.9 mm</td> </tr> <tr> <td></td> <td></td> <td>Package dimensions</td> <td>983 x 577 x 266 mm</td> </tr> </table>	iPC	H2224XXLR2	Product type	Chassis only	MM#	943577	Chassis form factor	2U rack mount	UPC	00735858309004	Packaged gross wt.	28.86 kg (63.625 lb)	EAN	5032037081757	Un-packaged net wt.	20.64 kg (45.503 lb)	MOQ	1	Chassis dimensions	733 x 438 x 86.9 mm			Package dimensions	983 x 577 x 266 mm
iPC	H2224XXLR2	Product type	Chassis only																						
MM#	943577	Chassis form factor	2U rack mount																						
UPC	00735858309004	Packaged gross wt.	28.86 kg (63.625 lb)																						
EAN	5032037081757	Un-packaged net wt.	20.64 kg (45.503 lb)																						
MOQ	1	Chassis dimensions	733 x 438 x 86.9 mm																						
		Package dimensions	983 x 577 x 266 mm																						
Included	<p>(1) – 2U chassis with quick reference label affixed to top cover (1) – Pre-installed standard control panel assembly (board only) – iPC FH2000FPANEL2 (1) – Power distribution board – iPC FXXCPRSPDB2 (2) – 2130 W 80 PLUS* Platinum power supply units – iPC FXX2130PCRPS (4) – 2.5" hot-swap drive bays with drive carriers and drive blanks, includes: (1) – 12 Gb SAS/SATA backplane – iPC FHW16X25HS12G (24) – 2.5" hot swap drive carriers – iPC FXX25HSCAR2 (4) – Blank node fillers (1) – Basic rack rail – iPC AXXELVRAIL Note: The rail kit only supports specific rack type with 3/8" square and 7.1 mm round holes. (1) – Power supply bay blank insert (8) – DIMM slot blanks – iPN H43597-00x (2) – Chassis handles (1 set) installed – iPN H19171-00x (2) – AC power cord retention strap assembly – iPN H23961-00x Server board and riser card mounting screws Spares for each screw type</p>																								
Required items (sold separately)	<ul style="list-style-type: none"> • Intel® Compute Module HNS2600TP (choose one) <ul style="list-style-type: none"> ○ HNS2600TP24R – with dual port Intel® X540 10GbE I/O Module (RJ45) ○ HNS2600TP24SR – with dual port Intel® 82599 10GbE I/O Module (SPF+) ○ HNS2600TP24STR – with dual port Intel® 82599 10GbE I/O Module (SPF+) and integrated TPM 2.0 chip • Power cord(s) – See section 4 <p>Note: Chassis shipped to the US and Canada contain North American power cords.</p> <ul style="list-style-type: none"> • (1) or (2) Intel® Xeon® Processor E5-2600 v4 product family • ECC DDR4 memory (RDIMM or LRDIMM) 																								
Optional accessories (sold separately)	<ul style="list-style-type: none"> • One x16 PCIe* 3.0 slot riser card (one for each riser slot) – iPC FHW1U16RISER2 • Intel® I/O Expansion Modules – See section 3.2 for options • Intel® RAID Modules – See section 3.4 for options • Lockable front system bezel – iPC A2UBEZEL • Intel® RMM4 Lite for advanced management features – iPC AXXRMM4LITE • Storage drives 																								

3. Server System Configuration Accessories and Upgrades

3.1 Locking Front Bezel Accessory Kit

The locking front bezel is designed for maximum airflow to maintain system cooling requirements. The bezel includes a keyed locking mechanism which can be used to prevent unauthorized access to installed storage devices and front I/O ports.

Table 21. Front bezel accessory kits

Product Image	Details	Description
	<p>2U Bezel A2UBEZEL</p> <p>iPC A2UBEZEL MM# 918086 UPC 735858241137 EAN 5032037035880 MOQ 1</p> <p>Product type Accessory kit</p>	<p>Snap-on bezel made of black molded plastic for 2U rack chassis. Includes two snap-on badges and snap-on swoosh for branding.</p>

3.1.1 Front Bezel Installation Instructions

To install the front bezel, lock the right side of the bezel to the rack handle (A) and press the left side of the bezel towards the chassis until it clicks into place (B) as pictured in Figure 3.

