Intel® Data Center Blocks for Cloud – Microsoft Windows Server* 2016

System Deployment and Configuration Guide

A document to provide guidance for initial system setup and OS installation and identification of available system options

Revision 1.1
April 2017
Intel® Server Products and Solutions
<table>
<thead>
<tr>
<th>Date Published</th>
<th>Revision</th>
<th>Revision Change Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 2016</td>
<td>1.0</td>
<td>Initial Public Release</td>
</tr>
<tr>
<td>April 2017</td>
<td>1.1</td>
<td>Updated to reflect SSD change</td>
</tr>
</tbody>
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1 Introduction

The Intel® Data Center Blocks for Cloud (Intel® DCB for Cloud) – Microsoft Windows Server® 2016 includes both single node and multi-node server systems.

Figure 1. Intel® Server System MCB2224THY1 – Multi-Node SATA Hybrid (SAS HDD + SATA SSD)

Figure 2. Intel® Server System MCB2312WHY2 – Single Node SATA Hybrid (SAS HDD + SATA SSD)

Figure 3. Intel® Server System MCB2224TAF3 – Multi-Node SATA SSD

Figure 4. Intel® Server System MCB2208WAF4 – Single Node SATA SSD + NVMe SSD
Server systems within this product family were specifically created to offer Intel customers with pre-configured systems that are Microsoft Windows Server* 2016 certified. Intel has extensively tested these systems to ensure best operation and reliability with the Microsoft Windows operating environment.

To maintain Microsoft Windows Server 2016 certification, no changes can be made to the predefined system configuration. Changing the pre-configured system configuration may invalidate the Microsoft Windows Server 2016 certification performed by Microsoft and Intel.

Changes to the system that may impact Microsoft certification include the following:

- Updating the factory installed system software stack with revisions that are not Microsoft certified. The system software stack includes: system BIOS, BMC Firmware and ME Firmware ¹
- Adding or changing processors
- Adding or changing the system memory
- Adding or changing I/O devices such as add-in PCIe cards or modules
- Adding or changing non-matching (different manufacturer, and/or different model number) storage devices such as Hard Drives and any type of SSDs, than those shipped in the original system configuration ²

Notes:

¹ – For its standard server boards and systems, Intel releases updates to the system software stack via System Update Packages (SUP), which can be downloaded from the Intel web site. However, since the Intel® DCB for Cloud server systems are Microsoft certified, the pre-installed system software stack should not be changed unless updated to another system software stack that has passed Microsoft certification for the specified system configuration. Intel customers of Intel® DCB for Cloud server systems should NOT update the system software stack unless a downloaded SUP identifies that it is Microsoft certified for Intel® DCB for Cloud server systems. This information will be communicated via the README file included with every posted SUP for the given server product family.

² – Adding or swapping like storage devices (Same Manufacturer and Part Number) as shipped in the original system configuration is permitted and will not invalidate the Microsoft certification.
Hard Drives for Hybrid configurations are not included and must be purchased separately. Only certified hard drives can be added to hybrid system configuration to maintain Microsoft certification. The following table identifies certified hard drives that can be added to Hybrid system configurations and still maintain Microsoft certification. Intel preinstalls certified boot and cache tier drives in all slots not identified in the table below.

### Table 1. Certified Hard Drives for Hybrid Configurations

<table>
<thead>
<tr>
<th>Model</th>
<th>Vendor</th>
<th>Model Number</th>
<th>Description</th>
<th>Quantity</th>
<th>Install Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB2224THY1</td>
<td>Seagate*</td>
<td>ST2000NX0433</td>
<td>2.5&quot; HDD, 12Gb/s SAS 512E 2TB</td>
<td>16</td>
<td>Slots: CM1: 2, 3, 4, 5, CM2: 2, 3, 4, 5, CM3: 2, 3, 4, 5, CM4: 2, 3, 4, 5</td>
</tr>
<tr>
<td>MCB2312WHY2</td>
<td>Seagate</td>
<td>ST4000NM0034</td>
<td>3.5&quot; HDD, 6Gb/s SATA 4TB</td>
<td>8</td>
<td>Slots: 4, 5, 6, 7, 8, 9, 10, 11</td>
</tr>
</tbody>
</table>

