



# **Intel® Server Board S2600CW Product Family**

# **Intel® Server Chassis P4304XXMFEN2/P4304XXMUXX 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 S2600CW and Intel® Server Chassis P4304XXMFEN2/P4304XXMUXX product families.

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Intel® Server Boards and Systems

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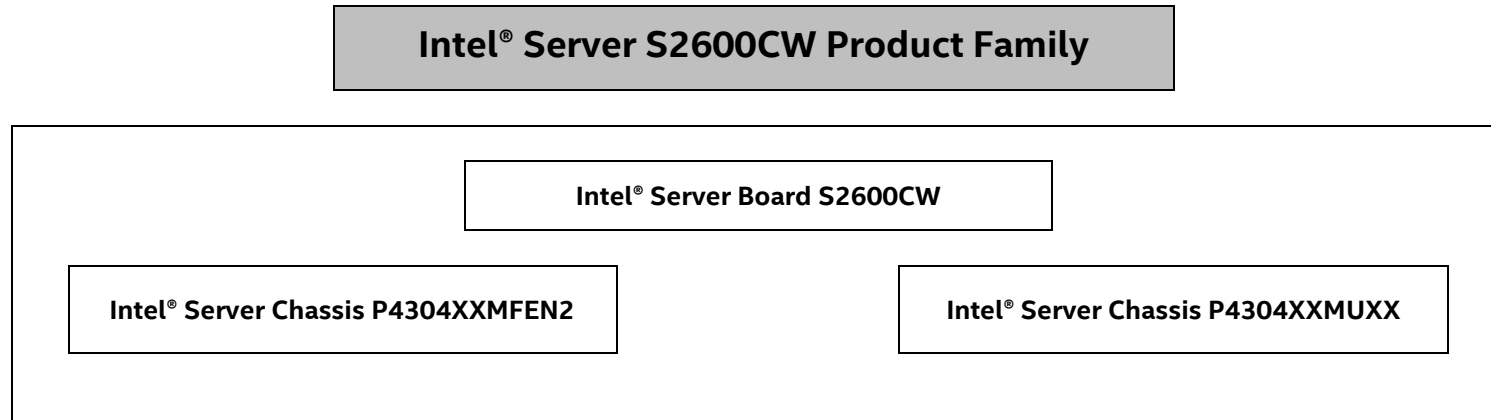


# 1. Intel® Server Family Overview

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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® Server Board S2600CW product family is offered as building block of an integrated system. The product family is shown in the following figure.



Server Building Blocks:

- **Intel® Server Board S2600CW** – Server Board only (Building block option and spare FRU). Refer to Table 4 for board SKUs.
- **Intel® Server Chassis P4304XXMFEN2, P4304XXMUXX** – Pedestal Server Chassis

The Intel® Server Board S2600CW product family supports the following processors and memory:

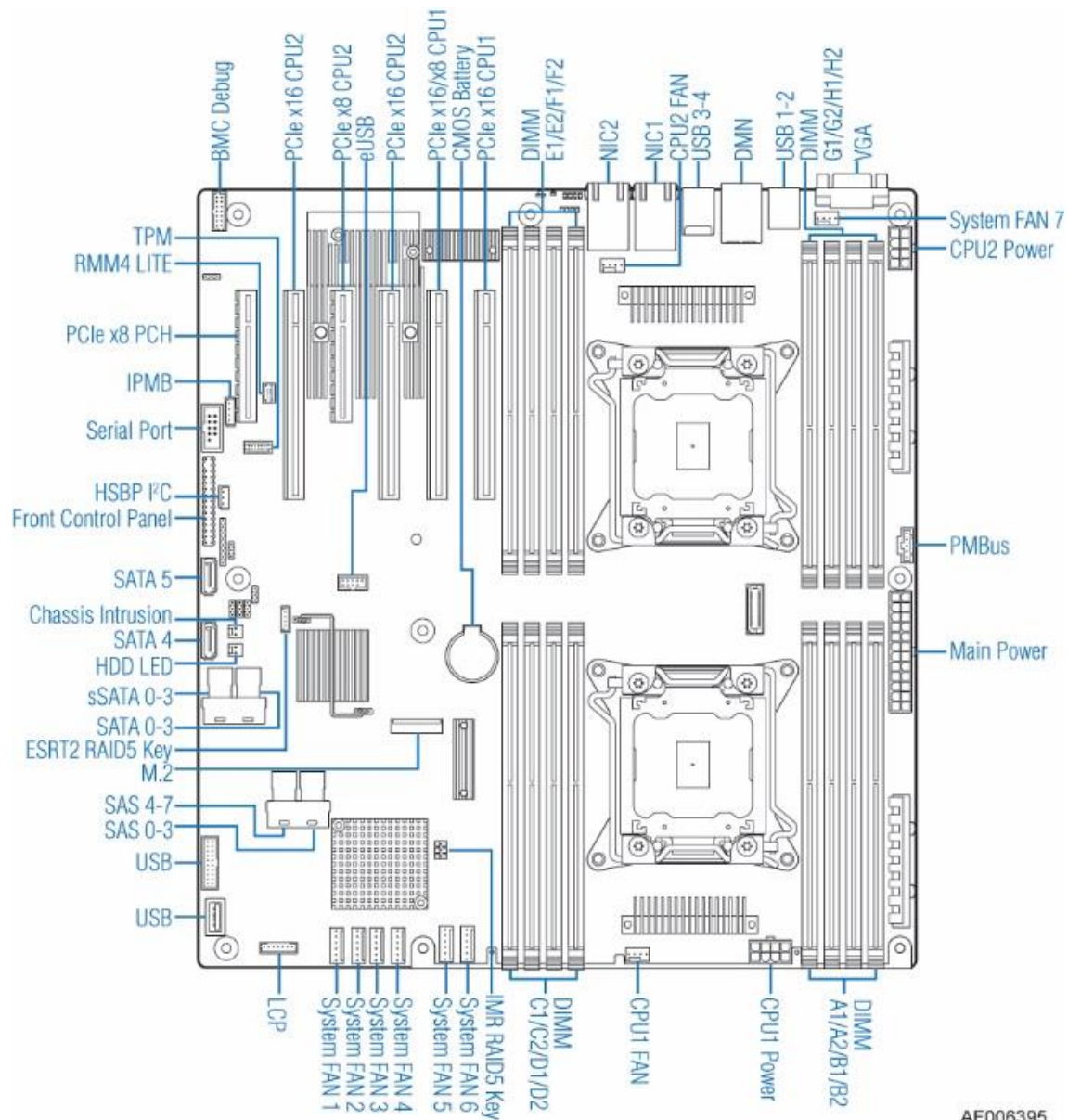
- Intel® Xeon® processor E5-2600 v3 product and v4 processor families
  - **NOTE: Previous generation Intel® Xeon® processors are not supported.**
- DDR4 ECC RDIMM 1600, 1866, 2133 MT/s

## 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**

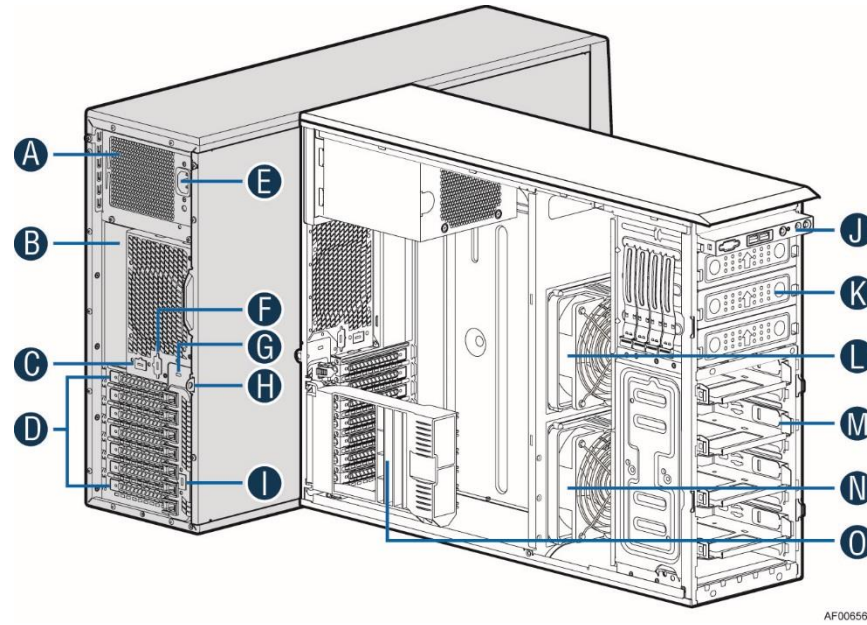
| For this information or software   | Use this Document or Software   |
|--|---|
| For in-depth technical information about this product family   | <ul style="list-style-type: none"> <li>• <a href="#">Intel® Server Board S2600CW Technical Product Specification</a></li> <li>• <a href="#">Intel® Server System P4000M Product Family Technical Product Specification</a></li> <li>• <a href="#">Intel® Remote Management Module 4 (Intel® RMM4) and Integrated BMC User Guide</a></li> <li>• <a href="#">Intel® Remote Management Module 4 Technical Product Specification</a></li> <li>• <a href="#">Intel® I/O Expansion Modules Hardware Specification</a></li> <li>• <a href="#">Intel® Server Platform Firmware Specification Update</a></li> </ul> <p><a href="http://www.intel.com/content/www/us/en/motherboards/server-motherboards/server-board-s2600cw.html">http://www.intel.com/content/www/us/en/motherboards/server-motherboards/server-board-s2600cw.html</a></p> |
| For system integration instructions and service guidance   | <p><a href="#">Intel® Server Chassis P4304XXMFEN2/P4304XXMUXX Product Family System Integration and Service Guide</a></p> <p><a href="#">Third Party reference chassis</a></p>  |
| For server configuration guidance and compatibility  | <p><a href="#">Intel® Server Configurator tool</a></p> <p><a href="#">Operating System Compatibility</a></p>  |
| For system power budget guidance   | <p><a href="https://www-ssl.intel.com/content/www/us/en/motherboards/server-motherboards/server-board-s2600cw.html?wapkw=intel+server+board+s2600cw+family">https://www-ssl.intel.com/content/www/us/en/motherboards/server-motherboards/server-board-s2600cw.html?wapkw=intel+server+board+s2600cw+family</a></p>  |
| For system firmware updates, onboard device drivers, and software to manage your Intel® Server System. | <p><a href="https://www-ssl.intel.com/content/www/us/en/motherboards/server-motherboards/server-board-s2600cw.html?wapkw=intel+server+board+s2600cw+family">https://www-ssl.intel.com/content/www/us/en/motherboards/server-motherboards/server-board-s2600cw.html?wapkw=intel+server+board+s2600cw+family</a></p>  |
| For a complete list of supported processors, memory, add-in cards, and peripherals check THOL at:      | <p><a href="#">Tested Hardware and Operating Systems List</a></p>   |
| S2600CW drivers, firmware and utilities  | <p><a href="#">Drivers, Firmware and utilities</a></p>  |



AF006395

**Figure 1. Intel® Server Board Feature Set Identification**

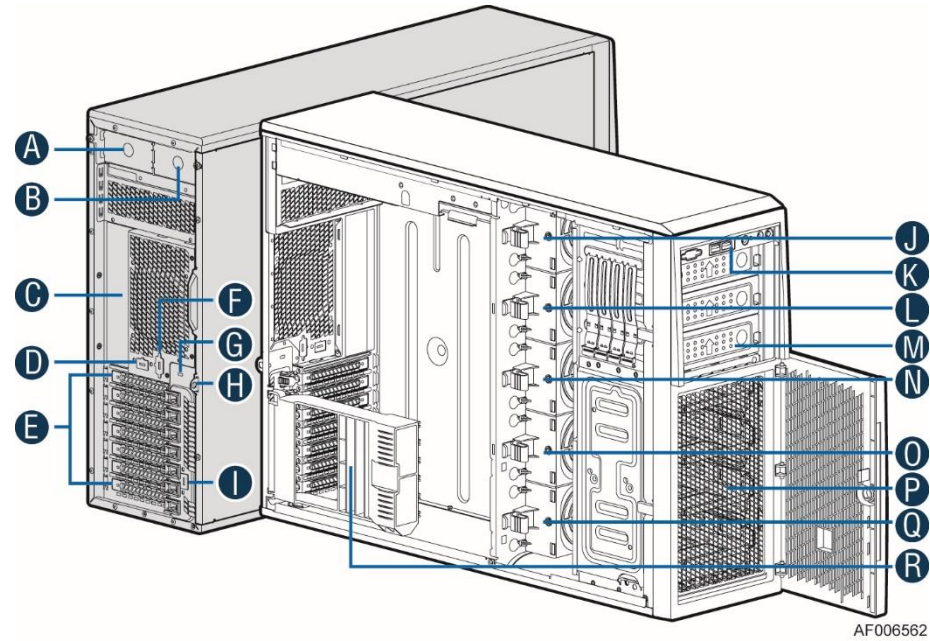
(SAS 0-3 and SAS 4-7) are installed only on S2600CW2SR and S2600CWTSR SKUs



