



# Intel® Server System M20MYP1UR

## *Configuration Guide*

A reference document to identify available accessories and spare parts associated with the Intel® Server System M20MYP1UR.

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May 2020



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## ***Document Revision History***

<b>Date</b>	<b>Revision</b>	<b>Changes</b>
May 2020	1.0	Initial release.

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# 1. Intel Server System Overview

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This document provides a catalog of available Intel® server products, accessories, and spares associated with the Intel® Server System M20MYP1UR.



**Figure 1. Intel® Server System M20MYP1UR**

## 1.1 Configuration Overview

The Intel® Server System M20MYP1UR is offered as an integrated server system in two versions:

- A 1U rack mount server chassis integrated at the L6 level with a server board.
- A 1U rack mount server chassis integrated at level L9 with a server board, processors, storage, memory, and accessory options.

### 1.1.1 Processor Support

The Intel® Server System M20MYP1UR includes two LGA3647-0 processor sockets compatible with the Intel® Xeon® processor Scalable family with a maximum Thermal Design Power (TDP) of 150 W in dual processor configurations, and up to 165 W in select single processor configurations.

The Intel® Server System M20MYP1UR supports the 1<sup>st</sup> and 2<sup>nd</sup> Gen Intel® Xeon® processor Scalable family as identified in Figure 2.

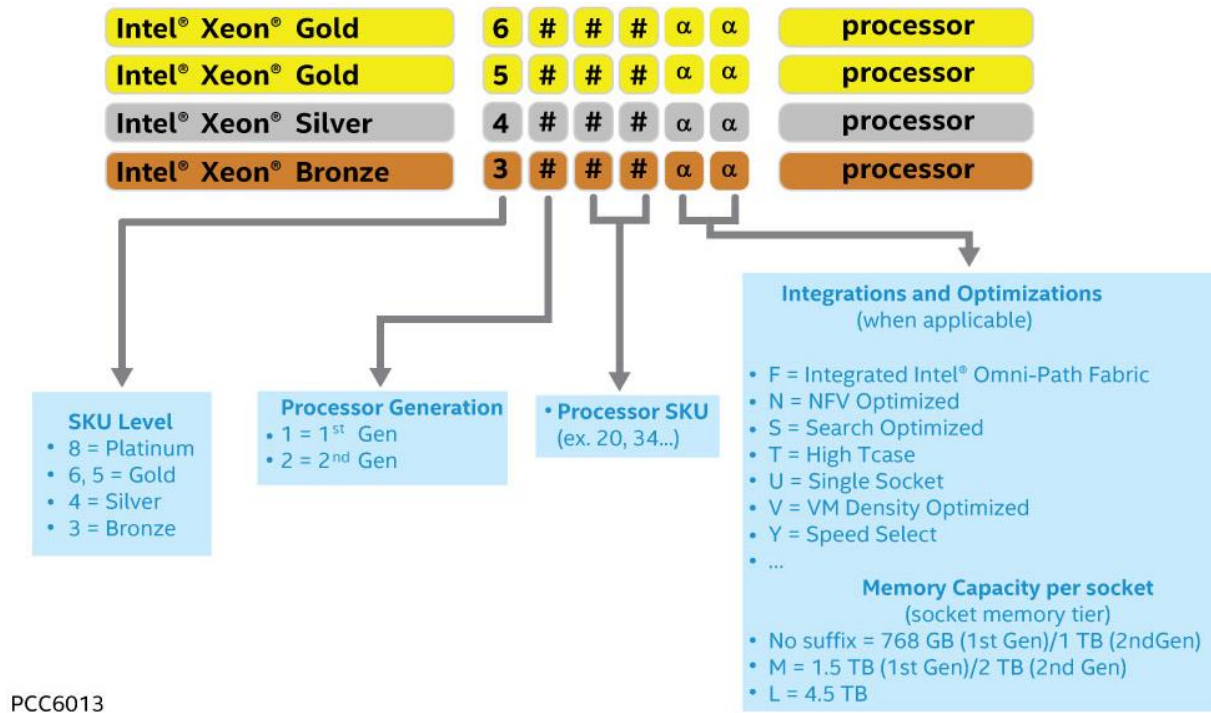


Figure 2. Intel® Xeon® processor Scalable family generation identification

**Note:** Previous generation Intel® Xeon® processors and previous-generation processor heat sinks are not compatible.



**Table 1. 1<sup>st</sup> Gen Intel® Xeon® processor Scalable family feature comparison**

Feature	Gold 61xx	Gold 51xx	Silver 41xx	Bronze 31xx
<b># of Intel® UPI Links</b>	3	2	2	2
<b>Intel UPI Speed</b>	10.4 GT/s	10.4 GT/s	9.6 GT/s	9.6 GT/s
<b>Supported Topologies</b>	2S-2UPI 2S-3UPI 4S-2UPI 4S-3UPI	2S-2UPI 4S-2UPI	2S-2UPI	2S-2UPI
<b>Node Controller Support</b>	Yes	No	No	No
<b># of Memory Channels</b>	6	6	6	6
<b>Max DDR4 Speed</b>	2666	2400	2400	2133
<b>Memory Capacity</b>	768GB 1.5 TB (select SKUs)	768GB 1.5 TB (select SKUs)	768 GB	768 GB
<b>RAS Capability</b>	Advanced	Advanced	Standard	Standard
<b>Intel® Turbo Boost Technology</b>	Yes	Yes	Yes	No
<b>Intel® HT Technology</b>	Yes	Yes	Yes	No
<b>Intel® AVX-512 ISA Support</b>	Yes	Yes	Yes	Yes
<b>Intel® AVX-512 - # of 512b FMA Units</b>	2	1	1	1
<b># of PCIe* Lanes</b>	48	48	48	48

