

Intel[®] Server Board S7200AP / APL Intel[®] Compute Module HNS7200AP / APL Intel[®] Server Chassis H2000XXLR2 Family

Product Family Configuration Guide & Spares/Accessories List

A *Reference document* used to assist with ordering parts and accessories available to configure an Intel server system based on the Intel[®] Server S7200AP product family.

Revision 1.0 June 2016

Intel[®] Server Boards and Systems

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Document Revision History

Date Published	Revision	Revision Change Description
June 2016	1.0	1 st Production Release

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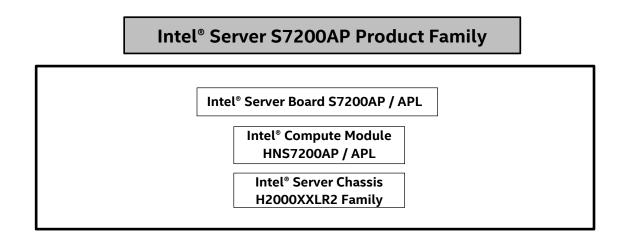
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1. Intel Server Family Overview

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 meet their unique server requirements.

The Intel® S7200AP product family consists of the following:



Server Building Blocks:

- Intel® Server Board S7200AP / APL Half width Server Board only (Building block option and spare FRU)
- Intel® Compute Module HNS7200AP / APL Compute module integrated with an Intel® Server Board S7200AP
- Intel[®] Server Chassis H2000XXLR2 product family 2U four compute module capable rack mount server chassis

The Intel[®] S7200AP product family supports the following processors and memory:

- Intel[®] Xeon Phi[™] processor (KNL-D-68 Core) bootable with a maximum TDP of 215W
 - Intel® Xeon Phi™ processor (KNL-F-68 Core) with integrated Intel® Omni-Path fabric interface with a maximum TDP of 230W
 - Note: Previous generation Intel® Xeon® processors are not supported.
- DDR4 (RDIMM & LRDIMM)





Intel[®] Server Board S7200AP / APL

Intel[®] Compute Module HNS7200AP / APL

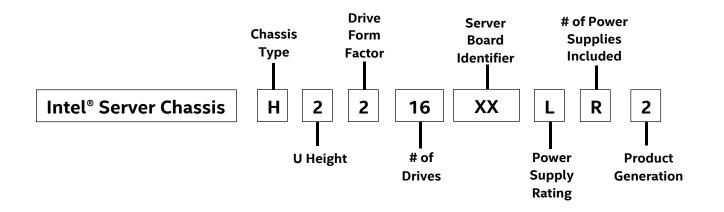


Intel[®] Server Chassis H2216XXLR2



Intel[®] Server Chassis H2312XXLR2

1.1 Intel[®] Server S7200AP Product Family Naming Convention



Chassis Type	Server Board Identifier XX – Various Compute Modules Supported
H = Half Width Node Multi-Module U Height 2 = 2U	Power Supply Rating L = 2130W Platinum
Drive Form Factor 2 = 2.5" 3 = 3.5"	# of Power Supplies Included S = 1 (Single, Non-redundant) R = 2 (Redundant)
# of Drives Supported (Specific to front drive bays) 12 16	Product Generation 2 = 2nd Generation Product