See Appendix B for Drive Installation Instructions.
2 Microsoft Windows Server* 2016 Installation Requirements

This section provides information necessary to appropriately install the Microsoft Windows Server 2016 operating environment on to your Intel® DCB for Cloud server system. To maintain and be compliant with the Microsoft Windows Server 2016 certification, the installation steps should be followed as specified. Deviating from the documented OS installation requirements may invalidate the Microsoft Windows Server 2016 certification performed by Microsoft and Intel.

1. Acquire the appropriate Software License from your Microsoft partner or authorized Microsoft distributor/reseller
2. Attach the installation media which holds the Operating System Installation Image to the server system
3. Identify the required boot device. (See Note Below)

NOTE: In order to maintain Microsoft certification for any of the Intel® DCB for Cloud server systems, Microsoft Windows Server 2016 must be installed to a specific storage device within the specific Intel® DCB for Cloud server system configuration. The following table identifies the required boot device to install Microsoft Windows Server 2016 to for each Intel® DCB for Cloud server system configuration.

<table>
<thead>
<tr>
<th>System Model</th>
<th>Storage Device Vendor</th>
<th>Storage Device Model Number</th>
<th>Storage Device Location within the server system</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB2224THY1</td>
<td>Intel</td>
<td>Intel® SSD DC S3520 Series (480 GB, 2.5in, M.2)</td>
<td>Installed on the AXXKPTPM2IOM I/O carrier in each node.</td>
</tr>
<tr>
<td>MCB2224TAF3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCB2312WHY2</td>
<td>Intel</td>
<td>Intel® SSD SC S3710 Series (200 GB, 2.5in, SATA)</td>
<td>Installed in the rear drive bay.</td>
</tr>
<tr>
<td>MCB2208WAF4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCB2208WAF5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Power on the Server and access the <F2> BIOS Setup Utility to configure the primary boot device to the device identified in Step 3.
5. Save Changes and Exit <F2> BIOS Setup Utility
6. Install Microsoft Windows Server 2016 on to the specified boot device
7. Follow the Microsoft Installation wizard
8. After the installation has concluded, restart the server
9. Follow remaining Microsoft instructions to complete your installation
## Appendix A - System Configuration Options

### Intel® Server System MCB2224THY1

<table>
<thead>
<tr>
<th>Intel Product Code (iPC): MCB2224THY1</th>
<th>Order Information:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fully integrated 2U, 4-Node system including:</strong> CPUs and Memory and SATA SSDs</td>
<td>MM#: 952399</td>
</tr>
<tr>
<td></td>
<td>UPC: 735858327169</td>
</tr>
<tr>
<td></td>
<td>EAN: 5032037093569</td>
</tr>
</tbody>
</table>

Product Type: Fully Integrated Server System  
Chassis Form Factor: 2U rack mount  
Chassis Dimensions: L=733mm, W=438mm, H=86.9mm  
Outer Box Dimensions: L=983mm, W=577mm, H=266mm

Intel product code MCB2224THY1 includes the following:

1. 2U Chassis with Quick Reference Label affixed to top cover  
2. Pre-installed Standard Control Panel assembly (board only) – iPC FH2000FPANEL2  
3. Power Distribution Board – iPC FXXCRPSDB2  
4. Power Interposer Board – iPC FXXCRPSPIB  
5. 1600W 80 PLUS Platinum PSUs – iPC FXX1600PCRPS  
6. 24 x 2.5 Drive bay with 24 hot swap drive carriers and drive blanks (6 drive carriers per node), includes:  
   - (1) 12 Gb SAS/SATA backplane – iPC FH24X25HS12G  
   - (16) 2.5” hot swap drive carriers (Green Button) – iPC FXX25HSCAR2  
   - (8) 2.5” hot swap drive carriers – (Blue Button)  
7. Basic rack rail – iPC AXXELVRAIL  
8. DIMM slot blanks – iPN H43597-00x  
9. Chassis handles (1 set) installed – iPN H19171-00x  
10. AC Power Cord retention strap assembly – iPN H23961-00x  