**Table 2. 2<sup>nd</sup> Gen Intel® Xeon® processor Scalable family feature comparison**

Feature	62xx Gold	52xx Gold	42xx Silver	32xx Bronze
# of Intel® UPI Links	3	2	2	2
UPI Speed	10.4 GT/s	10.4 GT/s	9.6 GT/s	9.6 GT/s
Supported Topologies	2S-2UPI 2S-3UPI 4S-2UPI 4S-3UPI	2S-2UPI 4S-2UPI	2S-2UPI	2S-2UPI
Node Controller Support	Yes	No	No	No
# of Memory Channels	6	6	6	6
Max DDR4 Speed 1DPC	2933	2666	2400	2133
Max DDR4 Speed 2DPC	2666	2666	2400	2133
Memory Capacity	1TB 2TB (select SKUs) 4.5TB (select SKUs)	1TB 2TB (select SKUs) 4.5TB (select SKUs)	1TB	1TB
RAS Capability	Advanced	Advanced	Standard	Standard
Intel® Turbo Boost Technology	Yes	Yes	Yes	No
Intel® Hyper-Threading Technology	Yes	Yes	Yes	No
Intel® AVX-512 ISA support	Yes	Yes	Yes	Yes
Intel® AVX-512 – # of 512b FMA units	2	1	1	1
VNNI	Yes	Yes	Yes	Yes
# of PCIe Lanes	48	48	48	48

### 1.1.2 Memory Support

The Intel® Server System M20MYP1UR supports the following:

- Only DDR4 DIMMs are supported.
- Only RDIMMs and LRDIMMs with thermal sensor on-DIMM (TSOD) are supported.
- Only Error Correction Code (ECC) enabled RDIMMs and LRDIMMs are supported.
- SDRAM DIMMs organized as Single Rank (SR), Dual Rank (DR), or Quad Rank (QR)

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**Important Note:** The Intel® Server System M20MYP1UR supports DIMM sizes of up to 32 GB in capacity

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### 1.1.3 System Configuration Notes

- This 1U server system supports the Intel® Xeon® processor Scalable family with a thermal design power (TDP) of up to and including 150 W in dual processor configurations, and up to 165 W in select single processor configurations. Previous generations of the Intel® Xeon® processors are not supported.
- Single processor configurations require the processor to be installed in the processor #1 socket. Processor #2 socket must have a heat sink installed at all times, with or without a processor installed.
- Processor #2 must be installed to use any of its associated DIMM slots.
- Riser cards 1 and 2 can provide a maximum power of 75 W to each installed PCIe\* add-in card.

## 1.2 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 3. Product family reference collaterals**

For this information or software	Use this document or software
For in-depth technical information about this product family	<i>Intel® Server System M20MYP1UR Technical Product Specification</i> <i>Intel® Remote Management Module 4 (Intel® RMM4) and BMC Embedded Web Console User Guide</i> <i>Intel® Remote Management Module 4 Technical Product Specification</i> <i>Intel® Server System BIOS Setup Utility Guide</i>
For system integration and service instructions	<i>Intel® Server System M20MYP1UR System Integration and Service Guide</i>
For server configuration guidance and compatibility	Intel® Server Configurator Tool ( <a href="http://serverconfigurator.intel.com/">http://serverconfigurator.intel.com/</a> )
For system firmware updates, onboard device drivers, and software	Download Center ( <a href="https://downloadcenter.intel.com/search?keyword=M20MYP1UR">https://downloadcenter.intel.com/search?keyword=M20MYP1UR</a> )
For system power budget guidance	Intel® Server System M20MYP1UR Power Budget and Thermal Configuration Tool
For a complete list of supported processors, memory, add-in cards, and peripherals	Intel® Server System M20MYP1UR support site (TBD)
Product warranty Information	Warranty Terms and Conditions ( <a href="https://www.intel.com/content/www/us/en/support/services/000005886.html">https://www.intel.com/content/www/us/en/support/services/000005886.html</a> )

### 1.3 Server System Features Overview

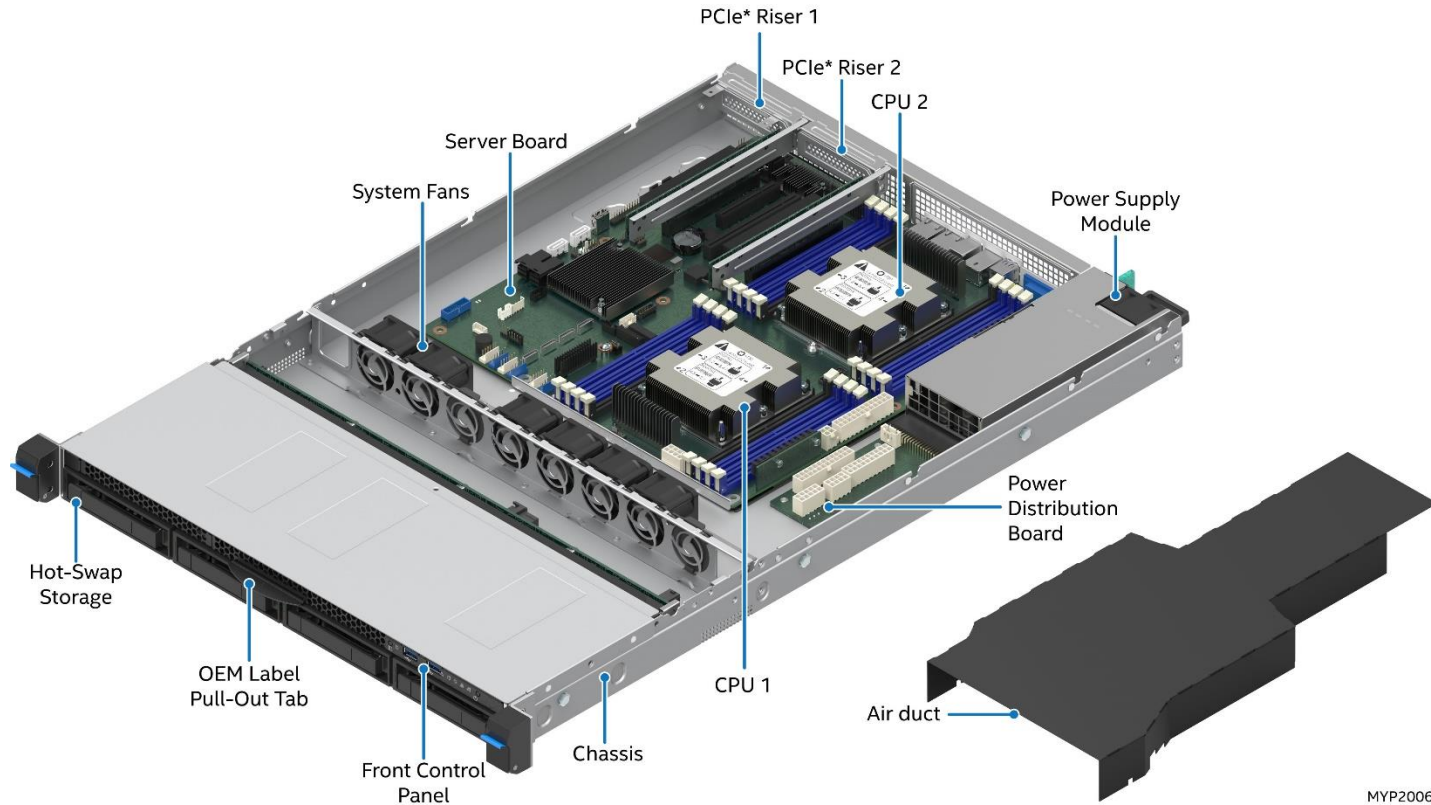
The following table provides a high-level overview of the server system features and available options supported in the Intel Server System M20MYP1UR.