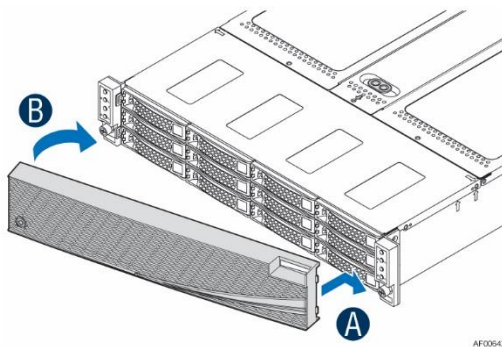


Figure 3. Installing front bezel to chassis

To mount the snap-on badge to the bezel, insert the badge hooks into the bezel and press to snap in place.

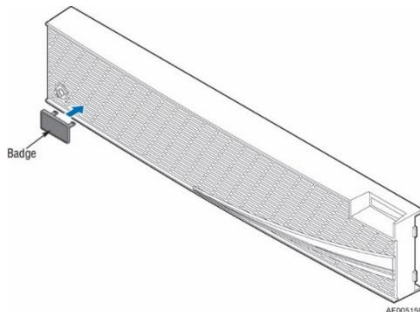





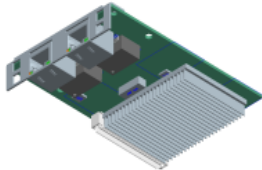
Figure 4. Installing snap-in branding badges to front bezel






3.2 Intel® I/O Expansion Modules



The Intel® Server S2600TP Family supports a number of optional Intel® I/O Expansion Modules that install using proprietary connectors on the server board and leaving available PCIe* add-in card slots available for other add-in card options.

Note: Intel® I/O Expansion Modules require AXXKPTPIOM or AXXKPTPM2IOM carrier boards for installation. The production compute modules and chassis configurations do not include rIOM carrier boards.

Table 22. Intel® I/O Expansion Modules

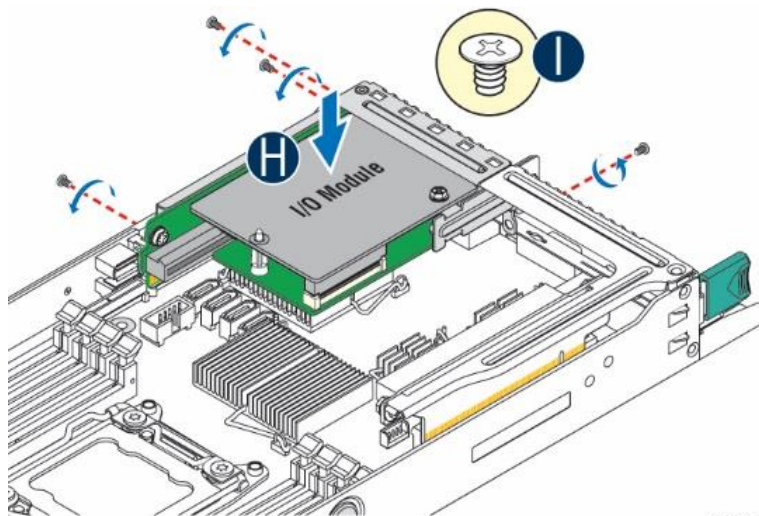
Product Image	Details	Description
	<p>1U PCIe* rIOM Riser and rIOM Carrier Board Kit AXXKPTPIOM</p> <p>iPC AXXKPTPIOM MM# 935524 UPC 735858288385 EAN 5032037067706 MOQ 1</p> <p>Product type Accessory kit</p>	<p>1x16 PCIe* (200 pin) rIOM riser and rIOM carrier board kit supporting an Intel® I/O Expansion Module on Slot 2 of the Intel® Compute Module HNS2600TP Product Family.</p> <p>Note: A rIOM carrier board is required for Intel® I/O Expansion Module installation.</p>
	<p>1U PCIe* rIOM Riser and rIOM Carrier Board with M.2 Support Kit AXXKPTPM2IOM</p> <p>iPC AXXKPTPM2IOM MM# 943483 UPC 73585830272015 EAN 5032037077491 MOQ 1</p> <p>Product type Accessory kit</p>	<p>1x16 PCIe* (200 pin) rIOM riser and rIOM carrier board kit supporting one SATA 80 mm M.2 device and one Intel® I/O Expansion Module on Slot 2 of the Intel® Compute Module HNS2600TPR, HNS2600TP24R, HNS2600TP24SR, and HNS2600TP24STR. Includes one SATA cable.</p> <p>Note: Intel® Compute Modules HNS2600TP24R, HNS2600TP24SR, and HNS2600TP24STR include AXXKPTPM2IOM by default.</p> <p>Note: A rIOM carrier board is required for Intel® I/O Expansion Module installation.</p>
	<p>Dual Port Intel® 82599EB 10GbE I/O Module AXX10GBNIAIOM</p> <p>iPC AXX10GBNIAIOM MM# 917905 UPC 735858241090 EAN 5032037035842 MOQ 1</p> <p>Product type Accessory kit</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>
	<p>Dual RJ45 port 10GBASE-T I/O Module AXX10GBTWLHW3</p> <p>iPC AXX10GBTWLHW3 MM# 941868 UPC 735858296649 EAN 5032037072465 MOQ 1</p> <p>Product type Accessory kit</p>	<p>Dual RJ45 port 10GBASE-T I/O module, based on Intel® Ethernet Controller X540.</p>