AF006561

| Label | Description                              |
|-------|--|
| A     | 550 W fixed power supply                 |
| B     | I/O ports                                |
| C     | Alternate RMM4 knockout                  |
| D     | PCI add-in board slot covers             |
| E     | AC input power connector                 |
| F     | Serial ports knockout                    |
| G     | A cable lock mounting hole               |
| H     | Padlock loop                             |
| I     | Alternate RMM4 knockout                  |
| J     | Front control panel                      |
| K     | 5.25" peripheral bays                    |
| L     | CPU zone system fan (fixed system fan 2) |
| M     | Fixed hard drive carrier tray            |
| N     | PCI zone system fan (fixed system fan 1) |
| O     | PCI card retainer                        |

Figure 2. Intel® Server Chassis P4304XXMFEN2 Feature Set Identification



AF006562

| Label | Description                                   |
|-------|---|
| A     | Filler 1 for one hot-swap power supply module |
| B     | Filler 2 for one hot-swap power supply module |
| C     | I/O ports                                     |
| D     | Alternate RMM4 knockout                       |
| E     | PCI add-in board slot covers                  |
| F     | Serial ports knockout                         |
| G     | A cable lock mounting hole                    |
| H     | Padlock loop                                  |
| I     | Alternate RMM4 knockout                       |
| J     | Hot-swap system fan 5                         |
| K     | Front control panel                           |
| L     | Hot-swap system fan 4                         |
| M     | 5.25" peripheral bays                         |
| N     | Hot-swap system fan 3                         |
| O     | Hot-swap system fan 2                         |
| P     | Fixed hard drive carrier tray                 |
| Q     | Hot-swap system fan 1                         |
| R     | PCI card retainer                             |

Figure 3. Intel® Server Chassis P4304XXMUXX Feature Set Identification

## 1.1 Product Family Summary Chart

The Intel® Server Board S2600CW product family consist in four Intel® Server Board options: DBS2600CW2R, DBS2600TR, DBS2600CW2SR, and DBS2600CWTSR. See Table 2 for the feature set summary of each server board option.

The **S2600CW2R** SKU offers dual 1 GbE NIC ports.

The **S2600CWTR** SKU offers dual 10 GbE NIC ports.

The **S2600CW2SR** SKU offers dual 1 GbE NIC ports and onboard SAS controller.

The **S2600CWTSR** SKU offers dual 10 GbE NIC ports and onboard SAS controller.

The following tables provide an overview of the available Intel product codes for building blocks within the Intel® Server Board S2600CW 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 Add- in Cards Slots | Onboard RJ45 LAN Ports | Onboard SAS Controller |
|--------------------------|------------------|-----------------|--------------------------|------------------------|------------------------|
| <b>Server Board only</b> |                  |                 |                          |                        |                        |
| S2600CW2R                | 2                | 16              | 6                        | 2x1GbE                 | NA                     |
| S2600CWTR                | 2                | 16              | 6                        | 2x10GbE                | NA                     |
| S2600CW2SR               | 2                | 16              | 6                        | 2x1GbE                 | Yes                    |
| S2600CWTSR               | 2                | 16              | 6                        | 2x10GbE                | Yes                    |

**Table 3. Server Chassis & Server System Product Family Summary**

| Intel Product Code  | Chassis Form Factor | Fans         | Bezel                | Power Supply Modules                                     | Air Duct |
|---------------------|---------------------|--------------|----------------------|--|----------|
| <b>Chassis Only</b> |                     |              |                      |  |          |
| <b>P4304XXMFEN2</b> | 4U                  | 2 x fixed    | Fixed drive bezel    | <b>Yes</b><br>1 x Fixed 550 W                            | Yes      |
| <b>P4304XXMUXX</b>  | 4U                  | 5 x hot-swap | Hot-swap drive bezel | <b>Opt</b><br>Supports up to 2x hot-swap 750 W or 1600 W | Yes      |

Terms used in the table:

**NA** – Not Applicable

**Opt** – Not Included - Accessory option sold separately

**Yes** – Option included

## 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 basic components, allowing for maximum customization. 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 P4000 product family
- Intel® Server Board S2600CW product family
- Hot-swap or Fixed power supply module

**NOTE:** (The Intel® Server Chassis P4304XXMFEN2 already includes a fixed PSU, while the Intel® Server Chassis P4304XXMUXX requires the purchase and installation of one or two Hot-Swap PSU)

- Power cord(s)  
**NOTE:** Chassis shipped to the US & Canada will contain North American power cord(s).
- Processor(s)
- Memory
- Storage drives
- SATA cables



Intel® Server Chassis P4000



Intel® Server Board S2600CW



Optional Intel accessories that can be added include the following:

- SAS / SAS RAID support provided by either a - PCIe\* add-in card or module + and appropriate SAS data cable(s).
- Intel® Remote Management Module 4 Lite



Refer to Chapter 4 for available options.

## 2.1 Intel® Server Board S2600CW Product Family SKUs

Table 4. Intel® Server Board S2600CW Product Family SKUs

| Intel® Product Code (iPC)   | Order Information   | Product Description   | Product Type   |
|---|---|---|--|
| <p><b>iPC – DBS2600CW2R</b></p>    | <p>MM# - 943803<br/>                     UPC - 00735858309219<br/>                     EAN - 5032037081801<br/>                     MOQ - 5</p> <p>Board Dimensions:<br/> <b>SSI EEB 12" x 13"</b></p> <p>Packaged Gross Weight<br/>                     (Five boards package)<br/> <b>10.7 Kgs, 23.6 Lbs</b></p> <p>Un-packaged Net Weight<br/>                     (Single board)<br/> <b>1.375 Kgs, 3.03 Lbs</b></p> | <p style="text-align: center;"><b><u>Intel® Server Board S2600CW2R</u></b></p> <ul style="list-style-type: none"> <li>• Support for dual Intel® Xeon® processor E5-2600 v3 and v4 processor families</li> <li>• Intel® C612 Chipset</li> <li>• 16 DDR4 DIMM Slots</li> <li>• Dual Integrated 1 Gb ports with Intel Virtualization Technology</li> <li>• Integrated Baseboard Management controller with IPMI 2.0 support</li> <li>• Optional advanced management features activated by AXXRMM4LITE key</li> <li>• Dedicated management port onboard</li> <li>• Six PCIe* slots                             <ul style="list-style-type: none"> <li>○ One x4 PCIe* Gen 2 from PCH</li> <li>○ One x8 PCIe* Gen 3 from CPU 1</li> <li>○ Two x16 PCIe* Gen 3 from CPU 0</li> <li>○ Two x16 PCIe* Gen 3 from CPU 1</li> </ul> </li> <li>• Eight SATA through 2 Mini SAS HD ports</li> <li>• Two SATA 6G AHCI ports</li> </ul>   | <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 – DBS2600CWTR</b></p>  | <p>MM# - 943805<br/>                     UPC - 00735858309202<br/>                     EAN - 5032037081795<br/>                     MOQ - 5</p> <p>Board Dimensions:<br/> <b>SSI EEB 12" x 13"</b></p> <p>Packaged Gross Weight<br/>                     (Five boards package)<br/> <b>10.7 Kgs, 23.6 Lbs</b></p> <p>Un-packaged Net Weight<br/>                     (Single board)<br/> <b>1.41 Kgs, 3.11 Lbs</b></p>  | <p style="text-align: center;"><b><u>Intel® Server Board S2600CWTR</u></b></p> <ul style="list-style-type: none"> <li>• Support for dual Intel® Xeon® processor E5-2600 v3 and v4 processor families</li> <li>• Intel® C612 Chipset</li> <li>• 16 DDR4 DIMM Slots</li> <li>• Dual Integrated 10 Gb ports with Intel® Virtualization Technology</li> <li>• Integrated Baseboard Management controller with IPMI 2.0 support</li> <li>• Optional advanced management features activated by AXXRMM4LITE key</li> <li>• Dedicated management port onboard</li> <li>• Six PCIe* slots                             <ul style="list-style-type: none"> <li>○ One x4 PCIe* Gen 2 from PCH</li> <li>○ One x8 PCIe* Gen 3 from CPU 1</li> <li>○ Two x16 PCIe* Gen 3 from CPU 0</li> <li>○ Two x16 PCIe* Gen 3 from CPU 1</li> </ul> </li> <li>• Eight SATA through 2 Mini SAS HD ports</li> <li>• Two SATA 6G AHCI ports</li> </ul> | <p><b>Server Board only</b></p> <ul style="list-style-type: none"> <li>• Building block option</li> <li>• Spare FRU</li> </ul> |



| Intel Product Code (iPC)   | Order Information   | Product Description  | Product Type   |
|--|---|--|--|
| <p>iPC – DBS2600CW2SR</p>   | <p>MM# - 943804<br/>                     UPC - 00735858309226<br/>                     EAN - 5032037081818<br/>                     MOQ - 5</p> <p>Board Dimensions:<br/> <b>SSI EEB 12" x 13"</b></p> <p>Packaged Gross Weight<br/>                     (Five boards package)<br/> <b>10.7 Kgs, 23.6 Lbs</b></p> <p>Un-packaged Net Weight<br/>                     (Single board)<br/> <b>1.41 Kgs, 3.11 Lbs</b></p>  | <p><b>Intel® Server Board S2600CW2SR</b></p> <ul style="list-style-type: none"> <li>• Support for dual Intel Xeon processor E5-2600 v3 and v4 processor families</li> <li>• Intel® C612 Chipset</li> <li>• 16 DDR4 DIMM Slots</li> <li>• Dual Integrated 1 Gb ports with Intel® Virtualization Technology</li> <li>• Integrated Baseboard Management controller with IPMI 2.0 support</li> <li>• Optional advanced management features activated by AXXRMM4LITE key</li> <li>• Dedicated management port onboard</li> <li>• Six PCIe* slots                             <ul style="list-style-type: none"> <li>○ One x4 PCIe* Gen 2 from PCH</li> <li>○ One x8 PCIe* Gen 3 from CPU 0</li> <li>○ One x8 PCIe* Gen3 from CPU 1</li> <li>○ One x16 PCIe* Gen 3 from CPU 0</li> <li>○ Two x16 PCIe* Gen 3 from CPU 1</li> </ul> </li> <li>• LSI 3008 Battery-less 12G SAS hardware RAID</li> <li>• Eight SATA through 2 Mini SAS HD ports</li> <li>• Two SATA 6G AHCI ports</li> <li>• Eight SAS through 2 Mini-SAS HD ports from LSI3008</li> </ul>  | <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 – DBS2600CWTSR</p>  | <p>MM# - 943806<br/>                     UPC - 00735858309233<br/>                     EAN - 5032037081825<br/>                     MOQ - 5</p> <p>Board Dimensions:<br/> <b>SSI EEB 12" x 13"</b></p> <p>Packaged Gross Weight<br/>                     (Five boards package)<br/> <b>10.7 Kgs, 23.6 Lbs</b></p> <p>Un-packaged Net Weight<br/>                     (Single board)<br/> <b>1.375 Kgs, 3.03 Lbs</b></p> | <p><b>Intel® Server Board S2600CWTSR</b></p> <ul style="list-style-type: none"> <li>• Support for dual Intel Xeon processor E5-2600 v3 and v4 processor families</li> <li>• Intel® C612 Chipset</li> <li>• 16 DDR4 DIMM Slots</li> <li>• Dual Integrated 10 Gb ports with Intel® Virtualization Technology</li> <li>• Two PCIe* 3.0 x24 capable slots and two 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 management port onboard</li> <li>• Six PCIe* slots                             <ul style="list-style-type: none"> <li>○ One x4 PCIe* Gen 2 from PCH</li> <li>○ One x8 PCIe* Gen 3 from CPU 0</li> <li>○ One x8 PCIe* Gen3 from CPU 1</li> <li>○ One x16 PCIe* Gen 3 from CPU 0</li> <li>○ Two x16 PCIe* Gen 3 from CPU 1</li> </ul> </li> <li>• LSI 3008 Battery-less 12G SAS hardware RAID</li> <li>• Eight SATA through 2 Mini SAS HD ports</li> <li>• Two SATA 6G AHCI ports</li> <li>• Eight SAS through 2 Mini-SAS HD ports from LSI3008</li> </ul> | <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® Chassis P4000 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 components that are included with the specified chassis product code.
- **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 the following sections.

