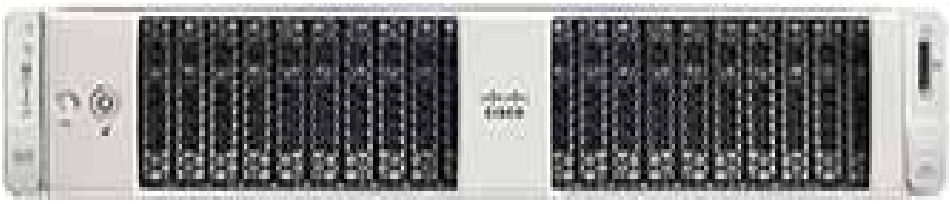
Spec Sheet

Cisco UCS C240 M7 SFF Rack Server

A printed version of this document is only a copy and not necessarily the latest version. Refer to the following link for the latest released version:

https://www.cisco.com/c/en/us/products/servers-unified-computing/ucs-c-series-rack-servers/datasheet-listing.html



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OVERVIEW

The Cisco UCS C240 M7 SFF server extends the capabilities of Cisco's Unified Computing System portfolio in a 2U form factor with the 5th Gen. Intel® Xeon® Scalable Processors, 16 DIMM slots per CPU for DDR5-5600 Memory DIMMs with DIMM capacity points up to 256GB **or** 4th Gen. Intel® Xeon® Scalable Processors, 16 DIMM slots per CPU for DDR5-4800 Memory DIMMs with DIMM capacity points up to 256GB.

The Cisco UCS C240 M7 SFF server harnesses the power of the latest Intel® Xeon® Scalable Processors , and offers the following:

CPU:

- Up to 2x 5th Generation Intel® Xeon® Scalable Processors with up to 64 cores per processor **or**
- Up to 2x 4th Generation Intel® Xeon® Scalable Processors with up to 60 cores per processor

Memory:

- Up to 8TB with 32 x 256GB DDR5-5600 DIMMs, in a 2-socket configuration with 5th Gen. Intel® Xeon® Scalable Processors **or**
- Up to 8TB with 32 x 256GB DDR5-4800 DIMMs, in a 2-socket configuration with 4th Gen. Intel® Xeon® Scalable Processors

The server provides one or two internal slot for one of the following:

- Cisco 24G Tri-mode RAID controller with cache backup to control upto 16 SAS/SATA/NVMe drives **or**
- Cisco 24G Tri-mode RAID controller with cache backup to control upto 32 SAS/SATA/NVMe drives **or**
- Cisco 12G RAID controller with cache backup to control SAS/SATA drives **or**
- Cisco 24G Tri-mode Pass-through HBA to control SAS/SATA/NVMe **or**
- Cisco 12G SAS pass-through HBA to control SAS/SATA drives

mLOM: The UCS C240 M7 SFF server has a single 1GBE management port. A modular LAN on motherboard (mLOM)/OCP 3.0 module provides up to two 100GBE ports. A connector on the front of the chassis provides KVM functionality.

There are several options to choose from:

- **Option 1** UCSC-C240-M7SX (see ***Figure 1 on page 5***):
  - Up to 24 front facing SFF SAS/SATA HDDs or SAS/SATA SSDs or NVMe SSDs (optionally up to 4 of the slots can be direct-attach NVMe)
  - I/O-centric option provides up to 8 PCIe slots using all three rear risers
  - Storage-centric option provides three rear risers with a total of up to 4 SFF drives slot (SAS/SATA or NVMe PCIe Gen4) and 3 PCIe slots **or**
- **Option 2** UCSC-C240-M7SN (see ***Figure 1 on page 5***):
  - Up to 24 front facing SFF NVMe SSDs (drives are direct-attach to PCIe Gen4 x2)
  - I/O-centric option provides up to 8 PCIe slots using all three rear risers
  - Storage-centric option provides three rear risers with a total of up to 4 SFF drives slot (NVMe PCIe Gen4) and 3 PCIe slots.

The Cisco UCS C240 M7 SFF server can be used standalone, or as part of the Cisco Unified Computing System, which unifies computing, networking, management, virtualization, and storage access into a single integrated architecture enabling end-to-end server visibility, management, and control in both bare metal and virtualized environments.

NOTE: All options listed in the Spec Sheet are compatible with Intersight Managed Mode, UCSM Managed Mode, and Standalone configurations. To see the most recent list of components that are supported in Intersight Managed Mode, see Supported Systems.

See ***Figure 1 on page 5*** for front and rear views of all the configurations of the UCS C240 M7 server.

Figure 1 Cisco UCS C240 M7 SFF Rack Server

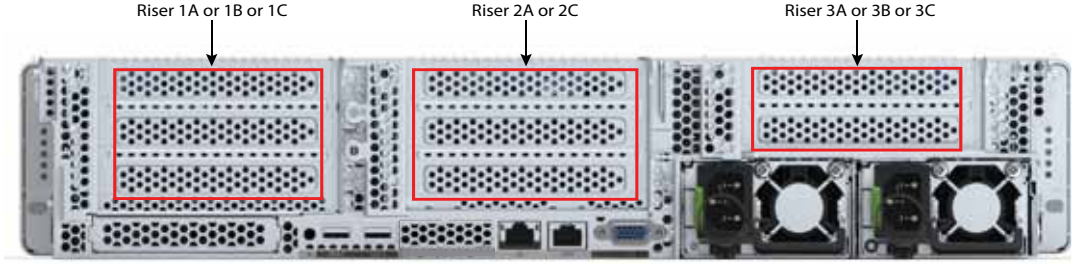
Option 1

Up to 24 front facing SFF SAS/SATA HDDs or SAS/SATA SSDs or NVMe SSDs (optionally up to 4 of the slots can be direct-attach NVMe)

Front View (all slots shown unpopulated - see ***Figure 2 on page 6*** for details)



Rear View (all slots shown unpopulated - see ***Figure 3 on page 7*** for details)



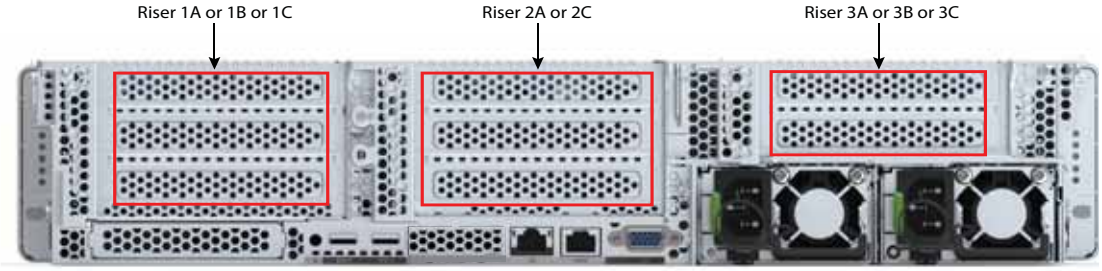
Option 2

Up to 24 front facing SFF NVMe SSDs only (drives are direct-attach to PCIe Gen4 x2)

Front View (all slots shown unpopulated - see ***Figure 4 on page 9*** for details)



Rear View (all slots shown unpopulated - see ***Figure 5 on page 10*** for details)

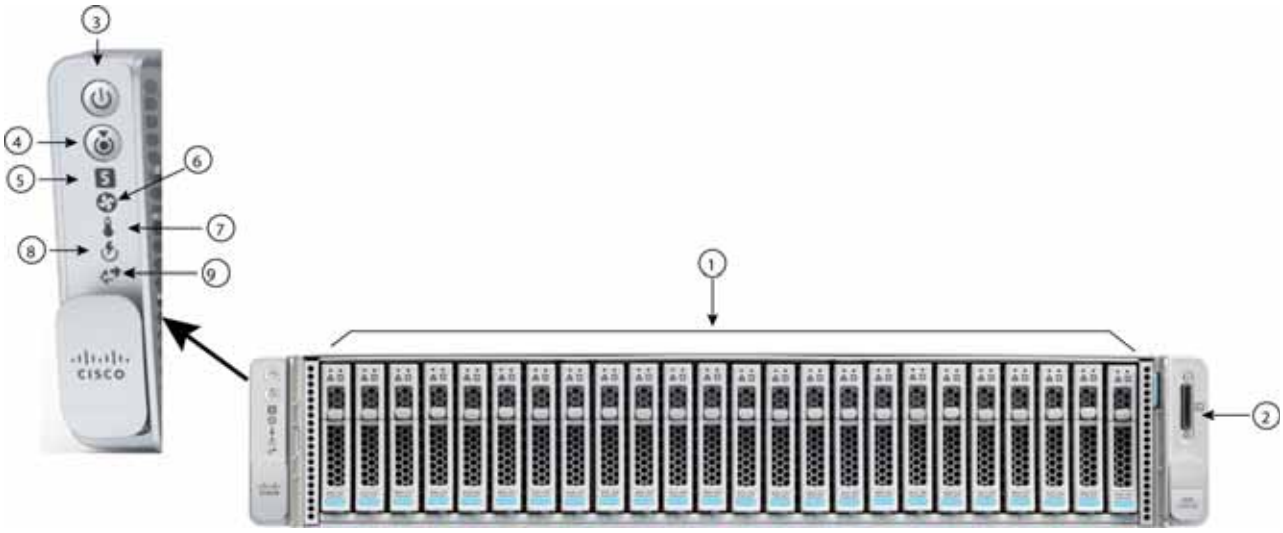


DETAILED VIEWS

Chassis Front View - Option 1

Figure 2 shows the front view of Cisco UCS C240 M7 SFF rack server configured with 24 front drives.

Figure 2 Chassis Front View (Option 1 - UCSC-C240-M7SX)

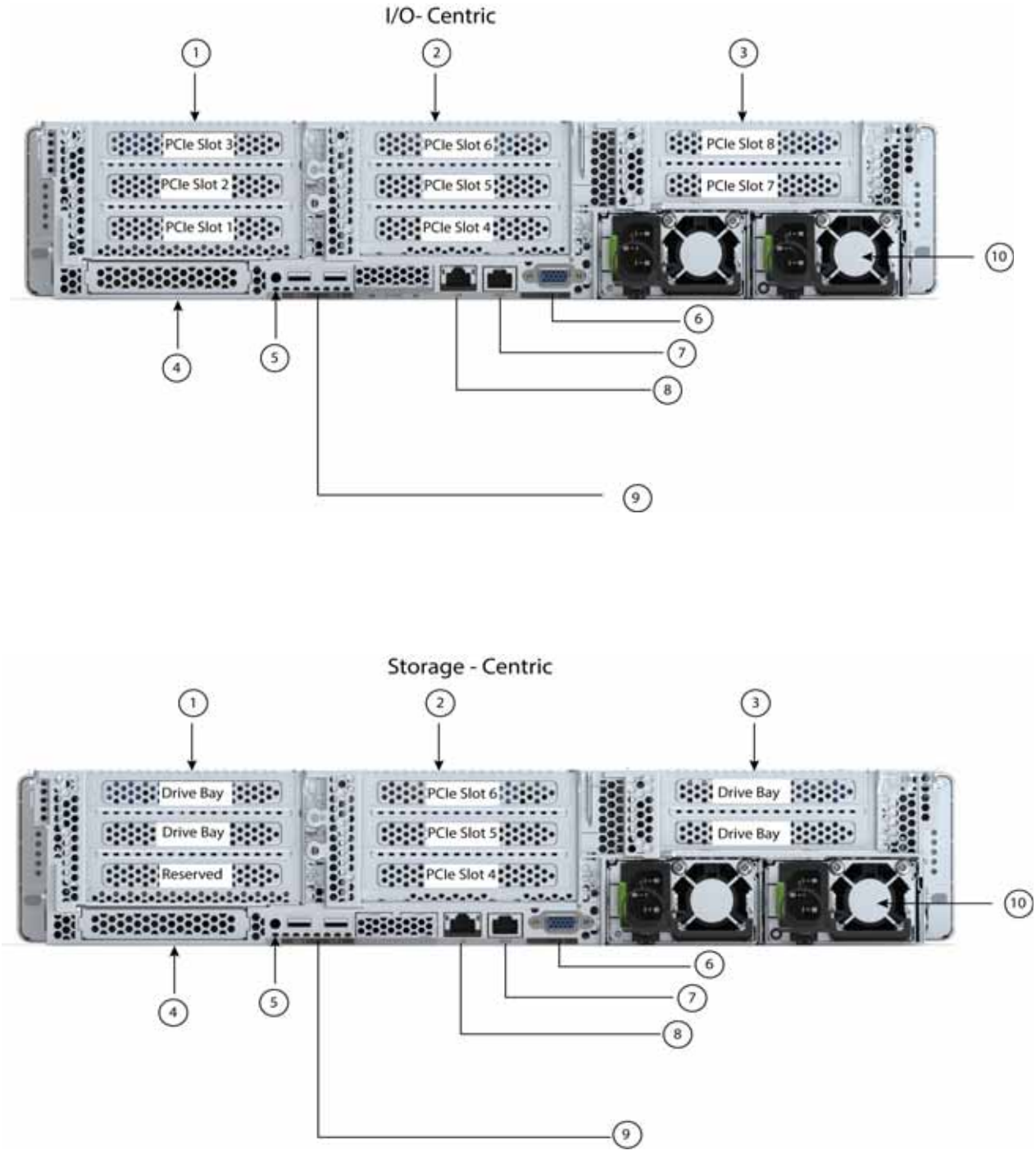


1	Drive bays 1 – 24 supports up to 24 front facing SFF SAS/SATA HDDs or SAS/SATA SSDs or NVMe SSDs (optionally up to 4 of the slots can be direct-attach NVMe).	**6**	Fan status LED
2	KVM connector (used with KVM cable that provides two USB 2.0, one VGA, and one serial connector)	**7**	Temperature status LED
3	Power button/Power status LED	**8**	Power supply status LED
4	Unit Identification button/LED	**9**	Network link activity LED
5	System status LED	**-**	-

Chassis Rear View

Figure 3 shows the external features of the rear panel.

Figure 3 Chassis Rear View (UCSC-C240-M7SX)

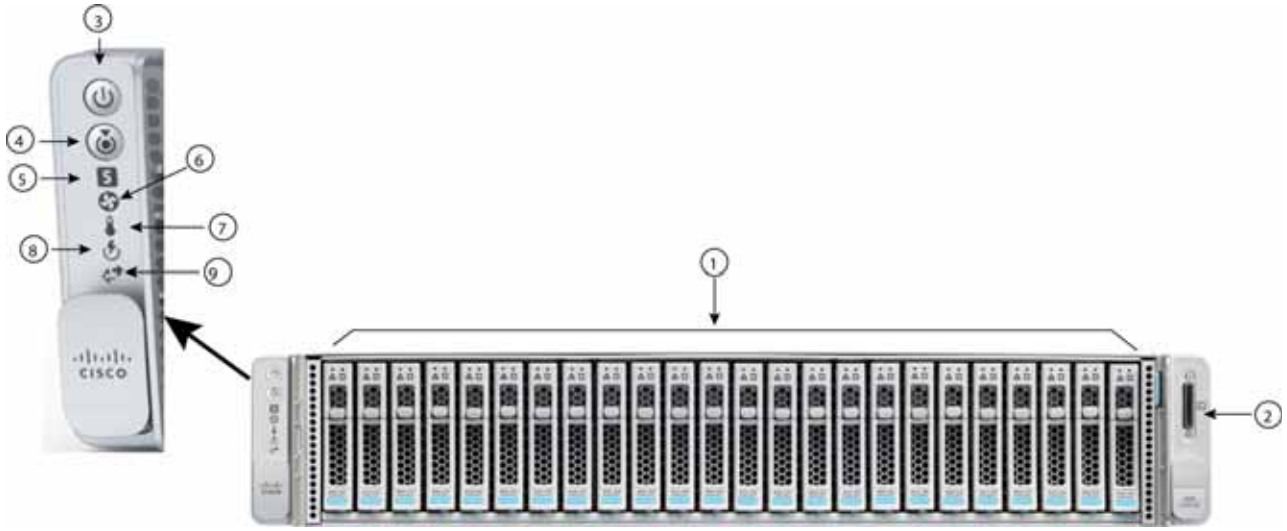


1	There are three Riser 1 options: **Riser 1A (I/O-centric, Gen 4, CPU1 control)** Supports three Gen 4 PCIe slots: ■ Slot 1 is full-height, 3/4 length, x8, NCSI, single wide GPU ■ Slot 2 is full-height, full-length, x16, NCSI, single/double wide GPU ■ Slot 3 is full-height, full-length, x8, no NCSI, single wide GPU **Riser 1B (storage-centric, CPU1 control)** Supports two drive bays: ■ Slot 1 is reserved ■ Drive bay 102, x4, SAS/SATA/NVMe ■ Drive bay 101, x4, SAS/SATA/NVMe **Riser 1C (I/O-centric, Gen 5, CPU1 control)** Supports two Gen 5 PCIe slots: ■ Slot 1 is full-height, 3/4 length, x16, NCSI, single wide GPU ■ Slot 2 is full-height, full-length, x16, no NCSI, single/double wide GPU	**6**	VGA display port (DB15 connector)
2	There are two Riser 2 options: **Riser 2A (I/O-centric, Gen 4, CPU2 control)** Supports three Gen 4 PCIe slots: ■ Slot 4 is full-height, 3/4 length, x8, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single/double wide GPU ■ Slot 6 is full-height, full length, x8, no NCSI, single wide GPU **Riser 2C (I/O-centric, Gen 5, CPU2 control)** Supports two Gen 5 PCIe slots: ■ Slot 4 is full-height, 3/4 length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single/double wide GPU	**7**	COM port (RJ45 connector)
3	There are three Riser 3 options **Riser 3A (I/O-centric, CPU2 control)** Supports two PCIe slots: ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 8 is full-height, full-length, x8, no NCSI, single wide GPU **Riser 3B (storage-centric, CPU2 control)** Supports two drive bays: ■ Drive bay 104, x4, SAS/SATA/NVMe ■ Drive bay 103, x4, SAS/SATA/NVMe **Riser 3C (for GPU, CPU2 control)** Supports one PCIe Slot: ■ Slot 7 is one full-height, full-length, x16, no NCSI, double wide GPU ■ Slot 8 is blocked by double wide GPU (not used)	**8**	1 GbE dedicated Ethernet management port
4	Modular LAN-on-motherboard (mLOM)/OCP 3.0 card slot (x16)	**9**	USB 3.0 ports (two)
5	System ID pushbutton/LED	**10**	Power supplies (two)

Chassis Front View - Option 2

Figure 4 shows the front view of Cisco UCS C240 M7 SFF rack server configured with 24 drives.

Figure 4 Chassis Front View (Option 2 - UCSC-C240-M7SN)



1	Drive bays 1 – 24 support NVMe PCIe drives (only)[1]	**6**	Fan status LED
2	KVM connector (used with KVM cable that provides two USB 2.0, one VGA, and one serial connector)	**7**	Temperature status LED
3	Power button/Power status LED	**8**	Power supply status LED
4	Unit Identification button/LED	**9**	Network link activity LED
5	System status LED	**-**	-

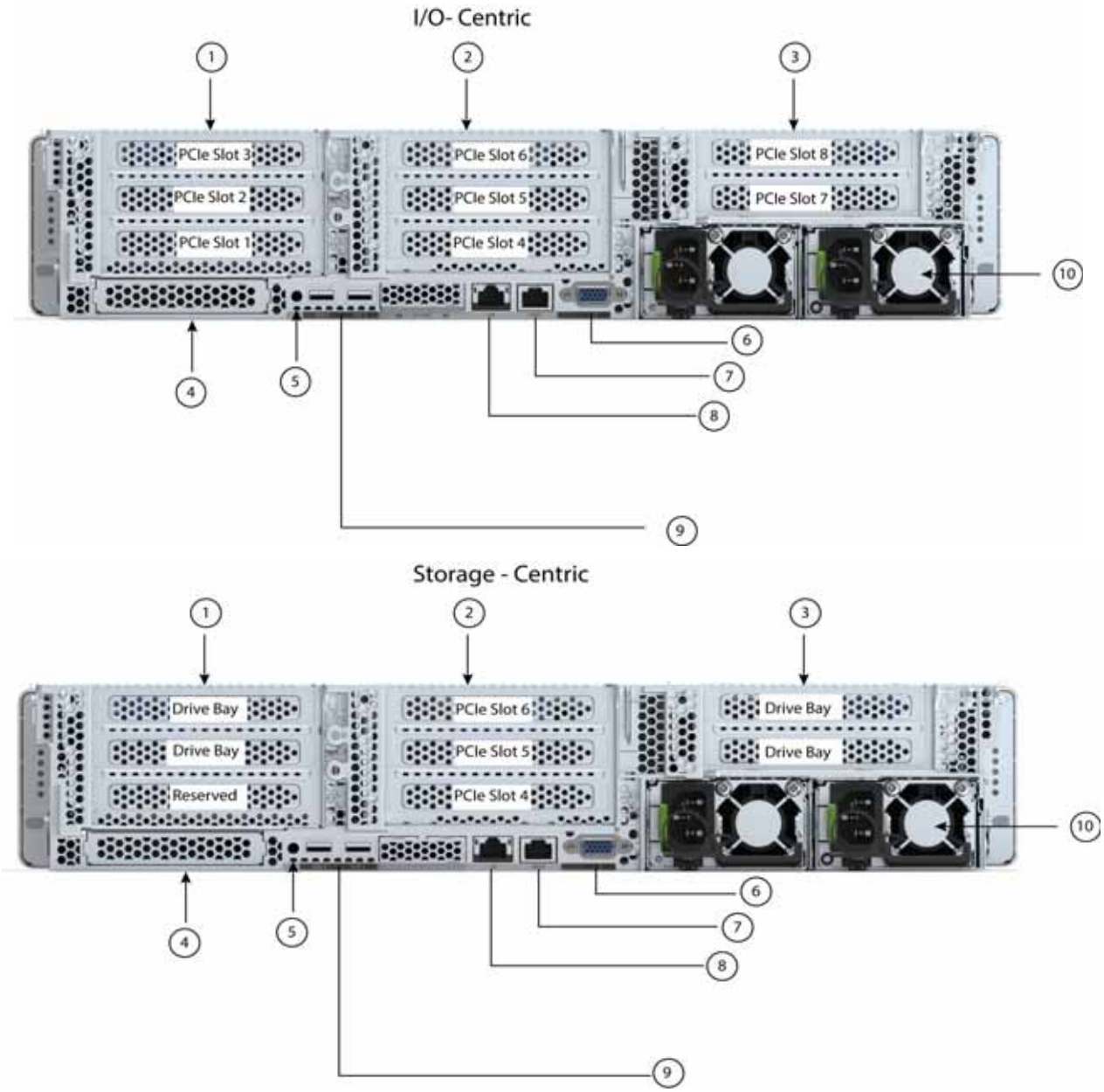
Notes:

1. If NVMe drives are selected, you must also select 2 CPUs.

Chassis Rear View - Option 2

Figure 3 shows the external features of the rear panel.

Figure 5 Chassis Rear View (Option 2 - UCSC-C240-M7SN)



1	There are three Riser 1 options: **Riser 1A (I/O-centric, Gen 4, CPU1 control)** Supports three Gen 4 PCIe slots: ■ Slot 1 is full-height, 3/4 length, x8, NCSI, single wide GPU ■ Slot 2 is full-height, full-length, x16, NCSI, single/double wide GPU ■ Slot 3 is full-height, full-length, x8, no NCSI, single wide GPU **Riser 1B (storage-centric, CPU1 control)** Supports two drive bays: ■ Slot 1 is reserved ■ Drive bay 102, x4, NVMe ■ Drive bay 101, x4, NVMe **Riser 1C (I/O-centric, Gen 5, CPU1 control)** Supports two Gen 5 PCIe slots: ■ Slot 1 is full-height, 3/4 length, x16, NCSI, single wide GPU ■ Slot 2 is full-height, full-length, x16, no NCSI, single/double wide GPU	**6**	VGA display port (DB15 connector)
2	There are two Riser 2 options: **Riser 2A (I/O-centric, Gen 4, CPU2 control)** Supports three Gen 4 PCIe slots: ■ Slot 4 is full-height, 3/4 length, x8, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single/double wide GPU ■ Slot 6 is full-height, full length, x8, no NCSI, single wide GPU **Riser 2C (I/O-centric, Gen 5, CPU2 control)** Supports two Gen 5 PCIe slots: ■ Slot 4 is full-height, 3/4 length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single/double wide GPU	**7**	COM port (RJ45 connector)
3	There are three Riser 3 options **Riser 3A (I/O-centric, CPU2 control)** Supports two PCIe slots: ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 8 is full-height, full-length, x8, no NCSI, single wide GPU **Riser 3B (storage-centric, CPU2 control)** Supports two drive bays: ■ Drive bay 104, x4, NVMe ■ Drive bay 103, x4, NVMe **Riser 3C (for GPU, CPU2 control)** Supports one PCIe Slot: ■ Slot 7 is one full-height, full-length, x16, no NCSI,double wide GPU ■ Slot 8 is blocked by double wide GPU (not used)	**8**	1 GbE dedicated Ethernet management port
4	Modular LAN-on-motherboard (mLOM)/OCP 3.0 card slot (x16)	**9**	USB 3.0 ports (two)
5	System ID pushbutton/LED	**10**	Power supplies (two)

BASE SERVER STANDARD CAPABILITIES and FEATURES

Table 1 lists the capabilities and features of the base server. Details about how to configure the server for a particular feature or capability (for example, number of processors, drives, or amount of memory) are provided in *CONFIGURING the SERVER, page 15*.

Table 1 Capabilities and Features

Capability/ Feature	Description
Chassis	Two rack unit (2RU) chassis
CPU	■ One or two 5th Gen. Intel® Xeon® Scalable Processors **or** One or two 4th Gen. Intel® Xeon® Scalable Processors. ■ Each CPU has 8 channels with up to 2 DIMMs per channel, for up to 16 DIMMs per CPU. ■ UPI Links: Up to 4 at 20GT/s
Chipset	Intel® C741 series chipset
Memory	■ 32 total DDR5-5600 MT/s DIMM slots with 5th Gen. Intel® Xeon® Scalable Processors (16 per CPU) **or** 32 total DDR5-4800 MT/s DIMM slots with 4th Gen. Intel® Xeon® Scalable Processors ■ Up to 8TB DDR5-5600 DIMM memory capacity (32x 256GB DIMMs) with 5th Gen. Intel® Xeon® Scalable Processors **or** Up to 8TB DDR5-4800 DIMM memory capacity (32x 256GB DIMMs) with 4th Gen. Intel® Xeon® Scalable Processors ■ 75% peak bandwidth increase over DDR4-3200, with on-die ECC; all densities are Registered DIMMs (RDIMMs)
Video	The Cisco Integrated Management Controller (CIMC) provides video using the Aspeed AST2600 video/graphics controller.
Power subsystem	Up to two of the following hot-swappable power supplies: ■ 1050 W (DC) ■ 1200 W (AC) ■ 1600 W (AC) ■ 2300 W (AC) One power supply is mandatory; one more can be added for 1 + 1 redundancy.
Fans	Six hot-swappable fans for front-to-rear cooling
Front Panel	A front panel controller provides status indications and control buttons.
ACPI	This server supports the advanced configuration and power interface (ACPI) 6.2 standard.
Infiniband	The InfiniBand architecture is supported by the PCIe slots.
Expansion slots	■ Riser 1A (three Gen 4 PCIe slots) ■ Riser 1B (two drive bays) ■ Riser 1C (two Gen 5 PCIe slots) ■ Riser 2A (three Gen 4 PCIe slots) ■ Riser 2C (two Gen 5 PCIe slots) ■ Riser 3A (two Gen 4 PCIe slots) ■ Riser 3B (two drive bays) ■ Riser 3C (one full-length, double-wide GPU)  **Note:** For more details on the variations of riser 1, riser 2, and riser 3, see *Riser Card Configurations and Options, page 66*.