Spares for each screw type included

- (4) Compute Modules w/TPM – iPC HNS2600TP24STR  
- Intel® Xeon® Processor E5-2620 v4 – 2.1 GHz – iPC CM8066002032201  
- CPU heatsinks – iPC FXXCA84X106HS  
- Intel® Remote Management Module Lite 2 accessory key – iPC AXXRMM4LITE2  
- Micron® RDIMM 16GB – DDR4, 288-pin, 2400MHz (8 DIMMs per node/32 DIMMs per system) - MTA36ASF2G72PZ-2G3B1  
- Intel® SSD DC S3520 Series (480 GB, 2.5in, M.2) – (Boot Drive) - iPC SSDSCKJB480G701  
- Intel® SSD DC S3710 Series (400 GB, 2.5in, SFF) – (Cache Tier) - iPC SSDSC2BA400G401

The following components are system certified ingredients that are customer supplied and do not ship with the Intel® DCB for Cloud server system purchase:

1. Seagate® 2TB SAS 2.5” HDD – ST2000NX0433

**NOTE:** Systems shipped to the US & Canada will include two North American power cords.

For a complete list of available FRU replacement parts, refer to the Intel® Server Board S2600TP Product Family Configuration Guide at the following Intel web site:

Intel® Server System MCB2312WHY2

<table>
<thead>
<tr>
<th>Product Code (iPC): MCB2312WHY2</th>
<th>Order Information</th>
</tr>
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<tbody>
<tr>
<td>Fully integrated 2U, 1-Node system including: CPUs, Memory and SATA SSDs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MM#: 952397</td>
</tr>
<tr>
<td></td>
<td>UPC: 735858327190</td>
</tr>
<tr>
<td></td>
<td>EAN: 5032037093590</td>
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</table>

Intel product code MCB2312WHY2 includes the following:

1) 2U Chassis with Quick Reference Label affixed to top cover
2) Intel® Server Board S2600WT w/ Dual 1GbE – iPC S2600WT2R
3) Air duct
4) Hot swap system fans – iPC FR2UFAN60HSW
5) Chassis Handles (1 set) installed, with Integrated control panel & USB Port – iPC A2UHANDLKIT
6) 12 x 3.5" Drive bay with 12 hot swap drive carriers and drive blanks, includes:
   - (1) 12 Gb SAS backplane – iPC F2U12X35S3HSBP – (SAS Data cables sold separately)
   - (12) 3.5" hot swap drive carriers (Green Button) – iPC FXX35HSCAR
7) Backplane I2C cable – iPC F92510-00x
8) Backplane power cable – iPN G92685-00x
9) Internal fixed mount SSD power cable – iPN H23901-00x
10) CPU heatsinks – iPC FXXCA84X106HS
11) DIMM slot blanks – iPN G75158-00x
12) Riser Card mounting brackets supporting up to 3 riser cards
   - Includes (2) 3-slot PCIe* riser cards – iPC A2UL8RISER2
13) 1100W 80 PLUS Platinum AC Power Supply Module – iPC AXX1100PCRPS
14) 3x RMFBU Mounting Bracket – iPN H18238-00x
15) AC Power Cord retention strap assembly – iPN H23961-00x