Feature	Description
Processor Support	Intel® Xeon™ Phi™ processor (KNL-D-68 Core) Bootable
	 Single processor socket P (3647 pins)
	 Thermal Design Power (TDP) up to 215W
	 36 lanes of Integrated PCI Express[®] 3.0 low-latency I/O
	 Intel® Xeon™ Phi™ processor (KNL-F-68 core) with integrated Omni-Path fabric Interface Single processor socket P (3647 pins) Integrated 4x25 Gb/s Host Fabric Interface Thermal Design Power (TDP) up to 230W 4 lanes of Integrated PCI Express® 3.0 low-latency I/O
Memory Support	 Six DIMM slots in total across six memory channels
	 Registered DDR4 (RDIMM), Load Reduced DDR4 (LRDIMM)
	 Memory DDR4 data transfer rates of 2133/2400 MT/s
	 1 DIMM per channel
	Max memory 384GB
Chipset	Intel C610 "Wellsburg" Platform Controller Hub (PCH)
External I/O Connections	Two USB 3.0 connectors
	 Two RJ-45 10/100/1000 Mbit Network Interface Controller (NIC) ports
Internal I/O	One USB 2.0 Header
connectors/headers	One TPM Header
	 One Intel[®] Omni-Path I Fabric Signal Connector (Option)
	One mSATA Connector
	 One Bridge Board Connector
	 One 2x7 pin header for system fan module
	 One Aux Front Panel Connector
	 Three 8-pin fan headers for third-party chassis support
	One 4 pin CPU Fan or Water Pump header
	One PSU Control Header
	One RMII header for Intel® RMM4 Lite One internal PGB Video Header
PCIe Support	One Serial Port A Header PCle* 3.0 (2.5, 5, 8 GT/s)
Power Connections	Two sets of 2x3 pin connector
. eer connections	One 8 pin Power control connector
	 One 4 pin Power connector for Disk Drive power
System Fan Support	Three 40x56mm double rotor fans
System i an Support	
Video	

Table 1. Intel[®] Server S7200AP Product Family Feature Set

Feature	Description
Riser Support	One PCIe Gen3 x16 standard riser connector
	 Supports a low-profile adapter in Riser slot 1
	 One PCIe Gen3 x20 HSEC-8 fine-pitch riser connector
	 Supports a x16 low-profile adapter in Riser slot 2
	 Supports a x4 low-profile adapter in Riser 2 when fabric is used
On-board storage	 Integrated 9-port SATA
controllers and options	 4 ports to bridge board,
	o 1 port to mSATA
	 4 ports to MiniSAS HD connector
Fabric	 Dual port Intel[®] Omni-Path Fabric via KNL-F Processor
	or
	 Single Port Intel[®] Omni-Path Fabric via x16 Gen 3 PCIe Adapter
Network (LAN)	 Dual i210 Springvilles
	 Dual 10/100/1000Gbe RJ45 connectors
	 NC_SI sideband to BMC. Option to host share or dedicate a Network port to management traffic.
RAID Support	 Intel[®] Embedded Server RAID Technology 2 (ESRT2)
Server Management	Onboard Emulex* Pilot III Controller
	 Support for Intel[®] Remote Management Module 4 Lite solutions
	 Support for Intel[®] System Management Software
	 Support for Intel[®] Intelligent Power Node Manager (Need PMBus*-compliant power supply)

Feature ¹	Description
Server Board	Intel [®] Server Board S7200AP product family
	Intel® Xeon™ Phi™ processor (KNL-D-68 Core) Bootable
	 Intel[®] Xeon[™] Phi[™] processor (KNL-D-68 Core) Bootable
	 Intel[®] Xeon[™] Phi[™] processor (KNL-F-68 core) with integrated Omni-Path fabric
	Interface
Processor Support	Maximum supported Thermal Design Power (TDP) of up to 230W
Heatsink	One 80x107mm 1U Heatsink
Fan	Three 40x56mm dual rotor system fans
Riser Support	One PCIe Gen3 x16 standard riser connector
	 Supports a low-profile adapter in Riser slot 1
	One PCIe Gen3 x20 HSEC-8 fine-pitch riser connector
	 Supports a x16 low-profile adapter in Riser slot 2
	Supports a x4 low-profile adapter in Riser 2 when fabric is used
Compute Module Board	Bridge boards:
	 6G SATA Bridge Board (Default)
	 One compute module power docking board
Air Duct	One transparent air duct
Form Factor	10
Module Dimensions	L=592.8mm, W=177.5mm, H=40.8

Table 2. Intel[®] Compute Module HNS7200AP Feature Set

1. The table only lists features that are unique to the compute module or different from the server board

1.2 Product Family Summary Chart

The following tables provides an overview of available Intel product codes for the Intel[®] S7200AP 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 3. Intel Server Board Product Summary

Intel Product Code	Development Status	Packaged quantity	# of CPU sockets	# of DIMM Slots	# of Riser Slots	Onboard RJ45 LAN ports	# of SATA ports (6 Gb)	SATA SW RAID Support	Liquid Cooling Support
Server Board only									
BBS7200APL	Production	10 pack	1	6	2	2 (1 GbE)	10	Yes	Yes
BBS7200AP	Production	10 pack	1	6	2	2 (1 GbE)	10	Yes	No