Product Image	Details	Description
	<p>FDR InfiniBand* ConnectX-3* I/O Module AXX1FDRIBIOM</p> <p>iPC AXX1FDRIBIOM MM# 918607 UPC 735858241106 EAN 5032037035859 MOQ 1</p> <p>Product type Accessory kit</p>	<p>Single port, FDR 56GT/S speed InfiniBand* Intel® I/O Expansion Module, with QSFP connector, based on Mellanox* CX3 MT27504A1-FCCR-FV chip.</p> <p>Includes three screws.</p>
 	<p>FDR InfiniBand* ConnectX-3* I/O Module AXX2FDRIBIOM</p> <p>iPC AXX2FDRIBIOM MM# 920627 UPC 735858245722 EAN 5032037040235 MOQ 1</p> <p>Product type Accessory kit</p> <p>Quad Port Intel® I350-AE4 GbE I/O Module AXX4P1GBPWL IOM</p> <p>iPC AXX4P1GBPWL IOM MM# 917911 UPC 735858241083 EAN 5032037035835 MOQ 1</p> <p>Product type Accessory kit</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>Note: Due to PCIe* 3.0 x8 bandwidth limitation, both ports cannot simultaneously function at full speed.</p> <p>Quad-port 1GbE IO Module based on Intel® Ethernet Controller I350.</p> <p>Includes three screws.</p>
	<p>Ethernet I/O Module XL710-QDA1 AXX1P40FRTIOM</p> <p>iPC AXX1P40FRTIOM MM# 933742 UPC 735858282291 EAN 5032037063623 MOQ 1</p> <p>Product type Accessory kit</p>	<p>Single-port 40 Gpbs QSFP+ Ethernet Intel® I/O Expansion Module based on 10 Gpbs Intel® Ethernet Controller XL710-BM2.</p> <p>Includes EMI shield and three screws.</p> <p>For a list of compatible QSFP+ modules and cables, visit: http://www.intel.com/content/www/us/en/support/network-and-i-o/ethernet-products/000006051.html.</p>
	<p>Ethernet I/O Module XL710-QDA2 AXX2P40FRTIOM</p> <p>iPC AXX2P40FRTIOM MM# 933743 UPC 735858282314 EAN 5032037063647 MOQ 1</p> <p>Product type Accessory kit</p>	<p>Dual-port 40 Gpbs QSFP+ Ethernet Intel® I/O Expansion Module based on 10 Gpbs Intel® Ethernet Controller XL710-BM2.</p> <p>Includes EMI shield and three screws.</p> <p>For a list of compatible QSFP+ modules and cables, visit: http://www.intel.com/content/www/us/en/support/network-and-i-o/ethernet-products/000006051.html.</p> <p>Note: The 4x 10 GbE SFP+ breakout is supported by Port #0 only.</p>