**Table 4. Intel® Server System M20MYP1UR features**

Feature	Details
<b>Chassis Type</b>	1U rack mount chassis
<b>Chassis Dimensions</b>	660 x 438.5 x 43.2 mm (26" x 17.2" x 1.7")
<b>Packaging Dimensions</b>	994 x 578 x 232 mm (39.1" x 22.7" x 9.1")
<b>Processor Support</b>	<ul style="list-style-type: none"> <li>• 2 – LGA3647-0 (Socket P) processor sockets</li> <li>• Supports one or two processors from the 1st and 2nd Gen Intel® Xeon® processor Scalable family (Gold, Silver, and Bronze).</li> </ul> <hr/> <p><b>Note:</b> Previous generation Intel® Xeon® processors are not supported.</p>
<b>Maximum Supported Processor Thermal Design Power (TDP)</b>	Supported Thermal Design Power (TDP): <ul style="list-style-type: none"> <li>• Up to 150 W in dual processor configurations</li> <li>• Up to 165 W in select single processor configurations</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>• Intel® C624 Chipset</li> </ul>
<b>Local Area Network</b>	<ul style="list-style-type: none"> <li>• Dual port RJ45 10 GbE on board</li> </ul>
<b>Memory Support</b>	<ul style="list-style-type: none"> <li>• 16 DIMM Slots (8 per CPU)</li> <li>• DDR4 RDIMM/LRDIMM, Up to 2933 MT/s, 1.2 V</li> <li>• DIMM sizes of up to 32 GB</li> </ul> <hr/> <p><b>Note:</b> The maximum memory speed supported is dependent on the installed processor SKU and population configuration.</p>
<b>System Fans</b>	<ul style="list-style-type: none"> <li>• Six managed 40 x 28 mm system fans</li> <li>• One integrated fan included within the system power supply module</li> </ul>
<b>Power Supply Support</b>	<ul style="list-style-type: none"> <li>• One AC 750 W Power supply - 80+ Platinum efficiency</li> </ul>
<b>PCIe* Add-in Card Support</b>	<ul style="list-style-type: none"> <li>• Two low profile x16 PCIe* Add-in Cards supported through two separate PCIe* risers</li> </ul>
<b>PCIe* NVMe* Support</b>	<ul style="list-style-type: none"> <li>• Two M.2 NVMe*/SATA connectors</li> </ul>
<b>Video Support</b>	<ul style="list-style-type: none"> <li>• Integrated 2D video controller</li> <li>• 16 MB of DDR4 video memory</li> <li>• One VGA DB-15 external connector in the back</li> </ul>
<b>SATA Support</b>	<p>6 x SATA 6 Gbps ports (6 Gb/s, 3 Gb/s and 1.5 Gb/s transfer rates are supported):</p> <ul style="list-style-type: none"> <li>• Two M.2 connectors – SATA / PCIe*</li> <li>• One 4-port mini- SAS high density (HD) (SFF-8643) connector</li> </ul> <p>Embedded SATA software RAID</p> <ul style="list-style-type: none"> <li>• Intel® VROC (SATA RAID)</li> <li>• Intel® Embedded Server RAID Technology 2 1.60 with optional RAID 5 key support</li> </ul>