Capability/ Feature	Description
Internal storage devices	Drive Storage: The server is orderable in two different versions: ■ UCSC-C240-M7SX **(Option 1)**: • Up to 24 front facing SFF SAS/SATA HDDs or SAS/SATA SSDs or NVMe SSDs • Optionally, up to four of the slots can be direct-attach NVMe. These drives must be placed in front drive bays 1, 2, 3, and 4 only. The rest of the bays (5 - 24) can be populated with SAS/SATA/NVMe SSDs or HDDs. • Optionally, up to four SFF rear-facing SAS/SATA/NVMe drives ■ UCSC-C240-M7SN **(Option 2)**: • Up to 24 front NVMe drives (only). • Optionally, up to 4 rear NVMe drives (only) • Two CPUs are required when choosing NVMe SSDs Other storage: ■ A mini-storage module connector on the motherboard supports a boot-optimized RAID controller carrier that holds up to two SATA M.2 SSDs. ■ 8GB FlexMMC utility storage for staging of firmware and other user data. 8GB FlexMMC storage is built into the motherboard on M7.
Storage controllers	**Internal storage controllers:** Only one of the raid controller at a time can be used. ■ Cisco Tri-Mode 24G SAS RAID Controller w/4GB Cache ■ 24G Tri-Mode MP1 RAID Controller w/4GB FBWC 32Drv w/2U Brkt ■ Cisco M6 12G SAS RAID Controller with 4GB FBWC (28 Drives) ■ 24G Tri-Mode M1 HBA for (16 Drives) ■ Cisco M6 12G SAS HBA for (16 Drives) **External storage controllers:** ■ Cisco 12G 9500-8e 12G SAS HBA for external JBOD attach
Modular LAN on Motherboard (mLOM)/Open Compute Project (OCP) 3.0 slot	The dedicated mLOM/OCP 3.0 slot on the motherboard can flexibly accommodate the following cards: ■ Cisco Virtual Interface Cards ■ OCP 3.0 network interface card
Interfaces	■ Rear panel: • One 1Gbase-T RJ-45 management port • One RS-232 serial port (RJ45 connector) • One DB15 VGA connector • Two USB 3.0 port connectors • One flexible modular LAN on motherboard (mLOM)/OCP 3.0 slot that can accommodate various interface cards. ■ Front panel: • One KVM console connector (supplies two USB 2.0 connectors, one VGA DB15 video connector, and one serial port (RS232) RJ45 connector)
Integrated management processor	Baseboard Management Controller (BMC) running Cisco Integrated Management Controller (CIMC) firmware. Depending on your CIMC settings, the CIMC can be accessed through the 1GE dedicated management port, the 1GE/10GE LOM ports, or a Cisco virtual interface card (VIC). CIMC manages certain components within the server, such as the Cisco 12G SAS HBA.

Capability/ Feature	Description
Fabric Interconnect	■ Compatible with the Cisco UCS 6454, 64108, 6536, 6664 and UCSX-S9108-100G fabric interconnects. ■ In addition to direct-connect of rack-server to the Fabric Interconnect, the rack-server can also connect via the “Nexus 93180YC-FX3 FEX” for having up to 160 servers behind a pair of Fabric Interconnect.
UCSM	UCS Manager (UCSM) 4.3(2) or later runs in the Fabric Interconnect and automatically discovers and provisions some of the server components.
Intersight	Intersight provides server management capabilities
CIMC	Cisco Integrated Management Controller 4.3(1) or later
Firmware standards	■ UEFI Spec 2.9 ■ ACPI 6.5 ■ SMBIOS Ver 3.6

CONFIGURING the SERVER

Follow these steps to configure the Cisco UCS C240 M7 SFF Rack Server:

- *STEP 1 SELECT SERVER SKU, page 16*
- *STEP 2 SELECT RISER CARDS (REQUIRED), page 17*
- *STEP 3 SELECT CPU(s) (REQUIRED), page 19*
- *STEP 4 SELECT MEMORY (REQUIRED), page 25*
- *STEP 5 SELECT DRIVE CONTROLLERS (OPTIONAL), page 29*
- *STEP 6 SELECT DRIVES (OPTIONAL), page 34*
- *STEP 7 SELECT PCIe CARD(s) (OPTIONAL), page 38*
- *STEP 8 ORDER GPU CARDS (OPTIONAL), page 42*
- *STEP 9 ORDER POWER SUPPLY (REQUIRED), page 45*
- *STEP 10 SELECT INPUT POWER CORD(s) (REQUIRED), page 46*
- *STEP 11 ORDER TOOL-LESS RAIL KIT (REQUIRED) AND REVERSIBLE CABLE MANAGEMENT ARM (OPTIONAL), page 50*
- *STEP 12 SELECT MANAGEMENT CONFIGURATION (OPTIONAL), page 51*
- *STEP 13 ORDER SECURITY DEVICES (REQUIRED), page 52*
- *STEP 14 SELECT LOCKING SECURITY BEZEL (OPTIONAL), page 53*
- *STEP 15 ORDER M.2 SATA SSDs (OPTIONAL), page 54*
- *STEP 16 ORDER M.2 NVMe AND RAID CONTROLLER(OPTIONAL), page 55*
- *STEP 17 SELECT OPERATING SYSTEM AND VALUE-ADDED SOFTWARE, page 56*
- *STEP 18 CHOOSE OPTIONAL OPERATING SYSTEM MEDIA KIT, page 59*

STEP 1 SELECT SERVER SKU

Top level ordering product ID (PID) is shown in ***Table 2***

Table 2 Top level ordering PID (major line bundle)

Product ID (PID)	Description
UCS-M7-MLB	UCS M7 RACK MLB This major line bundle (MLB) consists of the Rack Server (UCSC-C240-M7SX or UCSC-C240-M7SN) with software PIDs. Use this PID to begin a new configuration.

Select one server product ID (PID) from ***Table 3***.



CAUTION: This products may not be purchased outside of the approved bundles. (must be ordered under the MLB)

Table 3 PID of Cisco UCS C240 M7 SFF Rack Base Server

Product ID (PID)	Description
UCSC-C240-M7SX (Option 1)	Small form-factor (SFF) drives, with 24-drive backplane. ■ Front facing drive bays 1-24 support 2.5in SAS/SATA/NVMe SSDs depending on controller type installed. ■ Optionally, front-loading drive bays 1, 2, 3, and 4 support 2.5-inch direct-attach NVMe SSDs. ■ Optionally, 4 rear facing SAS/SATA/NVMe drives
UCSC-C240-M7SN (Option 2)	Small form-factor (SFF) drives, with 24-drive backplane. ■ Front-loading drive bays 1—24 support 2.5-inch NVMe (only) drives. ■ Optionally, 4 rear facing NVMe (only) drives

The Cisco UCS C240 M7 SFF Server:

- Includes a 24 drive backplane.
- Does not include power supply, CPU, memory, hard drives (HDDs), solid-state drives (SSDs), NVMe drives, SD cards, riser 1, riser 2, riser 3, tool-less rail kit, or PCIe cards.
- Use the steps on the following pages to configure the server with the components that you want to include.

STEP 2 SELECT RISER CARDS (REQUIRED)

Select desired risers from ***Table 4***

CAUTION:

- Mixing storage riser and I/O Risers are not allowed with the exception of Riser 2
- Mixing Gen 4 and Gen 5 Risers are not allowed with the exception of Riser 3.

Table 4 PIDs of the Risers

Product ID (PID)	Description
Option 1	
UCSC-RIS1A-240-D (I/O riser, Gen 4)	C240 M7 Riser 1A PCIe **Gen4** (controlled with CPU1) ■ Slot 1 is full-height, 3/4 length, x8, Supports NCSI and single wide GPU ■ Slot 2 is full-height, full-length, x16, Supports NCSI and single/double wide GPU ■ Slot 3 is full-height, full-length, x8, Supports single wide GPU **Note:** This riser can only be select with UCSC-RIS2A-240-D, UCSC-RIS3A-240-D or UCSC-RIS3C-240-D.
UCSC-RIS1B-24XM7 (storage riser)	C240 M7 Riser 1B (controlled with CPU1) ■ Slot 1 is reserved ■ Drive bay 102, x4, Supports SAS/SATA/NVMe drives ■ Drive bay 101, x4, Supports SAS/SATA/NVMe drives **Note:** This riser Can only be select with UCSC-RIS2A-240-D or UCSC-RIS2C-24XM7, and UCSC-RIS3B-24XM7.
UCSC-RIS1C-24XM7 (I/O riser, Gen 5)	C240 M7 Riser 1C PCIe **Gen 5** (controlled with CPU1) ■ Slot 1 is full-height, 3/4 length, x16, Supports NCSI and single wide GPU ■ Slot 2 is full-height, full-length, x16, supports single/double wide GPU **Note:** This riser Can only be select with UCSC-RIS2C-240M7, UCSC-RIS3A-240-D or UCSC-RIS3C-240-D.
Option 2 (2-CPU must be selected)	
UCSC-RIS2A-240-D (I/O riser, Gen 4)	C240 M7 Riser 2A PCIe **Gen4** (controlled with CPU2) ■ Slot 4 is full-height, 3/4 length, x8, Supports NCSI and single wide GPU ■ Slot 5 is full-height, full-length, x16, Supports NCSI and single/double wide GPU ■ Slot 6 is full-height, full length, x8, Supports single wide GPU

Table 4 PIDs of the Risers

Product ID (PID)	Description
UCSC-RIS2C-24XM7 (I/O riser, Gen 5)	C240 M7 Riser 2C PCIe **Gen5** (controlled with CPU2) ■ Slot 4 is full-height, 3/4 length, x16, Supports NCSI and single wide GPU ■ Slot 5 is full-height, full-length, x16, Supports single/double wide GPU
Option 3 (2-CPU must be selected)	
UCSC-RIS3A-240-D (I/O riser, Gen 4)	C240 M7 Riser 3A PCIe **Gen4** (controlled with CPU2) ■ Slot 7 is full-height, full-length, x8 ■ Slot 8 is full-height, full-length, x8
UCSC-RIS3B-24XM7 (storage riser)	C240 M7 Riser 3B (controlled with CPU2) ■ Drive bay 104, x4, SAS/SATA/NVMe drives ■ Drive bay 103, x4, SAS/SATA/NVMe drives
UCSC-RIS3C-240-D (GPU riser)	C240 M7 Riser 3C (controlled with CPU2) ■ Slot 7 is one full-height, full-length, x16, Supports double wide GPU ■ Slot 8 is blocked by double wide GPU (not used)
Accessories/spare included along with selected risers: ■ UCSC-FBRS2-C240-D for riser 2 and UCSC-FBRS3-C240-D riser filler blank for riser 3 is auto included, if riser 2 or riser 3 are not selected. ■ CBL-RSASR1B-240-D is auto included with selection of riser 1 and Raid controller (UCSC-RAID-T-D) ■ CBL-R1B-SD-240-D is auto included with selection of riser 1 and Raid controller (UCSC-RAID-SD-D). ■ CBL-SASR1B-C24XM7 is auto included with selection of riser 1 and Raid controller (UCSC-RAID-HP, UCSC-RAID-MP1L32, or UCSC-HBA-M1L16). ■ CBL-RSASR3B-240-D is auto included with selection of riser 3 and Raid controller (UCSC-RAID-T-D or UCSC-RAID-SD-D). ■ CBL-SASR3B-C24XM7 is auto included with selection of riser 3 and Raid controller (UCSC-RAID-HP, UCSC-RAID-MP1L32, or UCSC-HBA-M1L16). ■ CBL-SAS24-C240M7 is auto included with selection of HBA controller (UCSC-HBA-M1L16) and CPU Qty 1 for C240M7SX; supports Front NVMe Qty 1-2. **NOTE:** Please note, if you are adding additional risers and raid controller later, you may need to order the accessories with it.	



NOTE:

■ For additional details on riser cards, see ***Riser Card Configurations and Options, page 66***

■ For GPU support on a particular riser slot, see ***Table 17 on page 42***

STEP 3 SELECT CPU(s) (REQUIRED)

The standard CPU features are:

- The 5th Gen Intel® Xeon® Scalable Processors are paired with Intel® C741 series chipset:
  - Up to 64 cores
  - Cache size of up to 320 MB
  - Power: Up to 350Watts
  - UPI Links: Up to 4 at 20GT/s

With 5th Gen Intel® Xeon® Processors, improve performance and efficiency while reducing costs. See ***5TH GEN INTEL XEON BENEFIT PILLARS***

- The 4th Gen Intel® Xeon® Scalable Processors are paired with Intel® C741 series chipset:
  - Up to 60 cores
  - Cache size of up to 112.50 MB
  - Power: Up to 350Watts
  - UPI Links: Up to 4 at 16GT/s

With 4th Gen Intel® Xeon® processors, improve performance efficiency for critical workloads with the most built-in accelerators. See 4th gen Intel® Xeon® benefit pillars in ***LEADERSHIP PERFORMANCE WITH 4TH GEN INTEL® XEON® PROCESSORS***.

Select CPUs

NOTE: If you try to upgrade an existing C240M7 Server from 4th Gen CPUs to 5th Gen CPUs and there is a GPU greater than 75W installed in the server, a new GPU air duct **(UCSC-GPUAD-C240M7=)** may be required. Please refer to the **installation guide** for more details. The GPU air baffle (UCSC-GPUAD-240M7) incompatible with CPUs greater than 300W.

- The available 5th Gen Intel® Xeon® Scalable CPUs are listed in ***Table 5***. See ***Table 7 on page 23*** for CPU suffix notations.
- The available 4th Gen Intel® Xeon® Scalable CPUs are listed in ***Table 6***. See ***Table 7 on page 23*** for CPU suffix notations.

CAUTION:

- Normal operating temperature is limited to 35° C [95° F], for the 2U NVMe/SAS SKU, and is lowered to 28° C [82.4° F], with a fan fault. When rear drives are installed, the normal operating temperature is lowered to 30° C [86° F], and 26° C [78.8° F], respectively with a fan fault.
- With multiple GPU>75W installed, normal operating temperature is 30° C [86° F], lowered to 25° C [77° F], with a fan fault.
- When a GPU>75W is installed, CPUs with TDP greater than 300W are not supported

Table 5 Available 5th Gen. Intel® Xeon® Scalable CPUs

Product ID (PID)	Segment/Workload	Maximum Socket (S)	Cores (C)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Highest DDR5 DIMM Clock Support (MT/s)
8000 Series Processors							
UCS-CPU-I8592V	Cloud/SaaS/IaaS	2S	64	2.00	330W	320.00	4800
UCS-CPU-I8592+	2S Performance	2S	64	1.90	350W	320.00	5600
UCS-CPU-I8581V[1]	1-S Cloud/SaaS	1S	60	2.00	270W	300.00	4800
UCS-CPU-I8580	2S Performance	2S	60	2.00	350	300.00	5600
UCS-CPU-I8571N[1]	1-S Networking	1S	52	2.40	300	300.00	4800
UCS-CPU-I8570	2S Performance	2S	56	2.10	350	300.00	5600
UCS-CPU-I8568Y+	2S Performance	2S	48	2.30	350	300.00	5600
UCS-CPU-I8562Y+	2S Performance	2S	32	2.80	300	60.00	5600
UCS-CPU-I8558U[1]	1-Socket Optimized	1S	48	2.00	300	260.00	4800
UCS-CPU-I8558P	Cloud/SaaS/IaaS	2S	48	2.70	350	260.00	5600
UCS-CPU-I8558	2S Mainline	2S	48	2.10	330	260.00	5200
6000 Series Processors							
UCS-CPU-I6554S	Storage	2S	36	2.20	270	180.00	5200
UCS-CPU-I6548Y+	2S Performance	2S	32	2.50	250	60.00	5200
UCS-CPU-I6548N	Networking	2S	32	2.80	250	60.00	5200
UCS-CPU-I6544Y	2S Performance	2S	16	3.60	270	45.00	5200
UCS-CPU-I6542Y	2S Performance	2S	24	2.90	250	60.00	5200
UCS-CPU-I6538Y+	2S Mainline	2S	32	2.20	225	60.00	5200
UCS-CPU-I6538N	Networking	2S	32	2.10	205	60.00	5200
UCS-CPU-I6534	2S Performance	2S	8	3.90	195	22.50	4800
UCS-CPU-I6530	2S Mainline	2S	32	2.10	270	160.00	4800
UCS-CPU-I6526Y	2S Performance	2S	16	2.80	195	37.50	5200
5000 Series Processors							
UCS-CPU-I5520+	2S Mainline	2S	28	2.20	205	52.50	4800
UCS-CPU-I5515+	2S Performance	2S	8	3.20	165	22.50	4800
UCS-CPU-I5512U[1]	1-Socket Optimized	1S	28	2.10	185	52.50	4800
4000 Series Processors							
UCS-CPU-I4516Y+	2S Mainline	2S	24	2.20	185	45.00	4400

Table 5 Available 5th Gen. Intel® Xeon® Scalable CPUs

Product ID (PID)	Segment/Workload	Maximum Socket (S)	Cores (C)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Highest DDR5 DIMM Clock Support (MT/s)
UCS-CPU-I4514Y	2S Mainline	2S	16	2.00	150	30.00	4400
UCS-CPU-I4510T[2]	EDGE (IOT)	2S	12	2.00	115	30.00	4400
UCS-CPU-I4510[2]	2S Mainline	2S	12	2.40	150	30.00	4400
UCS-CPU-I4509Y[2]	2S Mainline	2S	8	2.60	125	22.50	4400
3000 Series Processors							
UCS-CPU-I3508U[1,2]	1-Socket Optimized	1S	8	2.10	125	22.50	4400
Accessories/spare included with CPU configuration: ■ UCSC-HSHP-C240M7 **NOTE:** if you are adding a second CPU later, you may need to order accessories spares with it.							

Notes:

1. You cannot have two of these CPUs in a two-CPU configuration and you cannot later upgrade to a 2-CPU system with two of these CPUs.
2. 48GB and 96GB memory DIMMs not supported on UCS-CPU-I3508U, UCS-CPU-I4509Y, UCS-CPU-I4510, UCS-CPU-I4510T

Table 6 Available 4th Gen. Intel® Xeon® Scalable CPUs

Product ID (PID)	Segment/Workload	Maximum Socket (S)	Cores (C)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Highest DDR5 DIMM Clock Support (MT/s)
8000 Series Processors							
UCS-CPU-I8490H	IMDB/Analytics	2S	60	1.90	350	112.50	4800
UCS-CPU-I8480+	2S Performance	2S	56	2.00	350	105.00	4800
UCS-CPU-I8471N[1]	5G/Networking	1S	52	1.80	300	97.50	4800
UCS-CPU-I8470N	5G/Networking	2S	52	1.70	300	97.50	4800
UCS-CPU-I8470	2S Performance	2S	52	2.00	350	105.00	4800
UCS-CPU-I8468V	Cloud/SaaS/Media	2S	48	2.40	330	97.50	4800
UCS-CPU-I8468H	IMDB/Analytics	2S	48	2.10	330	105.00	4800
UCS-CPU-I8462Y+	2S Performance	2S	32	2.80	300	60.00	4800
UCS-CPU-I8460H	IMDB/Analytics	2S	40	2.20	330	105.00	4800
UCS-CPU-I8458P	Cloud/SaaS/Media	2S	44	2.70	350	82.50	4800
UCS-CPU-I8454H	IMDB/Analytics	2S	32	2.10	270	82.50	4800
UCS-CPU-I8452Y	2S Mainline	2S	36	2.00	300	67.50	4800

Table 6 Available 4th Gen. Intel® Xeon® Scalable CPUs

Product ID (PID)	Segment/Workload	Maximum Socket (S)	Cores (C)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Highest DDR5 DIMM Clock Support (MT/s)
UCS-CPU-I8450H	IMDB/Analytics	2S	28	2.00	250	75.00	4800
UCS-CPU-I8444H	IMDB/Analytics	2S	16	2.90	270	45.00	4800
6000 Series Processors							
UCS-CPU-I6448Y	2S Performance	2S	32	2.10	225	60.00	4800
UCS-CPU-I6448H	IMDB/Analytics	2S	32	2.40	250	60.00	4800
UCS-CPU-I6444Y	2S Performance	2S	16	3.60	270	45.00	4800
UCS-CPU-I6442Y	2S Performance	2S	24	2.60	225	60.00	4800
UCS-CPU-I6438N	5G/Networking	2S	32	2.00	205	60.00	4800
UCS-CPU-I6434H	IMDB/Analytics	2S	8	3.70	195	22.50	4800
UCS-CPU-I6430	2S Mainline	2S	32	2.10	270	60.00	4400
UCS-CPU-I6428N	5G/Networking	2S	32	1.80	185	60.00	4000
UCS-CPU-I6426Y	2S Performance	2S	16	2.50	185	37.50	4800
UCS-CPU-I6421N[1]	5G/Networking	1S	32	1.80	185	60.00	4400
UCS-CPU-I6418H	IMDB/Analytics	2S	24	2.10	185	60.00	4800
UCS-CPU-I6416H	IMDB/Analytics	2S	18	2.20	165	45.00	4800
5000 Series Processors							
UCS-CPU-I5420+	2S Mainline	2S	28	2.00	205	52.50	4400
UCS-CPU-I5418Y	2S Mainline	2S	24	2.00	185	45.00	4400
UCS-CPU-I5418N	5G/Networking	2S	24	1.80	165	45.00	4000
UCS-CPU-I5416S	Storage	2S	16	2.00	150	30.00	4400
UCS-CPU-I5415+	2S Performance	2S	8	2.90	150	22.50	4400
UCS-CPU-I5412U[1]	1S gen. purpose	1S	24	2.10	185	45.00	4400
UCS-CPU-I5411N[1]	5G/Networking	1S	24	1.90	165	45.00	4400
4000 Series Processors							
UCS-CPU-I4416+	2S Mainline	2S	20	2.00	165	37.50	4000
UCS-CPU-I4410Y	2S Mainline	2S	12	2.00	150	30.00	4000
UCS-CPU-I4410T	IOT	2S	10	2.70	150	26.25	4000
3000 Series Processors							
UCS-CPU-I3408U[1]	1S gen. purpose	1S	8	1.80	125	22.50	4000

Table 6 Available 4th Gen. Intel® Xeon® Scalable CPUs

Product ID (PID)	Segment/Workload	Maximum Socket (S)	Cores (C)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Highest DDR5 DIMM Clock Support (MT/s)
Accessories/spare included with CPU configuration: ■ UCSC-HSHP-C240M7 **NOTE:** if you are adding a second CPU later, you may need to order accessories spares with it.							

Notes:

1. You cannot have two of these CPUs in a two-CPU configuration and you cannot later upgrade to a 2-CPU system with two of these CPUs.

Table 7 CPU Suffixes

CPU Suffix	Description	Features
P	Cloud (IaaS)	Designed for cloud IaaS environments to deliver higher frequencies at constrained TDPs
V	Cloud (SaaS)	Designed for high rack density, maximize VM/core, and lower power VM environment
M	Media Transcode	Designed for Media processing, AI, and HPC workloads
H	DB and Analytics	Designed for Data Analytics and Big Data usages
N	Network/5G/Edge (High TDP/Low latency)	Designed and optimized for a range of broadly-deployed network and 5G workload environments from Edge to the Data Center
S	Storage & HCI	Designed for Storage usages and workloads
T	Long-life Use/High Tcase	Designed for Network Environment-Building System (NEBS) and IoT market
U	1-Socket	Optimized for targeted platforms adequately served by the cores, memory bandwidth and IO capacity available from a single processor
Y	General SKU with SST-PP	Designator is used for general SKU stack to highlight SST-PP (Speed Select Technology Performance Profile) feature enabled
+	Feature Plus SKU	Designed to enable 1 instance of each DSA, IAA, QAT, DLB embedded accelerator

Supported Configurations

(1) Configurations with UCSC-C240-M7SN:

- You must select two identical CPUs from ***Table 5*** or ***Table 6***.

(2) Configurations with UCSC-C240-M7SX:

- 1-CPU Configuration:
  - Choose one CPU from ***Table 5*** or ***Table 6***
  - Up to 2 front facing direct-attach NVMe drives are allowed
  - Up to 2 rear facing direct-attach NVMe drives are allowed
- 2-CPU Configuration:
  - Choose two identical CPUs from ***Table 5*** or ***Table 6***.
  - Up to 4 front facing direct-attach NVMe drives are allowed
  - Up to 4 rear facing direct-attach NVMe drives are allowed
  - 24G Tri-Mode RAID Controller requires 2-CPU configuration

The selection of 1 or 2 CPUs depends on the desired server functionality. See the following sections:

- ***STEP 4 SELECT MEMORY (REQUIRED), page 25***
- ***STEP 5 SELECT DRIVE CONTROLLERS (OPTIONAL), page 29***
- ***STEP 6 SELECT DRIVES (OPTIONAL), page 34***
- ***STEP 7 SELECT PCIe CARD(s) (OPTIONAL), page 38***

STEP 4 SELECT MEMORY (REQUIRED)

The ***Table 8*** below describes the main memory DIMM features supported on Cisco UCS C240 M7 rack server.