### 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 included 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 5. Intel® Server Chassis P4000 Product Family SKUs

|  |  |   |
|--|--|---|
| <p><b>Intel® Product Code (iPC):</b></p> <p><b>iPC – P4304XXMFEN2</b></p>   | <p><b>Order Code Information:</b></p> <p>MM# - 936416<br/>                 UPC - 00735858292658<br/>                 EAN - 5032037070980<br/>                 MOQ - 1</p>  | <p>Product Type: <b>Chassis Only</b><br/>                 Chassis Form Factor: <b>4U Pedestal mount (Rackable)</b><br/>                 Chassis dimensions: <b>L=612 mm, W=173 mm, H=438 mm</b><br/>                 Packaged Gross Weight: <b>21.8 Kgs, 48 Lbs</b><br/>                 Un-packaged Net Weight: <b>16 Kgs, 35.2 Lbs</b><br/>                 Outer Box Dimensions: <b>L=813 mm, W=348 mm, H=577 mm</b></p>   |
| <p><b>Product Definition and Configuration Requirements</b></p>  |  |   |
| <p>Intel product code <b>P4304XXMFEN2</b> includes the following components:</p> <ul style="list-style-type: none"> <li>(1) - 4U Pedestal Chassis</li> <li>(1) - Standard Control Panel – iPC <b>FXFXPANEL</b></li> <li>(1) - Fixed 550 W PSU – iPC <b>FUP550SNRPS</b></li> <li>(4) - Fixed 3.5"/2.5" drive sleds - iPC <b>FUP4X35NHDK</b></li> <li>(1) - Fixed 120 mm system fan - iPC <b>FUPNHFANCPU</b></li> <li>(1) - Fixed 120 mm system fan - iPC <b>FUPMNHFANPCI</b></li> <li>(1) - Processor/Memory air duct – iPC <b>A4UCWDUCT</b></li> <li>(1) - Fixed bezel – iPC <b>FUPBEZELFIX2</b></li> <li>(1) - Attention documentation</li> <li>(2) – Dual power Connector Cable iPN – G22872-00x</li> <li>(1) – MiniSAS HD to 4 ports SATA 7 pins cable – iPN H19948-00x</li> <li>(1) – Chassis plastic Foot iPN – G35111-00x</li> <li>(1) – Set of standoffs for Motherboard iPN – G35101-00x</li> <li>(1) – Bumper pad for Motherboard iPN – G35112-00x</li> <li>(1) – Set of 5mm screws for Motherboard iPN – G35096</li> </ul> | <p><b>Required Items – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>• Intel® Server Board S2600CW (choose one)                         <ul style="list-style-type: none"> <li>○ iPC <b>DBS2600CW2R</b> – with dual 1 GbE NIC ports</li> <li>○ iPC <b>DBS2600CWTR</b> – with dual 10 GbE NIC ports</li> <li>○ iPC <b>DBS2600CW2SR</b> – with dual 1 GbE NIC ports and onboard SAS controller</li> <li>○ iPC <b>DBS2600CWTSR</b> – with dual 10 GbE NIC ports and onboard SAS controller</li> </ul> </li> <li>• Power Cord(s)</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>• One or two Intel® Xeon® processor E5-2600 v3/v4 processor families</li> <li>• ECC DDR4 memory (RDIMM)</li> <li>• SATA cables</li> </ul> | <p><b>Optional Intel Accessories – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>• Intel® SAS RAID Card / Module – See Section 4.3 for options.</li> <li>• SAS/SATA backplane - See Section 4.1 for options.</li> <li>• Hot swap drive cages - See Section 4.1 for options.</li> <li>• Rack options - See 4.5 Section for options.</li> <li>• iPC <b>FUPBEZELHSD2</b> – Lockable front bezel for hot swap drive</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 4 for all available accessory options.</p> |

|   |  |  |
|---|--|--|
| <p><b>Intel Product Code (iPC):</b></p> <p><b>iPC – P4304XXMUXX</b></p>    | <p><b>Order Code Information:</b></p> <p>MM# - 937011<br/>                 UPC - 00735858289962<br/>                 EAN - 5032037068802<br/>                 MOQ - 1</p>  | <p>Product Type: <b>Chassis Only</b><br/>                 Chassis Form Factor: <b>4U rack mount</b><br/>                 Chassis dimensions: <b>L=612 mm, W=173 mm, H=438 mm</b><br/>                 Packaged Gross Weight: <b>23.8 Kgs, 52.4 Lbs</b><br/>                 Un-packaged Net Weight: <b>15.5 Kgs, 34.2 Lbs</b><br/>                 Outer Box Dimensions: <b>L=813 mm, W=348 mm, H=577 mm</b></p>   |
| <p><b>Product Definition and Configuration Requirements</b></p>   |  |  |
| <p>Intel product code <b>P4304XXMUXX</b> includes the following components:</p> <ul style="list-style-type: none"> <li>(1) – 4U Chassis</li> <li>(1) - Standard Control Panel – iPC <b>FXXFPANEL</b></li> <li>(1) - Power Distribution Board – iPC <b>FUPPDBHC2</b></li> <li>(1) – Power Supply Cage – iPC <b>FUPCRPSCAGE</b></li> <li>(5) – Redundant/Hot swap 80mm system fans - iPC <b>FUPMLHSFAN</b></li> <li>(4) - Fixed 3.5"/2.5" drive sleds - iPC <b>FUP4X35NHDK</b></li> <li>(1) – Processor/Memory air duct – iPC <b>A4UCWDUCT</b></li> <li>(1) – Hot swap bezel with lock – iPC <b>FUPBEZELHSD2</b></li> <li>(1) – Fixed EMI cover</li> <li>(1) - Attention documentation</li> <li>(2) – Dual power Connector Cable iPN – G22872-00x</li> <li>(1) – MiniSAS HD to 4 ports SATA 7 pins cable – <b>AXXCBL450HD7S</b></li> <li>(1) – Chassis plastic Foot iPN – G35111-00x</li> <li>(1) – Set of standoffs for Motherboard iPN – G35101-00x</li> <li>(1) – Bumper pad for Motherboard iPN – G35112-00x</li> <li>(1) – Set of 5mm screws for Motherboard iPN – G35096</li> </ul> | <p><b>Required Items – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>• Intel® Server Board S2600CW (choose one)                         <ul style="list-style-type: none"> <li>○ iPC <b>DBS2600CW2R</b> – with dual 1 GbE NIC ports</li> <li>○ iPC <b>DBS2600CWTR</b> – with dual 10 GbE NIC ports</li> <li>○ iPC <b>DBS2600CW2SR</b> – with dual 1 GbE NIC ports and onboard SAS controller</li> <li>○ iPC <b>DBS2600CWTSR</b> – with dual 10 GbE NIC ports and onboard SAS controller</li> </ul> </li> <li>• Power Cord(s)</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>• One or two Intel Xeon processor E5-2600 v3/v4 processor families</li> <li>• ECC DDR4 memory (RDIMM)</li> <li>• SATA cables</li> </ul> | <p><b>Optional Intel Accessories – Sold Separately:</b></p> <ul style="list-style-type: none"> <li>• Intel® SAS RAID Card / Module – See Section 4.3 for options.</li> <li>• Power supply - See 0 Section for options.</li> <li>• SAS/SATA backplane - See Section 4.1 for options.</li> <li>• Hot swap drive cages - See Section 4.1 for options.</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 4 for all available accessory options.</p> |

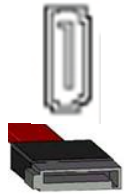
### 3. SAS/SATA Data Cable Guide

By default, the chassis include one **AXXCBL450HD7S** cable that can be routed from the motherboard to each of four HDDs. SAS data cables may need to be ordered separately when adding a SAS RAID module, SAS RAID PCIe\* add-in card and/or Hot-Swap Backplanes to the system. SAS / SATA data cables are NOT included with any of the chassis.

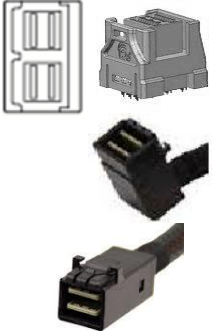
#### 3.1 SAS/SATA Data Cable Connector Types

There are three storage interface connector types used within this product family:


**Table 6. Single Port SATA Connector**

| Image   | Description   |
|---|---|
|  | <p>7-pin Single Port SATA<br/>Support for up to 6 Gb/sec SATA devices</p> <p>Where used:</p> <ul style="list-style-type: none"> <li>- On the server board</li> <li>- SATA Optical Drive – CD/DVD</li> <li>- SATA DOM</li> </ul> |

**Table 7. Multiple Channel MiniSAS HD Connectors**

| Image  | Description   |
|--|---|
|  | <p>SFF-8643<br/>Support for up to 12 Gb/Sec SAS and 6 Gb/sec SATA devices<br/>PCIe* (NVMe*) SFF support associated with Intel Accessory Kit iPC <b>FUP8x25S3NVDK</b></p> <p>Where used:</p> <ul style="list-style-type: none"> <li>- 12 Gb/sec 4x3.5" Hot-Swap Backplane (iPC <b>FUP4X35S3HSDK</b>, <b>FUP4X35S3HSBP</b>)</li> <li>- 12 Gb/sec 8x2.5" Hot-Swap Backplane (iPC <b>FUP8X25S3HSDK</b>, <b>FX8X25S3HSBP</b>)</li> <li>- All 12 Gb/sec SAS RAID Controllers</li> <li>- All 12 Gb/sec SAS Expander Cards</li> </ul> |

**Table 8. Multiple Channel MiniSAS Connectors**





| Image   | Description  |
|---|--|
|  | <p>SFF-8087<br/>Support for up to 6 Gb/sec SAS / SATA devices</p> <p>Where used:</p> <ul style="list-style-type: none"> <li>- 6 Gb/sec 8x3.5" Hot-Swap Backplane (iPC <b>FUP8X35HSDK</b>, <b>FUP8X35HSBP</b>)</li> <li>- All 6 Gb/sec SAS RAID Controllers</li> <li>- All 6 Gb/sec SAS Expander Cards</li> </ul> |

When connecting a 6 Gb/sec SAS Controller or SAS Expander to a 12 Gb/sec capable hot swap backplane, the data cables used need an SFF-8643 connector on one end of the cable and a SFF-8087 connector on the other. See Table 19. Storage Data Cable Kit Description and Order Information for appropriate cable kits.

### 3.2 Server System Cable Guide

Product tables in this section reference SAS/SATA cables using different connector types to meet the connection and routing requirements for the specified system configuration. Each cable reference and product code will identify the connector type at each end of the cable using the following identifiers: **HR**, **HD**, **MS** and **7[S|R|P]**. The following table identifies the cable connector types and their identifiers.

**Table 9. Cable connector types**

|   |  |
|---|--|
|   | <p><b>HR = Right Angle SFF-8643 Mini SAS HD Connector</b></p>  |
|  | <p><b>HD = Straight SFF-8643 Mini SAS HD Connector</b></p>   |
|  | <p><b>MS = Straight SFF-8087 Mini SAS Connector</b> (compatible with 6 Gb/sec SAS controllers and expanders)</p> |
|  | <p><b>7[S R P] =7-pin Single Port SATA</b> (Support for up to 6 GB/sec SATA devices).</p>                        |

Cable Kit Product Code Example - **AXXCBL950HDMS**

**AXXCBL** – Identifies an accessory cable kit

**950** – identifies the length of the cable in millimeters

**HD** – identifies that one end of cable connector has SFF-8643 connector

**MS** – identifies that the other end of cable connector has SFF-8087 connector

**7[S|R|P]** – identifies that the other end of cable connector has single port SATA

Drive numbering in the system illustrations is for general reference only. Actual drive numbering is dependant on SAS / SATA controller configuration and how they are cabled to the backplane. Each installed backplane includes a multi-port data connector for each for drive group.

Each table in the following sections identifies the cable connections and recommended cable lengths for each supported storage controller option in the specified system. Each “recommended” cable length for a given connector pair provides enough cable to attach the two devices with the least amount of excess cable, resulting in the cleanest cable routing. See Table 19. Storage Data Cable Kit Description and Order Information for appropriate cable kits to use on your system.

### 3.2.1 Fixed HDDs SAS/SATA Cable Guide

One Mini-SAS cable - iPC **AXXCBL450HD7S** is included in the server chassis while the other cables must be ordered separately, as needed.

One additional set of HDD trays - iPC **FUP4X35NHDK** is needed for a fixed 8x3.5” or fixed 8x2.5” hard drive configuration since the Intel® Server Chassis is shipped with only 4 HDD trays.