Spare for each screw type included

1) Rear Hot-Swap Dual Drive Cage Upgrade Kit – iPC A2UREARHSDK
2) Intel® Xeon® Processor E5-2660 v4 – 2.0 GHz – iPC CM8066002031201
3) Intel® Remote Management Module Lite 2 accessory key – iPC AXXRMLITE2
4) TPM Module 2.0 (TPM6) – iPC AXXTPME6
5) Intel® RAID Expander – iPC RES3FV288
6) Intel® RAID Controller(IT Mode) – iPC RS3UC080J
7) Mellanox* RDMA NIC – 2x10GB SFP+ – MCX312B-XCC
8) Micron* RDIMM 16GB – DDR4, 288-pin, 2400MHz - MTA36ASF2G72PZ-2G3B1
9) Intel® SSD DC S3710 Series (800 GB, 2.5in, SFF) – (Cache Tier) – iPC SSDSC2BA800G401
10) Intel® SSD DC S3710 Series (200 GB, 2.5in, SATA) – (Boot Device) – iPC SSDSC2BA200G401
11) Cable Kit – iPC AXXCBL800HDHD
12) Cable Kit – iPC AXXCBL875HDHD
13) Cable Kit – iPC AXXCBL950HDHD

The following components are system certified ingredients that are customer supplied and do not ship with the Intel® DCB for Cloud server system purchase:

8) Seagate* 4TB SAS 3.5" HDD - ST4000NM0034

**NOTE:** Systems shipped to the US & Canada will include two North American power cords.

For a complete list of available FRU replacement parts, refer to the Intel® Server Board S2600WT Product Family Configuration Guide at the following Intel web site:

Intel® Server System MCB2224TAF3

Product Code (iPC): MCB2224TAF3

Order Information
MM#: 952398
UPC: 735858327176
EAN: 5032037093576

Product Type: Fully Integrated Server System
Chassis Form Factor: 2U rack mount
Chassis Dimensions: L=733mm, W=438mm, H=86.9mm
Outer Box Dimensions: L=983mm, W=577mm, H=266mm

Intel product code MCB2224TAF3 includes the following:

(1) - 2U Chassis with Quick Reference Label affixed to top cover
(1) - Pre-installed Standard Control Panel assembly (board only) – iPC FH2000FPANEL2
(1) - Power Distribution Board – iPC FXXCRPSPDB2
(1) - Power Interposer Board – iPC FXXCRPSPIB
(2) - 1600W 80 PLUS Platinum PSUs – iPC FXX1600PCRPS
(1) - 24 x 2.5” Drive bay with 24 hot swap drive carriers and drive blanks (6 drive carriers per node), includes:
  • (1) 12 Gb SAS/SATA backplane – iPC FHW24X25HS12G
  • (16) 2.5” hot swap drive carriers (Green Button) – iPC FXX25HSCAR2
  • (8) 2.5” hot swap drive carriers – (Blue Button)
(1) - Basic rack rail – iPC AXXELVRAIL

NOTE: The rail kit only supports specific rack types with 3/8” square and 7.1mm round holes
(8) – DIMM slot blanks – iPN H43597-00x
(2) – Chassis handles (1 set) installed – iPN H19171-00x
(2) – AC Power Cord retention strap assembly – iPN H23961-00x
Spares for each screw type included

(4) – Compute Modules w/TPM – iPC HNS2600TP24STR
(8) – Intel® Xeon® Processor E5-2650 v4 – 2.2 GHz - iPC CM8066002031103
(8) – CPU heatsinks – iPC FXXCA84X106HS
(4) – Intel® Remote Management Module Lite 2 accessory key – iPC AXXRMM4LITE2
(64) – Micron® RDIMM 16GB – DDR4, 288-pin, 2400MHz (16 DIMMs per node/64 DIMMs per system) - MTA36ASF2G72PZ-2G3B1
(16) – Intel® SSD DC S3520 Series (1.6TB, 2.5in, SFF) – (Capacity Tier) - iPC SSDSC2BB016T701
(4) – Intel® SSD DC S3520 Series (480 GB, 2.5in, M.2) – (Boot Drive) - iPC SSDSCJKB480G701
(8) – Intel® SSD DC P3700 Series (400 GB, 2.5in, SFF) (Cache Tier) - iPC SSDPE2MD400G401
(4) – Mellanox® RDMA NIC, 2x10GB SFP+ - MCX312B-XCCT

NOTE: Systems shipped to the US & Canada will include two North American power cords.