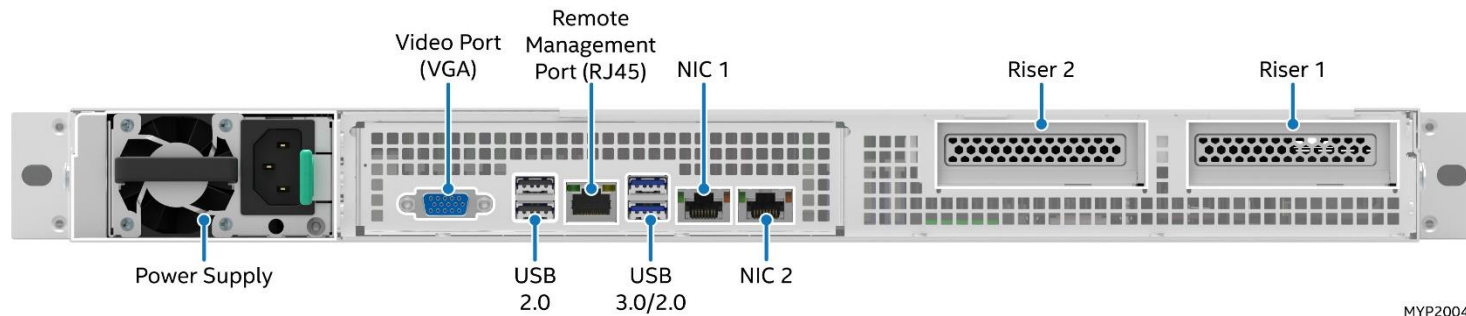
Feature	Details
<b>USB Support</b>	<ul style="list-style-type: none"> <li>• Two USB 2.0 ports on back panel</li> <li>• Two USB 3.0 ports on back panel</li> <li>• One internal USB 3.0 type-A connector</li> <li>• Two USB 3.0 ports on front panel</li> </ul>
<b>Serial Support</b>	<ul style="list-style-type: none"> <li>• One internal DH-10 serial port A connector</li> </ul>
<b>Drive Bay Options</b>	<ul style="list-style-type: none"> <li>• 4 x 3.5" SAS/SATA hot swap drive bays</li> </ul>
<b>Server Management</b>	<ul style="list-style-type: none"> <li>• Integrated baseboard management controller, IPMI 2.0 compliant</li> <li>• Support for Intel® Server Management software</li> <li>• Dedicated RJ45 management port</li> <li>• Advanced server management via Intel® RMM4 Lite (accessory option)</li> </ul>
<b>Jumper Blocks</b>	<ul style="list-style-type: none"> <li>• BIOS default</li> <li>• Password clear</li> <li>• Intel® Management Engine (Intel® ME) firmware force update</li> <li>• BMC force update</li> <li>• BIOS recovery</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Trusted platform module 2.0 (Rest of World) – iPC- AXXTPMENC8 (accessory option)</li> <li>• Trusted platform module 2.0 (China Version) – iPC- AXXTPME8 (accessory option)</li> </ul>
<b>Supported Rack Mount Kit Accessory Options</b>	<ul style="list-style-type: none"> <li>• AXCELVRAIL – Enhanced Value Rack Mount Rail Kit – 424 mm max travel length</li> <li>• A1USHRTRAIL – Tool-less rack mount rail kit – 780 mm max travel length (no CMA support)</li> <li>• A1UFULLRAIL – Tool-less rack mount rail kit with CMA support – 780 mm max travel length</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>▪ UEFI-based BIOS</li> </ul>

### 1.3.1 System Feature Identification



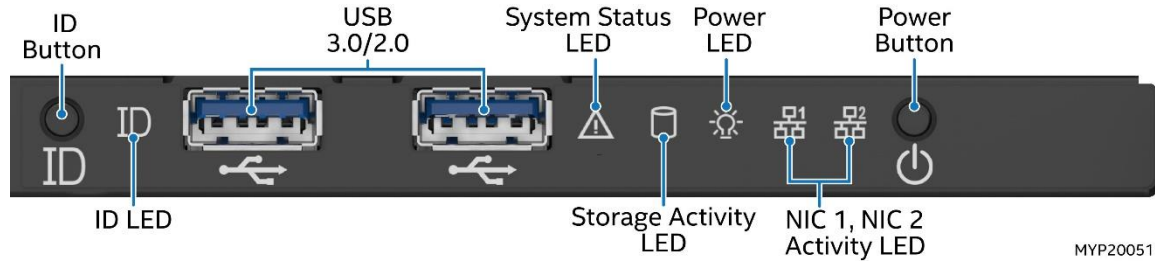
MYP20065

**Figure 3. System components overview**



MYP20041

**Figure 4. Back panel feature identification**



**Figure 5. Front control panel feature identification**



## 2. Server System Configuration

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The Intel® Server System M20MYP1UR is offered as an integrated server system in two versions:

- **L6 Integrated system** – Chassis and server board, with no processors, memory, or storage devices.
- **Fully configured L9 Integrated system** – Chassis and server board, with processors and memory, storage devices, and accessory options.

At a minimum, an L6 integrated server system requires the following essential components to be functional:

- One processor from the 1<sup>st</sup> or 2<sup>nd</sup> Gen Intel® Xeon® processor Scalable family
- Memory
- Storage devices
- Rack Mount kit

Optional Intel accessories include the following:

- Intel® Remote Management Module 4 Lite (Intel® RMM4 Lite) key to add advanced server management features
- Intel® Embedded Server RAID Technology 2 SATA Software RAID Activation Key
- Intel® RAID Add-In Cards
- Intel® Trusted Platform Module (TPM) 2.0

The tables in this chapter describe the included items of the Intel® Server System M20MYP1UR as an integrated system at the L6 level, and spares for the server board and chassis. The parts listed as included are shipped along with components in the product BOM. See Chapter 3 for all available accessory options.

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**Note:** Items identified with an iPC (Intel Product Code) are orderable spare FRUs. In an effort to provide the complete product bill of materials, the ship along components list in each product table include items identified by description and by iPN (Intel Part Number). The iPN information is provided for reference only. These components cannot be ordered as spares or accessories.

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To order fully configured L9 integrated systems, go to [orderconfigurator.intel.com](https://orderconfigurator.intel.com) (Intel NDA is required) or contact your Intel field sales representative.