**Table 10. Fixed HDD Configuration SATA Cable Guide**

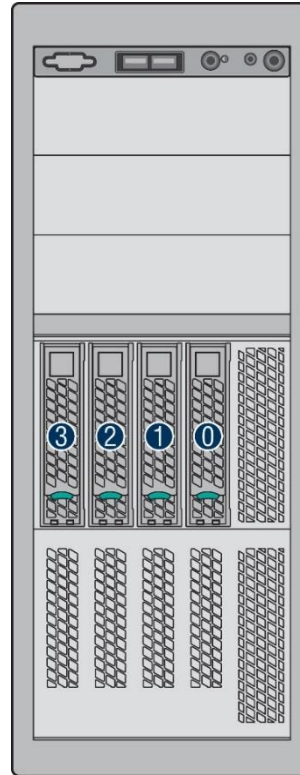
| Drive Support | Cables for On-Board SATA Capable Controller to Hard Drive  | Cables for On-Board SAS Controller on S2600CW2SR or S2600CWTSR to Hard Drive   | Cables for 12 Gb SAS RAID PCIe* add-in card to Hard Drive   | Cables for 6 Gb SAS RAID PCIe* add-in card to Hard Drive  |
|---------------|--|--|---|---|
| Fixed 4x3.5"  | <p><b>Cable Connections:</b><br/>SATA -&gt; HDD<br/>450 mm HD --- 7S<br/>(1) <b>AXXCBL450HD7S</b><br/>Cable included with the server chassis</p> | <p><b>Cable Connections:</b><br/>SAS onboard-&gt; HDD<br/>450 mm HD --- 7S<br/>(1) <b>AXXCBL450HD7S</b><br/>Cable included with the server chassis</p> | <p><b>Cable Connections:</b><br/>SAS Add-in card -&gt; HDD<br/>900 mm HD --- 7S<br/>(1) <b>AXXCBL900HD7R</b><br/>Cable must be ordered separately. The kit includes two cables.</p> | <p><b>Cable Connections:</b><br/>SAS Add-in card -&gt; HDD<br/>740 mm MS --- 7S<br/>(1) <b>AXXCBL740MS7P</b><br/>Cable must be ordered separately. The kit includes two cables.</p> |

| Drive Support       | Cables for On-Board SATA Capable Controller to Hard Drive  | Cables for On-Board SAS Controller on S2600CW2SR or S2600CWTSR to Hard Drive  | Cables for 12 Gb SAS RAID PCIe* add-in card to Hard Drive  | Cables for 6 Gb SAS RAID PCIe* add-in card to Hard Drive   |
|---------------------|--|---|--|--|
| <b>Fixed 8x3.5"</b> | <p><b>Cable Connections:</b><br/>SATA -&gt; HDD<br/>sSATA-&gt; HDD<br/>450 mm HD --- 7S<br/>(2) <b>AXXCBL450HD7S</b><br/>One cable is included with the server chassis while another cable must be ordered separately. The kit includes two cables.<br/>Requires two extra power adapter cables included in Electrical Maintenance Kit<br/><b>FUPMESK</b></p>  | <p><b>Cable Connections:</b><br/>SAS onboard -&gt; HDD<br/>450 mm HD --- 7S<br/>(2) <b>AXXCBL450HD7S</b><br/>One cable is included with the server chassis while another cable must be ordered separately. The kit includes two cables.<br/>Requires two extra power adapter cables included in Electrical Maintenance Kit<br/><b>FUPMESK</b></p> | <p><b>Cable Connections:</b><br/>SAS Add-in card -&gt; HDD<br/>900 mm HD --- 7S<br/>(2) <b>AXXCBL900HD7R</b><br/>Cables must be ordered separately. The kit includes two cables.<br/>Requires two extra power adapter cables included in Electrical Maintenance Kit<br/><b>FUPMESK</b></p> | <p><b>Cable Connections:</b><br/>SAS Add-in card -&gt; HDD<br/>740 mm HD --- 7S<br/>(2) <b>AXXCBL740MS7P</b><br/>Cables must be ordered separately. The kit includes two cables.<br/>Requires two extra power adapter cables included in Electrical Maintenance Kit<br/><b>FUPMESK</b></p> |
| <b>Fixed 4x2.5"</b> | <p><b>Cable Connections:</b><br/>SATA -&gt; HDD<br/>450 mm HD --- 7S<br/>(1) <b>AXXCBL450HD7S</b><br/>Cable included with the server chassis</p>   | <p><b>Cable Connections:</b><br/>SAS onboard -&gt; HDD<br/>450 mm HD --- 7S<br/>(1) <b>AXXCBL450HD7S</b><br/>Cable included with the server chassis</p>   | <p><b>Cable Connections:</b><br/>SAS Add-in card -&gt; HDD<br/>900 mm HD --- 7S<br/>(1) <b>AXXCBL900HD7R</b><br/>Cable should be ordered separately.</p>   | <p><b>Cable Connections:</b><br/>SAS Add-in card -&gt; HDD<br/>740 MS --- 7S<br/>(1) <b>AXXCBL740MS7P</b><br/>Cable should be ordered separately.</p>  |
| <b>Fixed 8x2.5"</b> | <p><b>Cable Connections:</b><br/>SATA -&gt; HDD<br/>sSATA -&gt; HDD<br/>450 mm HD --- 7S<br/>(2) <b>AXXCBL450HD7S</b><br/>One cable is included with the server chassis while another cable must be ordered separately. The kit includes two cables.<br/>Requires two extra power adapter cables included in Electrical Maintenance Kit<br/><b>FUPMESK</b></p> | <p><b>Cable Connections:</b><br/>SAS onboard -&gt; HDD<br/>450 mm HD --- 7S<br/>(2) <b>AXXCBL450HD7S</b><br/>One cable is included with the server chassis while another cable must be ordered separately. The kit includes two cables.<br/>Requires two extra power adapter cables included in Electrical Maintenance Kit<br/><b>FUPMESK</b></p> | <p><b>Cable Connections:</b><br/>SAS Add-in card -&gt; HDD<br/>900 mm HD --- 7S<br/>(2) <b>AXXCBL900HD7R</b><br/>Cables must be ordered separately. The kit includes two cables.<br/>Requires two extra power adapter cables included in Electrical Maintenance Kit<br/><b>FUPMESK</b></p> | <p><b>Cable Connections:</b><br/>SAS Add-in card -&gt; HDD<br/>740 mm HD --- 7S<br/>(2) <b>AXXCBL740MS7P</b><br/>Cables must be ordered separately. The kit includes two cables.<br/>Requires two extra power adapter cables included in Electrical Maintenance Kit<br/><b>FUPMESK</b></p> |



### 3.2.2 4x3.5" Hot-swap HDD SAS/SATA Cable Guide

The 4x3.5" hot-swap hard drive configuration is an upgrade option that requires a hot-swap hard drive cage kit - iPC **FUP4X35S3HSDK**. The Mini-SAS cable kits - iPC **AXXCBL380HDHD**, **AXXCBL650HDHD** or **AXXCBL650HDMS** must to be ordered separately.



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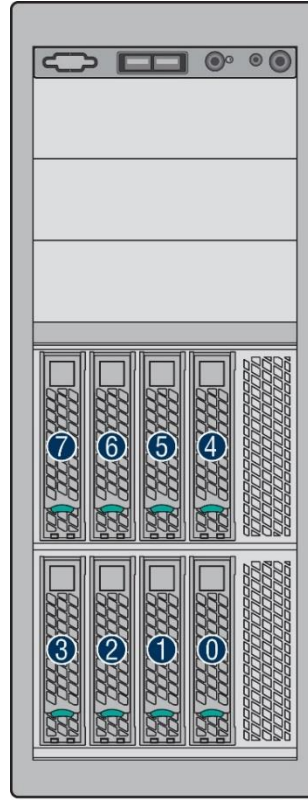
Figure 4. SATA/SAS 0-4

Table 11. 4x3.5" Hot-swap HDD Configuration Cable Guide

| Drive Support   | Cables for On-Board SATA Controller to Backplane   | Cables for On-Board SAS Controller on S2600CW2SR or S2600CWTSR to Backplane  | Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane  | Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane   |
|-----------------|--|--|---|---|
| Hot-swap 4x3.5" | SATA -> BP<br>380 mm HD --- HD<br>(1) <b>AXXCBL380HDHD</b><br>The kit includes two cables.<br>Only one required. | SAS onboard-> BP<br>380 mm HD --- HD<br>(1) <b>AXXCBL380HDHD</b><br>The kit includes two cables.<br>Only one required. | SAS Add-in card -> BP<br>650 mm HD --- HD<br>(1) <b>AXXCBL650HDHD</b><br>The kit includes two cables.<br>Only one required. | SAS Add-in card -> BP<br>650 mm HD --- MS<br>(1) <b>AXXCBL650HDMS</b><br>The kit includes two cables.<br>Only one required. |

### 3.2.3 8x3.5" Hot-swap HDD SAS/SATA Cable Guide

The 8x3.5" hot-swap hard drive configuration is an upgrade option that requires two hot-swap hard drive cage kits - iPC **FUP4X35S3HSDK**. The Mini-SAS cable kits - iPC **AXXCBL380HDHD**, **AXXCBL650HDHD** or **AXXCBL650HDMS** must be ordered separately.



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Figure 5. SATA/SAS 0-7

Table 12. 8x3.5" Hot-swap HDD Configuration Cable Guide

| Drive Support                  | Cables for On-Board SATA Controller to Backplane  | Cables for On-Board SAS Controller on S2600CW2SR or S2600CWTSR to Backplane                       | Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane  | Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane   |
|--------------------------------|---|---|---|---|
| Top and Bottom Hot-swap 4x3.5" | SATA -> BP<br>sSATA -> BP<br>380 mm HD --- HD<br>(2) <b>AXXCBL380HDHD</b><br>The kit includes two cables. | SAS onboard -> BP<br>380 mm HD --- HD<br>(2) <b>AXXCBL380HDHD</b><br>The kit includes two cables. | SAS Add-in card -> BP<br>650 mm HD --- HD<br>(2) <b>AXXCBL650HDHD</b><br>The kit includes two cables. | SAS Add-in card -> BP<br>650 mm HD --- MS<br>(2) <b>AXXCBL650HDMS</b><br>The kit includes two cables. |

### 3.2.4 8x2.5" Hot-swap HDD SAS/SATA Cable Guide

The 8x2.5" hot-swap hard drive configuration is an upgrade option that requires a hot-swap hard drive cage kit - iPC **FUP8X25S3HSDK**.

The Mini-SAS cable kits - iPC **AXXCBL380HDHD**, **AXXCBL650HDHD** or **AXXCBL650HDMS** must be ordered separately.

**NOTE:** For data cable information associated with Intel® Accessory Kit **FUP8X25S3NVDK**, see section 3.2.6

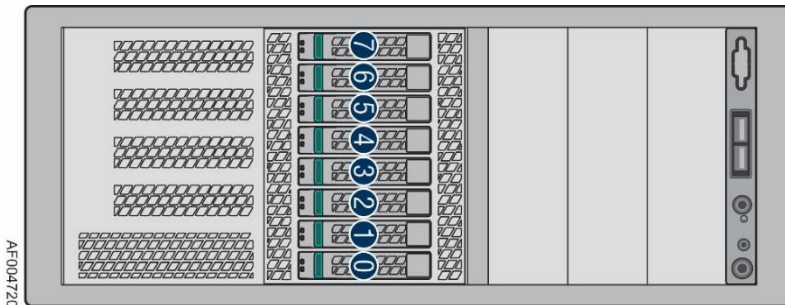


Figure 6. SATA/SAS 0-7

Table 13. 8x2.5" Hot-swap HDD Configuration Cable Guide

| Drive Support          | Cables for On-Board SATA Controller to Backplane  | Cables for On-Board SAS Controller on S2600CW2SR or S2600CWTSR to Backplane               | Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane  | Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane   |
|------------------------|---|---|---|---|
| <b>Hot-swap 8x2.5"</b> | SATA -> BP<br>sSATA -> BP<br>380 mm HD --- HD<br>(2) <b>AXXCBL380HDHD</b><br>The kit includes two cables. | SAS -> BP<br>380 mm HD --- HD<br>(2) <b>AXXCBL380HDHD</b><br>The kit includes two cables. | SAS Add-in card -> BP<br>650 mm HD --- HD<br>(2) <b>AXXCBL650HDHD</b><br>The kit includes two cables. | SAS Add-in card -> BP<br>650 mm HD --- MS<br>(2) <b>AXXCBL650HDMS</b><br>The kit includes two cables. |

### 3.2.5 16x2.5" Hot-swap SAS/SATA HDD Cable Guide

The 16x2.5" hot-swap hard drive configuration is an upgrade option that requires two hot-swap hard drive cage kits - iPC **FUP8X25S3HSDK**. The Mini-SAS cable kits - iPC **AXXCBL380HDHD**, **AXXCBL650HDHD** or **AXXCBL650HDMS** must be ordered separately.

**NOTE:** For data cable information associated with Intel® Accessory Kit **FUP8X25S3NVDK**, see section 3.2.6

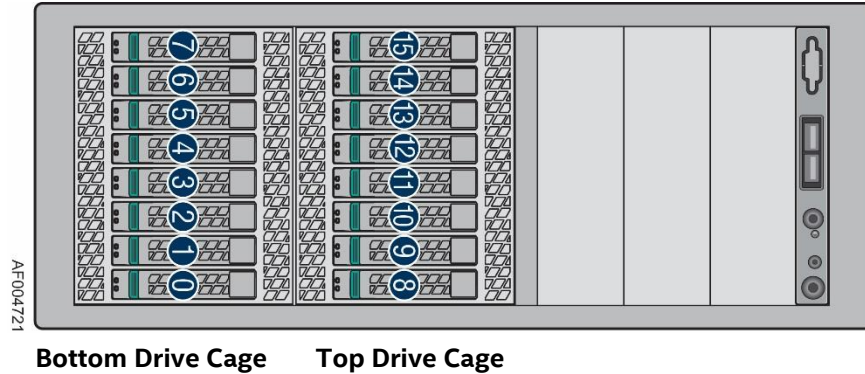


Figure 7. SATA/SAS 0-15

#### 3.2.5.1 16x2.5" Hot Swap HDD SAS/SATA Cable Guide (with No SAS expander)

For S2600CW2SR and S2600CWTSR, 16x2.5" drives can be used without the need to install an expander or additional RAID PCIe card. The 16 drives will be split in two different groups of eight drives each; one managed by the On-Board SATA controller and the other managed by the On-Board SAS controller.