For a complete list of available FRU replacement parts, refer to the Intel® Server Board S2600TP Product Family Configuration Guide at the following Intel web site:

Intel® Server System MCB2208WAF4

Product Code (iPC): MCB2208WAF4

Fully Integrated 2U, 1-Node system including:
- CPUs, Memory and SATA + NVMe SSDs

Order Information
- MM#: 952639
- UPC: 735858327206
- EAN: 5032037093606

Product Type: Fully Integrated Server System
- Chassis Form Factor: 2U rack mount
- Chassis Dimensions: L=712mm, W=439mm, H=89mm
- Outer Box Dimensions: L=983mm,W=577mm, H=260mm

Intel product code MCB2208WAF4 includes the following:

1. 2U Chassis with Quick Reference Label affixed to top cover
2. Intel® Server Board S2600WT w/Dual 1GbE – iPC S2600WT2R
3. 1100W 80 PLUS Platinum AC Power Supply Modules – iPC AXX1100PCRPS
4. AC Power Cord retention strap assembly – iPN H23961-00x
5. PCIe Riser card brackets
   - Includes (2) 3-slot PCIe* riser cards – iPC A2UL8RISER2
   - Includes (1) 2-slot low profile PCIe* riser card – iPC A2UX8X4RISER
6. Air duct
7. Hot swap system fans – iPC FR2UFAN60HSM
8. Standard control panel assembly (board only – iPC FXXFPANEL)
9. Front I/O Panel assembly (1 x VGA and 2 x USB)
10. SATA Optical drive bay with filler panel – (optical drive sold separately)
   - Includes optical drive mounting latch kit – iPN H19168-00x
   - Includes 300mm optical drive / internal mount SSD power cable – iPN H23901-00x
11. 8 x 2.5” Drive bay with 8 hot swap drive carriers and drive blanks, includes:
   - (1) 12Gb SAS backplane – iPC A2U8X2S53HSDK
   - (8) 2.5” hot swap drive trays (Green Button) – iPC FXX25HSCAR2
12. Multiport 730mm SAS/SATA data cables – iPC AXXCBL730HDHD
13. Backplane 250mm I2C cable – iPN G41809-00x
14. Backplane power cable – iPN H23927-00x
15. CPU heatsinks – iPC FXXCA84X106HS
16. DIMM slot blanks – iPN G75158-00x
17. Chassis handle (1 set) installed – iPN H18229-xxx
18. 3x RMFBU Mounting Bracket – iPN H18238-00x

Spares for each screw type included

- 2U Drive Cage Upgrade Kit (4x NVMe) (8x 2.5”) – iPC A2U44X2S5NMEDK
  - (4) 2.5” hot swap drive carriers (Green Button) – iPC FXX25HSCAR2
  - (4) 2.5” hot swap drive carriers (Blue Button)
- Rear Hot-Swap Dual Drive Cage Upgrade Kit – iPC A2U2REARHSDK
- Intel® Xeon® Processor E5-2680 v4 – 2.4 GHz – iPC CM8066002031501
- CPU heatsinks – iPC FXXCA84X106HS
- Intel® Remote Management Module Lite 2 accessory key – iPC AXXRMMLITE2
- TPM Module 2.0 (TPM6) – iPC AXXTMPE6
- Intel® RAID Expander – iPC RES3TV360
- Intel® RAID Controller(IT Mode) – iPC R53UC080J
- Mellanox® RDMA NIC – 2x10GB SFP+ - MCX312B-XCCT
- Micron® RDIMM 16GB – DDR4, 288-pin, 2400MHz - MTA36ASF2G72PZ-2G3B1
- Intel® SSD DC P3700 Series (800 GB, 2.5in, U.2/NVMe) – (Cache Tier) – iPC SSDPE2MD800G401
- Intel® SSD DC S3710 Series (200 GB, 2.5in, SATA) – (Boot Device) – iPC SSDSC2BA200G401
- Intel® SSD DC S3520 Series (1.2 TB, 2.5in, SATA) – (Capacity Tier) – iPC SSDSC2BB012T701

NOTE: Systems shipped to the US & Canada will include two North American power cords.