Table 4. Intel Compute Module Product Summary

Intel Product Code	Development Status	Form Factor	Intel Server Board	Liquid Cooling Support	
Compute Module					
HNS7200APL	Production	1U Module	S7200APL	Yes	
HNS7200AP	Production	1U Module	S7200AP	No	

Table 5. Server Chassis Product Family Summary

Intel Product Code	Development Status	Chassis Form Factor	Drive Form Factor	# of Drives	# of Power Supply Modules	Power Supply Rating	Rack Mount Rails Included
Chassis Only (KDK)							
H2312XXLR2	Production	2U	3.5"	12	2	2130W	Yes
H2216XXLR2	Production	2U	2.5"	16	2	2130W	Yes

• KDK = Knock Down Kit - Intel nomenclature defining a chassis only product

Additional Product Information

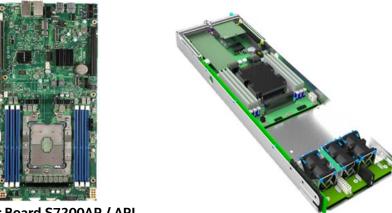
For additional information about this family of products or any of their supported accessories, refer to the following resources available at: <a href="http://www.intel.com/content/www/us/en/support/server-products/server-boards/single-socket-server-boards/intel-server-boards/single-socket-server-boards/intel-server-boards/single-socket-server-boards/intel-server-boards/single-socket-server-boards/intel-server-boards/single-socket-server-boards/s

Table 6. Product Family Reference Collaterals

For this information or software	Use this Document or Software
	Intel [®] Server Board S7200AP Technical Product Specification
	Intel® Remote Management Module 4 (Intel® RMM4) and Integrated BMC User Guide
For in-depth technical information about this product	Intel® Remote Management Module 4 Technical Product Specification
family	Intel® Server System BIOS Setup Utility Guide
	Intel® Server Platform Firmware Specification Update
	Product Safety and Regulatory Compliance
For system integration instructions and service guidance	Intel® Server Board S7200AP Product Family and Intel® Compute Module HNS7200AP Service Guide
For server configuration guidance and compatibility	Intel [®] Server Configurator tool
For system power budget guidance	Intel® Server Board S7200AP Product Family and Intel® Compute Module HNS7200AP Power Budget Tool
	System Update Package (SUP) – uEFI only
For system firmware updates	One-boot Flash Update Utility (OFU)
For a complete list of supported processors, memory, add- in cards, and peripherals:	See Intel web site listed above

2. Server Building Block Configuration

Server building blocks within this Intel product family are offered to give Intel customers the option to design a custom chassis to support the stand alone Intel server board, or to configure one of the chassis only options with one to four server compute modules. Each building block component and optional accessory is purchased seperately.



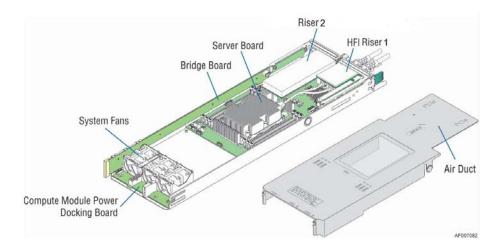
Intel[®] Server Board S7200AP / APL

Intel[®] Compute Module HNS7200AP / APL





See chapter 0 for available Intel accessories that can be added as options to the configured server.