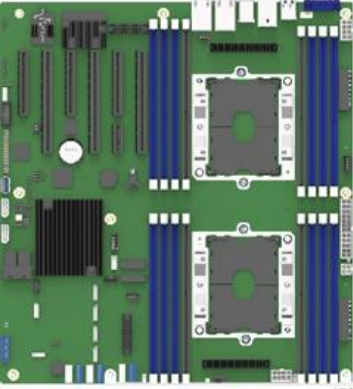
## 2.1 Intel® Server System M20MYP1UR

**Table 5. Intel® Server System M20MYP1UR product specifications and configuration requirements**

Intel® Server System M20MYP1UR 1U, 4 x 3.5" HDD or 4 x 2.5" SSD SAS/SATA front mount drives				<b>iPC</b> <b>MM#</b> <b>UPC</b> <b>EAN</b> <b>MOQ</b>	M20MYP1UR 999WRX 00735858456371 5032037196055 1	<b>Product type</b> <b>Chassis form factor</b> <b>Packaged gross wt.</b> <b>Un-packaged net wt.</b> <b>Chassis dimensions</b>  <b>Package dimensions</b>	L6 integrated system 1U rack mount 18.98 kg (41.8 lbs.) 11.57 kg (25.5 lbs.) 660 x 438.5 x 43.2 mm (26" x 17.2" x 1.7")  994 x 592 x 260 mm (39.1" x 23.3" x 10.2")
Included		Required Items (sold separately)		Optional Accessories (sold separately)			
(1) – 1U chassis – iPC <b>M20MYP1RF8W</b> (1) – SSI EEB server board - iPC <b>MYP1USVB</b> (2) – Riser card assembly with 1 slot PCIe x16 riser card – iPC <b>MYP1URISER</b> (4) – 3.5" hot-swap drive bays with drive carriers and drive blanks. Includes: o (1) 12 Gb SAS backplane – iPC <b>FR1304S3HSBP</b> o (4) 3.5" hot swap drive tool less carriers – iPC <b>FXX35HSCAR2</b> (1) – Pre-installed control panel (1) – 350 mm backplane I2C cable – iPN <b>J20956</b> -xxx (1) – Mini SAS HD cable – iPC <b>AXXCBL650HDHD</b> (1) – Backplane power cable (1) – Air duct (6) – 40 x 28 mm managed system fans (1) – 750W power supply module - iPC <b>FXX750PCRPS</b> (2) – CPU passive heat sinks, 51 fins – iPC <b>AXXSTPHMKIT1U</b> (2) – CPU heat sink "No CPU" label inserts (2) – Standard CPU Carriers – iPN H72853 -xxx Spares for each screw type included		<ul style="list-style-type: none"> <li>• Power cord(s) – See Section 3.3</li> <li>• Rack mount kit – See Section 3.1</li> <li>• (1) or (2) 1<sup>st</sup> or 2<sup>nd</sup> Intel® Xeon® processor Scalable family (support for 2<sup>nd</sup> Gen Intel Xeon processor Scalable family requires a system software stack update from <a href="http://downloadcenter.intel.com">http://downloadcenter.intel.com</a>)</li> <li>• ECC DDR4 memory (RDIMM or LRDIMM)</li> </ul>		<p><b>Note:</b> By default the front drive bays are cabled to onboard SATA only ports. An add-in SAS card is needed to support SAS devices.</p> <ul style="list-style-type: none"> <li>• SATA upgrade key for Intel® Embedded Server Technology 2 RAID 5 support – iPC <b>RKSATA4R5</b></li> <li>• Storage drives</li> </ul> <p>See Chapter 2.2 for all available accessory options.</p>			

## 2.2 Server Board Spares

**Table 6. Server Board Spares**

Server board spare for the Intel® Server System M20MYP1UR			
	<b>iPC</b> MYP1USVB <b>MM#</b> 99A2H7 <b>UPC</b> 00735858457002 <b>EAN</b> 5032037196635 <b>MOQ</b> 1	<b>Product type</b> Server Board spare FRU <b>Form factor</b> SSI EEB <b>Packaged gross wt.</b> 2.4 kg (5.2 lb) <b>Un-packaged net wt.</b> 1.9 kg (4.2 lb) <b>Dimensions</b> 12" x 13"	
	<ul style="list-style-type: none"> <li>• (2) processor sockets compatible with 1<sup>st</sup> and 2<sup>nd</sup> Gen Intel® Xeon® Scalable processors</li> <li>• Intel® C624 chipset</li> <li>• Onboard dual-port RJ45 10 GbE LAN</li> <li>• (4) – onboard PCIe* NVMe* OCuLink connectors</li> <li>• (12) – SATA 6 Gbps ports</li> </ul>		

### 3. System Optional Accessories

This chapter identifies optional accessory kits supported by the Intel® Server System M20MYP1UR.




#### 3.1 Intel® RAID Add-In Cards and Accessories

Intel® RAID offers a broad portfolio of RAID solutions designed to address the storage-related challenges of the modern day datacenter as well as the small business. The Intel® Server System M20MYP1UR supports the latest generation of 12 Gb/s SAS Intel® RAID add-in cards, modules, expanders, and accessories. For a full list of validated Intel RAID cards, see the published Tested Hardware and Operating System List at <http://www.intel.com/support>.



Additional information for Intel RAID products can be found in the following documents:

- <https://www.intel.com/content/dam/www/public/us/en/documents/product-briefs/raid-matrix.pdf>


**Table 7. Intel® RAID controller add-in cards**

Image	Details	Description
	<p><b>Intel® RAID Controller RS3DC040</b></p> <p><b>iPC</b> RS3DC040  <b>MM#</b> 934644  <b>UPC</b> 00735858265362  <b>EAN</b> 5032037107167  <b>MOQ</b> 5</p> <p><b>Product type</b> Accessory kit</p>	<p>Low Profile, half length, (MD2 Compliant) PCIe* add-in card</p> <p>4 internal SAS / SATA ports</p> <p>LSI* SAS3108 ROC</p> <p>RAID Levels – 0, 1, 5, 6, 10, 50, and 60</p> <p>Embedded 1GB DDR3 Cache Memory</p> <p>SAS data cables not included and must be purchased separately.</p>
	<p><b>Intel® RAID Controller RS3SC008</b></p> <p><b>iPC</b> RS3SC008  <b>MM#</b> 928223  <b>UPC</b> 00735858266956  <b>EAN</b> 5032037068567  <b>MOQ</b> 5</p> <p><b>Product type</b> Accessory kit</p>	<p>Low Profile, half length, (MD2 Compliant) PCIe* add-in card</p> <p>8 external SAS / SATA ports</p> <p>LSI* SAS3108 ROC</p> <p>RAID Levels – 0, 1, 5, 6, 10, 50, and 60</p> <p>Embedded 1GB DDR3 Cache Memory</p> <p>SAS data cables not included and must be purchased separately.</p>
	<p><b>Intel® RAID Controller RS3GC008</b></p> <p><b>iPC</b> RS3GC008  <b>MM#</b> 928220  <b>UPC</b> 00735858267175  <b>EAN</b> 5032037053839  <b>MOQ</b> 5</p> <p><b>Product type</b> Accessory kit</p>	<p>Low Profile, half length, (MD2 Compliant) PCIe* add-in card</p> <p>Entry Level SAS Card</p> <p>8 external SAS / SATA ports</p> <p>LSI* SAS3008 IOC</p> <p>RAID Levels – JBOD (SAS/SATA Connectivity)</p> <p>SAS data cables not included and must be purchased separately.</p>