Table 14. 16x2.5" Hot-swap HDD Cable Guide (with no SAS Expander)

| Drive Support                  | Cables for On-Board SATA Controller to Backplane   | Cables for On-Board SAS Controller on S2600CW2SR or S2600CWTSR to Backplane                                 | Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane   | Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane   |
|--------------------------------|--|---|--|---|
| Top and Bottom Hot-swap 8x2.5" | SATA -> BP<br>sSATA-> BP<br>380 mm HD --- HD<br>(2) <b>AXXCBL380HDHD</b> per cage.<br>The kit includes two cables. | SAS onboard -> BP<br>380 mm HD --- HD<br>(2) <b>AXXCBL380HDHD</b> per cage.<br>The kit includes two cables. | SAS Add-in Card -> BP<br>650 mm HD --- HD<br>(2) <b>AXXCBL650HDHD</b> per cage.<br>The kit includes two cables | SAS Add-in Card -> BP<br>650 mm HD --- MS<br>(2) <b>AXXCBL650HDMS</b> per cage.<br>The kit includes two cables. |

### 3.2.5.2 16x2.5" Hot Swap HDD SAS/SATA Cable Guide (with SAS expander)

SAS drive configurations consisting of more than 8 drives may require the addition of a SAS Expander card. In a 16x2.5" system configuration, the SAS expander **RES3FV288** must be installed in any available PCIe add-in slot, or when using **RES3TV360**, the card must be installed between the system fans and the backplane of the HDD cages. Intel provides two SAS expander options to support this drive configuration, see the following table.

**Table 15. SAS Expanders compatible with Intel® Server Boards S2600CW Family**

| Intel Product Code   | Order Information  | Product Description  | Product Type  |
|--|--|--|---|
| <p><b>iPC – RES3FV288</b></p>  <p>Intel® RAID Expander<br/>RES3FV288</p>  | <p>MM# – 932895<br/>UPC – 00735858287548<br/>EAN – 5032037067287<br/>MOQ - 5</p> | <p><b>SAS 3.0 12 Gb/s expander</b></p> <ul style="list-style-type: none"> <li>Featuring 6 Gbps data aggregation for 12 Gbps data transfer with 6 Gb/s devices</li> <li>Low Profile MD2 PCIe* add-in card form factor</li> <li>28 internal ports and 8 external ports</li> <li>Redundant dual-port capable for HA and high performance systems</li> <li>Power from PCIe x1</li> <li>HD Mini-SAS 8643 Connectors</li> </ul> <p>Kit includes: (1) SAS Expander card, (2) HD-HD 250mm Expander-to-RAID card cables, PCI brackets for Low profile and Full height</p> <p>Required (sold separately): HD-HD SAS DATA Cables – Expander to backplane – See Table 16</p> | <ul style="list-style-type: none"> <li>Accessory Kit</li> </ul> |
| <p><b>iPC – RES3TV360</b></p>  <p>Intel® RAID Expander<br/>RES3TV360</p> | <p>MM# – 932894<br/>UPC – 00735858287364<br/>EAN – 5032037067102<br/>MOQ - 5</p> | <p><b>SAS 2.0 12 Gb/s expander</b></p> <ul style="list-style-type: none"> <li>36-port, 12 Gb/s-capable expander card</li> </ul> <p>Kit includes: (1) 12 Gb/s SAS Expander card, (2) Cables to connect to 24-ports on nearby drive backplane</p> <p>Required (sold separately): HD-HD SAS Expander-to-RAID Data Cables for connecting – See Table 16</p>  | <ul style="list-style-type: none"> <li>Accessory Kit</li> </ul> |

**NOTE:** The onboard SATA ports are not compatible with SAS Expander cards. The onboard SATA ports can only be cabled directly to a specified backplane or HDD.

Table 16. Hot-swap HDD Cable Guide (with SAS Expander)

| Drive Support                                | Cables for On-Board SATA Controller to Backplane | Cables for On-Board SAS Controller on S2600CW2SR or S2600CWTSR + 12 Gb SAS Expander to Backplane  | Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane   | Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane  |
|--|--|---|--|--|
| <p><b>Top and Bottom Hot-swap 8x2.5"</b></p> | <p>N/A</p>                                       | <p>With RES3FV288 Expander installed on PCIe slot:</p> <ul style="list-style-type: none"> <li>- Use cables in Expander Kit to attach SAS ROC to Expander Card.</li> <li>- To connect the expander to Backplane use cable (2) <b>AXXCBL650HDHD</b> per cage. The kit includes two cables.</li> </ul> <p>With RES3TV360 Expander installed in the space between the system fans and backplanes:</p> <ul style="list-style-type: none"> <li>- Use cables in Expander Kit to attach Expander to backplane.</li> <li>- For connect the SAS ROC to Expander use cable (2) <b>AXXCBL380HDHD</b>. The kit includes two cables.</li> </ul> | <p>With RES3FV288 Expander installed on PCIe slot:</p> <ul style="list-style-type: none"> <li>- Use cables in Expander Kit to attach PCIe SAS card to Expander Card.</li> <li>- To connect the expander to Backplane use cable (2) <b>AXXCBL650HDHD</b> per cage. The kit includes two cables.</li> </ul> <p>With RES3TV360 Expander installed in the space between the system fans and backplanes:</p> <ul style="list-style-type: none"> <li>- Use cables in Expander Kit to attach Expander to backplane.</li> <li>- For connect the PCIe SAS to Expander use cable (2) <b>AXXCBL380HDHD</b>. The kit includes two cables.</li> </ul> | <p>With RES3FV288 Expander installed on PCIe slot:</p> <ul style="list-style-type: none"> <li>- Use cables in Expander Kit to attach PCIe SAS card to Expander Card.</li> <li>- To connect the expander to Backplane use cable (2) <b>AXXCBL650HDMS</b> per cage. The kit includes two cables.</li> </ul> <p>With RES3TV360 Expander installed in the space between the system fans and backplanes:</p> <ul style="list-style-type: none"> <li>- Use cables in Expander Kit to attach Expander to backplane.</li> <li>- For connect the PCIe SAS to Expander use cable (2) <b>AXXCBL650HDMS</b>. The kit includes two cables.</li> </ul> |

### 3.2.6 8x2.5" Hot-swap HDD SAS/SATA Cable Guide for Combo PCIe\* SFF (NVMe\*) SSD / SAS Backplane (iPC FUP8X25S3HSDK)

The 8x2.5" combo backplane kit is capable of supporting a combination of both SAS devices and up to four PCIe\* SFF (Small Form Factor) (NVMe) SSD drives. All eight drive connectors are capable of supporting a SAS device, but only four include SFF8639 connectors that can support PCIe\* SFF (NVMe) SSDs. Mini-SAS cable kits - iPC **AXXCBL380HDHD**, **AXXCBL650HDHD** or **AXXCBL650HDMS** need to be ordered separately.

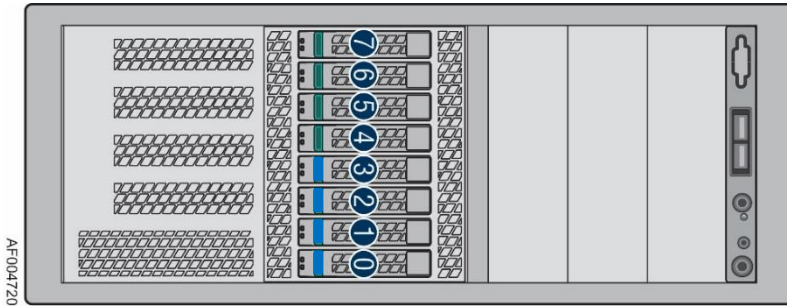


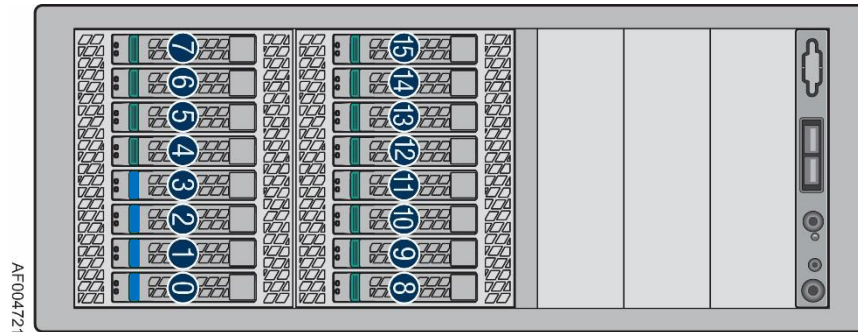
Figure 8 SATA/SAS 0-7

Table 17. Combo Backplane Module Placement – 8 x 2.5" front drive configurations

| Drive Support   | Cables for On-Board SATA Controller to Backplane   | Cables for On-Board SAS Controller on S2600CW2SR or S2600CWTSR to Backplane  | Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane   | Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane   |
|---|--|--|--|---|
| <p><b>Hot-swap 8x2.5" Combo SAS / SATA + PCIe* SSD SFF (NVMe)</b><br/>12 Gb SAS capable</p> <p>PCIe* cables included in accessory kit. For SAS/SATA support, see the following options.</p> | <p>SATA -&gt; BP<br/>sSATA -&gt; BP<br/>380mm HD --- HD<br/>(2) <b>AXXCBL380HDHD</b><br/>The kit includes two cables.</p> <p>Use PCIe cables included with Combo backplane kit for PCIe* SSD / NVMe drive support.</p> | <p>SAS onboard -&gt; BP<br/>380mm HD --- HD<br/>(2) <b>AXXCBL380HDHD</b><br/>The kit includes two cables.</p> <p>Use PCIe cables included with Combo backplane kit for PCIe* SSD / NVMe drive support.</p> | <p>SAS Add-in card -&gt; BP<br/>650mm HD --- HD<br/>(2) <b>AXXCBL650HDHD</b><br/>The kit includes two cables.</p> <p>Use PCIe cables included with Combo backplane kit for PCIe* SSD / NVMe drive support.</p> | <p>SAS Add-in card -&gt; BP<br/>650mm HD --- MS<br/>(2) <b>AXXCBL650HDMS</b><br/>The kit includes two cables.</p> <p>Use PCIe* cables included with Combo backplane kit for PCIe* SSD / NVMe drive support.</p> |

### 3.2.7 16x2.5" Hot-swap SAS/SATA HDD with Combo PCIe\* SFF (NVMe\*) SSD / SAS Backplane (iPC FUP8X25S3HSDK) cable guide

The 8x2.5" combo backplane kit is capable of supporting a combination of both SAS devices and up to four PCIe\* SFF (Small Form Factor) (NVMe) SSD drives. All eight drive connectors are capable of supporting a SAS device, but only four include SFF8639 connectors that can support PCIe\* SFF (NVMe) SSDs. The PCIe x16 interface add-in card MUST be installed on a x16 PCIe physical/electrical slot. Refer to the S2600CW Family TPS for more information. The system is limited to supporting only one combo backplane kit in addition to one or two other backplane options.



Bottom Drive Cage Top Drive Cage  
Figure 9. SATA/SAS 0-15


Table 18. Combo Backplane Module Placement – 16 x 2.5" front drive configurations



| Drive Support   | Cables for On-Board SATA Controller to Backplane   | Cables for On-Board SAS Controller on S2600CW2SR or S2600CWTSR to Backplane   | Cables for 12 Gb SAS RAID PCIe* add-in card to Backplane   | Cables for 6 Gb SAS RAID PCIe* add-in card to Backplane  |
|---|--|---|--|--|
| <p><b>Hot-swap 8x2.5" &amp; Hot-swap 8x2.5" Combo SAS / SATA + PCIe* SSD SFF (NVMe)</b></p> <p>Cabling options are the same for Top and Bottom Bay.</p> | <p>SATA -&gt; BP<br/>sSATA -&gt; BP<br/>380 mm HD --- HD<br/>(2) <b>AXXCBL380HDHD</b> per cage<br/>The kit includes two cables.</p> <p>Use PCIe cables included with Combo backplane kit for PCIe* SSD / NVMe drive support.</p> | <p>SAS onboard-&gt; BP<br/>380 mm HD --- HD<br/>(2) <b>AXXCBL380HDHD</b> per cage<br/>The kit includes two cables.</p> <p>Use PCIe cables included with Combo backplane kit for PCIe* SSD / NVMe drive support.</p> | <p>SAS Add-in card -&gt; BP<br/>650 mm HD --- HD<br/>(2) <b>AXXCBL650HDHD</b> per cage<br/>The kit includes two cables.</p> <p>Use PCIe cables included with Combo backplane kit for PCIe* SSD / NVMe drive support.</p> | <p>SAS Add-in card -&gt; BP<br/>650 mm HD --- MS<br/>(2) <b>AXXCBL650HDMS</b> per cage<br/>The kit includes two cables.</p> <p>Use PCIe cables included with Combo backplane kit for PCIe* SSD / NVMe drive support.</p> |