2.1 Intel[®] Server Board S7200AP Product Family SKUs

Intel Product Code (iPC)	Order Information	Product Description	Product Type
iPC – BBS7200APL	MM# - 950090 UPC - 735858322874 EAN - 5032037090124 MOQ - 10 Packaged Gross Weight TBD Un-packaged Net Weight TBD	 Intel[®] Server Board S7200AP Board Dimensions: 6.8" W x 14.2" L (172.72mm W x 360.68mm L) 1 Processor Slot – Intel Xeon[®] Phi[™] series only 6 DIMM Slots supporting DDR4 memory 2 PCIe* 3.0 capable add-in / riser card slots 2 RJ45 1GbE Networking Ports Liquid Cooling Support Box includes: one server board 	 Server Board only Building block option Spare FRU
iPC – BBS7200AP	MM# - 942367 UPC - 735858322881 EAN - 5032037090131 MOQ - 10 Packaged Gross Weight TBD Un-packaged Net Weight TBD	Intel [®] Server Board S7200AP Board Dimensions: 6.8" W x 14.2" L (172.72mm W x 360.68mm L) 1 Processor Slot – Intel Xeon® Phi [™] series only 6 DIMM Slots supporting DDR4 memory 2 PCle* 3.0 capable add-in / riser card slots 2 RJ45 1GbE Networking Ports Box includes: one server board	 Server Board only Building block option Spare FRU

2.2 Intel[®] Compute Module Product Family SKUs

The product tables found in this section provide order code information and detailed descriptions for each available Intel Conpute Module 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 0

NOTES:

- Each required item and optional accessory is sold seperately from the specified Intel server building block
- Items identifed 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.

Intel Product Code (iPC): HNS7200AP	Order Code Information: MM# - 942355 UPC - 735858322898 EAN - 5032037090148 MOQ - 1	Product Type: Produciton Compute Module Module dimensions: L=592.8mm, W=177.5mm, H=40.8 Packaged Gross Weight: TBD Un-packaged Net Weight: TBD Packaging Dimensions: TBD
	Product Definition and Configuration Requ	uirements
 Intel product code HNS7200AP is a fully assembled comp module that includes the following components: (1) – Intel Server Board S7200AP – iPC BBS7200AP (3) – System fans – iPC FXX4056DRFAN2 (1) – Slot 1 Riser Card – iPC FHW1UAP16RISER2 (1) – Slot 2 Riser Card – iPC FHW1U20APRISER (1) – I/O Bridge Board – iPC FHW1U20APRISER (1) – Power Docking Board – iPC FH2000NPB (1) – 130mm 2x7 Fan Assembly Cable – iPN H62040-00x (1) – Air Duct – iPN H72964-00x (1) – Plastic Cover – iPN H35490-00X (1) – Processor Heat Sink – iPC AXXAPHS 	 1 Intel[®] Xeon[®] Phi[™] Processor Se ECC DDR4 memory (RDIMM or L 	eries AXX2PFABKIT – Intel® Omnipath 2-port

Intel Product Code (iPC):	Order Code Information:	
HNS7200APL	MM# - 950091 UPC - 735858322904 EAN - 5032037090155 MOQ - 1	Product Type: Production Compute Module Module dimensions: L=592.8mm, W=177.5mm, H=40.8 Packaged Gross Weight: TBD Un-packaged Net Weight: TBD Packaging Dimensions: TBD
	Product Definition and Configuration Requ	uirements
 Intel product code HNS7200AP is a fully assembled commodule that includes the following components: (1) – Intel Server Board S7200AP – iPC BBS7200APL (3) – System fans – iPC FXX4056DRFAN2 (1) – Slot 1 Riser Card – iPC FHW1UAP16RISER2 (1) – Slot 2 Riser Card – iPC FHW1U20APRISER (1) – I/O Bridge Board – iPC FHWAPBGB (1) – Power Docking Board – iPC FH2000NPB (1) – 130mm 2x7 Fan Assembly Cable – iPN H62040-00x (1) – Air Duct – iPN H72964-00x (1) – Plastic Cover – iPN H35490-00X (1) – Processor Heat Sink – iPC AXXAPHS 	 1 Intel[®] Xeon[®] Phi[™] Processor Se ECC DDR4 memory (RDIMM or L 	eries • AXX2PFABKIT – Intel® Omnipath 2-port

2.3 Intel[®] Server Chassis H2000XXLR2 Product Family SKUs

The product tables found in this section provide order code information and detailed descriptions for each available 2U 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 0

NOTES:

- Each required item and optional accessory is sold seperately from the specified Intel server building block
- Items identifed 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.