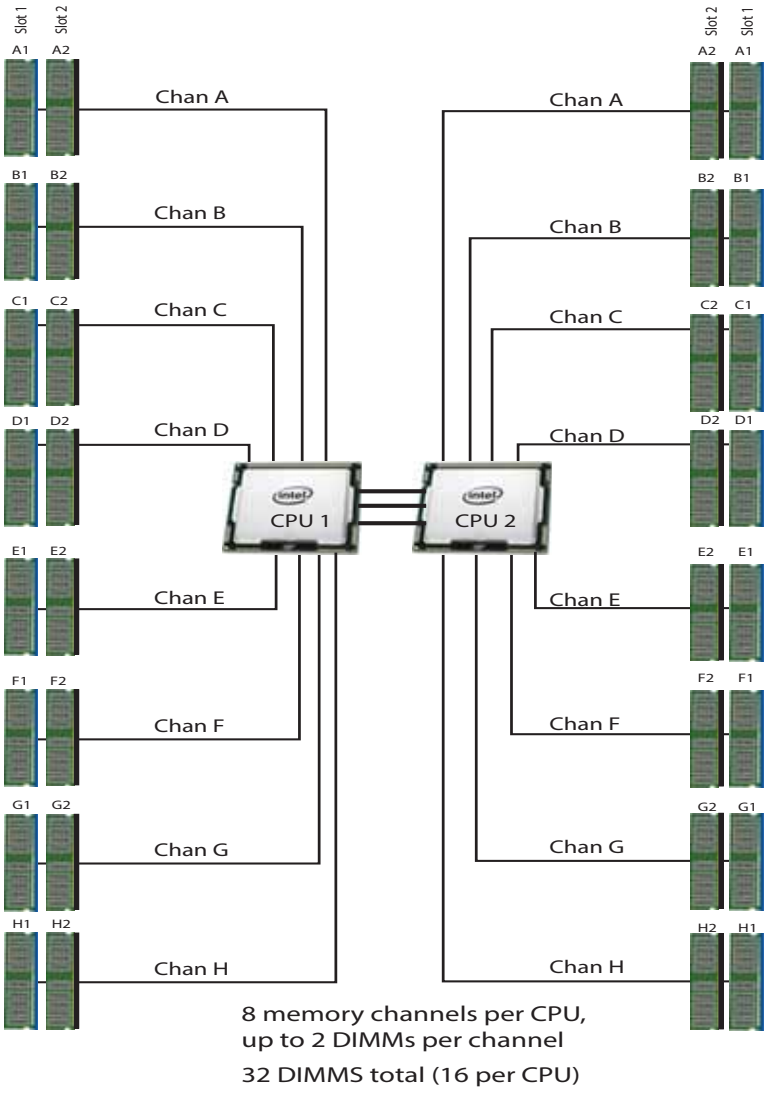
CAUTION:

- When 256GB DIMMs are installed, normal operating temperature is limited to 28°C [82.4°F], and lowered to 19°C [66.2°F] with a fan fault
- 256GB DIMMs cannot be combined with GPU card

Table 8 C240 M7 Main Memory Features

Memory DIMM server technologies	Description
DDR5 memory clock speed	4th Gen. CPU: Up to 4800MT/s 1DPC; Up to 4400MT/s 2DPC
	5th Gen. CPU: Up to 5600MT/s 1DPC; Up to 4400MT/s 2DPC
Operational voltage	1.1 Volts
DRAM fab density	16Gb, 24Gb and 32Gb
DRAM DIMM type	RDIMM (Registered DDR5 DIMM with on die ECC)
Memory DIMM organization	Eight memory DIMM channels per CPU; up to 2 DIMMs per channel
Maximum number of DRAM DIMM per server	32 (2-Socket)
DRAM DIMM Densities and Ranks	Refer to ***Table 9*** and ***Table 10***.
Maximum system capacity (DRAM DIMMs only)	8TB (32x256GB)

Figure 6 C240 M7 SFF Memory Organization



Select DIMMs and Memory Mirroring

Select the memory configuration and whether or not you want the memory mirroring option. The available memory DIMMs and mirroring option are listed in ***Table 9***.



NOTE: When memory mirroring is enabled, the memory subsystem simultaneously writes identical data to two channels. If a memory read from one of the channels returns incorrect data due to an uncorrectable memory error, the system automatically retrieves the data from the other channel. A transient or soft error in one channel does not affect the mirrored data, and operation continues unless there is a simultaneous error in exactly the same location on a DIMM and its mirrored DIMM. Memory mirroring reduces the amount of memory available to the operating system by 50% because only one of the two populated channels provides data.

Table 9 Memory Options for UCS M7 servers with Intel® Xeon® 4th Gen. CPUs

Product ID (PID)	PID Description	Ranks/DIMM
DDR5-5600MT/s PID list[1]		
UCS-MR64G2RE3	64GB DDR5-5600 RDIMM 2Rx4 (32Gb)	2
Memory Mirroring Option		
N01-MMIRRORD	Memory mirroring option	
Accessories/spare included with Memory configuration: ■ UCS-DDR5-BLK[2] is auto included for the unselected DIMMs slots		

Notes:

1. Memory will operate at the maximum speed of the Intel 4th Gen. CPU memory controller, ranging from 4000 MT/s to 4800 MT/s.
2. Any empty DIMM slot must be populated with a DIMM blank to maintain proper cooling airflow.

Table 10 Memory Options for UCS M7 servers with Intel® Xeon® 5th Gen. CPUs[1]

Product ID (PID)	PID Description	Ranks/DIMM
DDR5-5600MT/s PID list		
UCS-MRX48G1RF3[2]	48GB DDR5-5600 RDIMM 1Rx4 (24Gb)	1
UCS-MRX64G2RE3	64GB DDR5-5600 RDIMM 2Rx4 (16Gb)	2
UCS-MRX96G2RF3[2]	96GB DDR5-5600 RDIMM 2Rx4 (24Gb)	2
DDR5-6400MT/s PID list		
UCS-MRX16G1RE5	16GB DDR5-6400 RDIMM 1Rx8 (16Gb)	1
UCS-MRX32G1RE5	32GB DDR5-6400 RDIMM 1Rx4 (16Gb)	1
UCS-MRX64G2RE5[3]	64GB DDR5-6400 RDIMM 2Rx4 (16Gb)	2
UCS-MRX96G2RF5[3]	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	2
UCS-MR128G2RG5	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)	2
UCS-MR256G4RG5[4]	256GB DDR5-6400 RDIMM 4Rx4 (32Gb)	4
Memory Mirroring Option		
N01-MMIRRORD	Memory mirroring option	
Accessories/spare included with Memory configuration: ■ UCS-DDR5-BLK[5] is auto included for the unselected DIMMs slots		

Notes:

1. Memory will operate at the maximum speed of the Intel 5th Gen. CPU memory controller, ranging from 4400 MT/s to 5600 MT/s.
2. 48GB and 96GB cannot be paired with Intel 5th Gen. CPUs 3508U, 4509Y, 4510, and 4510T SKUs.
3. 64GB and 96GB DDR5-6400 orderable in Q4CY26
4. Available in Q3'CY26
5. Any empty DIMM slot must be populated with a DIMM blank to maintain proper cooling airflow.

Memory configurations and mixing rules

- **Golden Rule:** Memory on every CPU socket shall be configured identically.
- System speed is dependent on the CPU DIMM speed support. Refer to ***Available 4th Gen. Intel® Xeon® Scalable CPUs, page 21*** and ***Available 5th Gen. Intel® Xeon® Scalable CPUs, page 20*** for DIMM speeds.
- For full details on supported memory configurations see the **M7 Memory Guide.**



NOTE: For full details on supported memory configurations see the **M7 Memory Guide.**

STEP 5 SELECT DRIVE CONTROLLERS (OPTIONAL)

The following list summarizes how drives are controlled on the server:

- Up to 28 SAS/SATA drives are controlled through a Cisco 12G SAS RAID controller.
- Up to 14 SAS/SATA/NVMe drives are controlled through a Cisco 24G Tri-mode RAID controller
- Up to 28 SAS/SATA/NVMe drives (24 front + 4 rear) are controlled through a Cisco 24G Tri-Mode M1 RAID Controller
- Up to 14 SAS/SATA/NVMe drives are controlled through a Cisco 24G Tri-Mode M1 HBA
- Up to 14 SAS/SATA drives are controlled through a Cisco 12G SAS pass-through HBA.

RAID Volumes and Groups

When creating each RAID volume, follow these guidelines:

- Use the same capacity for each drive in each RAID volume
- For the Cisco 12G SAS RAID controller, use either all SAS HDDs, or all SAS SSDs, or all SATA SSDs in each RAID volume
- For the Cisco 24G Tri-mode RAID controller, use either all SAS HDDs, or all SAS SSDs, or all SATA SSDs or NVMe SSDs in each RAID volume.



NOTE: :

- **UCSC-RAID-SD-D:** 240 virtual drives (VDs) per controller, with up to 64 Virtual drives (VDs) per disk group
- **UCSC-RAID-HP:** 64 Virtual drives (VDs) per controller, with up to 16 Virtual drives (VDs) per disk group
- **UCSC-RAID-MP1L32:** 64 Virtual drives (VDs) per controller, with up to 64 VD per disk group. OOB limited to 8 VD per disk group.

RAID Controller Options

Select one of the Controllers options for internal drives from the following ***Table 11***.

- One Cisco 24G Tri-mode MP1 (32-port) RAID controller (UCSC-RAID-MP1L32), supports up to 28 SAS/SATA/U.3 NVMe drives
- Two Cisco 24G Tri-mode (16-port) RAID controllers (UCSC-RAID-HP), each supports up to 14 SAS/SATA/U.3 NVMe drives
- One Cisco 12G Tri-mode (32-port) RAID controller (UCSC-RAID-SD-D), supports up to 28 SAS/SATA drives
- Two Cisco 24G Tri-mode M1 (16-port) HBA controllers (UCSC-HBA-M1L16), each supports up to 14 SAS/SATA/U.3 NVMe drives
- Two Cisco 12G Tri-mode (16-port) HBA controllers (UCSC-SAS-T-D), each supports up to 14 SAS/SATA drives

NOTE:

- If the Raid controllers are selected, it is factory-installed in a dedicated slot.
- For NVMe Hardware RAID, only U.3 NVMes are supported
- All RAID controllers are only supported on UCSC-C240M7SX. For UCSC-C240-M7SN, drives are controlled directly from the CPU.

Table 11 Hardware Controller Options

Product ID (PID)	PID Description
Controllers for Internal Drives	
UCSC-RAID-MP1L32[1,2,3]	24G Tri-Mode MP1 RAID Controller w/4GB FBWC 32Drv w/2U Brkt ■ This RAID controller supports up to 28, 2.5in (SFF) SAS/SATA HDD, SAS/SATA SSD, and U.3 NVMe operating at 3Gbps, 6Gbps, 12Gbps and 24Gbps. It includes a SuperCap and a 4GB flash-back write cache (FBWC) ■ Supports RAID0, 1, 5, 6, 10, 50, 60, and JBOD mode and supports mixed RAID and JBOD mode. ■ The RAID controller plugs directly into a dedicated slot. ■ For all self-encrypting drives (SED), standalone Management (CIMC/UCSM) is supported for configuring and managing local keys. For now, SED drives are managed with local key management only. Third-party key management will be supported (KMIP compliant).

Table 11 Hardware Controller Options *(continued)*

Product ID (PID)	PID Description
UCSC-RAID-HP[2,3]	Cisco Tri-Mode 24G SAS RAID Controller w/4GB Cache ■ This RAID controller supports up to 14 SAS HDDs and SAS/SATA/NVMe SSDs operating at 3Gbps, 6Gbps, 12Gbps and 24Gbps. It includes a SuperCap and a 4GB flash-back write cache (FBWC) ■ Supports RAID0, 1, 5, 6, 10, 50, 60, and JBOD mode and supports mixed RAID and JBOD mode. ■ The RAID controller plugs directly into a dedicated slot. ■ For all self-encrypting drives (SED), standalone Management (CIMC/UCSM) is supported for configuring and managing local keys. For now, SED drives are managed with local key management only. Third-party key management will be supported (KMIP compliant). ■ Requires 2-CPU configuration.
UCSC-RAID-SD-D	Cisco 12G SAS RAID Controller with 4GB FBWC (28 Drives) ■ This RAID controller supports up to 28 SAS HDDs and SAS/SATA SSD operating at 3Gbps, 6Gbps, and 12Gbps. It includes a SuperCap and a 4GB flash-back write cache (FBWC) ■ Supports RAID0, 1, 5, 6, 10, 50, 60, and JBOD mode and supports mixed RAID and JBOD mode. ■ The RAID controller plugs directly into a dedicated slot. ■ For all self-encrypting drives (SED), standalone Management (CIMC/UCSM) is supported for configuring and managing local keys. For now, SED drives are managed with local key management only. Third-party key management will be supported (KMIP compliant).
UCSC-HBA-M1L16[1]	24G Tri-Mode M1 HBA for 16 Drives (SAS/SATA/U.3 NVMe) ■ This Tri-mode HBA supports up to 14 SAS HDDs and SAS/SATA/U.3 NVMe operating at 3Gbps, 6Gbps, and 12Gbps and 24Gbps. ■ No RAID support ■ Supports JBOD or pass-through mode ■ The 24G Tri-mode HBA plugs directly into a dedicated slot.
UCSC-SAS-T-D	Cisco M6 12G SAS HBA for (16 Drives) ■ This SAS HBA supports up to 14 SAS HDDs and SAS/SATA SSDs operating at 3Gbps, 6Gbps, and 12Gbps. ■ No RAID support ■ Supports JBOD or pass-through mode ■ The 12G SAS HBA plugs directly into a dedicated slot.
Controllers for External Drives	
UCSC-9500-8E-D	9500 Series PCIe Gen 4.0 Tri-Mode Storage HBA 12Gb/s SAS/SATA/PCIe (NVMe) ■ External Storage HBA plugs in to PCIe slot ■ This controller is half-height half-length and can be installed in riser 1, 2, or 3.

Table 11 Hardware Controller Options *(continued)*

Product ID (PID)	PID Description
Accessories/spare included with drive controller (**For UCSC-C240-M7SX**): ■ CBL-SAS12-C240M7, CBL-SAS24-C240M7 and UCSC-RDBKT-24XM7 are included with the selection of **UCSC-SAS-T-D** drive controller. ■ CBL-SDSAS-C240M7, CBL-SCAPSD-C240-D, CBL-SCAP-C240-D and UCSC-SDBKT-24XM7 are included with the selection of **UCSC-RAID-SD-D** drive controller ■ CBL-SAS-Y-C240M7, CBL-SCAPSD-C240-D, CBL-SCAP-C240-D and UCSC-HPBKT-24XM7 are included with the selection of **UCSC-RAID-HP** drive controller. ■ CBL-SAS-Y-C240M7 and UCSC-SDBKT-24XM7 are included with the selection of **UCSC-RAID-MP1L32** drive controller. ■ CBL-SAS-Y-C240M7 for 2 CPU, CBL-SAS12-C240M7 and CBL-SAS24-C240M7 for 1 CPU and UCSC-HPBKT-24XM7 are included with the selection of **UCSC-HBA-M1L16** drive controller. **NOTE:** If you are adding drive controller later as spare, you may need to order cables/supercap/super cables and controllers bracket with it.	

Notes:

1. Only Supported with 5th Gen CPUs
2. When ordering this Tri-mode RAID controller, please note that mixing SAS/SATA and NVMe drives in a single RAID volume is not supported. Virtual drives can only be created with drives of the same type.
3. U.3 NVMe drives selected with this Tri-mode RAID controller will be set to RAID attached as the factory default. The U.3 drives in slots 1-4 can however operate in U.2 mode, directly attached to the CPU. This mode can be changed from the Cisco IMC if desired.

RAID Configuration Option

Select one of the RAID Configuration option from the following ***Table 12***.



CAUTION: All RAID options require drives of same sector size and media type. The smallest drive capacity will be used to calculate the RAID volume size.

Table 12 RAID Configuration Options

Product ID (PID)	PID Description
NOTE: Not available for HBA Controllers	
R2XX-SRAID0D	Enable single disk RAID 0 Setting.
R2XX-RAID0D	Factory preconfigured RAID striping option Enable RAID 0 Setting. Requires two or more drive.
R2XX-RAID1D	Factory preconfigured RAID mirroring option Enable RAID 1 Setting. Requires even number of drives (minimum of two).
R2XX-RAID5D	Factory preconfigured RAID option Enable RAID 5 Setting. Requires a minimum of three drives
R2XX-RAID6D	Factory preconfigured RAID option Enable RAID 6 Setting. Requires a minimum of four drives.
R2XX-RAID10D	Factory preconfigured RAID option Enable RAID 10 Setting. Requires even number of drives (minimum of 2 drives per span)
R2XX-RAID50D	Factory preconfigured RAID option Enable RAID 50 Setting. Requires minimum of three drives per span
R2XX-RAID60D	Factory preconfigured RAID option Enable RAID 60 Setting. Requires minimum of four drives per span.

Approved Configurations

Cisco UCS C240 M7 SFF server can be ordered as follows:

- UCSC-C240 M7SX (24-drive SAS/SATA/NVMe backplane and optionally 4 of those can be direct-attach NVMe)
- UCSC-C240-M7SN (24-drive direct-attach NVMe only)
- There is no RAID support for direct-attach NVMe drives.

STEP 6 SELECT DRIVES (OPTIONAL)

The standard disk drive features are:

- 2.5-inch small form factor (SFF)
- Hot-pluggable
- Drives come mounted in sleds

Select Drives

- The available NVMe SSDs drives for **UCSC-C240-M7SN** and **UCSC-C240-M7SX** are listed in ***Table 13***
- The available SAS/SATA SSDs and HDDs drives for **UCSC-C240-M7SX** listed ***Table 14***



CAUTION: Cisco uses solid state drives (SSDs) from a number of vendors. All solid state drives (SSDs) are subject to physical write limits and have varying maximum usage limitation specifications set by the manufacturer. Cisco will not replace any solid state drives (SSDs) that have exceeded any maximum usage specifications set by Cisco or the manufacturer, as determined solely by Cisco.

Table 13 Available NVMe drives for UCSC-C240-M7SN and UCSC-C240-M7SX (for front and rear)

Product ID (PID)	PID Description	Drive Type	Form Factor	Capacity
PCIe/NVMe SFF (2.5-inch) SFF drives				
UCS-NVB1T6O1P	1.6TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe	NVMe	U.2	1.6 TB
UCS-NVB3T8O1V	3.8TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe	NVMe	U.2	3.8 TB
UCS-NVB7T6O1V	7.6TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe	NVMe	U.2	7.6 TB
UCS-NVB15TO1V	15.3TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe	NVMe	U.2	15.3 TB
UCS-NVB3T2O1P	3.2TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe	NVMe	U.2	3.2 TB
UCS-NVB6T4O1P	6.4TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe	NVMe	U.2	6.4 TB
UCS-NVB1T9O1V	1.9TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe	NVMe	U.2	1.9 TB
UCS-NVB15T3O1L	15.3TB 2.5in U.2 15mm SolidigmP5316 HgPerf LowEnd <0.5X NVMe	NVMe	U.2	15.3 TB
UCS-NVB12T8O1P	12.8TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe	NVMe	U.2	12.8 TB
UCS-NVMEG4-M1536D[1]	15.3TB 2.5in U.3 MicronP7450 NVMe High Perf Medium Endurance	NVMe	U.3	15.3 TB
UCS-NVMEG4-M6400D[1]	6.4TB 2.5in U.3 Micron P7450 NVMe High Perf High Endurance	NVMe	U.3	6.4 TB

Table 13 Available NVMe drives *(continued)*for UCSC-C240-M7SN and UCSC-C240-M7SX (for front and

Product ID (PID)	PID Description	Drive Type	Form Factor	Capacity
UCS-NVB3T8M2V9[1]	3.8TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	NVMe	U.3	3.8 TB
UCS-NVB7T6M2V9[2]	7.6TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	NVMe	U.3	7.6 TB
UCS-NVB15T3M2V9[2]	15.3TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	NVMe	U.3	15.3 TB
UCS-NVB960M2V	960GB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	NVMe	U.3	960 GB
UCS-NVB1T9M2V	1.9TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	NVMe	U.3	1.9 TB
UCS-NVB3T2M2P	3.2TB 2.5in U.3 15mm Micron 7500 Hg Perf Hg End 3X NVMe	NVMe	U.3	3.2 TB
UCS-NVB3T8M2V	3.8TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	NVMe	U.3	3.8 TB
UCS-NVB7T6M2V	7.6TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	NVMe	U.3	7.6 TB
UCS-NVB1T6M2P	1.6TB 2.5in U.3 15mm Micron 7500 Hg Perf Hg End 3X NVMe	NVMe	U.3	1.6 TB

Notes:

1. Micron 7500 SED-FIPS cannot be used for boot in direct attach mode. They can be used for boot via RAID controller. Micron 7500 SED-FIPS are supported with 5th Gen Intel® Xeon® processors configurations only.

Table 14 Available SAS/SATA SSD and HDDs for UCSC-C240-M7SX (for front and rear)

Product ID (PID)	PID Description	Drive Type	Capacity
HDDs			
HDDs (10K RPM)			
UCS-HD600G10KJ4-D	600 GB 12G SAS 10K RPM SFF HDD	SAS	600 GB
UCS-HD12TB10KJ4-D	1.2 TB 12G SAS 10K RPM SFF HDD	SAS	1.2 TB
UCS-HD18TB10KJ4-D	1.8 TB 12G SAS 10K RPM SFF HDD (4K)	SAS	1.8 TB
UCS-HD24TB10KJ4-D	2.4 TB 12G SAS 10K RPM SFF HDD (4K)	SAS	2.4 TB
UCS-HD300G10KJ4-D	300GB 12G SAS 10K RPM SFF HDD	SAS	300 GB
Enterprise Performance SAS/SATA SSDs (High endurance, supports up to 10X or 3X DWPD (drive writes per day))			
SATA			
UCS-SD19T63X-EP-D	1.9 TB 2.5in Enterprise performance 6G SATA SSD(3X endurance)	SATA	1.9 TB
UCS-SD480GBM3XEPD	480GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)	SATA	480 GB
UCS-SD960GBM3XEPD	960GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)	SATA	960 GB
UCS-SD19TBM3XEP-D	1.9TB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)	SATA	1.9 TB
UCS-SDB960OA1P	960GB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	960 GB
UCS-SDB3T8OA1V	3.8TB 2.5in 15mm Solidigm S4520 Enter Value 6G SATA 1X SSD	SATA	3.8 TB
UCS-SDB3T8OA1P	3.8TB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	3.8 TB

Table 14 Available SAS/SATA SSD and HDDs *(continued)*for UCSC-C240-M7SX (for front and rear)

Product ID (PID)	PID Description	Drive Type	Capacity
UCS-SDB480OA1P	480GB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	480 GB
UCS-SDB1T9OA1P	1.9TB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	1.9 TB
SAS			
UCS-SD16TKA3XEP-D	1.6TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X)	SAS	1.6 TB
UCS-SD32TKA3XEP-D	3.2TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X)	SAS	3.2 TB
Enterprise Value SAS/SATA SSDs (Low endurance, supports up to 1X DWPD (drive writes per day))			
SATA			
UCS-SD240GBM1XEVD	240GB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	240 GB
UCS-SD480GBM1XEVD	480 GB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	480 GB
UCS-SD960GBM1XEVD	960GB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	960 GB
UCS-SD16TBM1XEV-D	1.6TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	1.6 TB
UCS-SD19TBM1XEV-D	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	1.9 TB
UCS-SD38TBM1XEV-D	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	3.8 TB
UCS-SD76TBM1XEV-D	7.6TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	7.6 TB
UCS-SDB960SA1VD	960GB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	960 GB
UCS-SDB1T9SA1VD	1.9TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	1.9 TB
UCS-SDB3T8SA1VD	3.8TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	3.8 TB
UCS-SDB7T6SA1VD	7.6TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	7.6 TB
UCS-SDB480OA1V	480GB 2.5in 15mm Solidigm S4520 Enter Value 6G SATA 1X SSD	SATA	480 GB
SAS			
UCS-SD19TKA1XEV-D	1.9TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1X)	SAS	1.9 TB
UCS-SD38TKA1XEV-D	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1X)	SAS	3.8 TB
UCS-SD76TKA1XEV-D	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1X)	SAS	7.6 TB
UCS-SD15TKA1XEV-D	15.3TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1X)	SAS	15.3 TB
UCS-SD38TS1X-EV-D	3.8TB 2.5in Enter Value 12G SAS Seagate SSD	SAS	3.8 TB
Self-Encrypted Drives (SED) (1X or 3X)			
SAS			
UCS-SD960GBKNK9-D	960GB Enterprise Value SAS SSD (1X DWPD, SED) **FIPS140-2**	SAS	960 GB
UCS-SD76TBKNK9-D	7.6TB Enterprise value SAS SSD (1X DWPD, SED-FIPS) **FIPS140-2**	SAS	7.6 TB
UCS-SD16TBKANK9-D	1.6TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X SED-FIPS) **FIPS140-2**	SAS	1.6 TB
UCS-SD38TBKANK9-D	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS) **FIPS140-2**	SAS	3.8 TB
UCS-SD76TBKANK9-D	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS) **FIPS140-2**	SAS	7.6 TB
UCS-SD960GM2NK9-D	960GB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)	SAS	960 GB
UCS-SD19TEM2NK9-D	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)	SAS	1.9 TB
UCS-SD38TEM2NK9-D	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)	SAS	3.8 TB
UCS-SD76TEM2NK9-D	7.6TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)	SAS	7.6 TB

Table 14 Available SAS/SATA SSD and HDDs *(continued)*for UCSC-C240-M7SX (for front and rear)

Product ID (PID)	PID Description	Drive Type	Capacity
NOTE: If you decide to add front-facing NVMe drives later, you may need to order the drives as spare and also NVMe cables. Spare NVMe cables support depends on the drive controller installing/installed in the system.			

Table 15 Accessories/spare included with drives (For UCSC-C240-M7SX):

		Cables included	
RAID Controllers installed		**For Qty 1-2 Front Direct Attach NVMe drives**	**For Qty 3-4 Front Direct Attach NVMe drives**
UCSC-RAID-MP1L32, UCSC-RAID-SD-D, or UCSC-RAID-HP		CBL-NVME-C240M7	CBL-NVME-C240M7 and CBL-FNVME-C240M7
UCSC-SAS-T-D, or No Controller		CBL-SAS24-C240M7	CBL-SAS24-C240M7 and CBL-FNVME-C240M7
UCSC-HBA-M1L16	with 1 CPU	CBL-SAS24-C240M7	N/A
	with 2 CPU	CBL-NVME-C240M7	CBL-NVME-C240M7 and CBL-FNVME-C240M7
UCSC-BBLKD-M7 is included for the unselected front and rear storage device.			

Caveats

- Unless a tri-mode controller is installed:
  - Front SFF NVMe drives 1-2 are connected directly to CPU1
  - Front SFF NVMe drives 3-4 are connected directly to CPU2
  - Rear NVMe drives in riser 1B are connected directly to CPU1
  - Rear NVMe drives in riser 3B are connected directly to and require CPU 2
- If you order 3 or 4 direct-attach NVMe drives, you must also order two CPUs
- SFF NVMe drives are bootable in UEFI mode only.
- You can mix SAS HDDs and SAS/SATA SSDs as long as you don't mix them in the same RAID Volume. Virtual drives can only be created with drives of the same type.
- SED drives can be mixed with the non-SED drives in ***Table 14 on page 35***

STEP 7 SELECT PCIe CARD(s) (OPTIONAL)

For up-to-date server compatibility, please check the Hardware and Software compatibility list (HCL) at https://ucshcltool.cloudapps.cisco.com/public/.