### 3.3 Intel® SAS / SATA Data Cable Kits

Table 19. Storage Data Cable Kit Description and Order Information

| Intel Product Code  | Order Information  | Product Description  |
|---|--|--|
| <p><b>iPC - FXXSSIPWR</b></p>        | <p>MM# - 936430<br/>                     UPC - 00735858289702<br/>                     EAN - 5032037068642<br/>                     MOQ - 10</p> | <p>Power adapter/dongle for chassis with limited space access for board power connectors<br/> <b>NOTE:</b> not required in Intel chassis</p>   |
| <p><b>iPC - AXXRJ45DB93</b></p>      | <p>MM# - 920430<br/>                     UPC - 00735858242820<br/>                     EAN - 5032037037525<br/>                     MOQ - 1</p>  | <p>Serial adapter Kit with the following cables:</p> <ul style="list-style-type: none"> <li>• 1040 mm Serial 10pin header to DB9 Cable</li> <li>• 520 mm Serial 10pin header to DB9 Cable</li> <li>• 100 mm DCD RJ45 to DB9 Cable</li> <li>• 100 mm DSR RJ45 to DB9 Cable</li> </ul> |
| <p><b>iPC - AXXCBL380HDHD</b></p>   | <p>MM# - 936427<br/>                     UPC - 00735858284738<br/>                     EAN - 5032037065023<br/>                     MOQ - 1</p>  | <p>380 mm long, cable kit (2 cables included).<br/>                     Straight SFF8643 to straight SFF8643<br/>                     Used for connecting Hot Swap drive cages to mainboard SATA ports.</p>  |
| <p><b>iPC - AXXCBL450HD7S</b></p>  | <p>MM# - 936428<br/>                     UPC - 00735858287388<br/>                     EAN - 5032037067126<br/>                     MOQ - 1</p>  | <p>450 mm long, cable kit (2 cables included).<br/>                     Straight SFF8643 to straight 7-pin SATA.<br/>                     Used to connect fixed SATA drives to mainboard SATA ports.<br/>                     Spare for cables shipped with chassis.</p>             |

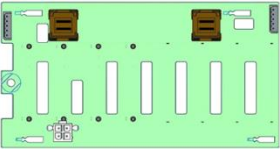


| Intel Product Code  | Order Information   | Product Description   |
|---|---|---|
| <p><b>iPC - AXXCBL650HDMS</b></p>  | <p>MM# - 927237<br/>                     UPC - 735858266963<br/>                     EAN - 5032037053631<br/>                     MOQ - 1</p> | <p>650 mm long, cable kit (2 cables included).<br/>                     Straight MiniSAS-HD (SFF8643) to straight Mini-SAS (SFF8087)<br/>                     Used to connect 6G/s SAS cards (with SFF-8087 connectors) to backplanes</p>     |
| <p><b>iPC - AXXCBL650HDHD</b></p>  | <p>MM# - 937129<br/>                     UPC - 735858284752<br/>                     EAN - 5032037065047<br/>                     MOQ - 1</p> | <p>650 mm long, cable kit (2 cables included).<br/>                     Straight MiniSAS-HD (SFF8643) to straight MiniSAS-HD (SFF8643)<br/>                     Used to connect 12 G/s SAS cards (with SFF-8643 connectors) to backplanes</p> |
| <p><b>iPC - AXXCBL900HD7R</b></p>   | <p>MM# - 937316<br/>                     UPC - 735858286640<br/>                     EAN - 5032037066549<br/>                     MOQ - 1</p> | <p>Cable kit with two 730 mm cables for straight MiniSAS-HD (SFF8643) to right angle 7-pin connectors</p>   |
| <p><b>iPC - AXXCBL740MS7P</b></p>   | <p>MM# - 914239<br/>                     UPC - 735858220743<br/>                     EAN -<br/>                     MOQ - 1</p>               | <p>Cable Kit with two 740 mm cables.<br/>                     Each cable has a Mini-SAS (SFF8087) connector on one end and four 7-Pin (SATA style) connectors on the other</p>  |

## 4. Intel® Server System Configuration Options

The following sections identify available accessory kits supported within the Intel® S2600CW product family.

### 4.1 Intel® SAS/SATA Backplane Options

Table 20. Intel® SAS Bridge Board


| Intel Product Code  | Order Information  | Product Description   | Product Type  |
|---|--|---|---|
| <b>iPC - FUP4X35S3HSBP</b><br>   | MM# - 936423<br>UPC - 00735858289979<br>EAN - 5032037068819<br>MOQ - 1 | Spare 4x3.5" Hot Swap Backplane for use with P4000 server chassis   | <ul style="list-style-type: none"> <li>Accessory kit</li> </ul> |
| <b>iPC - FXX8X25S3HSBP</b><br>   | MM# - 934890<br>UPC - 00735858288804<br>EAN - 5032037068086<br>MOQ - 1 | Spare 8x2.5" Single Port Hot Swap Backplane for use with P4000 server chassis   | <ul style="list-style-type: none"> <li>Accessory kit</li> </ul> |
| <b>iPC - FUP4X35S3HSDK</b><br>  | MM# - 936623<br>UPC - 00735858289993<br>EAN - 5032037068833<br>MOQ - 1 | <b>3.5" Hot Swap Drive Kit for P4000 server chassis</b><br>Includes:<br>(1) - Drive Cage<br>(1) - Hot Swap Back Plane - iPC - FUP4X35S3HSBP<br>(4) - 3.5 "Hot Swap Drive carriers - iPC FXX35HSCAR<br>(1) - I <sup>2</sup> C cable<br>(1) - ID filler panel   | <ul style="list-style-type: none"> <li>Accessory kit</li> </ul> |
| <b>iPC - FUP8X25S3HSDK</b><br> | MM# - 936425<br>UPC - 00735858290005<br>EAN - 5032037068840<br>MOQ - 1 | <b>8x2.5" Hot Swap Drive Cage Kit for P4000 server chassis</b><br>Includes:<br>(1) - Drive Cage<br>(1) - Hot Swap Back Plane - iPC - FXX8X25S3HSBP<br>(8) - 2.5 "Hot Swap Drive carriers - iPC FXX25HSCAR<br>(1) - I <sup>2</sup> C cable<br>(1) - Power adaptor cable accessory<br>(1) - ID filler panel | <ul style="list-style-type: none"> <li>Accessory kit</li> </ul> |

| Intel Product Code  | Order Information   | Product Description  | Product Type  |
|---|---|--|---|
| <p><b>iPC - FUP8X25S3NVDK</b></p>  | <p>MM# - 936426<br/>                     UPC - 00735858290012<br/>                     EAN - 5032037068857<br/>                     MOQ - 1</p> | <p><b>8x2.5" Hot Swap PCIe COMBO Drive Cage Kit</b><br/>                     This accessory kit enables support for 2.5" SFF PCIE SSDs (NVMe)<br/>                     Includes:<br/>                     (1) - Drive Cage<br/>                     (1) - Hot Swap COMBO Back Plane<br/>                     (8) - 2.5 "Hot Swap Drive carriers - iPC FXX25HSCAR<br/>                     (2) - 600 mm long PCI data cables<br/>                     (1) - PCIe slot adaptor board<br/>                     (1) - I2C cable<br/>                     (1) - Power adaptor cable accessory<br/>                     (1) - ID filler panel<br/>                     (1) - PEM cable</p> | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |
| <p><b>iPC - FXX35HSADPB</b></p>    | <p>MM# - 912771<br/>                     UPC - 00735858219495<br/>                     EAN - 5032037016391<br/>                     MOQ - 8</p> | <p><b>3.5" HDD Hot Swap Drive Carrier</b><br/>                     Includes:<br/>                     (8) - 3.5" hot-swap HDD carrier<br/>                     (1 set) - screws</p>  | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |
| <p><b>iPC - FXX25HSCAR</b></p>    | <p>MM# - 918807<br/>                     UPC - 00735858241182<br/>                     EAN - 5032037035910<br/>                     MOQ - 8</p> | <p><b>2.5" HDD Hot Swap Drive Carrier spares</b><br/>                     Includes:<br/>                     (8) - 2.5" hot-swap HDD carrier<br/>                     (1 set) - screws</p>   | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |

## 4.2 Locking Front Bezel Accessory Kit

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

Table 21. List of Front Bezel Accessory Kit

| Intel Product Code   | Order Information   | Product Description  | Product Type   |
|--|---|--|--|
| <p><b>iPC - FUPBEZELHSD2</b></p>  | <p>MM# - 925749<br/>                     UPC - 00735858254656<br/>                     EAN - 5032037035880<br/>                     MOQ - 1</p> | <p><b>Bezel Spare</b></p> <p>Bezel Spare FUPBEZELHSD2 for P4000 Chassis Supporting Hot Swap HDDs.<br/>                     Contains bezel with door, lock, keys.</p> | <ul style="list-style-type: none"> <li>• Accessory kit</li> <li>• Spare FRU for P4304XXMUXX</li> </ul> |

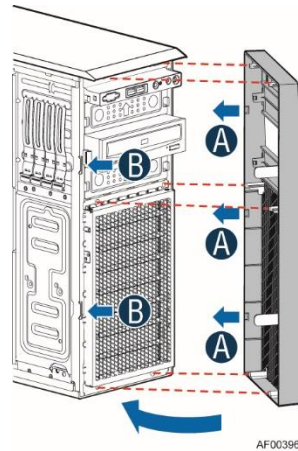


Figure 10. Installing the Front Bezel to the Chassis

Refer to the *Intel® Server Chassis P4304XXMFEN2/P4304XXMUXX Product Family Service Guide* for installation information.

### 4.3 Intel® SAS RAID Add-in Cards, Expanders and Accessories

Intel® RAID offers a broad portfolio of RAID solutions designed to address the storage-related challenges of the modern datacenter as well as small businesses. The Intel® S2600CW Server Board product family includes support for the latest generation of 12 Gb/s SAS Intel® RAID add-in cards, modules, expanders, and accessories. Previous 6 Gb/s Intel® RAID cards are also supported. Refer to 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.intel.com/content/www/us/en/servers/raid/integrated-raid-module-rms3-family-brief.html>

<https://www.intel.com/content/www/us/en/products/servers/raid/raid-controllers.html?page=2>



#### 4.3.1 Intel® RAID Controller Add-in Cards – SAS 3.0 (12 Gb/s)

Table 22. Intel® RAID Controller Add-in Cards – SAS 3.0 (12 Gb/s)

| Intel Product Code   | Order Information  | Product Description  | Product Type  |
|--|--|--|---|
| <p><b>iPC - RS3GC008</b></p>    | <p>MM# - 928220<br/>UPC - 735858267175<br/>EAN - 5032037053839<br/>MOQ - 5</p> | <p><b>Intel® RAID Controller RS3GC008</b></p> <ul style="list-style-type: none"> <li>• Low Profile, half length, (MD2 Compliant) PCIe* add-in card</li> <li>• Entry Level SAS Card</li> <li>• Eight external SAS / SATA ports</li> <li>• LSI* SAS3008 IOC</li> <li>• RAID Levels – JBOD (SAS Connectivity)</li> </ul> <p><b>NOTE:</b> SAS Data cables are not included. Must be purchased separately.</p>  | <ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul> |
| <p><b>iPC - RS3SC008</b></p>  | <p>MM# - 928223<br/>UPC - 735858266956<br/>EAN - 5032037068567<br/>MOQ - 5</p> | <p><b>Intel® RAID Controller RS3SC008</b></p> <ul style="list-style-type: none"> <li>• Low Profile, half length, (MD2 Compliant) PCIe* add-in card</li> <li>• Eight external SAS / SATA ports</li> <li>• LSI* SAS3108 ROC</li> <li>• RAID Levels – 0, 1, 5, 6, 10, 50, and 60</li> <li>• Embedded 1 GB DDR3 Cache Memory</li> <li>• Supports Maintenance Free Backup Unit AXXRMFBU4.</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> |

### 4.3.2 Intel® SAS Expanders

Table 23. SAS Expanders compatible with Intel® Server Boards S2600CW Family

| Intel Product Code  | Order Information  | Product Description   | Product Type  |
|---|--|---|---|
| <p><b>iPC – RES3FV288</b></p>  <p>Intel® RAID Expander<br/>RES3FV288</p> | <p>MM# – 932895<br/>UPC – 00735858287548<br/>EAN – 5032037067287<br/>MOQ - 5</p> | <p><b>SAS 3.0 12 Gb/s expander</b></p> <ul style="list-style-type: none"> <li>• Featuring 6 Gbps data aggregation for 12 Gbps data transfer with 6 Gb/s devices</li> <li>• Low Profile MD2 PCIe* add-in card form factor</li> <li>• 28 internal ports and eight external ports</li> <li>• Redundant dual-port capable for HA and high performance systems</li> <li>• Power from PCIe x1</li> <li>• HD Mini-SAS 8643 Connectors</li> </ul> <p>Kit includes: (1) SAS Expander card, (2) HD-HD 250 mm Expander-to-RAID card cables, PCI brackets for Low profile and Full height</p> <p>Required (sold separately): HD-HD SAS DATA Cables – Expander to backplane – See Table 16</p> | <ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul> |
| <p><b>iPC – RES3TV360</b></p>  <p>Intel® RAID Expander<br/>RES3TV360</p> | <p>MM# – 932894<br/>UPC –00735858287364<br/>EAN – 5032037067102<br/>MOQ - 5</p>  | <p><b>SAS 2.0 12 Gb/s expander</b></p> <ul style="list-style-type: none"> <li>• 36-port, 12 Gb/s-capable expander card</li> </ul> <p>Kit includes: (1) 12 Gb/s SAS Expander card, (2) Cables to connect to 24-ports on nearby drive backplane</p> <p>Required (sold separately): HD-HD SAS Expander-to-RAID Data Cables for connecting – See Table 16</p>   | <ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul> |






**NOTE:** The onboard SATA ports are not compatible with SAS Expander cards. The onboard SATA ports can only be cabled directly to a specified backplane or HDD.