Product Image	Details	Description
	<p>Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port Low Profile PCIe* x8</p> <p>iPC 100HFA018LS MM# 945670 UPC 735858313452 EAN 5032037084987 MOQ 1</p> <p>Product type Accessory kit</p>	<p>Intel® Omni-Path Architecture (Intel® OPA) single-port PCIe* x8 adapter, low profile and standard height brackets, FDR 58 Gpbs.</p> <p>Supports QSFP28 passive copper only. Please refer to the Intel® Omni-Path cables matrix at http://www.intel.com/content/www/us/en/high-performance-computing-fabrics/omni-path-cables.html.</p> <p>Note: Supported in riser slot 1 only.</p> <p>Note: Multiple Intel® Omni-Path Host Fabric Interface adapters (100HFA018LS or 100HFA016LS) in one system is not supported.</p>
	<p>Intel® Omni-Path Host Fabric Interface Adapter 100 Series 1 Port Low Profile PCIe* x16</p> <p>iPC 100HFA016LS MM# 948159 UPC 735858313445 EAN 5032037084970 MOQ 1</p> <p>Product type Accessory kit</p>	<p>Intel® Omni-Path Architecture (Intel® OPA) single-port PCIe* x16 adapter, low profile and standard height brackets, FDR 100 Gpbs.</p> <p>Supports QSFP28 passive copper only. Please refer to the Intel® Omni-Path cables matrix at http://www.intel.com/content/www/us/en/high-performance-computing-fabrics/omni-path-cables.html.</p> <p>Note: Supported in riser slot 1 only.</p> <p>Note: Multiple Intel® Omni-Path Host Fabric Interface adapters (100HFA018LS or 100HFA016LS) in one system is not supported.</p>

3.2.1 Intel® I/O Expansion Modules Installation Instructions

To install an Intel® I/O Expansion Module, insert the module (H) into the pre-installed AXXKPTPIOM or AXXKPTP2IOM carrier board. Then secure the module using the three mounting screws (I) as pictured in Figure 5.



AF008712

Figure 5. Intel® I/O Expansion Module installation

3.3 SAS Bridge Board Upgrade Kits

Table 23. SAS bridge board upgrade kits and spares

Product Image	Details	Description
	<p>Spare 12Gb SAS Bridge Board AHWKPTP12GBGBIT (SAS without RAID)</p> <p>iPC AHWKPTP12GBGBIT MM# 949475 UPC 735858316248 EAN 5032037086851 MOQ 1</p> <p>Product type Upgrade kit</p>	<p>12Gb SAS bridge board (no RAID) for Intel® Compute Module HNS2600TP Product Family.</p> <p>Note: Only supported in dual processor configurations.</p>
	<p>Spare 12Gb SAS Bridge Board AHWKPTP12GBGB</p> <p>iPC AHWKPTP12GBGB MM# 935580 UPC 735858288484 EAN 5032037067805 MOQ 1</p> <p>Product type Upgrade kit</p>	<p>12Gb SAS bridge board (RAID 0/1/10) for Intel® Compute Module HNS2600TP Product Family.</p> <p>Note: 12Gb/s LSI* SAS3008 is included on the bridge board, RAID firmware is based on MegaRAID*. Only supported in dual processor configurations.</p>
	<p>Spare 12Gb SAS Bridge Board AHWKPTP12GBGBR5 (with RAID 5)</p> <p>iPC AHWKPTP12GBGBR5 MM# 937453 UPC 735858288903 EAN 5032037068185 MOQ 1</p> <p>Product type Upgrade kit</p>	<p>12Gb SAS bridge board (RAID 0/1/10/5) for Intel® Compute Module HNS2600TP Product Family.</p> <p>Note: 12Gb/s LSI* SAS3008 is included on the bridge board, RAID firmware is based on MegaRAID*. Only supported in dual processor configurations.</p>
 	<p>6Gb Bridge Board Spare FHWKPTPBGB</p> <p>iPC FHWKPTPBGB MM# 935575 UPC 735858288422 EAN 5032037067744 MOQ 1</p> <p>Product type Spare FRU</p> <p>12Gb Bridge Board Spare FHWKPTPBGB24</p> <p>iPC FHWKPTPBGB24 MM# 943482 UPC 735858302708 EAN 5032037077484 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare 6Gb/s SATA bridge board for Intel® Compute Module HNS2600TPR and HNS2600TPFR.</p> <p>Spare 12Gb/s SAS/PCIe* SFF combo bridge board for Intel® Compute Module HNS2600TP24R, HNS2600TP24SR, and HNS2600TP24STR.</p> <p>Note: 12Gb/s SAS chip 3008 (IT mode) is included. Supports SAS pass through mode only, no RAID support. Only supported in dual processor configuration.</p>