Intel Product Code (iPC):	Order Code	Information:		
H2312XXLR2	MM# - 942352 UPC - 00735858316729 EAN - 5032037086981 MOQ - 1		Product Type: Chassis only Chassis Form Factor: 2U rack mount with support for upto 4 Compute Modules Chassis dimensions: L=771mm, W=438mm, H=86.9mm Packaged Gross Weight: 28.32 Kgs, 62.434 Lbs. Un-packaged Net Weight: 19.97 Kgs, 44.026 Lbs. Outer Box Dimensions: L=984mm, W=578mm, H=266mm	
	Produ	ct Definition and	Configuration Requirements	
Intel product code H2312XXLR2 includes the follow components: (1) 12 x 3.5" Hot swap backplane – iPC FHW12X35H (12) 3.5" hot swap drive trays – iPC FXX35HSCAR (1) Front Panel / Rack Handle Assembly – iPC FH200 (2) 2130W Power supply modules – iPC FXX2130PO (1) Power Distribution board assembly – iPC FXX2130PO (1) Rack Mount Rail Kit – iPC AXXELVRAIL (1) Attention Doc insert – iPN H46721-00x	IS12G DOFPANEL2 IRPS	 Upto 4 of th Intel[®] Co 	ompute Module HNS7200AP	 Optional Intel Accessories – Sold Separately: iPC A2UBEZEL – Lockable front system bezel Storage Drives See Chapter 3 for all available accessory options.

H2216XXLR2	Order Code MM# - 9423 UPC - 00735 EAN - 50320 MOQ - 1	85831673	Product Type: Chassis only Chassis Form Factor: 2U rack Chassis dimensions: L=733m Packaged Gross Weight: 29.1 Un-packaged Net Weight: 19. Outer Box Dimensions: L=984	2 Kgs, 64.198 Lbs. 54 Kgs, 43.078 Lbs.
2U – 16 x 2.5" front mount hot swap drives	Produc	t Definition and	Configuration Requirements	
Intel product code H2312XXKR2 includes the followic components: (1) 16 x 2.5" Hot swap backplane – iPC FHW16X25HS (12) 2.5" hot swap drive trays – iPC FXX25HSCAR2 (1) Front Panel / Rack Handle Assembly – iPC FH2000 (2) 2130W Power supply modules – iPC FXX2130PCI (1) Power Distribution board assembly – iPC FXX2130PCI (1) Rack Mount Rail Kit – iPC AXXELVRAIL (1) Attention Doc insert – iPN H46721-00x	ing 512G DFPANEL2 RPS	Required ● Upto 4 of t ○ Intel [®] C or or	Items – Sold Separately: he following Compute Module HNS7200AP Compute Module	 Optional Intel Accessories – Sold Separately: iPC A2UBEZEL – Lockable front system bezel Storage Drives See Chapter 5 for all available accessory options.

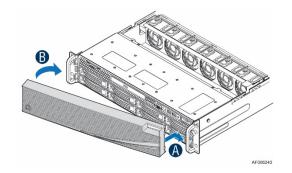
3. Accessory Options

The following sections identify available accessory kits supported by the Intel® S7200AP product family.

3.1 2U System Locking Front Bezel Accessory Kit

The optional front bezel is made of Black molded 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 keyed locking mechanism which can be used to prevent unauthorized access to installed storage devices and front I/O ports.

Intel Product Code	Order Information	Product Description	Product Type
iPC – A2UBEZEL	MM# – 918086	2U Front Bezel Accesory Kit Kit Includes:	
		(1) 2U locking bezel (1) Front Panel Window Insert	2U Accessory Kit
	MOQ – 1	(1 Set) Bezel branding inserts – two ID badges, one wave (1 Set) Keys	



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

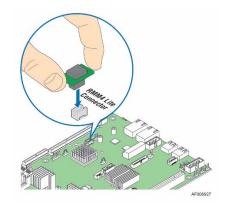


3.2 Remote Management KVM Support Option

The integrated baseboard management controller has support for advanced management features which are enabled when an optional Intel[®] Remote Management Module 4 Lite (RMM4 Lite) is installed. The Intel RMM4 add-on offers convenient, remote KVM access and control through LAN and internet. It captures, digitizes, and compresses video and transmits it with keyboard and mouse signals to and from a remote computer. Remote access and control software runs in the integrated baseboard management controller, utilizing expanded capabilities enabled by the Intel RMM4 hardware.