### 4.3.3 Intel® RAID Accessoried Options

Table 24. List of Intel® RAID Accessoried Options




| Intel Product Code   | Order Information   | Product Description   | Product Type  |
|--|---|---|---|
| <p><b>iPC - RKSATA4R5</b></p>     | <p>MM# - 916346<br/>                     UPC - 735858238861<br/>                     EAN - 5032037033640<br/>                     MOQ - 5</p>   | <p><b>Intel® RAID C600 Upgrade Key RKSATA4R5</b></p> <p>RAID activation key.<br/>                     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 - AXXRPFKHY5</b></p>    | <p>MM# - 933690<br/>                     UPC - 00735858276856<br/>                     EAN - 5032037060462<br/>                     MOQ - 5</p> | <p><b>Intel® RAID Hybrid RAID 5 activation key</b></p> <p>A RAID premium feature key that enables hybrid RAID 5 capability for select Intel® Server Boards with integrated SAS I/O controllers. Grey.</p> | <ul style="list-style-type: none"> <li>Accessory Kit</li> </ul> |
| <p><b>iPC - RMS25KB080</b></p>  | <p>MM - 924454<br/>                     UPC - 00735858239028<br/>                     EAN - 5032037033800<br/>                     MOQ - 5</p>  | <p><b>Intel® Integrated RAID Module RMS25KB080</b></p> <p>PCIe Slot, LSI2308 I/O Controller, 8P Internal SAS, LSI IR-based RAID 0,1,1E<br/>                     Requires PClex8 slot</p>                  | <ul style="list-style-type: none"> <li>Accessory Kit</li> </ul> |
| <p><b>iPC - RMS25KB040</b></p>  | <p>MM - 924455<br/>                     UPC - 00735858239035<br/>                     EAN - 5032037033817<br/>                     MOQ - 5</p>  | <p><b>Intel® Integrated RAID Module RMS25KB040</b></p> <p>PCIe Slot, LSI2308 I/O Controller, 4P SAS, LSI IR-based RAID 0,1,1E<br/>                     Requires PCIe x8 slot</p>                          | <ul style="list-style-type: none"> <li>Accessory Kit</li> </ul> |





| Intel Product Code   | Order Information  | Product Description   | Product Type  |
|--|--|---|---|
| <p><b>iPC - RMS25PB080</b></p>  | <p>MM# - 924868<br/>UPC - 00735858238946<br/>EAN - 5032037033725<br/>MOQ - 5</p> | <p><b>Intel® Integrated RAID Module RMS25PB080</b></p> <p>PCIe Slot, LSI2208 ROC, 8P Internal SAS/SATA, LSI MegaRAID-based Firmware, 1 GB DDR3, RAID 0,1,10,5,50,6,60<br/>Requires PCIe x8 slot</p>   | <ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul> |
| <p><b>iPC - RMS25PB040</b></p>  | <p>MM# - 924869<br/>UPC - 00735858238953<br/>EAN - 5032037033732<br/>MOQ - 5</p> | <p><b>Intel® Integrated RAID Module RMS25PB040</b></p> <p>PCIe Slot, LSI2208 ROC, 4P Internal SAS/SATA, LSI MegaRAID-based Firmware, 1 GB DDR3, RAID 0,1,10,5,50,6,60<br/>Requires PCIe x8 slot</p>   | <ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul> |
| <p><b>iPC - RMT3PB080</b></p>   | <p>MM# - 924870<br/>UPC - 735858238960<br/>EAN - 5032037033749<br/>MOQ - 5</p>   | <p><b>Intel® Integrated RAID Module RMT3PB080</b></p> <p>PCIe Slot, LSI2208 ROC, 8P Internal SATA (only), LSI MegaRAID-based Firmware, 512MB DDR3, Restricted to use only SATA drives, R0,1,10,5,50,6,60<br/>Requires PCIe* x8 slot</p>   | <ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul> |
| <p><b>iPC - AXRMFBU2</b></p>   | <p>MM# - 926341<br/>UPC - 00735858244541<br/>EAN - 5032037039116<br/>MOQ - 5</p> | <p><b>Intel® RAID Maintenance Free Backup Unit</b></p> <p>Maintenance Free Backup Unit for Intel® Intergrated RAID Modules of the RS25, RMS25, RT3 and RMT3 Families. (Supercapacitor module)</p> <p>Includes supercapacitor module, NAND flash module, cables and bracket.</p> | <ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul> |
| <p><b>iPC - AXRSBBU9</b></p>  | <p>MM# - 919738<br/>UPC - 00735858220286<br/>EAN - 5032037039567<br/>MOQ - 5</p> | <p><b>Intel® RAID Smart Battery AXRSBBU9</b></p> <p>Intel® RAID Smart Battery AXRSBBU9 provides optional battery backup for mainstream RS25 family RAID products.</p> <p>Includes Battery, mounting bracket and cables.</p>   | <ul style="list-style-type: none"> <li>• Accessory Kit</li> </ul> |

## 4.4 Intel® Power Supply Module And Power Cords

Table 25. Intel® Power Supply Module And Power Cords

| Intel Product Code  | Order Information  | Product Description   | Product Type   |
|---|--|---|--|
| <p><b>iPC – FXX750PCRPS</b></p>    | <p>MM# - 915604<br/>UPC - 00735858234979<br/>EAN - 5032037030601<br/>MOQ - 1</p> | <p>750 W Common Redundant Power Supply (CRPS) spare<br/>80Plus Platinum efficiency.<br/><br/>Power cord sold separately</p> | <ul style="list-style-type: none"> <li>• Building block option</li> </ul>                                      |
| <p><b>iPC – FXX1600PCRPS</b></p>   | <p>MM# - 915606<br/>UPC - 735858243650<br/>EAN - 5032037038294<br/>MOQ - 1</p>   | <p>1600 W AC Common Redundant Power Supply 80Plus<br/>Platinum-Efficiency<br/><br/>Power cord sold separately</p>           | <ul style="list-style-type: none"> <li>• Building block option</li> </ul>                                      |
| <p><b>iPC – FUPNRPSADP</b></p>  | <p>MM# - 912769<br/>UPC - 00735858219471<br/>EAN - 5032037016278<br/>MOQ - 1</p> | <p>P4000 Non-Redundant Power Supply adaptor kit<br/>Includes:<br/>Bracket<br/>Screws<br/>Locker</p>                         | <ul style="list-style-type: none"> <li>• Building block option</li> </ul>                                      |
| <p><b>iPC – FUPCRPSCAGE</b></p>  | <p>MM# - 915607<br/>UPC - 00735858235891<br/>EAN - 5032037030656<br/>MOQ - 1</p> | <p>Common Pedestal CRPS PSU cage assembly (cage,<br/>adaptor bracket, screws, supporting bulkhead, 1x blank<br/>filler)</p> | <ul style="list-style-type: none"> <li>• Building block option</li> <li>• Spare FRU for P4304XXMUXX</li> </ul> |


| Intel Product Code  | Order Information   | Product Description   | Product Type  |
|---|---|---|---|
| <p><b>iPC - FUPPDBHC2</b></p>    | <p>MM# - 936420<br/>                     UPC - 00735858290036<br/>                     EAN - 5032037068871<br/>                     MOQ - 1</p> | <p>Spare Power Distribution Board (High Current) for P4000CW server chassis. Used with FXX750PCRP, or FXX1600PCRP power supplies.</p> | <ul style="list-style-type: none"> <li>• Building block kit</li> <li>• Spare FRU for P4304XXMUXX</li> </ul> |
| <p><b>iPC - FPWRCABLENA</b></p>  | <p>MM# - 879287<br/>                     UPC - 00735858181129<br/>                     EAN - 5032037015738<br/>                     MOQ - 1</p> | <p>North American Power Cord Spare</p>  | <ul style="list-style-type: none"> <li>• Spare FRU for North American customers</li> </ul>                  |

## 4.5 Rack Options

The Intel® Server Chassis P4304XXMFEN2/P4304XXMUXX can be converted to rack system with the rack bezel kit and rack rail option. Refer to Intel® Server Chassis P4000 Family Service Guide for intallation information.

### 4.5.1 Rack Bezel Accessories



**Table 26. List of Rack Bezel Accessories**

| Intel Product Code  | Order Information   | Product Description  | Product Type  |
|---|---|--|---|
| <p><b>iPC - AUPBEZEL4UF</b></p>   | <p>MM# - 915636<br/>                     UPC - 00735858235976<br/>                     EAN - 5032037030731<br/>                     MOQ - 1</p> | <p><b>Rack Bezel frame</b></p> <p>Rack bezel kit for converting P4000 pedestal server chassis to rack chassis.</p> <p>Includes:<br/>                     (1) - Bezel frame<br/>                     (2) - Rack handles</p>                             | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |
| <p><b>iPC - AUPBEZEL4UD</b></p>  | <p>MM# - 915637<br/>                     UPC - 00735858235983<br/>                     EAN - 5032037030748<br/>                     MOQ - 1</p> | <p><b>Rack Bezel Door</b></p> <p>Rack bezel accessory for P4000M/P4000L/P4000L-WS chassis in rack configuration - security door only. Requires rack bezel frame - iPC AUPBEZEL4UF to be installed.</p> <p>Included: snap in door with lock and key</p> | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |

## 4.5.2 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, causing 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 27. List of Rack Mount Kits**


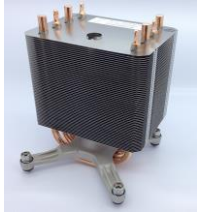

| Intel Product Code  | Order Information  | Product Description  | Product Type  |
|---|--|--|---|
| <b>iPC - AXXELVRAIL</b><br>  | MM# - 920970<br>UPC - 735858244367<br>EAN - 5032037038980<br>MOQ - 1 | <ul style="list-style-type: none"> <li>Value Rail Kit, half extension, extended inner slide member.</li> <li>Tool-less Chassis attachment (optional screws)</li> <li>Tools required to attach rails to rack</li> <li>½ extension from rack Tool-less chassis attachment (optional screws)</li> <li>Works for 438 mm wide Intel 2U/4U Rack Chassis and System families</li> </ul> | <ul style="list-style-type: none"> <li>Accessory kit</li> </ul> |
| <b>iPC -AXX3U5UPRAIL</b><br> | MM# - 915634<br>UPC - 735858236119<br>EAN - 5032037030892<br>MOQ - 1 | <ul style="list-style-type: none"> <li>Advanced rail kit for P4000 Server Chassis used when converting Pedestal chassis to 4U rack chassis.</li> <li>Tool-Less installation</li> <li>Full extension from rack</li> <li>Stab in system installation</li> <li>Optional cable management arm support</li> <li>Includes: 2 rails</li> </ul>  | <ul style="list-style-type: none"> <li>Accessory kit</li> </ul> |
| <b>iPC -AXX3U5UCMA</b>  | MM# - 915635<br>UPC - 735858236126<br>EAN - 5032037030908<br>MOQ - 1 | Rack Cable Management for use with Advanced Rail Kit AXX3U5UPRAIL for Intel® Server Chassis P4000 Family.  | <ul style="list-style-type: none"> <li>Accessory kit</li> </ul> |