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	<p><b>Intel® RAID Controller RS3UC080</b></p> <p><b>iPC</b> RS3UC080  <b>MM#</b> 928218  <b>UPC</b> 00735858267649  <b>EAN</b> 5032037053938  <b>MOQ</b> 5</p> <p><b>Product type</b> Accessory kit</p>	<p>Low Profile, half length, (MD2 Compliant) PCIe* add-in card            Entry Level SAS RAID Card            8 internal SAS / SATA ports            LSI* SAS3008 IOC            RAID Levels – 0, 1, 1E, 10, and JBOD</p> <p>SAS data cables not included and must be purchased separately.</p>
	<p><b>Intel® RAID Controller RS3WC080</b></p> <p><b>iPC</b> RS3WC080  <b>MM#</b> 928215  <b>UPC</b> 00735858267656  <b>EAN</b> 5032037053945  <b>MOQ</b> 5</p> <p><b>Product type</b> Accessory kit</p>	<p>Low Profile, half length, (MD2 Compliant) PCIe* add-in card            Entry Level SAS RAID Controller            8 internal SAS / SATA ports            LSI* SAS3008 IOC            RAID Levels – JBOD, 0, 1, 10 &amp; Hybrid 5, 50</p> <p>SAS data cables not included and must be purchased separately.</p>
	<p><b>Intel® RAID Controller RS3UC080J</b></p> <p><b>iPC</b> RS3UC080J  <b>MM#</b> 952709  <b>UPC</b> 00735858323840  <b>EAN</b> 5032037090971  <b>MOQ</b> 5</p> <p><b>Product type</b> Accessory kit</p>	<p>Low Profile, half length, (MD2 Compliant) PCIe* add-in card            Entry Level SAS RAID Controller            8 internal SAS / SATA ports            LSI* SAS3008 IOC            RAID Levels – JBOD (SAS/SATA Connectivity)</p> <p>SAS data cables not included and must be purchased separately.</p>
	<p><b>Intel® RAID Controller RSP3GD016J</b></p> <p><b>iPC</b> RSP3GD016J  <b>MM#</b> 954492  <b>UPC</b> 00735858329156  <b>EAN</b> 5032037095273  <b>MOQ</b> 5</p> <p><b>Product type</b> Accessory kit</p>	<p>Low Profile, half length, (MD2 Compliant) PCIe* add-in card            Entry level Tri-Mode SAS/SATA/NVMe adapter.            16 external SAS / SATA ports / 4 NVMe            LSI* SAS3416 IOC            RAID Levels – JBOD (SAS/SATA/NVMe Connectivity)</p> <p>SAS and NVMe data cables not included and must be purchased separately.</p>
	<p><b>Intel® RAID Controller RSP3WD080E</b></p> <p><b>iPC</b> RSP3WD080E  <b>MM#</b> 954495  <b>UPC</b> 00735858329170  <b>EAN</b> 5032037095297  <b>MOQ</b> 5</p> <p><b>Product type</b> Accessory kit</p>	<p>Low Profile, half length, (MD2 Compliant) PCIe* add-in card            Entry level Tri-Mode RAID Controller            8 internal SAS/SATA ports/2 NVMe            Avago* SAS3408 IOC            RAID Levels – 0/1/10/5 and JBOD</p> <p>SAS and NVMe data cables not included and must be purchased separately.</p>




**Table 8. Intel® RAID accessory options**


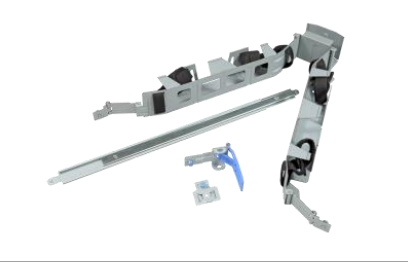
Image	Details	Description
	<p><b>Intel® Embedded Server RAID Technology 2 SATA Software RAID Activation Key</b></p> <p><b>iPC</b> RKSATA4R5  <b>MM#</b> 916346  <b>UPC</b> 00735858238861  <b>EAN</b> 5032037033640  <b>MOQ</b> 5</p> <p><b>Product type</b> Accessory kit</p>	<p>Used to enable onboard SATA controllers to support Intel® Embedded Server RAID Technology 2 software RAID 5</p>

### 3.2 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, resulting in 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.

**Table 9. Rack mount kits**





Image	Details	Description
	<p><b>Enhanced Value Rail Kit</b></p> <p><b>iPC</b> AXXELVRAIL  <b>MM#</b> 920970  <b>UPC</b> 00735858244367  <b>EAN</b> 5032037038980  <b>MOQ</b> 1</p> <p><b>Product type</b> Accessory kit</p>	<ul style="list-style-type: none"> <li>• Works for all 438 mm wide Intel® Chassis 1U, 2U, 4U</li> <li>• Adjustment within 609.6 mm ~ 765 mm to fit difference depth rack</li> <li>• 424.2 mm maximum travel length</li> <li>• 2/3 extension from rack</li> <li>• 130 lbs. (59 Kgs) max support weight</li> <li>• Tool-less chassis attach</li> <li>• Tools required to attach to rails to rack</li> </ul> <p><b>Note:</b> No cable management arm support.</p>
	<p><b>Premium quality rails with no CMA support</b></p> <p><b>iPC</b> A1USHRTRAIL  <b>MM#</b> 939208  <b>UPC</b> 00735858289931  <b>EAN</b> 5032037068772  <b>MOQ</b> 1</p> <p><b>Product type</b> Accessory kit</p>	<ul style="list-style-type: none"> <li>• Travel distance 780 mm</li> <li>• Adjustment within 609.6 mm ~ 762 mm to fit difference depth rack.</li> <li>• Tool-less installation</li> <li>• Full extension from rack</li> </ul> <p><b>Kit includes:</b> Rails, screws, installation manual</p>
	<p><b>Premium quality rails with CMA support</b></p> <p><b>iPC</b> A1UFULLRAIL  <b>MM#</b> 939207  <b>UPC</b> 00735858291972  <b>EAN</b> 5032037070539  <b>MOQ</b> 1</p> <p><b>Product type</b> Accessory kit</p>	<ul style="list-style-type: none"> <li>• Travel distance 780 mm</li> <li>• Adjustment within 609.6 mm ~ 762 mm to fit difference depth rack.</li> <li>• Tool-less installation</li> <li>• Full extension from rack</li> </ul> <p><b>Kit includes:</b> Rails, screws, installation manual            Compatible with Cable Management Arm <b>AXX1U2UCMA</b></p>