Key Features of the RMM4 add-on are:

- KVM redirection from the server board NICs used for management traffic; up to two KVM sessions
- Media Redirection The media redirection feature is intended to allow system administrators or users to mount a remote IDE or USB CDROM, floppy drive, or a USB flash disk as a remote device to the server. Once mounted, the remote device appears just like a local device to the server allowing system administrators or users to install software (including operating systems), copy files, update BIOS, or boot the server from this device.



Intel Product Code	Order Information	Product Description	Product Type
iPC – AXXRMM4LITE			
E E E E E E E E E E E E E E E E E E E	MM# – 911660 UPC – 00735858219297 EAN – 5032037014946 MOQ – 1	Intel® Remote Management Module 4 Lite Kit Includes: (1) RMM4 Lite module	• Accessory Kit

3.3 Intel[®] Trusted Platform Module (TPM) Security Option

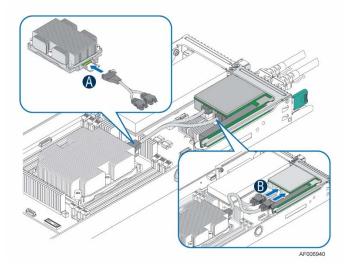
The Intel®Trusted Platform Module (TPM) is a hardware-based security device that addresses the growing concern on boot process integrity and offers better data protection. TPM protects the system start-up process by ensuring it is tamper-free before releasing system control to the operating system. A TPM device provides secured storage to store data, such as security keys and passwords. In addition, a TPM device has encryption and hash functions. The Intel® TPM module implements TPM as per TPM PC Client specifications revision 2.0 by the Trusted Computing Group (TCG).

Intel Product Code	Order Information	Product Description	Product Type
iPC – AXXTPME6	MM# – 947921 UPC – 00735858314534 EAN – 5032037086059 MOQ – 1	Intel® Trusted Platform Module (TPM) 2.0 Kit Includes: (1) TPM Module for server systems	• Accessory Kit

3.4 Intel[®] Omni-path Host Fabric Interface Support Option

The Intel[®] Server Board S7200AP supports the bootable Intel[®] Xeon Phi[™] processor (KNL-F) with integrated Intel[®] Omni-Path Host Fabric Interface (HFI). These processors have two 25 GB/s fabric I/O ports with up to 50 GB/s bi-directional peak total bandwidth.

Intel's Fabric Through (IFT) Carrier kit allows external access to the Intel[®] Omni-Path Host Fabric Interface (HFI) socket of the processor. The external connection access is accomplished through use of two QSFP+28 style connections.



Intel Product Code	Order Information	Product Description	Product Type
IPC – AXX2PFABKIT	MM# – 945579 UPC – 735858322911 EAN – 5032037090162 MOQ – 1	Intel® Fabric Through (IFT) Carrier Kit Kit Includes: (1) KNL Fabric Carrier – iPN H53248-00x (1) 2 Port IFP card (1) 2 Port IFP cable (1) Sideband cable	Accessory Kit

4. Spare and Replacement Parts (FRUs)

System integrators and distributors may choose to hold additional stock of individual system components. Intel makes available the following Spare and Replacement Parts (FRUs) compatible with the specified Intel server family.

Intel Product Code	Order Information	Product Description	Product Type
iPC – FXX4056DRFAN2	MM# – 935566 UPC – 735858288439 EAN – 5032037067751 MOQ – 1	40x56mm Dual Rotor Fan spare	• Spare FRU
iPC – FXX2130PCRPS	MM# – 948196 UPC – 00735858311939 EAN - 5032037084062 MOQ – 1	2130W AC Common Redundant Power Supply 80Plus Platinum-Efficiency	• Spare FRU
iPC – FHW12X35HS12G	MM# – 935567 UPC – 735858288446 EAN – 5032037067768 MOQ – 1	12Gb SAS spare 12 x 3.5" backplane for H2000XXLR2 Chassis family	• Spare FRU