For a complete list of available FRU replacement parts, refer to the Intel® Server Board S2600WT Product Family Configuration Guide at the following Intel web site:

Intel® Server System MCB2208WAF5

Product Code (IPC): MCB2208WAF5

Order Information
- MM#: 952638
- UPC: 735858327183
- EAN: 5032037093583

Product Type: Fully Integrated Server System
Chassis Form Factor: 2U rack mount
Chassis dimensions: L=712mm, W=439mm, H=89mm
Outer Box Dimensions: L=983mm, W=577mm, H=260mm

Intel product code MCB2208WAF5 includes the following:

1. 2U Chassis with Quick Reference Label affixed to top cover
2. Intel® Server Board S2600WT w/ Dual 1GbE – IPC S2600WT2R
3. 1100W 80 PLUS Platinum AC Power Supply Modules – IPC AXX1100PCRPS
4. AC Power Cord retention strap assembly – IPC H23961-00x
5. PCIe riser card brackets
   - Includes (2) 3-slot PCIe* riser cards – IPC A2UL8RISER2
   - Includes (1) 2-slot low profile PCIe* riser card – IPC A2UX8X4RISER
6. Air duct
7. Hot swap system fans – IPC FR2UFAN60H9SW
8. Standard control panel assembly (board only – IPC FXXFPPANEL)
9. Front I/O Panel assembly (1 x VGA and 2 x USB)
10. Optical drive bay with filler panel – (optical drive sold separately)
    - Includes optical drive mounting latch kit – IPC H19168-00x
    - Includes 300mm optical drive / internal mount SSD power cable – IPC H23901-00x
11. 8 x 2.5" Drive bays with 8 hot swap drive carriers and drive blanks, includes:
    - (1) 12Gb SAS backplane – IPC A2U8X2553HSDK
12. Multiport 730mm SAS/SATA data cables – IPC AXXCBL730HDHD
13. Backplane 250mm I2C cable – IPC G41809-00x
14. Backplane power cable – IPC H23927-00x
15. CPU heatsinks – IPC FXXA8X4106HS
16. DIMM slot blanks – IPC G75158-00x
17. Chassis handle (1 set) installed – IPC H18229-xxx
18. RMFBU Mounting Bracket – IPC H18238-00x

Spares for each screw type included:

- (2) - 2U Drive Cage Upgrade Kit (4x NVM) (8 x 2.5") – IPC A2U44X255VNMEDK2
- Includes (8) 2.5" hot swap drive bays (Green Button) – IPC FXX255VNSCAR2
- Includes (8) 2.5" hot swap drive bays (Blue Button)
- Rear Hot-Swap Dual Drive Cage Upgrade Kit – IPC A2UREARHSDK
- Intel® Xeon® Processor E5-2695 v4 – 2.1 GHz – IPC CM8066002023801
- CPU heatsinks – IPC FXXA8X4106HS
- Intel® Remote Management Module Lite 2 accessory key – IPC AXXRMMLITE2
- TPM Module 2.0 (TPM6) – IPC AXXTPM6E
- Mellanox® RDMA NIC – 2x40GB QSFP – MCBX14A-BCCT
- Micron® RDIMM 16GB – DDR4, 288-pin, 2400MHz - MTA36ASF2G72PZ-2G3B1
- Intel® SSD DC P3700 Series (800 GB, 2.5in, U.2/NVMe) – (Cache Tier) – IPC SSDPE2MD800G401
- Intel® SSD DC S3710 Series (200 GB, 2.5in, SATA) – (Boot Device) – IPC SSDSC2BA200G401
- Intel® SSD DC P3520 Series (2TB, 2.5in, U.2/NVMe) – (Capacity Tier) – IPC SSDPE2MX020T701
- Cable Kit – IPC AXXCBL8000HDD

NOTE: Systems shipped to the US & Canada will include two North American power cords.