The standard PCIe card offerings are:

- Modular LAN on Motherboard (mLOM)
- Open Compute Project (OCP)
- Virtual Interface Cards (VICs)
- Network Interface Cards (NICs)
- Host Bus Adapters (HBAs)

Select Option Cards

The available option cards are listed in ***Table 16***.

Table 16 Available PCIe Option Cards

Product ID (PID)	PID Description	Location	Card Size[1]
Modular LAN on Motherboard (mLOM)			
UCSC-M-V5Q50GV2-D	Cisco VIC 15427 4x 10/25/50G mLOM C-Series w/Secure Boot[5]	mLOM	HHHL, SS
UCSC-M-V5D200GV2D	Cisco VIC 15237 2x 40/100/200G mLOM C-Series w/Secure Boot[5]	mLOM	HHHL, SS
Open Compute Project (OCP)[2]			
UCSC-O-ID10GC-D	Intel X710T2LOCPV3G1L 2x10GbE RJ45 OCP 3.0 NIC	OCP	SFF
UCSC-O-N6CD100GFD	Cisco-NVDA MCX623436AC-CDAB CX6Dx 2x100G QSFP56 x16 OCP NIC	OCP	SFF
UCSC-O-N6CD25GFD	Cisco-NVDA MCX631432AC-ADAB CX6Lx 2x25G SFP28 x8 OCP NIC	OCP	SFF
UCSC-O-N6CD25GFO	NVIDIA OEM MCX631432AC-ADAB CX6Lx 2x25G SFP28 x8 OCP NIC	OCP	SFF
UCSC-O-N6CD100GFO	NVIDIA OEM MCX623436AC-CDAB CX6Dx 2x100G QSFP56 x16 OCP NIC	OCP	SFF
Virtual Interface Cards (VICs)			
UCSC-P-V5Q50G-D	Cisco VIC 15425 4x 10/25/50G PCIe C-Series w/Secure Boot[5]	Riser 1 or 2	HHHL, SS
UCSC-P-V5D200G-D	Cisco VIC 15235 2x 40/100/200G PCIe C-Series w/Secure Boot[5]	Riser 1 or 2	HHHL, SS
Network Interface Cards (NICs)			
1GbE NICs			
UCSC-P-IQ1GC	Cisco-Intel I710-T4L 4x1GBASE-T NIC	Riser 1, 2, or 3	HHHL, SS
10GbE NICs			
UCSC-PCIEID10GF-D	Intel X710-DA2 Dual Port 10Gb SFP+ NIC	Riser 1, 2, or 3	HHHL, SS
UCSC-PCIEIQ10GF-D	Intel X710 quad-port 10G SFP+ NIC	Riser 1, 2, or 3	HHHL, SS

Table 16 Available PCIe Option Cards *(continued)*

Product ID (PID)	PID Description	Location	Card Size[1]
UCSC-P-ID10GC-D	Cisco-Intel X710T2LG 2x10GBE RJ45 PCIe NIC	Riser 1, 2, or 3	HHHL, SS
UCSC-P-IQ10GC-D	Cisco-Intel X710T4LG 4x10GBE RJ45 PCIe NIC	Riser 1, 2, or 3	HHHL, SS
25GbE NICs			
UCSC-P-N6D25GFO	NVIDIA OEM MCX631102AS-ADAT CX6Lx 2x25GbE SFP28 x8 PCIe NIC	Riser 1, 2, or 3	HHHL, SS
UCSC-P-I8D25GF-D[3]	Cisco-Intel E810XXVDA2 2x25/10GBE SFP28 PCIe NIC	Riser 1, 2, or 3	HHHL, SS
UCSC-P-I8Q25GF-D[3]	Cisco-Intel E810XXVDA4L 4x25/10GBE SFP28 PCIe NIC	Riser 1, 2, or 3	FHHL, SS
UCSC-P-N7Q25GF	MCX713104AS-ADAT: CX-7 4x25GbE SFP56 PCIe Gen4x16, VPI NIC	Riser 1, 2, or 3	HHHL, SS
UCSC-P-N7Q25GFO	NVIDIA OEM CX713104AS-ADAT: 4x25GbE SFP56 Gen4x16, PCIe NIC	Riser 1, 2, or 3	HHHL, SS
100GbE NICs			
UCSC-P-MCD100GF-D[3,4]	Cisco-MLNX MCX623106AC-CDAT 2x100GbE QSFP56 PCIe NIC (with Crypto)	Riser 1, 2, or 3	HHHL, SS
UCSC-P-I8D100GF-D[3,4]	Cisco-Intel E810CQDA2 2x100 GbE QSFP28 PCIe NIC	Riser 1, 2, or 3	HHHL, SS
UCSC-P-M6CD100GFO	NVIDIA OEM MCX623106AC-CDAT, 2x100 GbE QSFP56 PCIe Crypto	Riser 1, 2, or 3	HHHL, SS
UCSC-P-M6DD100GFO	NVIDIA OEM MCX623106AS-CDAT, 2x100 GbE QSFP56 PCIe No Crypto	Riser 1, 2, or 3	HHHL, SS
200GbE NICs			
UCSC-P-N7D200GFO	NVIDIA OEM MCX755106AS-HEAT 2x200GbE QSFP112 PCIe Gen5 NIC	Riser 1, 2, or 3	HHHL, SS
UCSC-P-N3220L	Nvidia OEM BlueField-3 B3220L SuperNIC 2x200G	Riser 1, 2, or 3	FHHL, SS
UCSC-P-N3220	Nvidia OEM BlueField-3 B3	Riser 1 or 2 (Gen5 Riser only)	FHHL, SS
Host Bus Adapters (HBAs)			
UCSC-P-Q6D32GF-D	Cisco-QLogic QLE2772 2x32GFC Gen 6 Enhanced PCIe HBA	Riser 1, 2, or 3	HHHL, SS
UCSC-P-B7D32GF-D	Cisco-Emulex LPe35002-M2-2x32GFC Gen 7 PCIe HBA	Riser 1, 2, or 3	HHHL, SS
UCSC-PCIEQD16GF-D	Qlogic QLE2692 dual-port 16G FC HBA	Riser 1, 2, or 3	HHHL, SS
UCSC-PCIEBD16GF-D	Emulex LPe31002 dual port 16G FC HBA	Riser 1, 2, or 3	HHHL, SS
UCSC-P-Q7D64GF	Cisco-QLogic QLE2872, 2x64GFC Gen 7 PCIe HBA	Riser 1, 2, or 3	HHHL, SS
External Storage HBA			
UCSC-9500-8E-D	Cisco 12G 9500-8e 12G SAS HBA for external JBOD attach	Riser 1, 2, or 3	HHHL, SS
Accessories/spare included with PCI Card: ■ UCSC-OCP3-KIT-D is included along with the selection Open Compute Project (OCP) card.[5]			

Notes:

1. HHHL = half-height, half-length; FHHL = full-height, half-length; SS = single-slot; DS = double-slot. SFF = small form factor.
2. For installation in the mLOM slot, you can order either an mLOM VIC, or the OCP NIC - but not both. If ordering the OCP NIC, the OCP Mechanical Kit (UCSC-OCP3-KIT-D) must also be installed in order to mount OCP NIC in the mLOM slot.

3. When present, the recommended Fan Speed Control policy setting is balanced.
4. NICs with 16 active electrical lanes, such as the 100G NICs, can be inserted in slots with 8 active electrical lanes.The NIC will function but may exhibit degraded performance.
5. This Virtual Interface Cards incorporate VIC Secure Boot technology.

Caveats

- For 1-CPU systems:
  - All the PCIe slots on riser 1A and 1C are supported for the PCIe Cards.
  - Riser 2 and 3 are not supported in 1-CPU system.
  - Only a single plug-in PCIe VIC card may be installed on a 1-CPU system, and it must be installed in slots 1 or 2 of riser 1A or slot 1 of riser 1C.
  - You can order an mLOM VIC card to be installed in the mLOM/OCP 3.0 slot internal to the chassis and thus have two VIC cards in operation at the same time. If you order a double-width GPU, it must be installed in slot 2; then a PCIe VIC can be installed in slot 1. See the ***Table 16 on page 38*** for the selection of plug-in and mLOM/OCP 3.0 VIC cards.
- For 2-CPU systems:
  - All the PCIe slots on riser 1, 2, and 3 are supported for the PCIe Cards.
  - You can order an mLOM VIC card to be installed in the mLOM slot internal to the chassis.You can also have up to two PCIe VICs.
    - If Riser 1A an 2A are selected, two PCIe VIC can be installed in slot 2 of Riser 1A and slot 5 of Riser 2A. If GPUs are installed in slot 2 of riser 1A or slot 5 of riser 2A, the NCSI capability automatically switches over to slot 1 of riser 1A or slot 4 of Riser 2A. Therefore, Cisco PCIe VICs can be installed in slot 1 of Riser 1A and slot 4 of Riser 2A if GPUs are installed in slots 2 of Riser 1A and slot 5 of Riser 2A.
    - If Riser 1C and 2C are selected, two PCIe VIC and be installed in slot 1 of Riser 1C and slot 4 of Riser 2C.

  See ***Table 17 on page 42*** for the selection of plug-in and mLOM VIC cards. See also ***C240 M7 Server With Top Cover Off, page 62*** and below table for the PCIe slot physical descriptions.

  - The server supports up to two PCIe Cisco VICs plus an MLOM VIC. However, single wire management is supported on only one VIC at a time. If multiple VICs are installed on a server, only one slot has NCSI enabled at a time and for single wire management, priority goes to the MLOM slot, then slot 2 of riser 1A/slot 1 of riser 1C, then slot 5 of riser 2A/slot 4 of riser 2C for NCSI management traffic. When multiple cards are installed, connect the single wire management cables in the priority order mentioned above.
  - For installation in the mLOM slot, you can order either an mLOM VIC, or the OCP NIC - but not both. If ordering the OCP NIC, the OCP Mechanical Kit (UCSC-OCP3-KIT) must also be installed in order to mount OCP NIC in the mLOM slot.

NOTE:

- UCSM managed servers are discoverable only if a PCIe VIC is installed or a VIC is installed in the MLOM slot.
- Select Cisco UCS Virtual Interface Cards incorporate VIC Secure Boot technology to ensure the integrity of the VIC hardware and firmware upon server boot. VIC Secure Boot is independent of server-level secure boot from Cisco, but both technologies contribute to the Cisco trust model ensuring customers' equipment is genuine and running validated firmware.
- To help ensure that your operating system is compatible with the card you have selected, or to see additional cards that have been qualified to work with the UCS C240 M7 server, but are not sold on the Cisco price list, check the **Hardware Compatibility List** link.

ORDER OPTIONAL PCIe OPTION CARD ACCESSORIES

- At the time of first launch, the 3rd Party Ethernet adapters were tested for interoperability with an initial selection of Optical Modules and Cables. Please check the Product Briefs for this initial list of interoperable optics and cables at https://www.cisco.com/c/en/us/products/servers-unified-computing/third-party-adapters-listing.html.
- For list of supported optics and cables for VIC 15428 and VIC 15238, refer to the VIC 15000 series data sheet at https://www.cisco.com/c/en/us/products/collateral/interfaces-modules/unified-computing-system-adapters/ucs-vic-15000-series-ds.html
- Cisco Transceiver Module Group (TMG) conducts tests with Cisco optics and cables and publishes the results in the TMG Compatibility Matrix. The latest compatibility with optical modules and DACs can be found at https://tmgmatrix.cisco.com/
- Refer to the these links for additional connectivity options.

Intel:
Product Guide
Speed White Paper

STEP 8 ORDER GPU CARDS (OPTIONAL)

Select GPU Options

The available GPU PCIe options and their riser slot compatibilities are listed in ***Table 17***.



CAUTION:

- 256GB DIMMs cannot be combined with GPU cards, and the ambient temperature shall be limited to a maximum of 28ºC.
- With multiple GPU>75W installed, normal operating temperature is 30º C [86º F], lowered to 25º C [77º F], with a fan fault.
- When a GPU>75W is installed, CPUs with TDP greater than 300W are not supported



NOTE:

- GPUs cannot be mixed
- All GPU cards must be procured from Cisco as there is a unique SBIOS ID required by CIMC and UCSM
- If a GPU with TDP equal or greater than 150W is ordered, all the 3 risers are required, and GPU airblocker will be installed in the middle slot of any empty riser in the system.
- If GPUs are installed in slot 2 of riser 1A/1C or slot 5 of riser 2A/2C, the NCSI capability automatically switches over to slot 1 of riser 1A/1C or slot 4 of Riser 2A/2C. Therefore, Cisco PCIe VICs can be installed in slots 1 and 4, if GPUs are installed in slots 2 and 5. If you order multiple GPUs, they must be installed as shown in ***Table 17 on page 42***.
- The GPU air baffle (UCSC-GPUAD-240M7) incompatible with CPUs greater than 300W.
- Please refer to **installation guide** for the installation of the GPUs.

Table 17 Available PCIe GPU Cards

GPU Product ID (PID)	PID Description	Card Size	Max GPU Per Node	Riser Slot Compatibility[1]			
				Riser 1A/1C	Riser 2A/2C	Riser 3C[2]	Riser 1B/3A/3B
UCSC-GPU-A30-D	TESLA A30, PASSIVE, 180W, 24GB	double -wide	3	slot 2	slot 5	slot 7	n/a
UCSC-GPU-A40-D	TESLA A40 RTX, PASSIVE, 300W, 48GB	double -wide	3	slot 2	slot 5	slot 7	n/a
UCSC-GPU-A16-D	NVIDIA A16 PCIE 250W 4X16GB	double -wide	3	slot 2	slot 5	slot 7	n/a

Table 17 Available PCIe GPU Cards

GPU Product ID (PID)	PID Description	Card Size	Max GPU Per Node	Riser Slot Compatibility[1]			
UCSC-GPU-FLEX170	Intel GPU Flex 170, Gen4x16, FHFL, 150W PCIe	Single-wide	3	slot 2	slot 5	slot 7	n/a
UCSC-GPU-H100-80	NVIDIA H100: 350W, 80GB, 2-slot FHFL GPU	double-wide	2	slot 2 (Riser 1C Only)	slot 5 (Riser 2C Only)	n/a	n/a
UCSC-GPU-L40S	NVIDIA L40S: 350W, 48GB, 2-slot FHFL GPU	double-wide	2	slot 2 (Riser 1C Only)	slot 5 (Riser 2C Only)	n/a	n/a
UCSC-GPU-L4[3]	NVIDIA L4:70W, 24GB, 1-slot HHHL GPU	Single-wide	8	All slots	All slots	slot 7	slot 7 & slot 8 (Riser 3A Only)

Accessories/spare included with GPU:

- When a GPU ready configuration is ordered, the server comes with low-profile heatsinks PID (UCSC-HSLP-C220M7), and special airblocker PID (UCSC-RISAB-24XM7) for GPUs.
- Air duct (UCSC-GPUAD-C240M7) is **not** auto-included with the double wide GPUs, however it is required selection under configuration. For GPU UCSC-GPU-L4 **air duct is not** required.
- UCS-P100CBL-240-D is included with the selection of A100/A40/A16/A30 GPUs.
- UCS-M10CBL-C240M7 power cable included with the selection of FLEX170 GPU.
- CBL-G5GPU-C240M7 power cable included with the selection of UCSC-GPU-H100-80 and UCSC-GPU-L40S GPU.

NOTE: If you are adding GPUs later to non GPU ready configuration, you need to order the GPU kit (UCSC-GPUKIT-240M7=) along with GPUs, this GPU kit includes 2x low profile heatsinks, 1x GPU airduct, 2x thermal paste and 2x GPU airblockers.

Notes:

1. 1C and 2C are Gen 5 riser and 1A and 2A are Gen 4 riser.
2. The server supports one full-height, full-length, double-wide GPU (PCIe slot 7 only) in Riser 3C.
3. L4 is supported on all slots in PCIe risers. The maximum would be 8 when you have riser 1A+2A+3A and populate all 8 slots with L4.

Table 18 NVIDIA GPU Licenses

Product ID (PID)	PID Description
NV-GRDWK-1-D5S	Quadro Perpetual Lic - NVIDIA vDWS 1CCU; 5Yr SUMS Req
NV-GRDVA-1-D5S	GRID Perpetual Lic - NVIDIA VDI APPs 1CCU; 5Yr SUMS Reqd
NV-GRDPC-1-D5S	GRID Perpetual Lic - NVIDIA VDI PC 1CCU; 5Yr SUMS Reqd
NV-GRD-EDP-D5S	EDU - Quadro Perpetual Lic - NVIDIA vDWS 1CCU; 5Yr SUMS Reqd
NV-GRID-WKP-D5YR	NVIDIA Quadro Production SUMS - vDWS 1CCU - 5 Year
NV-GRID-VAP-D5YR	NVIDIA GRID Production SUMS - VDI Apps 1CCU - 5 Year
NV-GRID-PCP-D5YR	NVIDIA GRID Production SUMS - VDI PC 1CCU - 5 Year
NV-GRID-EDP-D5YR	EDU - NVIDIA Quadro vDWS Production SUMS - 1CCU - 5 Year

Table 18 NVIDIA GPU Licenses *(continued)*

Product ID (PID)	PID Description
NV-GRID-WKS-D1YR	NVIDIA Quadro SW Subscription - vDWS 1CCU - 1 Year
NV-GRID-WKS-D3YR	NVIDIA Quadro SW Subscription - vDWS 1CCU - 3 Year
NV-GRID-WKS-D4YR	NVIDIA Quadro SW Subscription - vDWS 1CCU - 4 Year
NV-GRID-WKS-D5YR	NVIDIA Quadro SW Subscription - vDWS 1CCU - 5 Year
NV-GRID-PCS-D1YR	NVIDIA GRID Software Subscription - VDI PC 1CCU - 1 Year
NV-GRID-PCS-D3YR	NVIDIA GRID Software Subscription - VDI PC 1CCU - 3 Year
NV-GRID-PCS-D4YR	NVIDIA GRID Software Subscription - VDI PC 1CCU - 4 Year
NV-GRID-PCS-D5YR	NVIDIA GRID Software Subscription - VDI PC 1CCU - 5 Year
NV-GRID-VAS-D1YR	NVIDIA GRID Software Subscription - VDI Apps 1CCU - 1 Year
NV-GRID-VAS-D3YR	NVIDIA GRID Software Subscription - VDI Apps 1CCU - 3 Year
NV-GRID-VAS-D4YR	NVIDIA GRID Software Subscription - VDI Apps 1CCU - 4 Year
NV-GRID-VAS-D5YR	NVIDIA GRID Software Subscription - VDI Apps 1CCU - 5 Year
NV-GRID-EDS-D1YR	EDU - NVIDIA Quadro vDWS SW Subscription - 1CCU - 1 Year
NV-GRID-EDS-D3YR	EDU - NVIDIA Quadro vDWS SW Subscription - 1CCU - 3 Year
NV-GRID-EDS-D4YR	EDU - NVIDIA Quadro vDWS SW Subscription - 1CCU - 4 Year
NV-GRID-EDS-D5YR	EDU - NVIDIA Quadro vDWS SW Subscription - 1CCU - 5 Year
NV-VCS-D1Y	NVIDIA vCompute Server Subscription - 1 GPU - 1 Year
NV-VCS-D3Y	NVIDIA vCompute Server Subscription - 1 GPU - 3 Year
NV-VCS-D5Y	NVIDIA vCompute Server Subscription - 1 GPU - 5 Year

STEP 9 ORDER POWER SUPPLY (REQUIRED)

Power supplies share a common electrical and physical design that allows for hot-plug and tool-less installation into M7 C-series servers. Each power supply is certified for high-efficiency operation and offer multiple power output options. This allows users to “right-size” based on server configuration, which improves power efficiency, lower overall energy costs and avoid stranded capacity in the data center.

Use the power calculator at the following link to determine the needed power based on the options chosen (CPUs, drives, memory, and so on):

http://ucspowercalc.cisco.com



WARNING:

- Starting 1st January 2024, only Titanium rated PSUs are allowed to be shipped to European Union (EU), European Economic Area (EEA), United Kingdom (UK), Switzerland and other countries that adopted Lot 9 Regulation.
- DC PSUs are not impacted by Lot 9 Regulation and are EU/UK Lot 9 compliant

Table 19 Power Supply

Product ID (PID)	PID Description
PSU (Input High Line 210VAC)	
UCSC-PSUV21050D-D	Cisco UCS 1050W -48V DC Power Supply for Rack Server **Platinum**
UCSC-PSUV21050DCI[1]	1050W -48V DC power supply for C-Series servers (India)
UCSC-PSU1-1200W-D	1200W Titanium power supply for C-Series Servers **Titanium**
UCSC-PSU1-1600W-D	UCS 1600W AC PSU **Platinum** (Not EU/UK Lot 9 Compliant)
UCSC-PSU1-2300W-D	2300W Power supply for C-series servers **Titanium**
PSU (Input Low Line 110VAC)	
UCSC-PSU1-1200W-D	1200W Titanium power supply for C-Series Servers **Titanium**
UCSC-PSU1-2300W-D	2300W Power supply for C-series servers **Titanium**

Notes:

1. This power supply supported with NO-POWER-CORD and CAB-48DC-40A-8AWG



NOTE:

- In a server with two power supplies, both power supplies must be identical.
- Refer to ***Power Specifications, page 98*** section for the full details on the each power supply.

STEP 10 SELECT INPUT POWER CORD(s) (REQUIRED)

Using ***Table 20*** and ***Table 21***, select the appropriate AC power cords. You can select a minimum of no power cords and a maximum of two. If you select the option R2XX-DMYMPWRCORD, no power cord is shipped with the server.

NOTE: ***Table 20*** lists the power cords for servers that use power supplies less than 2300 W. ***Table 21*** lists the power cords for servers that use 2300 W power supplies. Note that the power cords for 2300 W power supplies use a C19 connector so they only fit the 2300 W power supply connector.

Table 20 Available Power Cords (for server PSUs less than 2300 W)

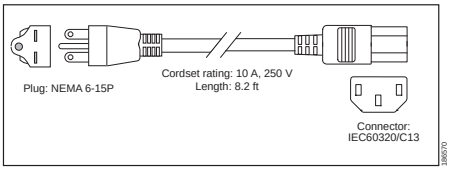
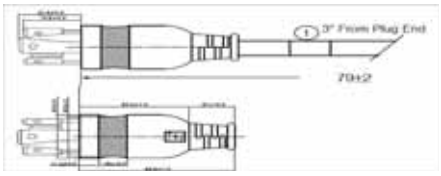
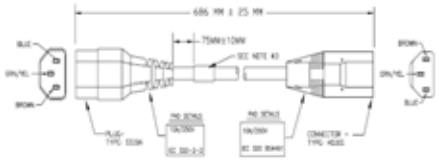
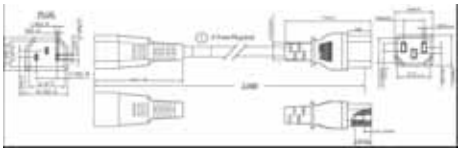
Product ID (PID)	PID Description	Images
NO-POWER-CORD	ECO friendly green option, no power cable will be shipped	
CAB-48DC40A8AWG-D	C-Series -48VDC PSU Power Cord, 3.5M, 3 Wire, 8AWG, 40A	
CAB-N5K6A-NA	Power Cord, 200/240V 6A, North America	
CAB-AC-L620-C13-D	AC Power Cord, NEMA L6-20 - C13, 2M/6.5ft	
CAB-C13-CBN	CABASY,WIRE,JUMPER CORD, 27" L, C13/C14, 10A/250V	
CAB-C13-C14-2M	CABASY,WIRE,JUMPER CORD, PWR, 2 Meter, C13/C14,10A/250V	

Table 20 Available Power Cords (for server PSUs less than 2300 W)

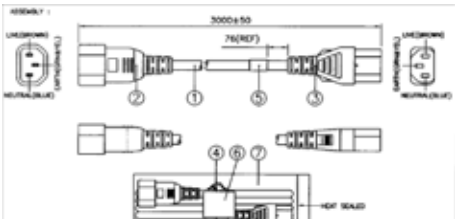
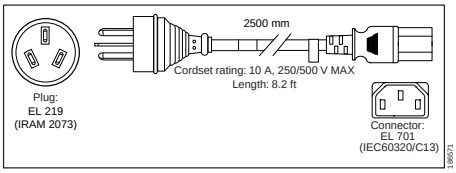
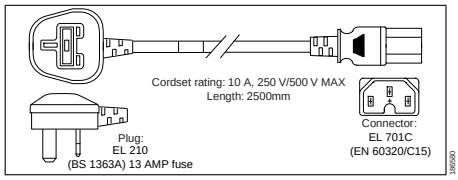
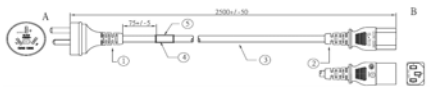
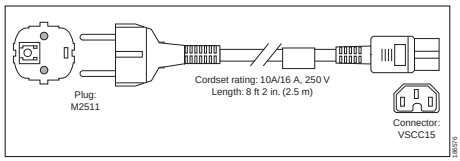
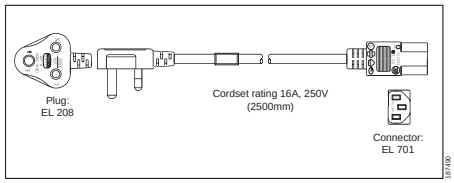
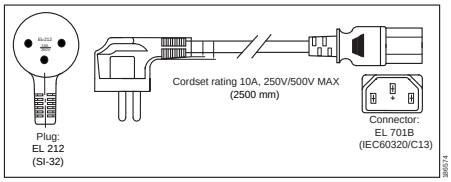
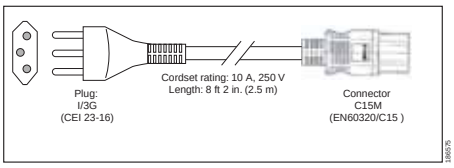
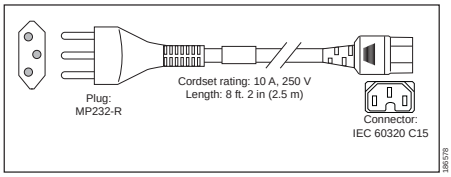
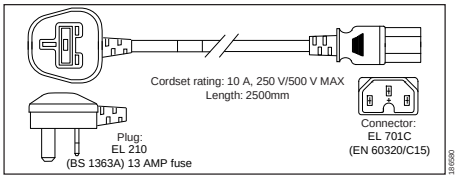
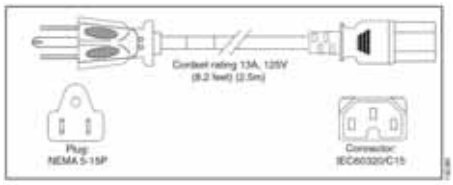
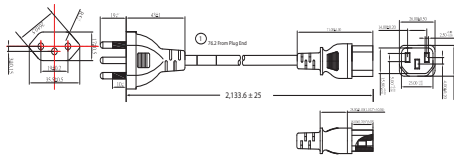
Product ID (PID)	PID Description	Images
CAB-C13-C14-AC	CORD,PWR,JMP,IEC60320/C14,IEC60320/C13, 3.0M	
CAB-250V-10A-AR	Power Cord, 250V, 10A, Argentina	
CAB-9K10A-AU	Power Cord, 250VAC 10A 3112 Plug, Australia	
CAB-250V-10A-CN	AC Power Cord - 250V, 10A - PRC	
CAB-9K10A-EU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU	
CAB-250V-10A-ID	Power Cord, 250V, 10A, India	
CAB-C13-C14-3M-IN	Power Cord Jumper, C13-C14 Connectors, 3 Meter Length, India	Image not available
CAB-C13-C14-IN	Power Cord Jumper,C13-C14 Connectors,1.4 Meter Length, India	Image not available
CAB-250V-10A-IS	Power Cord, SFS, 250V, 10A, Israel	