3.4 Intel® RAID Add-in Cards, Modules, 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® Server S2600TP Family includes support for the latest generation of 12Gb/s SAS Intel® RAID add-in cards, modules, expanders, and accessories. Previous 6 Gb/s Intel RAID cards are also supported. See the published tested hardware and OS list for a full list of validated Intel RAID cards.

For additional information on Intel RAID products, refer to [Intel® Integrated RAID Module RMS3 Product Family Product Brief](#) and [Intel® RAID Family Brochure](#).

Table 24. Intel® RAID Controller add-in cards







Product Image	Details	Description
	<p>Intel® RAID Controller RS3GC008</p> <p>iPC RS3GC008 MM# 928220 UPC 735858267175 EAN 5032037053839 MOQ 5</p> <p>Product type Accessory kit</p>	<p>Intel® RAID Controller RS3GC008 for Intel® Compute Module HNS2600TP Product Family.</p> <ul style="list-style-type: none"> • Low profile, half length, (MD2 compliant) PCIe* add-in card • Entry level SAS card • (8) external SAS / SATA ports (12Gb/s SAS, 6Gb/s SATA) • LSI* SAS3008 IOC • RAID levels – JBOD (SAS connectivity) <p>Note: SAS data cables are not included and must be purchased separately.</p>
	<p>Intel® RAID Controller RS3SC008</p> <p>iPC RS3SC008 MM# 928223 UPC 735858266956 EAN 5032037068567 MOQ 5</p> <p>Product type Accessory kit</p>	<p>Intel® RAID Controller RS3GC008 for Intel® Compute Module HNS2600TP Product Family.</p> <ul style="list-style-type: none"> • Low profile, half length, (MD2 compliant) PCIe* add-in card • (8) external SAS / SATA ports (12Gb/s SAS, 6Gb/s SATA) • LSI* SAS3108 ROC • RAID levels – 0, 1, 5, 6, 10, 50, and 60 • Embedded 1GB DDR3 cache memory • Supports Intel® RAID Maintenance Free Backup AXRMFBU4 <p>Note: SAS data cables are not included and must be purchased separately.</p>
	<p>Intel® RAID Controller RS25SB008</p> <p>iPC RS25SB008 MM# 934614 UPC 735858228633 EAN 5032037023443 MOQ 5</p> <p>Product type Accessory kit</p>	<p>Intel® RAID Controller RS25SB008 for Intel® Compute Module HNS2600TP Product Family.</p> <ul style="list-style-type: none"> • Low profile, half length, (MD2 compliant) PCIe* add-in card • (8) external SAS / SATA ports (6Gb/s) • LSI* SAS2208 I/O ROC • RAID levels – 0, 1, 5, 6, 10, 50, and 60 • Embedded 1GB DDR3 cache memory • Include Intel® RAID Maintenance Free Backup Unit (RMFBU) <p>Note: SAS data cables are not included and must be purchased separately.</p>

Table 25. Intel® RAID accessories



Product Image	Details	Description
	<p>Intel® RAID C600 Upgrade Key RKSATA4R5</p> <p>iPC RKSATA4R5 MM# 916346 UPC 735858238861 EAN 5032037033640 MOQ 5</p> <p>Product type Accessory kit</p>	<p>RAID activation key for Intel® Compute Module HNS2600TP Product Family, black.</p> <p>Activates Intel® Rapid Storage Technology enterprise (Intel® RSTe) RAID 5 to the four internal SATA ports (board-only customers) and Intel® ESRT2 RAID 5.</p>
	<p>Intel® RAID Drive Encryption Management</p> <p>iPC AXRPFKDE2 MM# 915317 UPC 73585822201474 EAN 5032037051705 MOQ 5</p> <p>Product type Accessory kit</p>	<p>Upgrade key to enable drive encryption management for Intel® RAID RS25 family of ROC products.</p>
	<p>Intel® RAID Rapid Recovery Snapshot</p> <p>iPC AXRPFKSNH2 MM# 915318 UPC 73585822201481 EAN 5032037051712 MOQ 5</p> <p>Product type Accessory kit</p>	<p>Upgrade key to enable rapid recovery snapshot for Intel® RAID RS25 family of ROC products.</p>

3.5 Rack Mount Kits

The Intel® Server S2600TP Product Family provides upgrade options to the rack mounts.