For a complete list of available FRU replacement parts, refer to the Intel® Server Board S2600WT Product Family Configuration Guide at the following Intel web site:

Rail Kit Options

To install a rack mount server system into a rack, a rail mounting kit must be installed.

Intel® DCB for Cloud server system models MCB2224THY1 and MCB2224TAF3 include the following Intel Rail Kit option in the shipping product: Intel® Enhanced Value Rail Kit AXXELVRAIL. Supported premium feature rail kits must be ordered separately. Available premium feature rail kits are listed in the following table.

All other available Intel® DCB for Cloud server system models do not include rail kits in the shipping product. Rail kits for these systems must be ordered separately. All supported rail kits are listed in the following table.

### Table 3. Intel® Rail Kit Accessory Kit Options

<table>
<thead>
<tr>
<th>iPC – Intel Product Code</th>
<th>Product Order Information</th>
<th>Product Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>iPC – AXXELVRAIL</td>
<td>MM# – 920970</td>
<td>Enhanced Value Rail Kit</td>
</tr>
<tr>
<td></td>
<td>UPC – 00735858244367</td>
<td>• Works for all 438mm wide Intel® Rack Chassis 1U, 2U, 4U</td>
</tr>
<tr>
<td></td>
<td>EAN – 5032037038980</td>
<td>• Adjustment within 609.6mm~765mm to fit difference depth rack</td>
</tr>
<tr>
<td></td>
<td>MOQ – 1</td>
<td>• 424.2mm maximum travel length</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 2/3 extension from rack</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 130 lbs (59 kgs) max support weight</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Tool-less chassis attach</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Tools required to attach to rails to rack</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note: No Cable Management Arm (CMA) support.</td>
</tr>
<tr>
<td>iPC – AXXSHRTRAIL</td>
<td>MM# – 939210</td>
<td>2U+ Premium quality rails with no CMA support.</td>
</tr>
<tr>
<td></td>
<td>UPC – 00735858291996</td>
<td>• Travel distance 780mm</td>
</tr>
<tr>
<td></td>
<td>EAN – 5032037070553</td>
<td>• Tool-less installation</td>
</tr>
<tr>
<td></td>
<td>MOQ – 1</td>
<td>• Full extension from rack</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Max support weight - TBD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Kit includes: Rails, screws, installation manual</td>
</tr>
<tr>
<td>iPC – AXXFULLRAIL</td>
<td>MM# – 939209</td>
<td>2U+ Premium quality rails with CMA support.</td>
</tr>
<tr>
<td></td>
<td>UPC – 00735858291989</td>
<td>• Travel distance 780mm</td>
</tr>
<tr>
<td></td>
<td>EAN – 5032037070546</td>
<td>• Tool-less installation</td>
</tr>
<tr>
<td></td>
<td>MOQ – 1</td>
<td>• Full extension from rack</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Max support weight - TBD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Kit includes: Rails, screws, installation manual</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• For Cable Management arm – order iPC AXXCMA2</td>
</tr>
<tr>
<td>iPC – AXXCMA2</td>
<td>MM# – 939211</td>
<td>Cable management arm</td>
</tr>
<tr>
<td></td>
<td>UPC – 00735858292009</td>
<td>• Compatible with AXXFULLRAIL only</td>
</tr>
<tr>
<td></td>
<td>EAN – 5032037070560</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MOQ – 1</td>
<td></td>
</tr>
</tbody>
</table>

**Advisory Note:** Available rack and cabinet mounting kits are not designed to support shipment of the server system while installed in a rack. If you chose to do so, Intel advises you verify your shipping configuration with appropriate shock and vibration testing before shipment. Intel does not perform shipping tests which cover the complex combination of unique rack offerings and custom packaging options.