Table 20 Available Power Cords (for server PSUs less than 2300 W)

Product ID (PID)	PID Description	Images
CAB-9K10A-IT	Power Cord, 250VAC 10A CEI 23-16/VII Plug, Italy	
CAB-9K10A-SW	Power Cord, 250VAC 10A MP232 Plug, Switzerland	
CAB-9K10A-UK	Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK	
CAB-9K12A-NA[1]	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	
CAB-250V-10A-BR	Power Cord - 250V, 10A - Brazil	
CAB-C13C142M-JP-D	Power Cord C13-C14, 2M/6.5ft Japan PSE mark	Image not available
CAB-9K10A-KOR[1]	Power Cord, 125VAC 13A KSC8305 Plug, Korea	Image not available
CAB-ACTW	AC Power Cord (Taiwan), C13, EL 302, 2.3M	Image not available
CAB-JPN-3PIN	Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m	Image not available
CAB-48DC40A-INT-D	C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (INT)	Image not available
CAB-48DC-40A-AS-D	C-Series -48VDC PSU PWR Cord, 3.5M, 3Wire, 8AWG, 40A (AS/NZ)	Image not available

Notes:

1. This power cord is rated to 125V and only supported for PSU rated at 1050W or less

Table 21 Available Power Cords (for servers with 2300 W PSUs)

Product ID (PID)	PID Description	Images
CAB-C19-CBN	Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors	Not applicable
CAB-S132-C19-ISRL	S132 to IEC-C19 14ft Israeli	Image not available
CAB-IR2073-C19-AR	IRSM 2073 to IEC-C19 14ft Argen	Image not available
CAB-BS1363-C19-UK	BS-1363 to IEC-C19 14ft UK	Image not available
CAB-SABS-C19-IND	SABS 164-1 to IEC-C19 India	Image not available
CAB-C2316-C19-IT	CEI 23-16 to IEC-C19 14ft Italy	Image not available
CAB-US515P-C19-US	NEMA 5-15 to IEC-C19 13ft US	Image not available
CAB-US520-C19-US	NEMA 5-20 to IEC-C19 14ft US	Image not available
CAB-US620P-C19-US	NEMA 6-20 to IEC-C19 13ft US	Image not available
CAB-9K16A-BRZ	Power Cord 250VAC 16A, Brazil, Src Plug EL224-C19	Image not available
CAB-9K16A-KOR	Power Cord 250VAC 16A, Korea, Src Plug	Image not available
CAB-AC-16A-AUS	Power Cord, 250VAC, 16A, Australia C19	Image not available
CAB-AC-2500W-EU	Power Cord, 250Vac 16A, Europe	Image not available
CAB-C14C19-10A-EU	Power Cord C14-C19 10A EU	Image not available
CAB-AC-2500W-INT	Power Cord, 250Vac 16A, INTL	Image not available
CAB-AC-2500W-ISRL	Power Cord,250VAC,16A,Israel	Image not available
CAB-AC-C19-TW	Power Cord, 250 V, 16A, C19, Taiwan	Image not available
CAB-AC-C6K-TWLK	Power Cord, 250Vac 16A, twist lock NEMA L6-20 plug, US	Image not available
CAB-AC16A-CH	16A AC Power Cord For China	Image not available
CAB-ACS-16	AC Power Cord (Swiss) 16A	Image not available
CAB-C19-C20-3M-JP	Power Cord C19-C20, 3M/10ft Japan PSE mark	Image not available
CAB-C19-C20-IND	Power Cord C19-C20 India	Image not available

STEP 11 ORDER TOOL-LESS RAIL KIT (REQUIRED) AND REVERSIBLE CABLE MANAGEMENT ARM (OPTIONAL)

- Tool-less Rail Kit:

Select a tool-less rail kit (or no rail kit) from ***Table 22***.

NOTE:

- Cisco recommends a minimum quantity of 1 Rail Kit.
- If you plan to rackmount your UCS C240 M7 server, you must order a tool-less rail kit.

Table 22 Tool-less Rail Kit Options

Product ID (PID)	PID Description
UCSC-RAIL-D	Ball bearing rail kit
UCSC-RAIL-NONE-D	No rail kit option

- Optional Reversible Cable Management Arm:

The reversible cable management arm mounts on either the right or left slide rails at the rear of the server and is used for cable management. Select an Optional Reversible Cable Management Arm from ***Table 23***.

NOTE: If you plan to rackmount your UCS C240 M7 server, you must order a tool-less rail kit. The same rail kits and CMAs are used for M6 and M7 servers.

Table 23 Cable Management Arm

Product ID (PID)	PID Description
UCSC-CMA-C240-D	Reversible CMA for ball bearing rail kit

For more information about the tool-less rail kit and cable management arm, check the ***Cisco UCS C240 M7 Installation Guide***.

STEP 12 SELECT MANAGEMENT CONFIGURATION (OPTIONAL)

By default, the C240 M7 server NIC mode is configured to be Shared LOM Extended. This NIC mode allows any LOM port or adapter card port to be used to access the Cisco Integrated.



NOTE:

- There are no LOM ports on the C220 and C240 M7 servers. Servers ordered without a VIC or OCP card will ship in Dedicated network mode, unless otherwise specified by a configurable SW PID **(UCSC-CCARD-01)**
- For full details on all the NIC mode settings, see

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/c/hw/c220m6/install/c220m7/m_maintaining_the_server.html?bookSearch=true

Table 24 Management Configuration Ordering Information

Product ID (PID)	PID Description
UCSC-DLOM-01-D	Dedicated Mode BIOS setting for C-Series Servers ■ To change the default NIC mode to Dedicated NIC mode, select this card ■ In Dedicated NIC mode, the CIMC can be accessed only through the dedicated management port. ■ See ***Chassis Rear View (UCSC-C240-M7SX), page 7*** for the location of the management port
UCSC-CCARD-01-D	Cisco Card Mode BIOS setting for C-Series Servers ■ To change the default NIC mode to Cisco Card Mode, select this card ■ If Cisco card selected, a VIC or MLOM must also be included in the configuration. if OCP card is included in the configuration, a VIC card must be selected. ■ In this mode, you can assign an IP address to the CIMC using DHCP and from there you can fully automate your deployment.

In addition, the optional software PIDS listed in ***Table 32 on page 56*** can be ordered for setting the server to operate in various modes.

STEP 13 ORDER SECURITY DEVICES (REQUIRED)

A Trusted Platform Module (TPM) is a computer chip (microcontroller) that can securely store artifacts used to authenticate the platform (server). These artifacts can include passwords, certificates, or encryption keys. A TPM can also be used to store platform measurements that help ensure that the platform remains trustworthy. Authentication (ensuring that the platform can prove that it is what it claims to be) and attestation (a process helping to prove that a platform is trustworthy and has not been breached) are necessary steps to ensure safer computing in all environments.

A chassis intrusion switch gives a notification of any unauthorized mechanical access into the server.

The security device ordering information is listed in ***Table 25***



NOTE:

- The TPM module used in this system conforms to TPM 2.0, as defined by the Trusted Computing Group (TCG). It is also SPI-based.
- TPM installation is supported after-factory. However, a TPM installs with a one-way screw and cannot be replaced, upgraded, or moved to another server. If a server with a TPM is returned, the replacement server must be ordered with a new TPM.

Table 25 Security Devices

Product ID (PID)	PID Description
UCS-TPM-002C-D	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers
UCS-TPM-002D-D	TPM 2.0 TCG FIPS140-2 CC+ Cert M7 Intel MSW2022 Compliant
UCS-TPM-OPT-OUT-D	OPT OUT, TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified[1]
UCSC-INT-SW02-D	C220 and C240 M7 Chassis Intrusion Switch

Notes:

1. Please note that Microsoft certification requires a TPM 2.0 for bare-metal or guest VM deployments. Opt-out of the TPM 2.0 voids the Microsoft certification

STEP 14 SELECT LOCKING SECURITY BEZEL (OPTIONAL)

An optional locking bezel can be mounted to the front of the chassis to prevent unauthorized access to the drives.

Select the locking bezel from ***Table 26***.

Table 26 Locking Bezel Option

Product ID (PID)	Description
UCSC-BZL-C240-D	C240 M7 Security Bezel

STEP 15 ORDER M.2 SATA SSDs (OPTIONAL)

- Order one or two matching M.2 SATA SSDs from ***Table 27*** along with a boot-optimized RAID controller (see ***Table 28***). See ***Figure 7 on page 62*** for the location of the module connector on the motherboard. The motherboard connector accepts the extender board and the extender board accepts the boot-optimized RAID controller. Each boot-optimized RAID controller can accommodate up to two SATA M.2 SSDs.

NOTE:

- It is recommended that M.2 SATA SSDs be used as boot-only devices.
- Order one or two identical M.2 SATA SSDs for the boot optimized RAID controller
- You cannot mix M.2 SATA SSD capacities.

Table 27 M.2 SATA SSDs

Product ID (PID)	PID Description
UCS-M2-240G-D	240GB M.2 SATA Micron G2 SSD
UCS-M2-480G-D	480GB M.2 SATA SSD
UCS-M2-960G-D	960GB M.2 SATA Micron G2 SSD
UCS-M2240OA1V	240GB M.2 Boot Solidigm S4520 SATA 1X SSD
UCS-M2480OA1V	480GB M.2 Boot Solidigm S4520 SATA 1X SSD

- Order Cisco boot optimized M.2 RAID controller from ***Table 28***. The boot optimized RAID controller plugs into a extender board on the motherboard and holds up to two M.2 SATA drives.

NOTE:

- The Cisco boot optimized M.2 RAID controller supports Windows and Linux Operating Systems
- The Cisco boot optimized M.2 RAID controller supports RAID 1 and JBOD mode
- The Cisco boot optimized M.2 RAID controller is available only with 240GB, 480GB, and 960GB M.2 SSDs.
- CIMC is supported for configuring of volumes and monitoring of the controller and installed SATA M.2 drives
- The SATA M.2 drives can boot in UEFI mode only. Legacy boot mode is not supported
- Hot-plug replacement is not supported. The server must be powered off.

Table 28 Boot-Optimized RAID Controller

Product ID (PID)	PID Description
UCS-M2-HWRAID-D	Cisco Boot optimized M.2 RAID controller (holds up to two M.2 SATA SSDs)
Accessories/spare included with Boot-Optimized RAID Controller: - UCSC-M2EXT-240-D is included with the selection of this Boot-Optimized RAID Controller. **NOTE:** if you are adding later UCS-M2-HWRAID-D= as a spare you may need order UCSC-M2EXT-240-D= along with it	

STEP 16 ORDER M.2 NVMe AND RAID CONTROLLER(OPTIONAL)

- Order one or two matching M.2 NVMe from ***Table 29*** along with a boot-optimized RAID controller (see ***Table 30***). See ***Figure 7 on page 62*** for the location of the module connector on the motherboard. This connector accepts the boot-optimized RAID controller. Each boot-optimized RAID controller can accommodate up to two SATA M.2 NVMe

NOTE:

- It is recommended that M.2 NVMe be used as boot-only devices.
- Order one or two identical M.2 NVMe for the boot optimized RAID controller
- You cannot mix M.2 NVMe capacities.

Table 29 M.2 NVMe

Product ID (PID)	PID Description
UCS-NVM2-400GB	400GB M.2 Boot NVMe
UCS-NVM2-960GB	960GB M.2 Boot NVMe

- Order Cisco boot optimized M.2 NVMe RAID controller from ***Table 30***. The boot optimized RAID controller plugs into a connector on the motherboard and holds up to two M.2 NVMe drives.

Table 30 Boot-Optimized RAID Controller

Product ID (PID)	PID Description
UCS-M2-NVRAID	Cisco M.2 NVMe BOOT RAID Controller (HHHL)

Table 31 Riser supported Matrix for M.2 NVMe Boot Raid Controller

Risers- Gen	Risers Slot	UCS-M2-NVRAID - Slot
Gen4 Risers	1A, 2A, 3A, 3C	1A - Slot 1
Storage Risers	1B, 3B	1B - Slot 1
Gen5 Risers	1C, 3C	1C - Slot 2

STEP 17 SELECT OPERATING SYSTEM AND VALUE-ADDED SOFTWARE

Select

- Operating System (***Table 32***)



NOTE:

- See this link for operating system guidance: https://ucshcltool.cloudapps.cisco.com/public/

Table 32 Operating System

Product ID (PID)	PID Description
Microsoft Windows Server	
MSWS-25-ST16C	Windows Server 2025 Standard (16 Cores)
MSWS-25-ST16C-NS	Windows Server 2025 Standard (16 Cores) - No Cisco SVC
MSWS-25-ST24C	Windows Server 2025 Standard (24 Cores)
MSWS-25-ST24C-NS	Windows Server 2025 Standard (24 Cores) - No SVC
MSWS-25-DC16C	Windows Server 2025 Datacenter (16 Core)
MSWS-25-DC16C-NS	Windows Server 2025 DC (16 Cores) - No SVC
MSWS-25-DC24C	Windows Server 2025 Datacenter (24 Core)
MSWS-25-DC24C-NS	Windows Server 2025 Datacenter (24 Core) - No SVC
Red Hat	
RHEL-2S2V-1A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req
RHEL-2S2V-3A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 3-Yr Support Req
RHEL-2S2V-5A	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 5-Yr Support Req
RHEL-VDC-2SUV-1A	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 1 Yr Supp Req
RHEL-VDC-2SUV-3A	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 3 Yr Supp Req
RHEL-VDC-2SUV-5A	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 5 Yr Supp Req
Red Hat Ent Linux/ High Avail/ Res Strg/ Scal	
RHEL-2S2V-1S	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); Prem 1Yr SnS Reqd
RHEL-2S2V-3S	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); Prem 3Yr SnS Reqd
RHEL-2S-HA-1S	RHEL High Availability (1-2 CPU); Premium 1-yr SnS Reqd
RHEL-2S-HA-3S	RHEL High Availability (1-2 CPU); Premium 3-yr SnS Reqd

Table 32 Operating System *(continued)*

Product ID (PID)	PID Description
RHEL-2S-RS-1S	RHEL Resilent Storage (1-2 CPU); Premium 1-yr SnS Reqd
RHEL-2S-RS-3S	RHEL Resilent Storage (1-2 CPU); Premium 3-yr SnS Reqd
RHEL-VDC-2SUV-1S	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 1 Yr SnS Reqd
RHEL-VDC-2SUV-3S	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 3 Yr SnS Reqd
Red Hat SAP	
RHEL-SAP-2S2V-1S	RHEL for SAP Apps (1-2 CPU, 1-2 VN); Prem 1-Yr SnS Reqd
RHEL-SAP-2S2V-3S	RHEL for SAP Apps (1-2 CPU, 1-2 VN); Prem 3-Yr SnS Reqd
RHEL-SAPSP-3S	RHEL SAP Solutions Premium - 3 Years
RHEL-SAPSS-3S	RHEL SAP Solutions Standard - 3 Years
SUSE	
SLES-2S2V-1A	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); 1-Yr Support Req
SLES-2S2V-3A	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); 3-Yr Support Req
SLES-2S2V-5A	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); 5-Yr Support Req
SLES-2S-LP-1A	SUSE Linux Live Patching Add-on (1-2 CPU); 1yr Support Req
SLES-2S-LP-3A	SUSE Linux Live Patching Add-on (1-2 CPU); 3yr Support Req
SLES-2SUVM-1A	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; 1Y Supp Req
SLES-2SUVM-3A	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; 3Y Supp Req
SLES-2SUVM-5A	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; 5Y Supp Req
SLES-2S2V-1S	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); Prio 1-Yr SnS
SLES-2S2V-3S	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); Prio 3-Yr SnS
SLES-2S2V-5S	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); Prio 5-Yr SnS
SLES-2S-HA-1S	SUSE Linux High Availability Ext (1-2 CPU); 1yr SnS
SLES-2S-HA-3S	SUSE Linux High Availability Ext (1-2 CPU); 3yr SnS
SLES-2S-HA-5S	SUSE Linux High Availability Ext (1-2 CPU); 5yr SnS
SLES-2S-GC-1S	SUSE Linux GEO Clustering for HA (1-2 CPU); 1yr Sns
SLES-2S-GC-3S	SUSE Linux GEO Clustering for HA (1-2 CPU); 3yr SnS
SLES-2S-GC-5S	SUSE Linux GEO Clustering for HA (1-2 CPU); 5yr SnS
SLES-2S-LP-1S	SUSE Linux Live Patching Add-on (1-2 CPU); 1yr SnS Required
SLES-2S-LP-3S	SUSE Linux Live Patching Add-on (1-2 CPU); 3yr SnS Required

Table 32 Operating System *(continued)*

Product ID (PID)	PID Description
SLES-2SUVM-1S	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; Prio 1Y SnS
SLES-2SUVM-3S	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; Prio 3Y SnS
SLES-2SUVM-5S	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; Prio 5Y SnS
SLES and SAP	
SLES-SAP-2S2V-1S	SLES for SAP Apps (1-2 CPU, 1-2 VM); Priority 1-Yr SnS
SLES-SAP-2S2V-3S	SLES for SAP Apps (1-2 CPU, 1-2 VM); Priority 3-Yr SnS
SLES-SAP-2S2V-5S	SLES for SAP Apps (1-2 CPU, 1-2 VM); Priority 5-Yr SnS
SLES-SAP-2S2V-1A	SLES for SAP Apps w/ HA (1-2 CPU, 1-2 VM); 1-Yr Support Reqd
SLES-SAP-2S2V-3A	SLES for SAP Apps w/ HA (1-2 CPU, 1-2 VM); 3-Yr Support Reqd
SLES-SAP-2S2V-5A	SLES for SAP Apps w/ HA (1-2 CPU, 1-2 VM); 5-Yr Support Reqd

STEP 18 CHOOSE OPTIONAL OPERATING SYSTEM MEDIA KIT

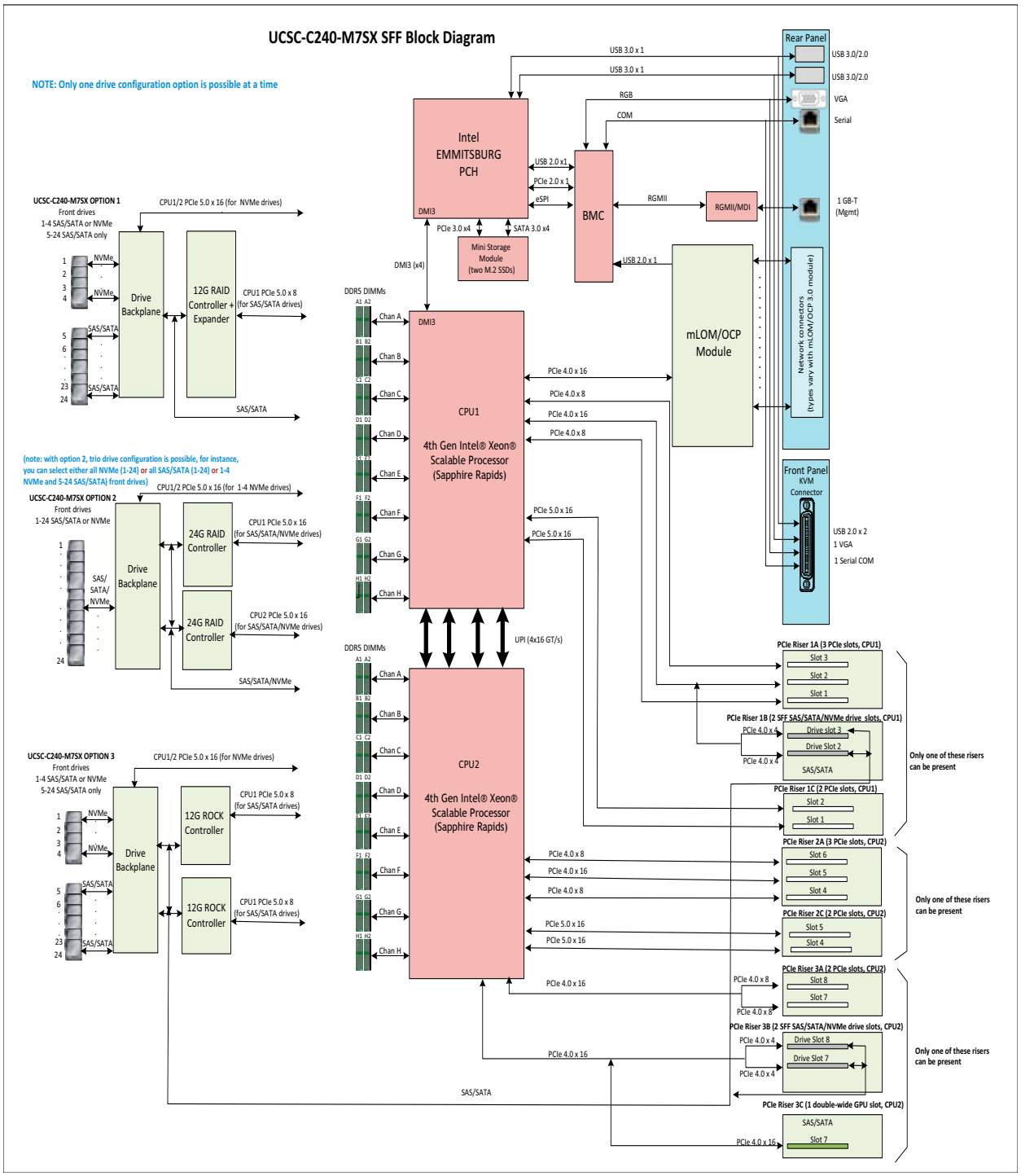
Select the optional operating system media listed in ***Table 33***.

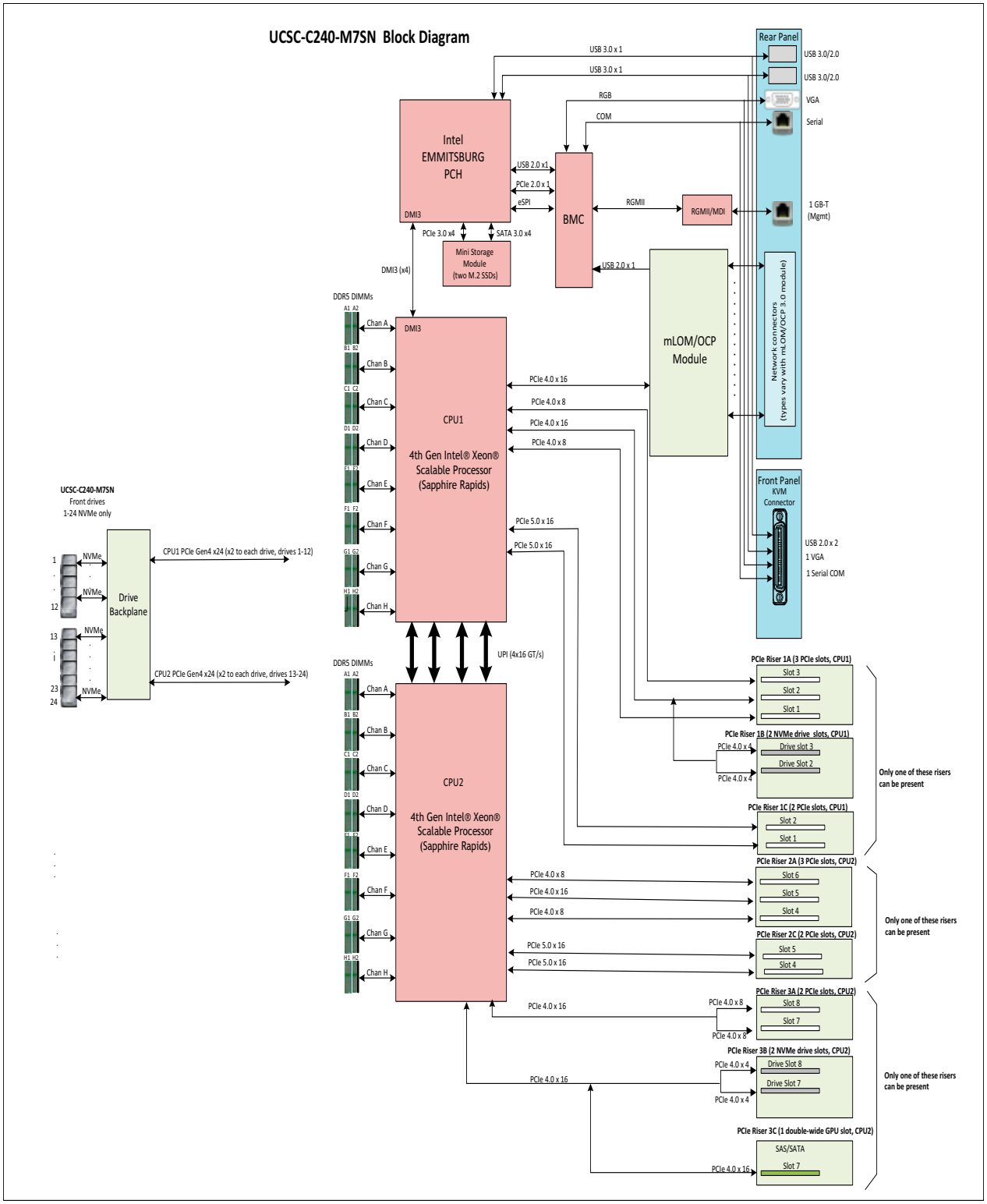
Table 33 OS Media

Product ID (PID)	PID Description
MSWS-19-ST16CD-RM	Windows Server 2019 Stan (16 Cores/2 VMs) Rec Media DVD Only
MSWS-19-DC16CD-RM	Windows Server 2019 DC (16Cores/Unlim VM) Rec Media DVD Only
MSWS-22-ST16CD-RM	Windows Server 2022 Stan (16 Cores/2 VMs) Rec Media DVD Only
MSWS-22-DC16CD-RM	Windows Server 2022 DC (16Cores/Unlim VM) Rec Media DVD Only