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 and 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 26. Rack mount kits

Product Image	Details	Description
	<p>2/4U Premium Rail AXXFULLRAIL</p> <p>iPC AXXFULLRAIL MM# 939209 UPC 735858291989 EAN 5032037070546 MOQ 1</p> <p>Product type Upgrade kit</p>	<p>2U+ premium quality rails.</p> <ul style="list-style-type: none"> • Travel distance 780 mm • Full extension from rack • Kit includes rails, screws, installation manual <p>Note: Cable management arm is not supported by the Intel® Server Chassis H2000G Product Family.</p>
	<p>Enhanced Value Rail AXVELVRAIL</p> <p>iPC AXVELVRAIL MM# 920970 UPC 735858244367 EAN 5032037038980 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Enhanced value rail kit, half extension, extended inner slide member.</p>

3.6 Miscellaneous Accessories





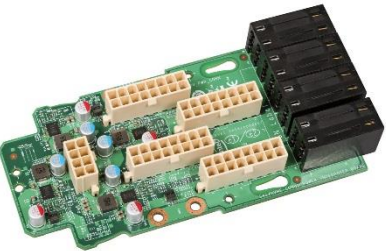
Table 27. Miscellaneous accessories

Product Image	Details	Description
	<p>Intel® Remote Management Module 4 Lite AXXRMM4LITE</p> <p>iPC AXXRMM4LITE MM# 911660 UPC 735858219297 EAN 503203702014946 MOQ 10</p> <p>Product type Accessory kit</p>	<p>Activation key for advanced management features. ROHS compliant.</p>
	<p>Intel® Remote Management Module 4 Lite AXXRMM4LITE2</p> <p>iPC AXXRMM4LITE2 MM# 946514 UPC 735858307413 EAN 5032037080750 MOQ 10</p> <p>Product type Accessory kit</p> <p>Breakout Board AHWKPTPBOB</p> <p>iPC AHWKPTPBOB MM# 936274 UPC 735858288408 EAN 5032037067720 MOQ 1</p> <p>Product type Accessory kit</p>	<p>Activation key for advanced management features. ROHS free. Form, fit, and function is equivalent to AXXRMM4LITE.</p> <p>Breakout board accessory providing additional SATA ports for board only customers for Intel® Server Board S2600TP Family.</p>




4. Spare and Replacement Parts

Table 28. Spare and field replacement units (FRUs)

Product Image	Details	Description
	<p>1U PCIe* Riser FHW1U16RISER2 (Slot 1)</p> <p>iPC FHW1U16RISER2 MM# 935565 UPC 735858288392 EAN 5032037067713 MOQ 1</p> <p>Product type Spare FRU</p>	<p>1U PCIe* x16 riser card supporting in-board low-profile PCIe* add-in card (on slot 1).</p> <p>Compatible with Intel® Compute Module HNS2600TP Product Family.</p>
	<p>Spare 12Gb SAS/SATA 12 x 3.5" Backplane FHW12X35HS12G</p> <p>iPC FHW12X35HS12G MM# 935567 UPC 735858288446 EAN 5032037067768 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare 12 x 3.5" spare backplane.</p> <p>Compatible with Intel® Server Chassis H2312XXKR2 and H2312XXLR2.</p>
	<p>Spare 12Gb SAS/SATA 16 x 2.5" Backplane FHW16X25HS12G</p> <p>iPC FHW16X25HS12G MM# 935573 UPC 735858288453 EAN 5032037067775 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare 16 x 2.5" spare backplane.</p> <p>Compatible with Intel® Server Chassis H2216XXKR2 and H2216XXLR2.</p>
	<p>Spare 12Gb SAS/SATA 24 x 2.5" Backplane FHW24X25HS12G</p> <p>iPC FHW24X25HS12G MM# 943481 UPC 735858302692 EAN 5032037077477 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare 24 x 2.5" spare backplane.</p> <p>Compatible with Intel® Server Chassis H2224XXKR2 and H2224XXLR2.</p>