Intel Product Code	Order Information	Product Description	Product Type
iPC – FHW16X25HS12G	MM# – 935573 UPC – 735858288453 EAN – 5032037067775 MOQ – 1	12GB SAS spare 16 x 2.5" backplane for H2000XXLR2 Chassis family	• Spare FRU
iPC – FH2000NPB	MM# – 920832 UPC – 00735858246743 EAN – 5032037041201 MOQ – 1	Spare Node Power Board for H2000XXKR2 Chassis family	• Spare FRU
iPC – FXXCRPSPDB2	MM# – 935576 UPC – 735858288460 EAN – 5032037067782 MOQ – 1	Spare Power Distribution Board Module including 2 boards, cables, a bus pair and supporting bracket, etc. for Common Redundant Power Supply 1600W of H2000XXKR2 chassis	• Spare FRU
iPC – FH2000FPANEL2	MM# – 935578 UPC – 735858288415 EAN – 5032037067737 MOQ – 1	Spare front control panel kit(2 mini-front panel boards and rack handle assembly) for H2000KR2 Chassis family	• Spare FRU
iPC – FXX25HSCAR2	MM# – 937542 UPC – 735858289405 EAN – 5032037068383 MOQ – 8	Spare 2.5" hot swap drive carriers	• Spare FRU

Intel Product Code	Order Information	Product Description	Product Type
iPC – FXX35HSCAR	MM# – 936192 UPC – 00735858289412 EAN – 5032037068390 MOQ – 8	Spare 3.5" hot swap drive carriers	• Spare FRU
iPC - AXXELVRAIL	MM# – 920970 UPC – 00735858244367 EAN – 5032037038980 MOQ – 1	Value Rail Kit, half extension, extended inner slide member	• Spare FRU
iPC – FPWRCABLENA	MM# – 879287 UPC – 735858181129 EAN – 5032037015738 MOQ – 1	North American Power Cord Spare	• Spare FRU

5. Extended Warranty

Image	Order Information	Description
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must have be proved for the first terms for	iPC – SVCEWHWSY	Extended Warranty for complete system (1x Intel® Server Chassis H2000G + 4x Inte
Expension III Class Research III Class	MM# – 923113 MOQ – 1	Compute Module HNS7200AP), Single.
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torent Milais	MM# – 914905	Extended Warranty for single node (1x Intel® Compute Module HNS7200AP), Single
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any di Saman Sampunan (Samina Kalana, Kay	iPC - SVCEWDPBD	Extended warranty for the mainboard only (for use with 3 rd party chassis; applies to
100	MM#-911294	board only SKUBBS7200AP)
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Glossary of Terms

A list of Acronyms and Terms used throughout this document

Acronym or Term	Definition	Acronym or Term	Definition
BIK	B aseboard In Knock-Down-Kit – Integrated System	QSFP	Quad Small Form factor Pluggable
CRPS	Common Redundant Power Supply	RAID	Redundant Array of Independent Drives
EAN	International Article Number (Barcode)	Required Option	Hardware that must be added to the shipping configuration for the system to operate
EMI	Electromagnetic Interference	RMFBU	RAID Maintenance Free Backup Unit
ESRT2	Intel® Embedded Server RAID Technology 2	RMM4 Lite	Intel® Remote Management Module 4 Lite Activation key
FDR Infiniband	Fourteen Data Rate Infiniband	ROC	RAID on Chip
FRU	Field Replaceable Unit	RSTe	Intel® Rapid Stroage Technology
GPGPU	General Purpose computing on Graphics Processing Unit	SAS	Serial Attached SCSI
iPC	Intel Product Code	SATA	Serial ATA
iPN	Intel Product Number	SFP	Small Form factor Pluggable
LCP	Intel® Local Control Panel		
JBOD	Just a bunch of drives		
KDK	Knock-Down-Kit – (Chassis only product)	SKU	Stock Keeping Unit
KVM	Keyboard / Video / Mouse	SSD	Solid State Drive
MM#	Master Material order number	UPC	Universal Product Code (Barcode)
MOQ	Mimimum Order Quantity		
NVMe	NVM Express – based on Non-Volatile Memory Host Controller Interface Specification (NVMHCI)		
Optional Accessory	Hardware that can be added to the system to enhance the default feature set of the shipping configuration		
PCBA	Printed Cricuit Board Assembly		