SUPPLEMENTAL MATERIAL

Block Diagram

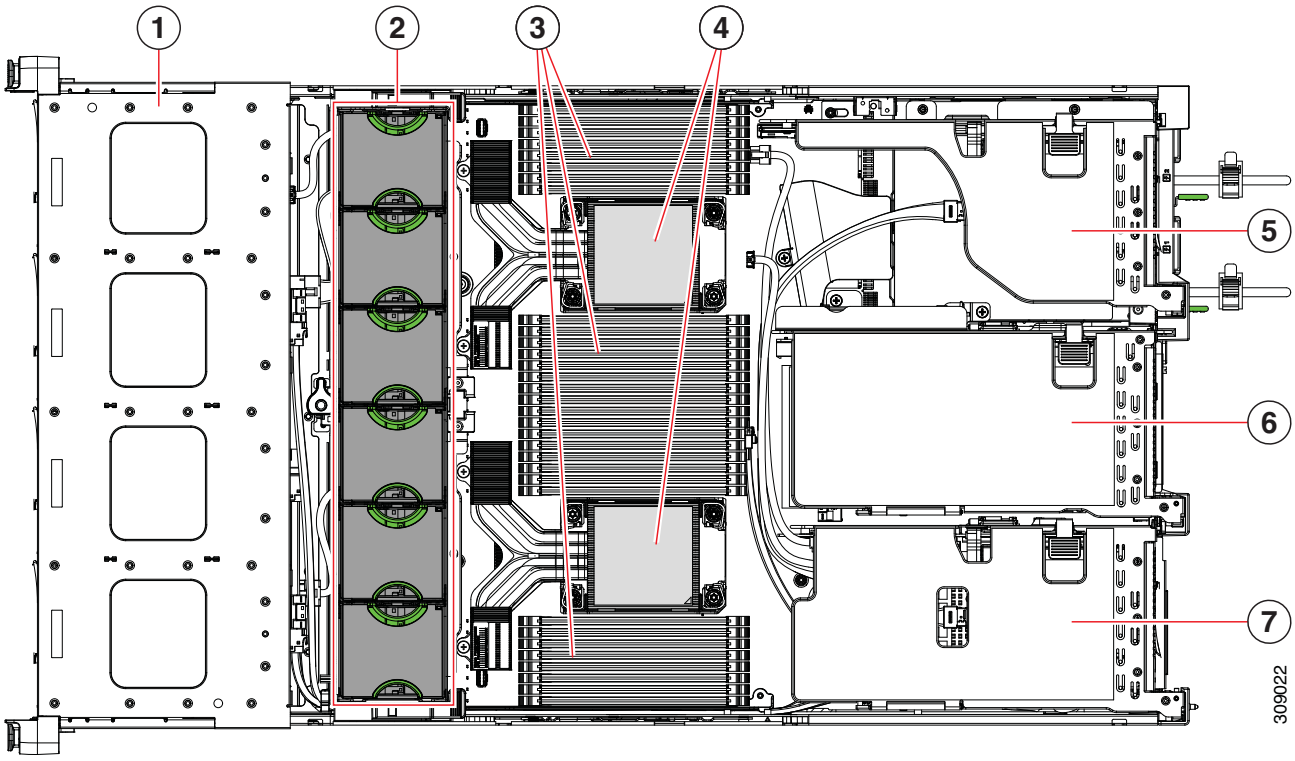



UCSC-C240-M7SN Block Diagram
Rear Panel
USB 3.0 x 1
USB 3.0 x 1
USB 3.0/2.0
USB 3.0/2.0
RGB
VGA
COM
Serial
Intel
EMMITSBURG
PCH
USB 2.0 x1
PCIe 2.0 x 1
eSPI
BMC
RGMII
RGMII/MDI
1 GB-T
(Mgmt)
DMI3
PCIe 3.0 x4
SATA 3.0 x4
Mini Storage
Module
(two M.2 SSDs)
DMI3 (x4)
USB 2.0 x 1
mLOM/OCP
Module
Network connectors
(types vary with mLOM/OCP 3.0 module)
DDR5 DIMMs
Chan A
Chan B
Chan C
Chan D
Chan E
Chan F
Chan G
Chan H
CPU1
4th Gen Intel® Xeon®
Scalable Processor
(Sapphire Rapids)
PCIe 4.0 x 16
PCIe 4.0 x 8
PCIe 4.0 x 16
PCIe 4.0 x 8
PCIe 5.0 x 16
PCIe 5.0 x 16
Front Panel
KVM
Connector
USB 2.0 x 2
1 VGA
1 Serial COM
UCSC-C240-M7SN
Front drives
1-24 NVMe only
NVMe
Drive
Backplane
CPU1 PCIe Gen4 x24 (x2 to each drive, drives 1-12)
CPU2 PCIe Gen4 x24 (x2 to each drive, drives 13-24)
UPI (4x16 GT/s)
CPU2
4th Gen Intel® Xeon®
Scalable Processor
(Sapphire Rapids)
PCIe Riser 1A (3 PCIe slots, CPU1)
Slot 3
Slot 2
Slot 1
PCIe Riser 1B (2 NVMe drive slots, CPU1)
PCIe 4.0 x 4
Drive slot 3
Drive Slot 2
PCIe 4.0 x 4
PCIe Riser 1C (2 PCIe slots, CPU1)
Slot 2
Slot 1
Only one of these risers
can be present
PCIe Riser 2A (3 PCIe slots, CPU2)
Slot 6
Slot 5
Slot 4
PCIe 4.0 x 8
PCIe 4.0 x 16
PCIe 4.0 x 8
PCIe Riser 2C (2 PCIe slots, CPU2)
Slot 5
Slot 4
PCIe 5.0 x 16
PCIe 5.0 x 16
Only one of these risers
can be present
PCIe Riser 3A (2 PCIe slots, CPU2)
Slot 8
Slot 7
PCIe 4.0 x 16
PCIe 4.0 x 8
PCIe 4.0 x 8
PCIe Riser 3B (2 NVMe drive slots, CPU2)
PCIe 4.0 x 4
Drive Slot 8
Drive Slot 7
PCIe 4.0 x 4
PCIe 4.0 x 16
Only one of these risers
can be present
PCIe Riser 3C (1 double-wide GPU slot, CPU2)
SAS/SATA
Slot 7
PCIe 4.0 x 16

Chassis

An internal view of the C240 M7 chassis with the top cover removed is shown in ***Figure 7***.

Figure 7 C240 M7 Server With Top Cover Off



1	Front-loading drive bays.	**2**	Cooling fan modules (six, hot-swappable)
3	DIMM socket on motherboard (16 per CPU) An air baffle rests on top of the DIMMs and CPUs when the server is operating. The air baffle is not displayed in this illustration.	**4**	CPU sockets CPU 2 is at the top and CPU 1 is at the bottom.

5	PCIe riser 3 (PCIe slots 7 and 8 numbered from bottom to top), with the following options: ■ 3A (I/O Option): **Slot 7** (x24 mechanical, x8 electrical) supports full height, full length GPU card **Slot 8** (x24 mechanical, x8 electrical) supports full height, full length GPU card ■ 3B (Storage Option): **Drive bay 103** (x4 electrical) supports 2.5-inch SFF universal HDD **Drive bay 104** (x4 electrical) supports 2.5-inch SFF universal HDD ■ 3C (GPU Option): **Slot 7** (x24 mechanical, x16 electrical) support a full height, full length, double-wide GPU card **Slot 8** empty (No NCSI support)	**6**	PCIe riser 2 (PCIe slots 4, 5, 6 numbered from bottom to top), with the following options: ■ 2A (I/O Option): **Slot 4** (x24 mechanical, x8 electrical) supports full height, ¾ length card; **Slot 5** (x24 mechanical, x16 electrical) supports full height, full length GPU card; **Slot 6** (x16 mechanical, x8 electrical) supports full height, full length card ■ 2C (I/O Option): **Slot 4** (x24 mechanical, x16 electrical) supports full height, ¾ length card; **Slot 5** (x16 mechanical, x16 electrical) supports full height, full length GPU card
7	PCIe riser 1 (PCIe slot 1, 2, 3 numbered bottom to top), with the following options: ■ 1A (I/O Option): **Slot 1** (x24 mechanical, x8 electrical) supports full height, ¾ length card; **Slot 2** (x24 mechanical, x16 electrical) supports full height, full length GPU card; **Slot 3** (x24 mechanical, x16 electrical) supports full height, full length card. ■ 1B (Storage Option): **Slot 1** is reserved; **Drive bay 101** (x4 electrical), supports 2.5-inch SFF universal HDD; **Drive bay 102** (x4 electrical), supports 2.5-inch SFF universal HDD ■ 1C (I/O Option): **Slot 1** (x24 mechanical, x16 electrical) supports full height, ¾ length card; **Slot 2** (x16 mechanical, x16 electrical) supports full height, full length GPU card.	**-**	

Risers

Figure 8 shows the locations of the PCIe riser connectors on Cisco UCS C240 M7 SFF motherboard.

Figure 8 C240 M7 SFF Riser Connector Locations

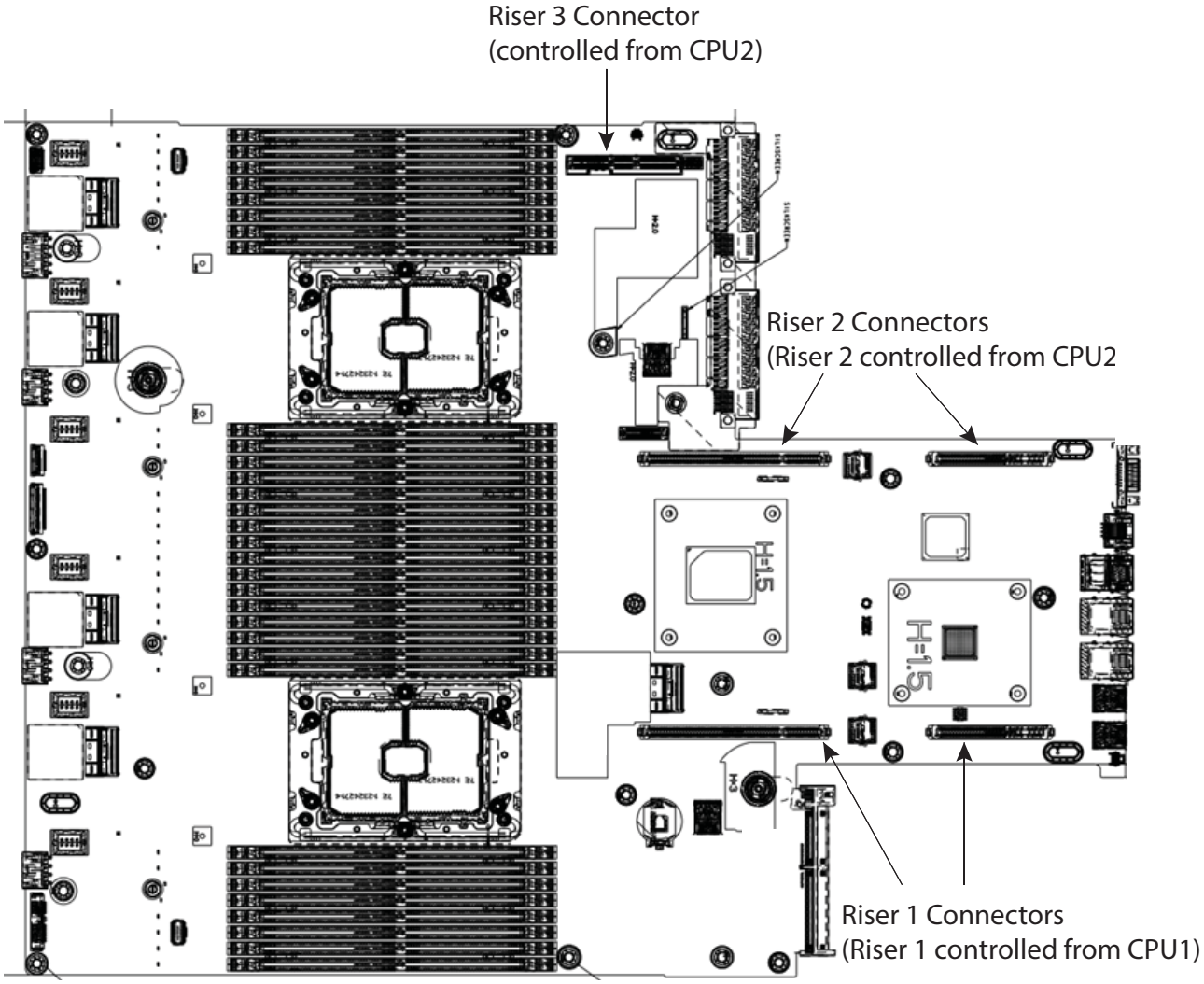
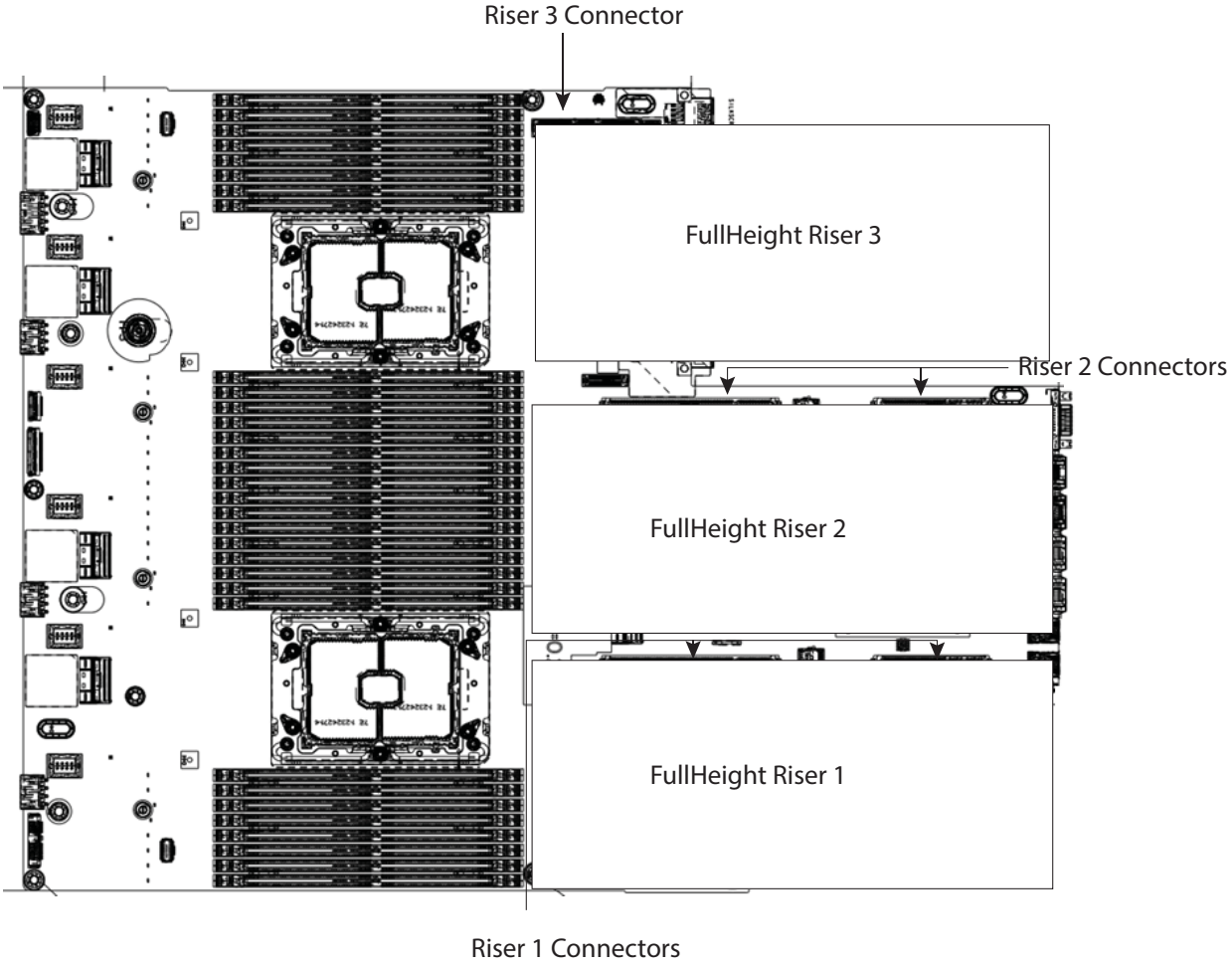


Figure 9 shows the locations of the PCIe riser connectors on Cisco UCS C240 M7 SFF motherboard.

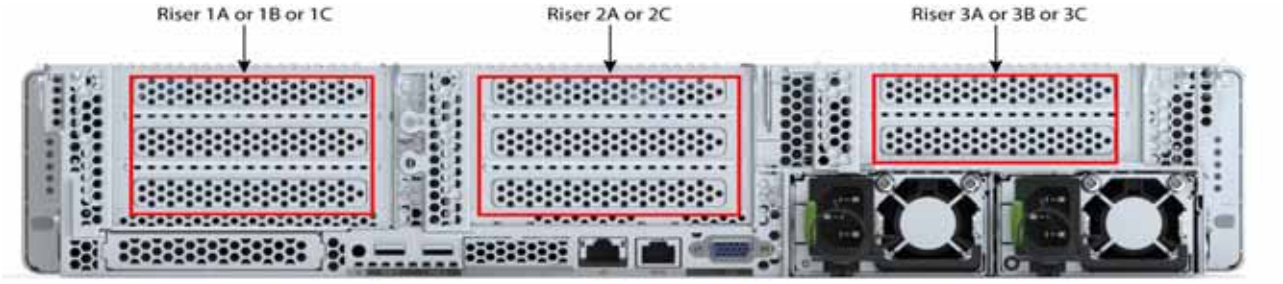
Figure 9 C240 M7 SFF Riser Connector Locations



Riser Card Configurations and Options

The riser card locations are shown in ***Figure 10***.

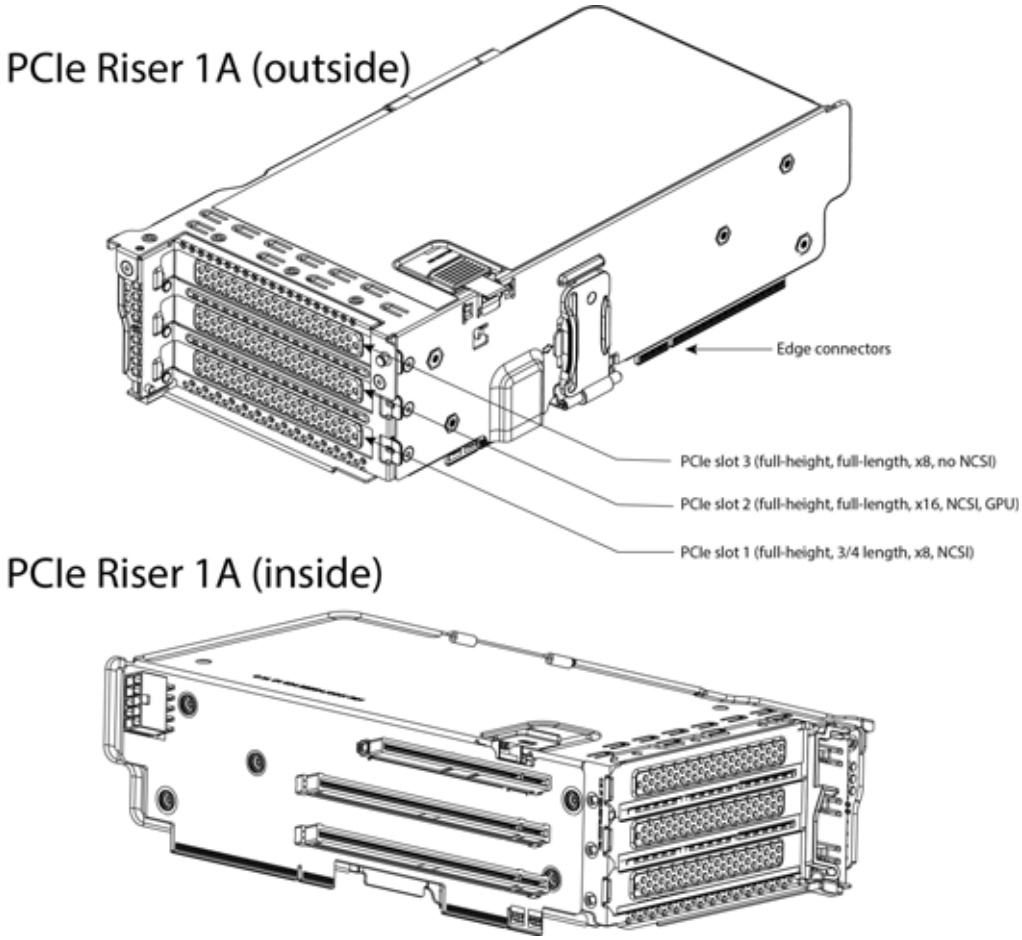
Figure 10 Riser Card Locations



Riser 1A

Riser 1A mechanical information is shown in ***Figure 11***.

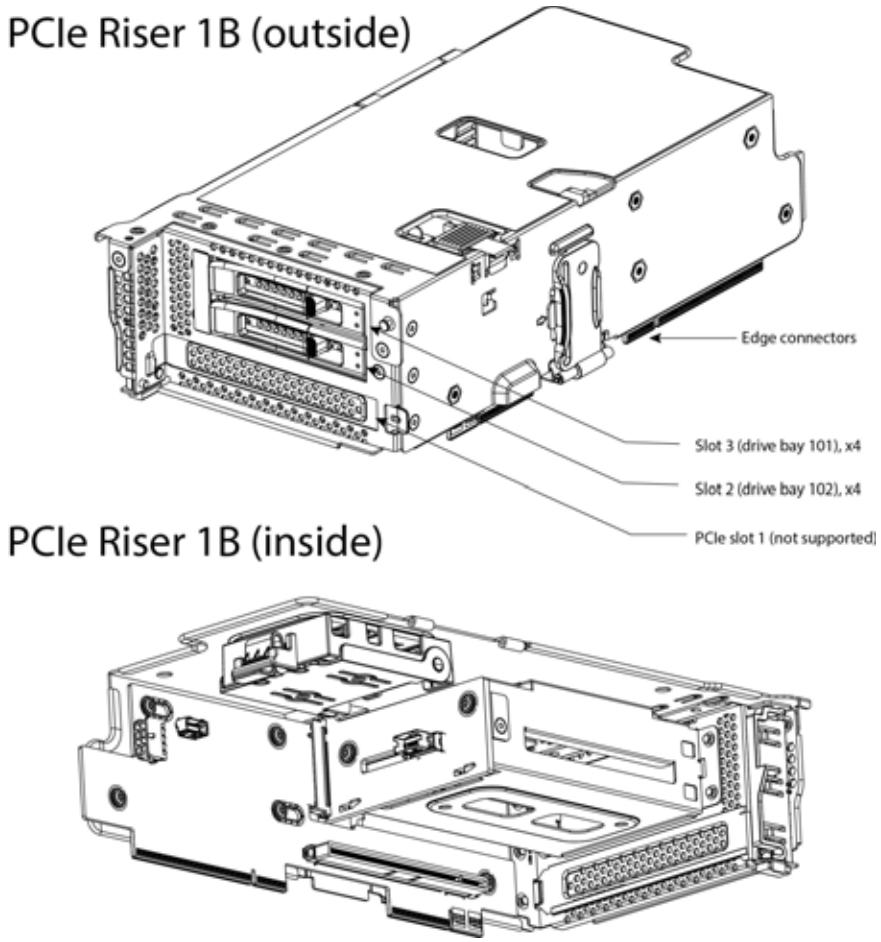
Figure 11 Riser Card 1A



Riser 1B

Riser 1B mechanical information is shown in ***Figure 12***.

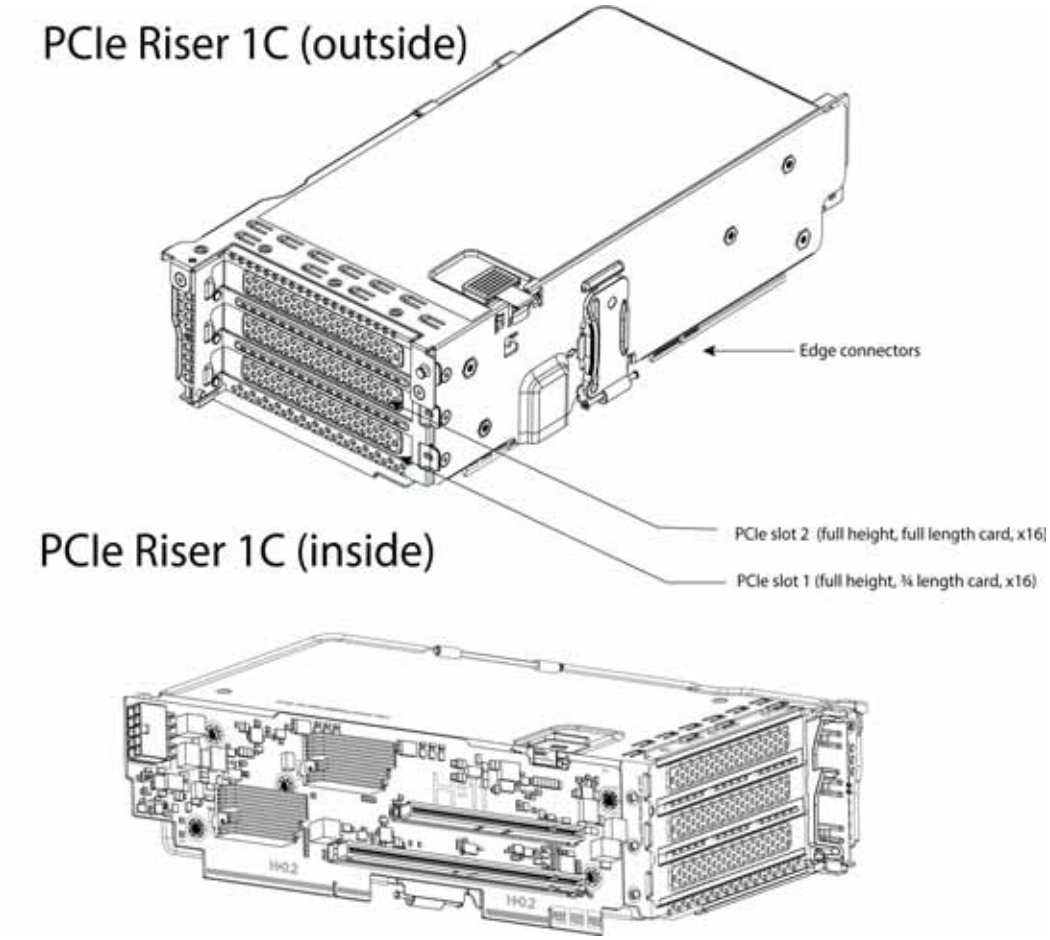
Figure 12 Riser Card 1B



Riser 1C

Riser 1C mechanical information is shown in ***Figure 13***.