**Caution:** Exceeding the specified maximum weight limit of a given rail kit or misalignment of the server in the rack may result in failure of the rack rails, causing damage to the system 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.
Locking Front Bezel Accessory Kit Option

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.

Table 4. Intel® Locking Front Bezel Accessory Kit Option

<table>
<thead>
<tr>
<th>iPC - Intel Product Code</th>
<th>Product Order Information</th>
<th>Product Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>iPC – A2UBEZEL</td>
<td>MM# – 918086</td>
<td>2U Front Bezel Accessory Kit</td>
</tr>
<tr>
<td></td>
<td>UPC – 735858241137</td>
<td>Kit Includes:</td>
</tr>
<tr>
<td></td>
<td>EAN – 5032037035880</td>
<td>(1) 2U locking bezel</td>
</tr>
<tr>
<td></td>
<td>MOQ – 1</td>
<td>(1) Front Panel Window Insert</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1 Set) Bezel branding inserts – two ID badges, one wave</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1 Set) Keys</td>
</tr>
</tbody>
</table>

The face of the bezel assembly includes snap-in identification badge options and a wave feature option to allow for customization.
Figure 6. 2U Front Bezel Accessory With Snap-on Options

Figure 7. 2U Front Bezel Accessory - ID Badge Option Mechanical Drawings
NOTE: To maintain proper system cooling, all externally accessible drive bays must be populated with a drive carrier. Each drive carrier must have a hard disk drive (HDD), Solid State Device (SSD), or a supplied drive blank installed.

2.5" Drive Carriers

2.5" Drive Carrier Extraction

- Remove the drive carrier from the chassis by pressing the green button and pulling open the lever (see letter ‘A’)
- Pull the carrier out of the drive bay (see letter ‘B’)

2.5" Hard Disk Drive (HDD) / Solid State Device (SSD) Installation

- Remove the four screws securing the plastic drive blank to the carrier (see letter ‘C’)
- Remove the drive blank from the carrier (see letter ‘D’)

Figure 8. Installing Hot-swap storage devices – 2.5” carrier extraction

Figure 9. 2.5” Storage Device Installation – Remove the drive blank
Figure 10. 2.5" Storage Device Installation – Mounting drive to carrier

- Install the storage device into the carrier. Verify the connector end of the drive is located towards the back of the carrier (see letter 'E').
- Secure the drive to the carrier using four screws

2.5" Drive Carrier Insertion

Figure 11. 2.5" Storage Device Installation – Inserting 2.5" drive assembly

- With the lever open, insert the drive assembly into the chassis
- Push in the lever to lock it into place (see letter 'F')
3.5” Drive Carriers

3.5” Drive Carrier Extraction

Figure 12. Installing Hot-swap storage devices – 3.5” carrier extraction

- Remove the drive carrier from the chassis by pressing the green button and pulling open the lever (see letter ‘A’)
- Pull the carrier out of the drive bay (see letter ‘B’)

3.5” Hard Disk Drive Installation

Figure 13. 3.5” Hard Disk Drive Installation – Remove the drive blank

- Remove the four screws securing the plastic drive blank to the carrier
- Remove the drive blank from the carrier (see letter ‘C’)

Figure 14. 3.5” Hard Disk Drive Installation – Mounting drive to carrier

- Install the drive into the carrier. Verify the connector end of the drive is located towards the back of the carrier (see letter ‘D’)
- Secure the drive to the carrier using four screws

3.5” Drive Carrier Insertion

Figure 15. Hard Disk Drive Installation – Inserting 3.5” HDD assembly

- With the lever open, insert the drive assembly into the drive bay (see letter ‘E’)
- Push in the lever to lock it into place (see letter ‘F’)