Product Image	Details	Description
	<p>1600W Common Redundant Power Supply FXX1600PCRPS (Platinum-Efficiency)</p> <p>iPC FXX1600PCRPS MM# 915606 UPC 735858243650 EAN 5032037038294 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare 1600 W AC common redundant power supply 80 PLUS* Platinum.</p> <p>Compatible with Intel® Server Chassis H2312XXKR2, H2216XXKR2, and H2224XXKR2.</p>
	<p>2130W Common Redundant Power Supply FXX2130PCRPS (Platinum-Efficiency)</p> <p>iPC FXX2130PCRPS MM# 948196 UPC 00735858311939 EAN 5032037084062 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare 2130 W AC common redundant power supply 80 PLUS* Platinum.</p> <p>Compatible with Intel® Server Chassis H2312XXLR2, H2216XXLR2, and H2224XXLR2.</p>
	<p>Spare Node Power Board FH2000NPB2</p> <p>iPC FH2000NPB2 MM# 935574 UPC 735858288477 EAN 5032037067799 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare node power board (compute module power docking board).</p> <p>Compatible with Intel® Compute Module HNS2600TPR and HNS2600TPFR.</p>
	<p>Spare Node Power Board FH2000NPB24</p> <p>iPC FH2000NPB2 MM# 943480 UPC 735858302685 EAN 5032037077460 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare node power board (compute module power docking board).</p> <p>Compatible with Intel® Compute Module HNS2600TP24R, HNS2600TP24SR, and HNS2600TP24STR.</p>
	<p>Spare Power in Backplane Bridge Board Module FXXCRPSPIB</p> <p>iPC FXXCRPSPIB MM# 943484 UPC 735858302722 EAN 5032037077507 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare power interposer board. Includes one bracket and one 5V power cable.</p> <p>Compatible with Intel® Server Chassis H2224XXKR2 and H2224XXLR2.</p>

Product Image	Details	Description
	<p>Power Distribution Board Spare FXXCRPSPDB2</p> <p>iPC FXXCRPSPDB2 MM# 935576 UPC 735858288460 EAN 5032037067782 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare power distribution board module including two boards, cables, a bus pair and supporting bracket, for common redundant power supplies.</p> <p>Compatible with Intel® Server Chassis H2000G Product Family.</p>
	<p>North America Power Cable FPWRCABLENA</p> <p>iPC FPWRCABLENA MM# 879287 UPC 735858181129 EAN 503203702015738 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare North American power cable.</p> <p>Compatible with Intel® Server Chassis H2000G Product Family.</p>
	<p>40x56mm Spare Dual Rotor Fan FXX4056DRFAN2</p> <p>iPC FXX4056DRFAN2 MM# 935566 UPC 735858288439 EAN 5032037067751 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare 40x56 mm dual rotor fan.</p> <p>Compatible with Intel® Compute Module HNS2600TP Product Family.</p>
	<p>1U Heat Sink (Cu/Al) FXXCA84X106HS</p> <p>iPC FXXCA84X106HS MM# 918318 UPC 735858236676 EAN 5032037031448 MOQ 2</p> <p>Product type Spare FRU</p>	<p>Spare 1U passive Cu/Al 84 x 106 mm heatsink (rear heat sink).</p> <p>Compatible with Intel® Compute Module HNS2600TP Product Family.</p>
	<p>1U Heat Sink (Ex-Al) FXXE84X106HS</p> <p>iPC FXXE84X106HS MM# 918321 UPC 735858236683 EAN 5032037031455 MOQ 2</p> <p>Product type Spare FRU</p>	<p>Spare 1U standard Ex-Al 84 x 106 mm heatsink (front heat sink).</p> <p>Compatible with Intel® Compute Module HNS2600TP Product Family.</p>