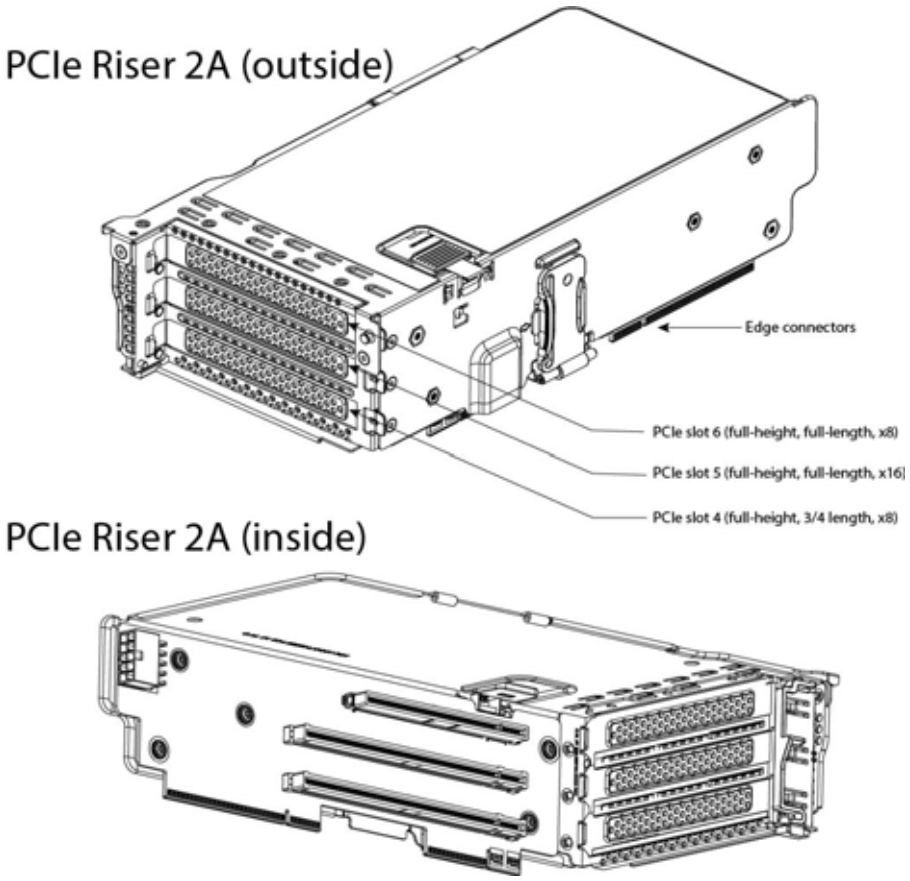
Figure 13 Riser Card 1C



Riser 2A

Riser 2A mechanical information is shown in ***Figure 14***.

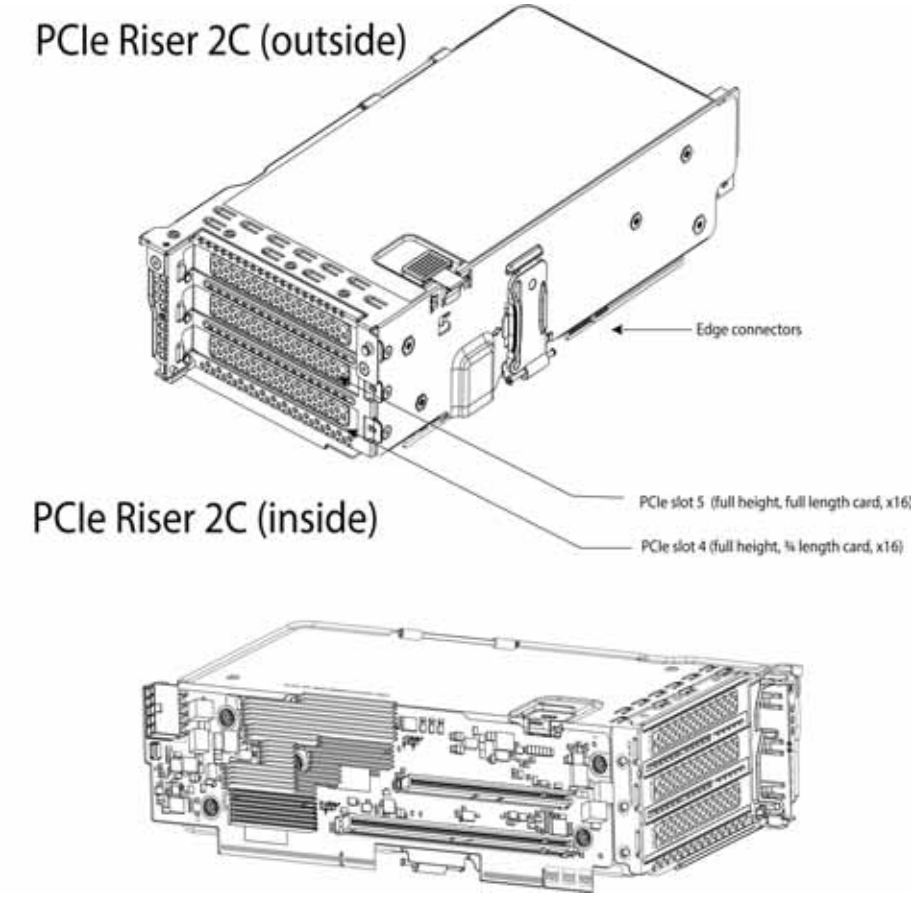
Figure 14 Riser Card 2A



Riser 2C

Riser 2C mechanical information is shown in ***Figure 15***.

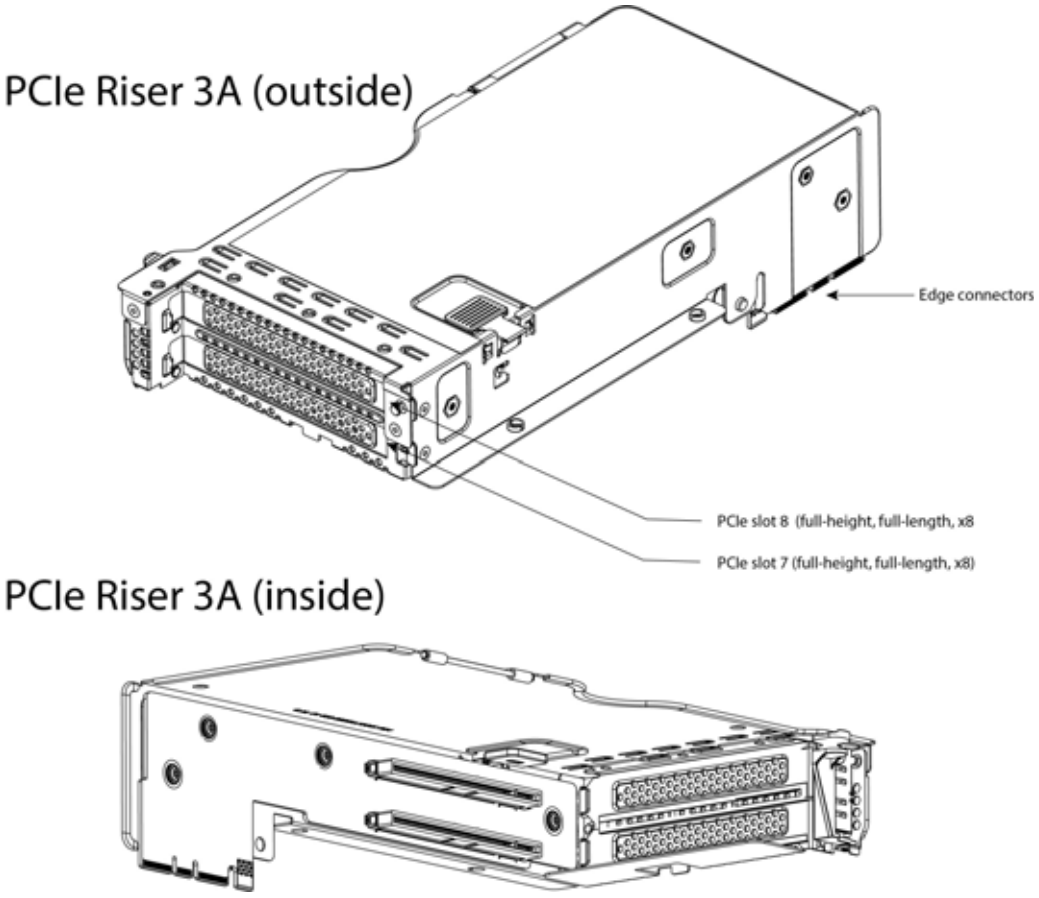
Figure 15 Riser Card 2C



Riser 3A

Riser 3A mechanical information is shown in ***Figure 16***.

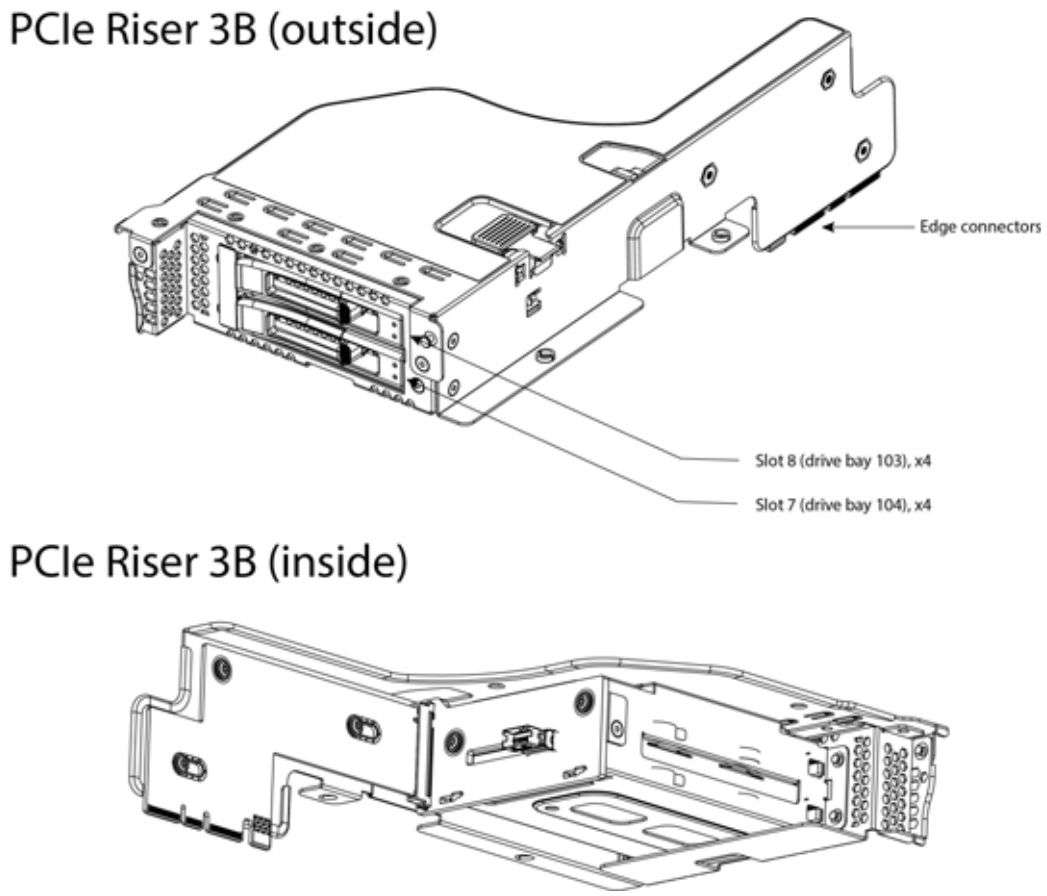
Figure 16 Riser Card 3A



Riser 3B

Riser 3B mechanical information is shown in ***Figure 17***.

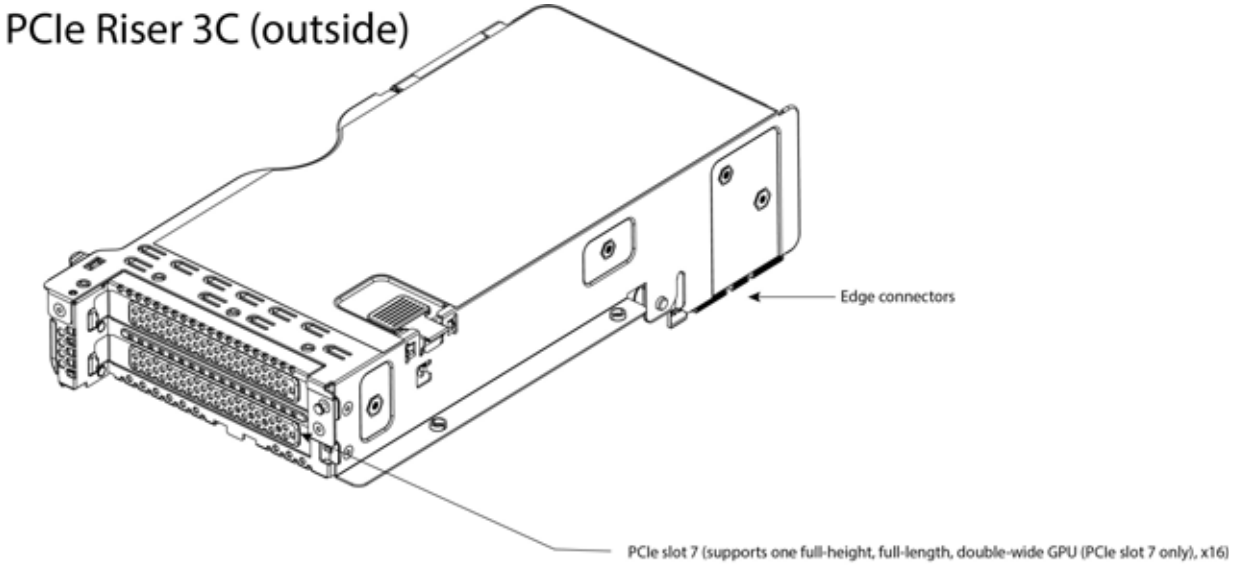
Figure 17 Riser Card 3B



Riser 3C

Riser 3C mechanical information is shown in ***Figure 18***.

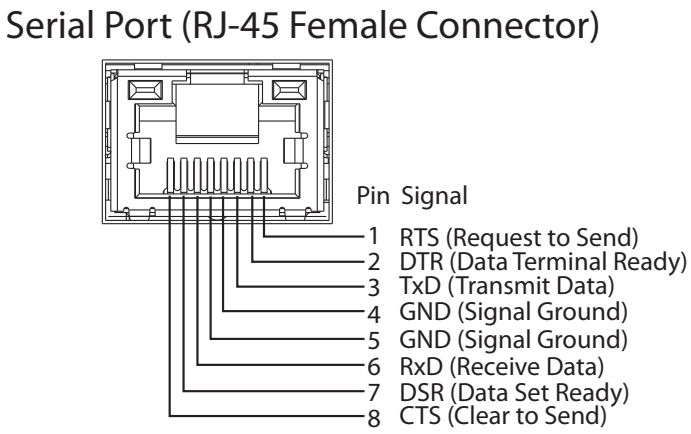
Figure 18 Riser Card 3C



Serial Port Details

The pinout details of the rear RJ-45 serial port connector are shown in ***Figure 19***.

Figure 19 Serial Port (Female RJ-45 Connector) Pinout



KVM Cable

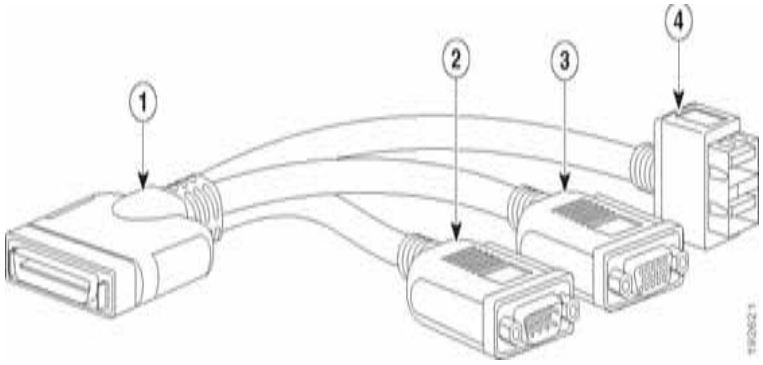
The KVM cable provides a connection into the server, providing a DB9 serial connector, a VGA connector for a monitor, and dual USB 2.0 ports for a keyboard and mouse. With this cable, you can create a direct connection to the operating system and the BIOS running on the server.

The KVM cable ordering information is listed in ***Table 34***.

Table 34 KVM Cable

Product ID (PID)	PID Description
N20-BKVM-D	KVM cable for server console port

Figure 20 KVM Cable



1	Connector (to server front panel)	**3**	VGA connector (for a monitor)
2	DB-9 serial connector	**4**	Two-port USB 2.0 connector (for a mouse and keyboard)

UPGRADING or REPLACING CPUs and Memory

- Refer to Cisco UCS C240 M7 Server Installation and Service Guide to upgrading or replacing the CPUs
- Refer to Cisco UCS C240 M7 Server Installation and Service Guide to upgrading or replacing the Memory

5TH GEN INTEL XEON BENEFIT PILLARS

INTEL® XEON® PROCESSORS → 5TH GEN INTEL® XEON® PROCESSORS

INTEL XEON HEADLINE: Trusted performance. Exceptional efficiency.

5TH GEN INTEL XEON VALUE PROPOSITION:

Get impressive performance per watt gains across all your workloads,[1] plus outsized performance and TCO in AI, database, networking, and HPC.[2] 5th Gen Intel® Xeon® processors deliver more compute and faster memory[3] at the same TDP as the previous generation. It's software- and platform-compatible with the previous generation, so you can minimize testing and validation when deploying new systems.

AI-FOCUSED LEAD MESSAGE: The processor designed for AI

The processor designed for AI With AI acceleration in every core, 5th Gen Intel® Xeon® processors are ready to handle your demanding AI workloads—including inference and fine tuning on models up to 20 billion parameters[4]—before you need to add discrete accelerators.

5TH GEN INTEL XEON BENEFIT PILLARS:

Performance	AI	Efficiency	Quality and security
■ 21% average performance gain at the same TDP as 4th Gen Intel® Xeon® processors[1] ■ Up to 16% memory bandwidth improvement[3] and 2.7x increased last level cache[4] vs. 4th Gen Intel® Xeon® processors ■ 84% average performance gain over 3rd Gen Intel® Xeon® processors[5] ■ Out-of-box software performance using accelerators	■ Less than 100 ms second-token latency on LLMs under 20 billion parameters[6] ■ Up to 2.7x better AI inference performance vs. 4th Gen AMD EPYC processors[7] ■ Up to 14x better AI training and inference performance vs. 3rd Gen Intel® Xeon® processors[8] ■ Software tools and ecosystem to accelerate AI ■ Confidential computing to help protect AI models	■ Up to 10x higher performance per watt using built-in accelerators[9] ■ Up to 3x higher performance per watt with built-in accelerators vs. 4th Gen AMD EPYC processors[10]	■ Software- and pin-compatible with 4th Gen Intel® Xeon® processors ■ Silicon-based security features, confidential computing, and trust services ■ Leading quality and enhanced telemetry ■ Largest ecosystem of hardware and software vendors

Availability of accelerators varies depending on SKU. Visit the **5th Gen Intel Product Information page** for additional product details.

See ***Intel® Xeon® Processors Notices and Disclaimers*** in next page.

Notes:

1. Average performance gain as measured by the geomean of SPEC CPU rate, STREAM Triad, and LINPACK compared to 4th Gen Intel® Xeon® processor. See G1 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.

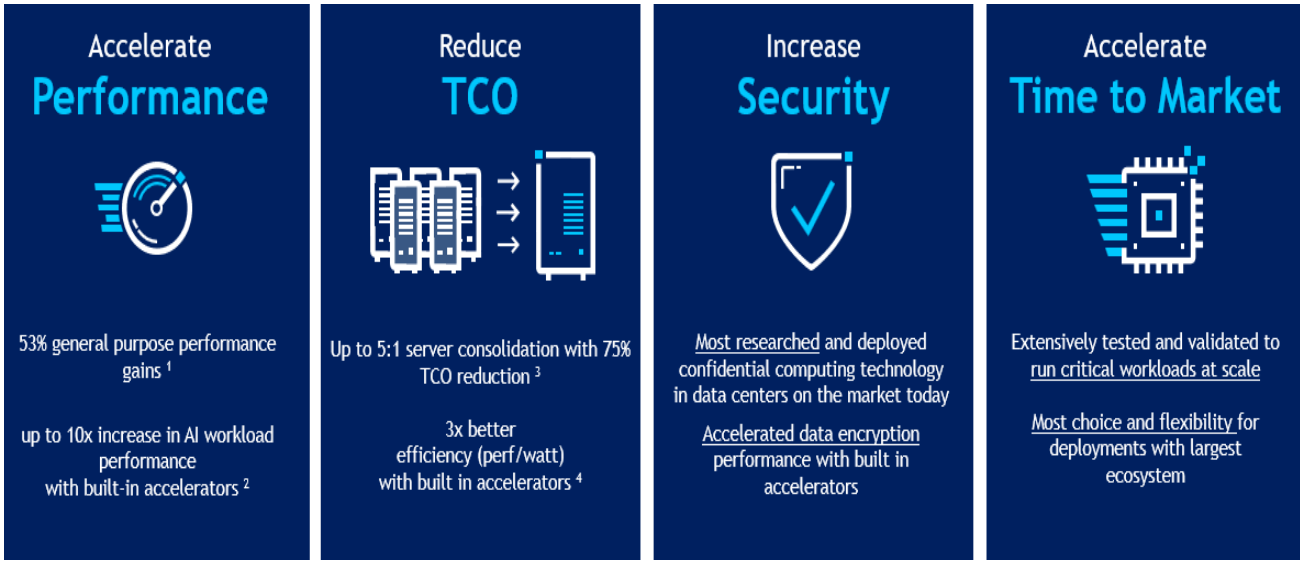
2. As measured by performance per watt on a range of AI, database, networking, and HPC workloads compared to 4th Gen Intel® Xeon® processor. See A2, A19-A25, D1, D2, D5, H1, N16 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
3. See G12 at intel.com/processor claims: 5th Gen Intel Xeon Scalable processors. Results may vary
4. See G11 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
5. Average performance gain as measured by the geomean of SPEC CPU rate, STREAM Triad, and LINPACK compared to 3rd Gen Intel® Xeon® processor. See G3 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
6. Based on Intel internal modelling as of December 2023.
7. Based on performance gains of 1.19x to 2.69x with Intel® Advanced Matrix Extensions (Intel® AMX) for inference on GPT-J, LLaMA-2 13B, DLRM, DistilBERT, BERT-Large, and ResNet50v1.5 compared to AMD EYPC 9654 and 9754. See A201, A202, A208-A211 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
8. Based on performance gains of 4.4x to 14.2x for training (ResNet50v1.5, BERT-Large, SSD-ResNet34, RNN-T, MaskRCNN, and DLRM) and 2.9x to14x for inference (ResNet50v1.5, BERT-Large, SSD-ResNet34, RNN-T (BF16 only), Resnext101 32x16d, MaskRCNN (BF16 only), DistilBERT) compared to 3rd Gen Intel® Xeon® processor. See A15-A16 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
9. Based on performance per watt gains of 1.46x to 10.6x with built-in accelerators on a range of AI, database, and networking workloads. See A19-A25, D1, D2, D5, N16 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
10. Based on performance per watt gains of 1.11x to 2.96x with built-in accelerators on a range of AI, database, networking, and HPC workloads compared to AMD EYPC 9554, 9654, and 9754. See A208-A211, D201-D204, H201, N201 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary

Intel® Xeon® Processors Notices and Disclaimers

- Availability of accelerators varies depending on SKU. Visit the Intel Product Information page for additional product details.
- Performance varies by use, configuration and other factors.
- Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.
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LEADERSHIP PERFORMANCE WITH 4TH GEN INTEL® XEON® PROCESSORS

Improve performance efficiency for critical workloads with the most built-in accelerators.



Availability of accelerators varies depending on SKU. Visit the **4th Gen Intel Product Information page** for additional product details.

See ***Intel® Xeon® Processors Notices and Disclaimers*** in next page.

Notes:

1. Compared to prior generation Intel® Xeon® processor. See [G1] at intel.com/processorclaims: 4th Gen Intel® Xeon® Scalable processors. Results may vary.

2. Compared to prior generation Intel® Xeon® processor. See [A16] and [A17] at intel.com/processorclaims: 4th Gen Intel® Xeon® Scalable processors. Results may vary.

3. Comparing benefits transitioning from Intel® Xeon® 4110 to Intel® Xeon® 5420+. See [E11] at intel.com/processorclaims: 4th Gen Intel® Xeon® Scalable processors. Results may vary.

4. Compared to prior generation Intel® Xeon® processor. See [E1] at intel.com/processorclaims: 4th Gen Intel® Xeon® Scalable processors. Results may vary.

Intel® Xeon® Processors Notices and Disclaimers

- Performance varies by use, configuration and other factors.
- Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.
- Your costs and results may vary.
- Intel technologies may require enabled hardware, software or service activation.
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SPARE PARTS

This section lists the upgrade and service-related parts for the UCS C240 M7 server. Some of these parts are configured with every server.

NOTE: Some spare parts you order may also require accessories for full functionality. For example, drives or RAID controllers may need accompanying cables. CPUs may need heatsinks, thermal paste, and installation tools. The spares and their accessory parts are listed in ***Table 35***.