	<p><b>2-Post fixed mount bracket kit</b></p> <p><b>iPC</b>            AXX2POSTBRCKT  <b>MM#</b>            918808  <b>UPC</b>            00735858245319  <b>EAN</b>            5032037039833  <b>MOQ</b>            1</p> <p><b>Product type</b>    Accessory kit</p>	<ul style="list-style-type: none"> <li>• Tools required to attach components to rack</li> </ul>
	<p><b>Cable Management Arm (CMA)</b></p> <p><b>iPC</b>            AXX1U2UCMA  <b>MM#</b>            913117  <b>UPC</b>            00735858224604  <b>EAN</b>            5032037019972  <b>MOQ</b>            1</p> <p><b>Product type</b>    Accessory kit</p>	<ul style="list-style-type: none"> <li>• Compatible with Premium <b>A1UFULLRAIL</b> rail kit option only</li> </ul>




### 3.3 Miscellaneous Accessory Options

**Table 10. Miscellaneous accessory options**

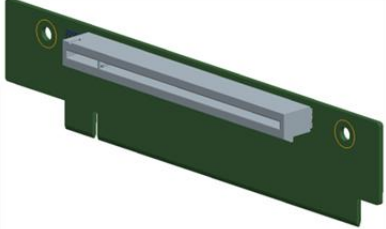



Image	Details	Description
	<p><b>Intel® Remote Management Module 4 Lite Activation Key</b></p> <p><b>iPC</b>           AXXRMM4LITE2  <b>MM#</b>           946514  <b>UPC</b>           00735858307413  <b>EAN</b>           5032037080750  <b>MOQ</b>           1</p> <p><b>Product type</b>   Accessory kit</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</li> <li>• Media Redirection</li> </ul> <p>See the <i>Intel® Remote Management Module 4 and Integrated Web Console Users Guide</i> for more information.</p>
	<p><b>Intel® Trusted Platform Module (TPM) 2.0</b></p> <p><b>iPC</b>           AXXTPMENC8  <b>MM#</b>           955867  <b>UPC</b>           00735858345712  <b>EAN</b>           5032037106207  <b>MOQ</b>           1</p> <p><b>Product type</b>   Accessory kit</p>	<p>A TPM is a hardware-based security device that addresses the growing concern on boot process integrity and offers better data protection. TPM protects the system start-up process by ensuring it is tamper-free before releasing system control to the operating system. A TPM device provides secured storage to store data, such as security keys and passwords. In addition, a TPM device has encryption and hash functions.</p> <p>AXXTPMENC8 implements TPM as per TPM PC Client specifications revision 2.0 by the Trusted Computing Group (TCG)</p>
	<p><b>Intel® Trusted Platform Module (TPM) 2.0</b></p> <p><b>iPC</b>           AXXTPMCHNE8  <b>MM#</b>           960608  <b>UPC</b>           00735858347341  <b>EAN</b>           5032037107068  <b>MOQ</b>           1</p> <p><b>Product type</b>   Accessory kit</p>	<p><b>Note:</b> AXXTPMCHNE8 compatible for use in China.</p> <p>A TPM is a hardware-based security device that addresses the growing concern on boot process integrity and offers better data protection. TPM protects the system start-up process by ensuring it is tamper-free before releasing system control to the operating system. A TPM device provides secured storage to store data, such as security keys and passwords. In addition, a TPM device has encryption and hash functions.</p> <p>AXXTPMCHNE8 implements TPM as per TPM PC Client specifications revision 2.0 by the Trusted Computing Group (TCG)</p>
	<p><b>1500 mm (59 in) North America power cable</b></p> <p><b>iPC</b>           FPWRCABLENA  <b>MM#</b>           879287  <b>UPC</b>           00735858181129  <b>EAN</b>           5032037015738  <b>MOQ</b>           1</p> <p><b>Product type</b>   Accessory kit</p>	<p>1500 mm (59 in) North America power cable</p>

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Image	Details	Description
	<p><b>1U Front Bezel</b></p> <p><b>iPC</b> MYP1UBEZEL  <b>MM#</b> 99A2D7  <b>UPC</b> 00735858455244  <b>EAN</b> 5032037195164  <b>MOQ</b> 1</p> <p><b>Product Type</b> Accessory Kit</p>	<p>1U Front Bezel Accessory Kit for the Intel® Server System M20MYP1UR</p> <p>Kit Includes:</p> <ul style="list-style-type: none"> <li>• 1U bezel</li> </ul>