## 5. Miscellaneous Accessory Options

Table 28. List of Miscellaneous Accessory Options

| Intel Product Code  | Order Information  | Product Description  | Product Type  |
|---|--|--|---|
| <p><b>iPC - AXXRMM4LITE</b></p>  | <p>MM# - 911660<br/>UPC - 735858219297<br/>EAN - 5032037014946<br/>MOQ - 1</p>   | <p><b>Intel® Remote Management Module 4 Lite Activation key</b></p> <p>Installation of this activation key on to the server board enables support for the following advanced server management features:</p> <ul style="list-style-type: none"> <li>• Integrated KVM with media Redirection</li> </ul> <p>Refer to the <i>Intel Remote Management Module 4 and Integrated Web Console Users Guide</i> for more information.</p>  | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |
| <p><b>iPC - AXXTPME5</b></p>     | <p>MM# - 919737<br/>UPC - 00735858240352<br/>EAN - 5032037035088<br/>MOQ - 1</p> | <p><b>Intel® Trusted Platform Module (TPM)</b></p> <p>A TPM is a hardware-based security device that addresses the growing concern of 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.</p> <p>AXXTPME5 implements TPM as per TPM PC Client specifications revision 1.2 by the Trusted Computing Group (TCG).</p> | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |

| Intel Product Code  | Order Information   | Product Description   | Product Type  |
|---|---|---|---|
| <p><b>iPC – AXXTPME6</b></p>     | <p>MM# – 947921<br/>                     UPC – 00735858314534<br/>                     EAN – 5032037086059<br/>                     MOQ – 1</p> | <p><b>Intel® Trusted Platform Module (TPM)</b></p> <p>A TPM is a hardware-based security device that addresses the growing concern of 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.</p> <p>AXXTPME6 implements TPM as per TPM PC Client specifications <b>revision 2.0</b> by the Trusted Computing Group (TCG).</p>   | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |
| <p><b>iPC – AXXTPME7</b></p>    | <p>MM# – 947922<br/>                     UPC – 00735858314541<br/>                     EAN – 5032037086066<br/>                     MOQ – 1</p> | <p><b>Intel® Trusted Platform Module (TPM)</b></p> <p><b>NOTE: AXXTPME7</b> is compatible for use in China</p> <p>A TPM is a hardware-based security device that addresses the growing concern of 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.</p> <p>AXXTPME7 implements TPM as per TPM PC Client specifications <b>revision 2.0</b> by the Trusted Computing Group (TCG).</p> | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |
| <p><b>iPC - BXSTS200C</b></p>  | <p>MM# - 915970<br/>                     UPC - 00735858221818<br/>                     EAN - 5032037014496<br/>                     MOQ - 1</p> | <p>Intel Boxed Thermal Solutions, heat sink combo with removable fan. For use with 2U/3U/4U/5U non-Intel chassis.</p>   | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |

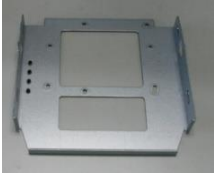


| Intel Product Code  | Order Information   | Product Description  | Product Type  |
|---|---|--|---|
| <p><b>iPC - BXSTS200P</b></p>    | <p>MM# - 915972<br/>                     UPC - 00735858221795<br/>                     EAN - 5032037014472<br/>                     MOQ - 1</p> | <p>Intel Boxed Thermal Solutions, passive 25.5 mm heat sink. For use with 1U non-Intel chassis.</p>  | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |
| <p><b>iPC - AUPCWPBTP</b></p>    | <p>MM# - 936421<br/>                     UPC - 00735858289566<br/>                     EAN - 5032037068529<br/>                     MOQ - 2</p> | <p>Spare/Accessory tower passive heat sinks, 92 mm x 100 mm. 2 are required with Intel® Server Board S2600CW in P4000 chassis if two processors are installed.</p> <p><b>NOTE:</b> minimum order quantity 2.</p> | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |
| <p><b>iPC - AUPMCOPROBR</b></p>  | <p>MM# - 926364<br/>                     UPC - 00735858257046<br/>                     EAN - 5032037049139<br/>                     MOQ - 1</p> | <p>Bracket for securing full length GPU cards to fan bulkhead, for use in P4000 chassis, includes 1 bracket, 2 GPGPU power cables, 2 Intel Xeon PHI™ specific brackets and 5 screws for GPGPU fixture.</p>       | <ul style="list-style-type: none"> <li>• Accessory kit</li> </ul> |





## 6. Spare and Replacement Parts (FRUs)

Table 29. List of Spare and Replacement Parts

| Intel Product Code  | Order Information  | Product Description  | Product Type  |
|---|--|--|---|
| <b>iPC -FUP550SNRPS</b><br>    | MM# - 915602<br>UPC - 00735858235839<br>EAN - 5032037030588<br>MOQ - 1 | 550 W Fixed 80Plus Silver efficiency power supply spare.<br><br>Power cord sold separately                     | <ul style="list-style-type: none"> <li>Spare FRU for P4304XXFEN2</li> </ul> |
| <b>iPC - FXXFPANEL</b><br>     | MM# - 915982<br>UPC - 00735858222419<br>EAN - 5032037018968<br>MOQ - 1 | Front Panel board spare for P4000 server chassis   | <ul style="list-style-type: none"> <li>Spare FRU</li> </ul>                 |
| <b>iPC - FUPBEZELFIX2</b><br> | MM# - 925750<br>UPC - 00735858254663<br>EAN - 5032037047593<br>MOQ - 1 | Bezel spare for P4000 server chassis with fixed drives (no door)   | <ul style="list-style-type: none"> <li>Spare FRU</li> </ul>                 |
| <b>iPC - A4UCWDUCT</b>  | MM# - 936419<br>UPC - 00735858290029<br>EAN - 5032037068864<br>MOQ - 1 | Spare Airduct for S2600CW server board support in P4000 chassis family   | <ul style="list-style-type: none"> <li>Spare FRU</li> </ul>                 |
| <b>iPC - AXXCWIOS</b>   | MM# -936422<br>UPC - 735858289986<br>EAN - 5032037068826<br>MOQ - 50   | <b>PRODUCT DISCONTINUED - EOL (PCN 117036-0)</b><br>I/O Shield spare/accessory for Intel® Server Board S2600CW | <ul style="list-style-type: none"> <li>Spare FRU</li> </ul>                 |

| Intel Product Code  | Order Information  | Product Description   | Product Type  |
|---|--|---|---|
| <p><b>iPC - FUP4X35NHDK</b></p>  | <p>MM# - 912770<br/>UPC - 735858219488<br/>EAN - 5032037016247<br/>MOQ - 4</p> | <p>Fixed Drive Carrier spare for P4300 server chassis<br/>(also compatible with 2.5" HDDs/SSDs)</p>   | <ul style="list-style-type: none"> <li>• Spare FRU</li> </ul> |
| <p><b>iPC - FUPMMSK</b></p>   | <p>MM# - 915638<br/>UPC - 735858235990<br/>EAN - 5032037030755<br/>MOQ - 1</p> | <p>Chassis Maintenance kit for P4000M Server Chassis– (Mechanical Spares Kit)</p> <p>Includes EMI cover, ODD rail, PCI card retainer {4x 3.5" EMI cover, 8x 3.5" EMI cover, ODD rail x4, #6-32 screw x20, M3x12 USB cable screw x2, M2x10 Intrusion cable</p> | <ul style="list-style-type: none"> <li>• Spare FRU</li> </ul> |
| <p><b>iPC - FUPMESK</b></p>      | <p>MM# - 915653<br/>UPC - 735858236003<br/>EAN - 5032037030762<br/>MOQ - 1</p> | <p>Chassis Maintenance kit for P4000 Server Chassis– (Electric Spares Kit)</p> <p>Includes power cable extension, 1x4 -&gt; 2x2 power adaptor cable accessory (for 2.5" HDD connector)</p>  | <ul style="list-style-type: none"> <li>• Spare FRU</li> </ul> |
| <p><b>iPC - FUPMLHSFAN</b></p>  | <p>MM# - 915620<br/>UPC - 735858235969<br/>EAN - 5032037030724<br/>MOQ - 1</p> | <p>80 mm system fan kit for P4000 server chassis includes fan, fan holder, for use in redundant cooling configuration.</p>  | <ul style="list-style-type: none"> <li>• Spare FRU</li> </ul> |

| Intel Product Code  | Order Information   | Product Description   | Product Type  |
|---|---|---|---|
| <p><b>iPC - FUPNHFANCPU</b></p>  | <p>MM# - 919572<br/>                     UPC - 735858236034<br/>                     EAN - 5032037030793<br/>                     MOQ - 1</p>   | <p>Fixed Fan Spare Kit for P4000 chassis for CPU area fan.</p> <p>Includes: (1) 120 mm fixed fan.</p> | <ul style="list-style-type: none"> <li>• Spare FRU</li> </ul> |
| <p><b>iPC - FUPMNHANPCI</b></p>  | <p>MM# - 919575<br/>                     UPC - 00735858236041<br/>                     EAN - 5032037030809<br/>                     MOQ - 1</p> | <p>Fixed Fan spare kit for P4000 chassis for PCI area fan.</p> <p>Includes: (1) 120 mm fixed fan.</p> | <ul style="list-style-type: none"> <li>• Spare FRU</li> </ul> |

## 7. Software Security – McAfee\* Antivirus for Intel® Server Systems

McAfee\* Antivirus for Intel® Server Systems Accessory is a software accessory offered with the Intel Server Board S2600CW Product family as an orderable SKU. McAfee Antivirus for Enterprise provides world class malware detection with proactive protection against attacks.

The McAfee Antivirus for Intel Server Systems Accessory consists of the latest version of either [McAfee\\* VirusScan Enterprise \(Windows\)](#) or [McAfee\\* VirusScan Enterprise for Linux](#) and contains either a 1 (one)- or 3 (three) –year downloadable license with 1 (one) or 3 (three) year renewals at the end of the licensing term.

### 7.1 How to order it

Customers have the opportunity to purchase McAfee Antivirus for Intel Server Systems from an Intel authorized distributor. Upon placing an order for one or more McAfee Antivirus for Intel® Server Systems SKU(s) and registering their purchase, customer will receive a certificate from McAfee, asking them to register the software. Once registered, they a grant letter from McAfee that includes download instructions will be provided.

Go to <http://www.intelserveredge.com/mcafeeaccessory/> for more information.

**NOTE:** This accessory will only be offered from the Intel site with a qualifying Intel Server System purchase. Learn more at <http://www.intelserveredge.com/mcafeeaccessory/>



### 7.2 McAfee\* Antivirus for Intel® Server Systems SKUs

Table 30. McAfee\* Antivirus for Intel® Server Systems SKUs

| SKU Name     | Description   | Supported Operating Systems   |
|--------------|---|---|
| SWMAVSE1YR   | <b>1 year license</b> (30-day grace period at the end of the term),<br>Two download options: McAfee VirusScan Enterprise or McAfee VirusScan Enterprise for Linux*.<br><b>*Renewal option available for 1- and 3- year terms.</b> | P1 Operating Systems from the server Tested Hardware, Memory, Operating System List (THOL). |
| SWMAVSE3YR   | <b>3 year license</b> (30-day grace period at end of the term).<br>Two download options: McAfee VirusScan Enterprise or McAfee VirusScan Enterprise for Linux*.<br><b>*Renewal option available for 1- and 3- year terms.</b>     |   |
| SWMAVSERN1YR | <b>1 year renewal of existing license.</b><br><b>Renewal option available.</b>  |   |
| SWMAVSERN3YR | <b>3 year renewal of existing license.</b><br><b>Renewal option available.</b>  |   |

## 8. Extended Warranty

Table 31. Extended Warranty

| Image   | Order Information   | Description  |
|---|---|--|
|  <p>Intel iPC - SVCEWDPSY<br/>MM# - 911295<br/>MOQ - 1</p> | <p><b>iPC - SVCEWDPSY</b></p> <p>MM# - 911295<br/>MOQ - 1</p> | <p>Two year extended warranty for Intel® Server Systems or Intel® Server Knock Down Kits + Intel® Server Boards that support two processors. Intel® RAID controller extended warranty is purchased separately.</p> |
|  <p>Intel iPC - SVCEWDPBD<br/>MM# - 911294<br/>MOQ - 1</p> | <p><b>iPC - SVCEWDPBD</b></p> <p>MM# - 911294<br/>MOQ - 1</p> | <p>Two year extended warranty for Intel® Server Boards that support two processors.</p>  |

## Glossary of Terms

**Table 32. Acronyms and Terms**

| Acronym or Term    | Definition  |
|--------------------|---|
| CRPS               | Common Redundant Power Supply   |
| DMN                | Dedicated Management Network  |
| EAN                | International Article Number (Barcode)  |
| EMI                | Electromagnetic Interference  |
| ESRT2              | Intel® Embedded Server RAID Technology 2  |
| FDR Infiniband     | Fourteen Data Rate Infiniband   |
| FRU                | Field Replaceable Unit  |
| GPGPU              | General Purpose computing on Graphics Processing Unit   |
| iPC                | Intel Product Code  |
| iPN                | Intel Product Number  |
| LCP                | Intel® Local Control Panel  |
| JBOD               | Just a bunch of drives  |
| KVM                | Keyboard / Video / Mouse  |
| MM#                | Master Material order number  |
| 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 |
| PCIe*              | PCI Express   |
| PCBA               | Printed Cricuit Board Assembly  |
| QSFP               | Quad Small Form factor Pluggable  |
| RAID               | Redundant Array of Independent Drives   |
| Required Option    | Hardware that must be added to the shipping configuration for the system to operate                       |
| RMFBU              | RAID Maintenance Free Backup Unit   |
| RMM4 Lite          | Intel® Remote Management Module 4 Lite Activation key   |
| ROC                | RAID on Chip  |
| RSTe               | Intel® Rapid Stroage Technology   |
| SAS                | Serial Attached SCSI  |
| SATA               | Serial ATA  |
| SATA DOM           | Serial ATA Disk On Module   |
| SFP                | Small Form factor Pluggable   |

**Intel® Server S2600CW Product Family Configuration Guide and Spares/Accessories List**

|     |                                   |
|-----|-----------------------------------|
| SKU | Stock Keeping Unit                |
| SSD | Solid State Drive                 |
| UPC | Universal Product Code ( Barcode) |

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