Product Image	Details	Description
	<p>2.5 inch Hot-swap Drive Carrier FXX25HSCAR2</p> <p>iPC FXX25HSCAR2 MM# 937542 UPC 735858289405 EAN 5032037068383 MOQ 8</p> <p>Product type Spare FRU</p>	<p>Spare 2.5" hot-swap drive carrier.</p> <p>Compatible with Intel® Server Chassis H2216XXKR2, H2224XXKR2, H2216XXLR2, and H2224XXLR2.</p>
	<p>3.5 inch Hot-swap Drive Carrier FXX35HSCAR</p> <p>iPC FXX35HSCAR MM# 936192 UPC 735858289412 EAN 5032037068390 MOQ 8</p> <p>Product type Spare FRU</p>	<p>Spare 3.5" hot-swap drive carrier.</p> <p>Compatible with Intel® Server Chassis H2312XXKR2 and H2312XXLR2.</p>
	<p>Spare Front Control Panel Kit FH2000FPANEL2</p> <p>iPC FH2000FPANEL2 MM# 935578 UPC 73585828842015 EAN 5032037067737 MOQ 1</p> <p>Product type Spare FRU</p>	<p>Spare front control panel kit including (2) mini front panel boards and rack handle for assembly.</p> <p>Compatible with Intel® Server Chassis H2000G Product Family.</p>

5. Extended Warranties

Table 29. Extended warranties

Product Image	Details	Description
 <p>Intel® Server Component Extended Warranty Key SVCEWHWSY 923113 1 Expiration: 30 Days Instructions to enable Intel® Server Component Extended Warranty</p>	<p>Server System Extended Warranty</p> <p>iPC SVCEWHWSY MM# 923113 MOQ 1</p> <p>Product type Warranty</p>	<p>Extended warranty for complete server system:</p> <ul style="list-style-type: none"> (1) – Intel® Server Chassis H2000G (4) – Intel® Compute Module HNS2600TP
 <p>Intel® Server Component Extended Warranty Key SVCEWHWB 914905 1 Expiration: 30 Days Instructions to enable Intel® Server Component Extended Warranty</p>	<p>Single Node Extended Warranty</p> <p>iPC SVCEWHWB MM# 914905 MOQ 1</p> <p>Product type Warranty</p>	<p>Extended warranty for a single node:</p> <ul style="list-style-type: none"> (1) – Intel® Compute Module HNS2600TP
 <p>Intel® Server Component Extended Warranty Key SVCEWDPBD 911294 1 Expiration: 30 Days Instructions to enable Intel® Server Component Extended Warranty</p>	<p>Server Board Extended Warranty</p> <p>iPC SVCEWDPBD MM# 911294 MOQ 1</p> <p>Product type Warranty</p>	<p>Extended warranty for server board only:</p> <ul style="list-style-type: none"> (1) – Intel® Server Board H2600TP (for use with third party chassis)

Appendix A. Glossary

Term	Definition
AHCI	Advanced Host Controller Interface
CRPS	Common Redundant Power Supply
DOM	Disk on Module
EAN	International Article Number (barcode)
ESRT2	Intel® Embedded Server RAID Technology 2
FDR	Fourteen Data Rate
FRU	Field Replaceable Unit
IOC	I/O Controller
iPC	Intel Product Code
iPN	Intel Part Number
JBOD	Just a Bunch Of Drives
MM#	Master Material order number
MOQ	Minimum Order Quantity
NVMe*	NVM Express (Non-Volatile Memory Host Controller Interface Specification (NVMeHCI))
Intel® OPA	Intel® Omni-Path Architecture
PCI-SIG*	Peripheral Component Interconnect Special Interest Group
PCIe*	PCI Express*
QSFP	Quad Small Form factor Pluggable
RAID	Redundant Array of Independent Drives
rIOM	riser I/O Module
RMFBU	RAID Maintenance Free Backup Unit
Intel® RMM4 Lite	Intel® Remote Management Module 4 Lite
ROC	RAID on Chip
ROHS	Restriction of Hazardous Substance Directive
Intel® RSTe	Intel® Rapid Storage Technology enterprise
SAS	Serial Attached SCSI
SATA	Serial ATA
SFP	Small Form factor Pluggable
TPM	Trusted Platform Module
UPC	Universal Product Code (barcode)