## 4. Spare and Replacement Parts (FRUs)



Table 11. Spare and replacement parts

Image	Details	Description
	<p><b>1U One-Slot PCIe Riser Card</b></p> <p><b>iPC</b> MYP1URISER  <b>MM#</b> 99A2D6  <b>UPC</b> 00735858457026  <b>EAN</b> 5032037196659  <b>MOQ</b> 1</p> <p><b>Product type</b> Accessory kit</p>	<p>1U One-Slot PCIe Riser Card kit</p> <p>Support for one PCIe* slot (x8 elec., x16 mechanical)</p>
	<p><b>750 W Common Redundant Power Supply</b></p> <p><b>iPC</b> FXX750PCRPS  <b>MM#</b> 915604  <b>UPC</b> 00735858234979  <b>EAN</b> 5032037030601  <b>MOQ</b> 1</p> <p><b>Product type</b> Spare FRU</p>	<p>750 W AC common redundant power supply with 80 PLUS* Platinum efficiency.  Power cord sold separately.</p>
	<p><b>4x3.5" Spare Hot Swap Backplane</b></p> <p><b>iPC</b> FR1304S3HSBP  <b>MM#</b> 934887  <b>UPC</b> 00735858288835  <b>EAN</b> 5032037068116  <b>MOQ</b> 1</p> <p><b>Product type</b> Spare FRU</p>	<p>Hot swap backplane board spare for R1304 systems.  Includes one backplane board.</p>
	<p><b>1U Passive Heat Sink Kit</b></p> <p><b>iPC</b> AXXSTPHMKIT1U  <b>MM#</b> 960403  <b>UPC</b> 00735858346610  <b>EAN</b> 5032037037525  <b>MOQ</b> 1</p> <p><b>Product type</b> Accessory kit</p>	<p><b>Kit includes:</b>  (1) – Heat sink  (1) – Lid</p> <p><b>Required:</b> CPU carrier clip (iPC <b>AXXSTCPUCAR</b>) for processor installation</p> <p><b>Note:</b> One kit is required for each processor installed.</p>

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Image	Details	Description
	<p><b>Processor Carrier Clip</b></p> <p><b>iPC</b> AXSTCPUCAR  <b>MM#</b> 960401  <b>UPC</b> 00735858347372  <b>EAN</b> 5032037107099  <b>MOQ</b> 1</p> <p><b>Product type</b> Spare FRU</p>	<p>Processor carrier clip spare. To be used in conjunction with a heatsink for CPU installation.</p> <p>Kit includes one carrier clip spare.</p>
	<p><b>Power Distribution Board</b></p> <p><b>iPC</b> MYP1UPDB  <b>MM#</b> 99A2D8  <b>UPC</b> 00735858455251  <b>EAN</b> 5032037195171  <b>MOQ</b> 1</p> <p><b>Product type</b> Spare FRU</p>	<p>Power distribution board spare for the Intel® Server System M20MYP1UR.</p>
	<p><b>1U Spare Fan</b></p> <p><b>iPC</b> MYP1UFAN  <b>MM#</b> 99A2H4  <b>UPC</b> 00735858454889  <b>EAN</b> 5032037194815  <b>MOQ</b> 1</p> <p><b>Product type</b> spare FRU</p>	<p>Spare fan for the Intel® Server System M20MYP1UR. 40x56 mm dual rotor with 6-pin connector.</p> <p>Kit includes one fan.</p>
	<p><b>3.5" Tool Less Hot Swap Drive Carrier</b></p> <p><b>iPC</b> FXX35HSCAR2  <b>MM#</b> 958245  <b>UPC</b> 00735858345675  <b>EAN</b> 5032037106160  <b>MOQ</b> 1</p> <p><b>Product type</b> Spare FRU</p>	<p>Spare 3.5" tool less drive hot swap drive carrier  Includes mounting screws for mounting 2.5" SSDs.</p>
	<p><b>Mini-SAS HD 380mm Cable</b></p> <p><b>iPC</b> AXXCBL380HDHD  <b>MM#</b> 936427  <b>UPC</b> 00735858284738  <b>EAN</b> 5032037065023  <b>MOQ</b> 1</p> <p><b>Product Type</b> Spare FRU</p>	<p><b>380 mm</b> long, cable kit (2 cables included), straight SFF8643 to straight SFF8643</p> <p>Used to connect hot-swap drive bays to mainboard or add-in card Mini-SAS HD ports</p>

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Image	Details	Description
	<p><b>Mini-SAS HD 380mm Cable</b></p> <p><b>iPC</b> AXXCBL800HDHD  <b>MM#</b> 937312  <b>UPC</b> 00735858286015  <b>EAN</b> 5032037066006  <b>MOQ</b> 1</p> <p><b>Product Type</b> Spare FRU</p>	<p><b>800 mm</b> long, cable kit (2 cables included in kit) straight SFF8643 to straight SFF8643</p> <p>Used to connect hot-swap drive bays to mainboard or add-in card Mini-SAS HD ports</p>
	<p><b>Mini-SAS HD 380mm Cable</b></p> <p><b>iPC</b> AXXCBL875HDHD  <b>MM#</b> 936123  <b>UPC</b> 00735858284769  <b>EAN</b> 5032037065054  <b>MOQ</b> 1</p> <p><b>Product Type</b> Spare FRU</p>	<p><b>875 mm</b> long, cable kit (2 cables included) straight SFF8643 to straight SFF8643</p> <p>Used to connect hot-swap drive bays to mainboard or add-in card Mini-SAS HD ports</p>
	<p><b>Internal Cable Spare Kit</b></p> <p><b>iPC</b> MYP1UCBL  <b>MM#</b> 99A2DA  <b>UPC</b> 00735858455268  <b>EAN</b> 5032037195188  <b>MOQ</b> 1</p> <p><b>Product Type</b> Spare FRU</p>	<p>Kit with internal cables for the Intel® Server System M20MYP1UR</p> <p>Contains:</p> <ul style="list-style-type: none"> <li>-One Front control panel cable</li> <li>-One USB 3.0 cable</li> <li>-One PMBus cable</li> <li>-One backplane 4-pin power cables</li> <li>-One main power cable</li> <li>-One CPU power cable</li> </ul>

## Appendix A. Glossary

<b>Term</b>	<b>Definition</b>
Intel® AVX-512	Intel® Advanced Vector Extensions 512
DDR4	Double-Data Rate 4
DIMM	Dual Inline Memory Module
DR	Double Rank
SR	Single Rank
EAN	International Article Number (Barcode)
ECC	Error Correcting Code
iPC	Intel Product Code
iPN	Intel Product Number
MM#	Master Material order number
MOQ	Minimum Order Quantity
PCIe*	PCI Express*
UPC	Universal Product Code (Barcode)
Intel® VROC	Intel® Virtual RAID on CPU
TCG	Trusted Computing Group