Table 35 Spare Parts

Product ID (PID)	Description
Risers	
Note: Please note, if you are adding additional risers and raid controller later, you may need to order the accessories with it.	
Option 1	
UCSC-RIS1A-240-D=	C240 M7 Riser 1A PCIe **Gen4** (controlled with CPU1)
UCSC-RIS1B-24XM7=	C240 M7 Riser 1B (controlled with CPU1)
UCSC-RIS1C-24XM7=	C240 M7 Riser 1C PCIe **Gen 5** (controlled with CPU1)
Option 2 (2-CPU must be selected)	
UCSC-RIS2A-240-D=	C240 M7 Riser 2A PCIe **Gen4** (controlled with CPU2)
UCSC-RIS2C-24XM7=	C240 M7 Riser 2C PCIe **Gen5** (controlled with CPU2)
Option 3 (2-CPU must be selected)	
UCSC-RIS3A-240-D=	C240 M7 Riser 3A PCIe **Gen4** (controlled with CPU2)
UCSC-RIS3B-24XM7=	C240 M7 Riser 3B (controlled with CPU2)
UCSC-RIS3C-240-D=	C240 M7 Riser 3C (controlled with CPU2)
Riser accessories	
UCSC-FBRS2-C240-D=	C240 M7 2U Riser2 Filler Blank
UCSC-FBRS3-C240-D=	C240 M7 2U Riser3 Filler Blank
CBL-SASR1B-C24XM7= **Note:** This cable may required, if you order riser PID UCSC-RIS1B-24XM7 and UCSC-RAID-HP for UCSC-C240-M7SX	UCS C-Series M7 2U SAS Cable, RISER1B TO RB 2

Table 35 Spare Parts

Product ID (PID)	Description
CBL-RSASR1B-240-D= **Note:** This cable may required, if you order riser PID UCSC-RIS1B-24XM7 and UCSC-SAS-T-D for UCSC-C240-M7SX	C240M7 2U x2 Rear SAS/SATA cable; (Riser1B)
CBL-SASR3B-C24XM7= **Note:** This cable may required, if you order riser PID UCSC-RIS3B-24XM7 and UCSC-RAID-HP for UCSC-C240-M7SX	UCS C-Series M7 2U SAS Cable, RISER3B TO RB 1
CBL-RSASR3B-240-D= **Note:** This cable may required, if you order riser PID UCSC-RIS3B-24XM7 and UCSC-SAS-T-D or UCSC-RAID-SD-D for UCSC-C240-M7SX	C240M7 2U x2 Rear SAS/SATA cable; (Riser3B)
UCSC-RISAB-24XM7= **Note:** : For systems with GPU configured, airblockers are required on risers. Please refer to the **install guide** for details.	UCS C-Series M7 2U Air Blocker GPU only
CPUs **Note:** If you are ordering a second CPU, see the **CPU Accessories** section in this table for additional parts you may need to order for the second CPU.	
5th Gen. CPUs	
8000 Series Processors	
UCS-CPU-I8581V=	Intel I8581V 1.8GHz/270W 60C/300MB DDR5 4800MT/s
UCS-CPU-I8571N=	Intel I8571N 2.4GHz/300W 52C/300MB DDR5 4800MT/s
UCS-CPU-I8562Y+=	Intel I8562Y+ 2.9GHz/300W 32C/60MB DDR5 5600MT/s
UCS-CPU-I8558U=	Intel I8558U 2GHz/300W 48C/260MB DDR5 4800MT/s
6000 Series Processors	

Table 35 Spare Parts

Product ID (PID)	Description
UCS-CPU-I6554S=	Intel I6554S 2.2GHz/270W 36C/180MB DDR5 5200MT/s
UCS-CPU-I6548Y+=	Intel I6548Y+ 2.5GHz/250W 32C/60MB DDR5 5200MT/s
UCS-CPU-I6548N=	Intel I6548N 2.8GHz/250W 32C/60MB DDR5 5200MT/s
UCS-CPU-I6544Y=	Intel I6544Y 3.7GHz/270W 16C/45MB DDR5 5200MT/s
UCS-CPU-I6542Y=	Intel I6542Y 2.9GHz/250W 24C/60MB DDR5 5200MT/s
UCS-CPU-I6538Y+=	Intel I6538Y+ 2.3GHz/225W 32C/60MB DDR5 5200MT/s
UCS-CPU-I6538N=	Intel I6538N 2.2GHz/205W 32C/60MB DDR5 5200MT/s
UCS-CPU-I6534=	Intel I6534 4GHz/195W 8C/22.5MB DDR5 4800MT/s
UCS-CPU-I6530=	Intel I6530 2.1GHz/270W 32C/160MB DDR5 4800MT/s
UCS-CPU-I6526Y=	Intel I6526Y 2.9GHz/195W 16C/37.5MB DDR5 5200MT/s
5000 Series Processors	
UCS-CPU-I5520+=	Intel I5520+ 2.2GHz/205W 28C/52.5MB DDR5 4800MT/s
UCS-CPU-I5515+=	Intel I5515+ 3.2GHz/165W 8C/22.5MB DDR5 4800MT/s
UCS-CPU-I5512U=	Intel I5512U 2.2GHz/185W 28C/52.5MB DDR5 4800MT/s
4000 Series Processors	
UCS-CPU-I4516Y+=	Intel I4516Y+ 2.2GHz/185W 24C/45MB DDR5 4400MT/s
UCS-CPU-I4514Y=	Intel I4514Y 2GHz/150W 16C/30MB DDR5 4400MT/s
UCS-CPU-I4510T=	Intel I4510T 1.9GHz/115W 12C/30MB DDR5 4400MT/s
UCS-CPU-I4510=	Intel I4510 2.4GHz/150W 12C/30MB DDR5 4400MT/s
UCS-CPU-I4509Y=	Intel I4509Y 2.6GHz/125W 8C/22.5MB DDR5 4400MT/s
3000 Series Processors	
UCS-CPU-I3508U=	Intel I3508U 2GHz/125W 8C/22.5MB DDR5 4400MT/s
4th Gen. CPUs	
8000 Series Processors	
UCS-CPU-I8471N=	Intel I8471N 1.8GHz/300W 52C/97.5MB DDR5 4800MT/s
UCS-CPU-I8470N=	Intel I8470N 1.7GHz/300W 52C/97.5MB DDR5 4800MT/s
UCS-CPU-I8462Y+=	Intel I8462Y+ 2.8GHz/300W 32C/60MB DDR5 4800MT/s
UCS-CPU-I8454H=	Intel I8454H 2.1GHz/270W 32C/82.5MB DDR5 4800MT/s
UCS-CPU-I8452Y=	Intel I8452Y 2GHz/300W 36C/67.5MB DDR5 4800MT/s
UCS-CPU-I8450H=	Intel I8450H 2GHz/250W 28C/75MB DDR5 4800MT/s
UCS-CPU-I8444H=	Intel I8444H 2.9GHz/270W 16C/45MB DDR5 4800MT/s
6000 Series Processors	
UCS-CPU-I6448Y=	Intel I6448Y 2.1GHz/225W 32C/60MB DDR5 4800MT/s
UCS-CPU-I6448H=	Intel I6448H 2.4GHz/250W 32C/60MB DDR5 4800MT/s
UCS-CPU-I6444Y=	Intel I6444Y 3.6GHz/270W 16C/45MB DDR5 4800MT/s
UCS-CPU-I6442Y=	Intel I6442Y 2.6GHz/225W 24C/60MB DDR5 4800MT/s
UCS-CPU-I6438N=	Intel I6438N 2GHz/205W 32C/60MB DDR5 4800MT/s

Table 35 Spare Parts

Product ID (PID)	Description
UCS-CPU-I6434H=	Intel I6434H 3.7GHz/195W 8C/22.5MB DDR5 4800MT/s
UCS-CPU-I6430=	Intel I6430 1.9GHz/270W 32C/60MB DDR5 4400MT/s
UCS-CPU-I6428N=	Intel I6428N 1.8GHz/185W 32C/60MB DDR5 4000MT/s
UCS-CPU-I6426Y=	Intel I6426Y 2.5GHz/185W 16C/37.5MB DDR5 4800MT/s
UCS-CPU-I6421N=	Intel I6421N 1.8GHz/185W 32C/60MB DDR5 4400MT/s
UCS-CPU-I6418H=	Intel I6418H 2.1GHz/185W 24C/60MB DDR5 4800MT/s
UCS-CPU-I6416H=	Intel I6416H 2.2GHz/165W 18C/45MB DDR5 4800MT/s
5000 Series Processors	
UCS-CPU-I5420+=	Intel I5420+ 2GHz/205W 28C/52.5MB DDR5 4400MT/s
UCS-CPU-I5418Y=	Intel I5418Y 2GHz/185W 24C/45MB DDR5 4400MT/s
UCS-CPU-I5418N=	Intel I5418N 1.8GHz/165W 24C/45MB DDR5 4000MT/s
UCS-CPU-I5416S=	Intel I5416S 2GHz/150W 16C/30MB DDR5 4400MT/s
UCS-CPU-I5415+=	Intel I5415+ 2.9GHz/150W 8C/22.5MB DDR5 4400MT/s
UCS-CPU-I5411N=	Intel I5411N 1.9GHz/165W 24C/45MB DDR5 4400MT/s
4000 Series Processors	
UCS-CPU-I4416+=	Intel I4416+ 2GHz/165W 20C/37.5MB DDR5 4000MT/s
UCS-CPU-I4410Y=	Intel I4410Y 2GHz/150W 12C/30MB DDR5 4000MT/s
UCS-CPU-I4410T=	Intel I4410T 2.7GHz/150W 10C/26.25MB DDR5 4000MT/s
3000 Series Processors	
UCS-CPU-I3408U=	Intel I3408U 1.8GHz/125W 8C/22.5MB DDR5 4000MT/s
UCS-CPU-I5411N=	
4000 Series Processors	
UCS-CPU-I4416+=	
UCS-CPU-I4410Y=	
UCS-CPU-I4410T=	
3000 Series Processors	
UCS-CPU-I3408U=	
CPU Accessories	
UCSC-HSHP-C240M7= **Note:** if you are adding a second CPU later, you will need to order this heat sink	UCS C240 M7 Heatsink

Table 35 Spare Parts

Product ID (PID)	Description
UCS-CPU-TIM= **Note:** This part is included with the purchase of spare CPU.Can be ordered separately.	Single CPU thermal interface material syringe for M5 server HS seal[1]
UCS-M6-CPU-CAR= **Note:** This part is included with the purchase of spare CPU.Can be ordered separately.	Spare CPU Carrier for M6
UCS-HSCK= **Note:** This part is included with the purchase of spare CPU.Can be ordered separately.	UCS CPU/Heatsink Cleaning Kit, for up to 4 CPU/heatsink sets
UCS-CPUAT= **Note:** This part is included with the purchase of spare CPU.Can be ordered separately.	CPU Assembly Tool for Servers
UCSC-FAN-C24XM7=	UCS C-Series M7 2U Fan
Memory	
UCS-MRX48G1RF3=	48GB DDR5-5600 RDIMM 1Rx4 (24Gb)
UCS-MRX64G2RE3=	64GB DDR5-5600 RDIMM 2Rx4 (16Gb)
UCS-MRX96G2RF3=	96GB DDR5-5600 RDIMM 2Rx4 (24Gb)
UCS-MR128G2RG3	128GB DDR5-5600 RDIMM 2Rx4 (32Gb)
UCS-MR256G8RE3=	256GB DDR5-5600 RDIMM 8Rx4 (16Gb)
UCS-DDR5-BLK= **Note:** Order this DIMM Blank, if you are not using DIMM slots. Any empty DIMM slot must be populated with a DIMM blank to maintain proper cooling airflow.	UCS DDR5 DIMM Blanks

Table 35 Spare Parts

Product ID (PID)	Description
RAID Controllers	
Note: When ordering additional RAID controllers, you may need to order a cable/supercap to connect from the RAID controller to the motherboard. See the **RAID Controller Accessories** section in this table.	
UCSC-HBA-M1L16=	24G Tri-Mode M1 HBA for 16 Drives
UCSC-HBA-M1L16= 1CPU accessories (note: the below accessories only required if it is not in the system configuration. Must select all option within a single accessory or OPTOUT PID.	
UCSC-HPBKT-24XM7=	UCS C-Series M7 2U HP RAID Controller Bracket
CBL-SAS24-C240M7=	C240M7SX, Cable MB CPU1 P-1 to PB/PR2 & HDD 1-2
CBL-SAS12-C240M7=	C240M7SX, Cable MB CPU1 P-2 to PB/PR1
CBL-SASR1B-C24XM7=	UCS C-Series M7 2U SAS Cable, RISER1B TO RB 2
UCSC-HBA-M1L16= 2CPU accessories (note: the below accessories only required if it is not in the system configuration. Must select all option within a single accessory or OPTOUT PID.	
UCSC-HPBKT-24XM7=	UCS C-Series M7 2U HP RAID Controller Bracket
CBL-NVME-C240M7=	C240M7 NVMe CABLE; MB P-2 to HBPLN (NVMe 1-2)
CBL-SASR1B-C24XM7=	UCS C-Series M7 2U SAS Cable, RISER1B TO RB 2
CBL-SASR3B-C24XM7=	UCS C-Series M7 2U SAS Cable, RISER3B TO RB 1
CBL-SAS-Y-C240M7=	C240M7 SAS Y CABLE; MB to RB, X2
UCSC-RAID-MP1L32=	24G Tri-Mode MP1 RAID Controller w/4GB FBWC 32Drv w/2U Brkt
UCSC-RAID-MP1L32= accessories (note: the below accessories only required if it is not in the system configuration. Must select all option within a single accessory or OPTOUT PID.	
UCSC-SDBKT-24XM7=	UCS C-Series M7 2U SD RAID Controller Bracket
CBL-SASR1B-C24XM7=	UCS C-Series M7 2U SAS Cable, RISER1B TO RB 2
CBL-SASR3B-C24XM7=	UCS C-Series M7 2U SAS Cable, RISER3B TO RB 1
CBL-NVME-C240M7=	C240M7 NVMe CABLE; MB P-2 to HBPLN (NVMe 1-2)
CBL-SAS-Y-C240M7=	C240M7 SAS Y CABLE; MB to RB, X2
UCSC-RAID-HP=	**Cisco Tri-Mode 24G SAS RAID Controller w/4GB Cache**
UCSC-RAID-HP= accessories (note: the below accessories only required if it is not in the system configuration. Must select all option within a single accessory or OPTOUT PID.	
UCS-SCAP-D=	M7 SuperCap
CBL-SCAP-C240-D=	C240M7 2U Super Cap cable
CBL-SAS-Y-C240M7=	C240M7 SAS Y CABLE; MB to 24G SAS RAID Controller, X2
UCSC-HPBKT-24XM7=	UCS C-Series M7 2U HP RAID Controller Bracket
UCSC-OPTOUT=	Opt out from Ordering Accessories
UCSC-RAID-SD-D=	Cisco 12G SAS RAID Controller with 4GB FBWC (28 Drives)
UCSC-RAID-SD-D= accessories (note: the below accessories only required if it is not in the system configuration. Must select all option within a single accessory or OPTOUT PID.	
UCS-SCAP-D=	M7 SuperCap
CBL-SCAP-C240-D=	C240M7 2U Super Cap cable
CBL-SDSAS-C240M7=	C240M7 SAS Cable, CPU1 P-1 TO SAS RAID Controller

Table 35 Spare Parts

Product ID (PID)	Description
UCSC-SDBKT-24XM7=	UCS C-Series M7 2U SD RAID Controller Bracket
UCSC-OPTOUT=	Opt out from Ordering Accessories
UCSC-SAS-T-D=	**Cisco M6 12G SAS HBA for (16 Drives)**
UCSC-SAS-T-D= accessories (note: the below accessories only required if it is not in the system configuration. Must select all option within a single accessory or OPTOUT PID.	
UCSC-RDBKT-24XM7=	UCS C-Series M7 2U RAID/HBA Controller Bracket
CBL-SAS12-C240M7=	C240M7SX, Cable MB CPU1 P-2 to PB/PR1
CBL-SAS24-C240M7=	C240M7SX, Cable MB CPU1 P-1 to PB/PR2 & HDD 1-2
UCSC-OPTOUT=	Opt out from Ordering Accessories
UCSC-RAID-M1L16=	24G Tri-Mode M1 RAID Controller w/4GB FBWC 16Drv
Controller for External Drives	
UCSC-9500-8E-D=	9500 Series PCIe Gen 4.0 Tri-Mode Storage HBA 12Gb/s SAS/SATA/PCIe (NVMe)
Drives **Note:** If you decide to add front-facing NVMe drives later, you may need to order the drives as spare and also an NVMe cable (PID: CBL-NVME-C240M7= or CBL-FNVME-C240M7=). Spare NVMe cables supports depends on the drive controller installing/installed in the system. See the **Drive Cables** section in this table.	
PCIe/NVMe SFF (2.5-inch) SFF drives	
UCS-NVMEQ-1536-D=	15.3TB 2.5in U.2 P5316 NVMe High Perf Low Endurance
UCS-NVB1T6O1P=	1.6TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe
UCS-NVB3T8O1V=	3.8TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe
UCS-NVB7T6O1V=	7.6TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe
UCS-NVB15TO1V=	15.3TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe
UCS-NVB3T2O1P=	3.2TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe
UCS-NVB6T4O1P=	6.4TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe
UCS-NVB1T9O1V=	1.9TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe
UCS-NVB15T3O1L=	15.3TB 2.5in U.2 15mm SolidigmP5316 HgPerf LowEnd <0.5X NVMe
UCS-NVB12T8O1P=	12.8TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe
UCS-NVMEG4-M1536D=	15.3TB 2.5in U.3 MicronP7450 NVMe High Perf Medium Endurance
UCS-NVMEG4-M6400D=	6.4TB 2.5in U.3 Micron P7450 NVMe High Perf High Endurance
UCS-NVB3T8M2V9=	3.8TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS
UCS-NVB7T6M2V9=	7.6TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS
UCS-NVB15T3M2V9=	15.3TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS
UCS-NVB960M2V=	960GB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe
UCS-NVB1T9M2V=	1.9TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe
UCS-NVB3T2M2P=	3.2TB 2.5in U.3 15mm Micron 7500 Hg Perf Hg End 3X NVMe
UCS-NVB3T8M2V=	3.8TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe
UCS-NVB7T6M2V=	7.6TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe
UCS-NVB1T6M2P=	1.6TB 2.5in U.3 15mm Micron 7500 Hg Perf Hg End 3X NVMe

Table 35 Spare Parts

Product ID (PID)	Description
HDDs	
HDDs (10K RPM)	
UCS-HD600G10KJ4-D=	600 GB 12G SAS 10K RPM SFF HDD
UCS-HD12TB10KJ4-D=	1.2 TB 12G SAS 10K RPM SFF HDD
UCS-HD18TB10KJ4-D=	1.8 TB 12G SAS 10K RPM SFF HDD (4K)
UCS-HD24TB10KJ4-D=	2.4 TB 12G SAS 10K RPM SFF HDD (4K)
UCS-HD300G10KJ4-D=	300GB 12G SAS 10K RPM SFF HDD
Enterprise Performance SAS/SATA SSDs (High endurance, supports up to 10X or 3X DWPD (drive writes per day))	
SATA	
UCS-SD19T63X-EP-D=	1.9 TB 2.5in Enterprise performance 6G SATA SSD(3X endurance)
UCS-SD480GBM3XEPD=	480GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)
UCS-SD960GBM3XEPD=	960GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)
UCS-SD19TBM3XEP-D=	1.9TB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)
UCS-SDB960OA1P=	960GB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD
UCS-SDB3T8OA1V=	3.8TB 2.5in 15mm Solidigm S4520 Enter Value 6G SATA 1X SSD
UCS-SDB3T8OA1P=	3.8TB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD
UCS-SDB480OA1P=	480GB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD
UCS-SDB1T9OA1P=	1.9TB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD
SAS	
UCS-SD16TKA3XEP-D=	1.6TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X)
UCS-SD32TKA3XEP-D=	3.2TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X)
Enterprise Value SAS/SATA SSDs (Low endurance, supports up to 1X DWPD (drive writes per day))	
SATA	
UCS-SD240GBM1XEVD=	240GB 2.5in Enter Value 6G SATA Micron G2 SSD
UCS-SD480GBM1XEVD=	480 GB 2.5in Enter Value 6G SATA Micron G2 SSD
UCS-SD960GBM1XEVD=	960GB 2.5in Enter Value 6G SATA Micron G2 SSD
UCS-SD16TBM1XEV-D=	1.6TB 2.5in Enter Value 6G SATA Micron G2 SSD
UCS-SD19TBM1XEV-D=	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD
UCS-SD38TBM1XEV-D=	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD
UCS-SD76TBM1XEV-D=	7.6TB 2.5in Enter Value 6G SATA Micron G2 SSD
UCS-SDB960SA1VD=	960GB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD
UCS-SDB1T9SA1VD=	1.9TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD
UCS-SDB3T8SA1VD=	3.8TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD
UCS-SDB7T6SA1VD=	7.6TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD
UCS-SDB480OA1V=	480GB 2.5in 15mm Solidigm S4520 Enter Value 6G SATA 1X SSD
SAS	
UCS-SD19TKA1XEV-D=	1.9TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1X)
UCS-SD38TKA1XEV-D=	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1X)
UCS-SD76TKA1XEV-D=	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1X)

Table 35 Spare Parts

Product ID (PID)	Description
UCS-SD15TKA1XEV-D=	15.3TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (1X)
UCS-SD38TS1X-EV-D =	3.8TB 2.5in Enter Value 12G SAS Seagate SSD
Self-Encrypted Drives (SED) (1X or 3X)	
SAS	
UCS-SD960GBKNK9-D=	960GB Enterprise Value SAS SSD (1X DWPD, SED) **FIPS140-2**
UCS-SD76TBKNK9-D=	7.6TB Enterprise value SAS SSD (1X DWPD, SED-FIPS) **FIPS140-2**
UCS-SD16TBKANK9-D=	1.6TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X SED-FIPS) **FIPS140-2**
UCS-SD38TBKANK9-D=	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS) **FIPS140-2**
UCS-SD76TBKANK9-D=	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS) **FIPS140-2**
UCS-SD960GM2NK9-D=	960GB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)
UCS-SD19TEM2NK9-D=	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)
UCS-SD38TEM2NK9-D=	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)
UCS-SD76TEM2NK9-D=	7.6TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)
Drive Cables	
CBL-NVME-C240M7=  **Note:** You may need this cable if you are adding front NVMe drives to UCSC-C240-M7SX. This cable is required if front NVMe Qty is 1-4, and the system is configured with UCSC-RAID-HP or UCSC-RAID-SD-D.	C240M7 NVMe CABLE; MB P-2 to HBPLN (NVMe 1-2)
CBL-FNVME-C240M7=  **Note:** You may need this cable if you are adding front NVMe drives to UCSC-C240-M7SX. This cable is required if front NVMe Qty is 3 or 4	C240M7 NVMe CABLE, MB P-4 to BP (NVMe 3-4)
CBL-SAS12-C240M7=  **Note:** Order this cable if you are adding UCSC-SAS-T-D to the server.	C240M7SX, Cable MB CPU1 P-2 to PB/PR1

Table 35 Spare Parts

Product ID (PID)	Description
CBL-SAS24-C240M7= **Note:** Order this cable if you are adding UCSC-SAS-T-D to the server, or if you are adding front NVMe to the system without RAID controllers	C240M7SX, Cable MB CPU1 P-1 to PB/PR2 & HDD 1-2
CBL-SCAPSD-C240-D=	CBL Super Cap for PB+ C240 M7
Drive Blanking Panel	
UCSC-BBLKD-M7=	UCS C-Series M7 SFF drive blanking panel
M.2 SATA SSD and M.2 RAID controller	
UCS-M2-240G-D=	240GB M.2 SATA Micron G2 SSD
UCS-M2-480G-D=	480GB M.2 SATA SSD
UCS-M2-960G-D=	960GB M.2 SATA Micron G2 SSD
UCS-M2240OA1V=	240GB M.2 Boot Solidigm S4520 SATA 1X SSD
UCS-M2480OA1V=	480GB M.2 Boot Solidigm S4520 SATA 1X SSD
UCS-M2-HWRAID-D=	Cisco Boot optimized M.2 RAID controller (holds up to two M.2 SATA SSDs)
UCSC-M2EXT-240-D =	C240M7 2U M.2 Extender board
M.2 NVMe and M.2 RAID controller	
UCS-NVM2-400GB	400GB M.2 Boot NVMe
UCS-NVM2-960GB	960GB M.2 Boot NVMe
UCS-M2-NVRAID	Cisco M.2 NVMe BOOT RAID Controller (HHHL)
PCIe Cards	
Modular LAN on Motherboard (mLOM)	
UCSC-M-V5Q50GV2-D=	Cisco VIC 15427 4x 10/25/50G mLOM C-Series w/Secure Boot[5]
UCSC-M-V5D200GV2D=	Cisco VIC 15237 2x 40/100/200G mLOM C-Series w/Secure Boot[5]
Open Compute Project (OCP)[2]	
UCSC-O-ID10GC-D=	Intel X710T2LOCPV3G1L 2x10GbE RJ45 OCP 3.0 NIC
UCSC-O-N6CD100GFD=	Cisco-NVDA MCX623436AC-CDAB CX6Dx 2x100G QSFP56 x16 OCP NIC
UCSC-O-N6CD25GFD=	Cisco-NVDA MCX631432AC-ADAB CX6Lx 2x25G SFP28 x8 OCP NIC
UCSC-O-N6CD25GFO=	NVIDIA OEM MCX631432AC-ADAB CX6Lx 2x25G SFP28 x8 OCP NIC
UCSC-O-N6CD100GFO=	NVIDIA OEM MCX623436AC-CDAB CX6Dx 2x100G QSFP56 x16 OCP NIC
Virtual Interface Cards (VICs)	
UCSC-P-V5Q50G-D=	Cisco VIC 15425 4x 10/25/50G PCIe C-Series w/Secure Boot[5]
UCSC-P-V5D200G-D=	Cisco VIC 15235 2x 40/100/200G PCIe C-Series w/Secure Boot[5]
Network Interface Cards (NICs)	
1GbE NICs	

Table 35 Spare Parts

Product ID (PID)	Description
UCSC-P-IQ1GC=	Cisco-Intel I710-T4L 4x1GBASE-T NIC
10GbE NICs	
UCSC-PCIEID10GF-D=	Intel X710-DA2 Dual Port 10Gb SFP+ NIC
UCSC-PCIEIQ10GF-D=	Intel X710 quad-port 10G SFP+ NIC
UCSC-P-ID10GC-D=	Cisco-Intel X710T2LG 2x10GBE RJ45 PCIe NIC
UCSC-P-IQ10GC-D=	Cisco-Intel X710T4LG 4x10GBE RJ45 PCIe NIC
25GbE NICs	
UCSC-P-N6D25GFO=	NVIDIA OEM MCX631102AS-ADAT CX6Lx 2x25GbE SFP28 x8 PCIe NIC
UCSC-P-I8D25GF-D=	Cisco-Intel E810XXVDA2 2x25/10GBE SFP28 PCIe NIC
UCSC-P-I8Q25GF-D=	Cisco-Intel E810XXVDA4L 4x25/10GBE SFP28 PCIe NIC
UCSC-P-N7Q25GF=	MCX713104AS-ADAT: CX-7 4x25GbE SFP56 PCIe Gen4x16, VPI NIC
UCSC-P-N7Q25GFO=	NVIDIA OEM CX713104AS-ADAT: 4x25GbE SFP56 Gen4x16, PCIe NIC
100GbE NICs	
UCSC-P-MCD100GF-D=	Cisco-MLNX MCX623106AC-CDAT 2x100GbE QSFP56 PCIe NIC (with Crypto)
UCSC-P-I8D100GF-D=	Cisco-Intel E810CQDA2 2x100 GbE QSFP28 PCIe NIC
UCSC-P-M6CD100GFO=	NVIDIA OEM MCX623106AC-CDAT, 2x100 GbE QSFP56 PCIe Crypto
UCSC-P-M6DD100GFO =	NVIDIA OEM MCX623106AS-CDAT, 2x100 GbE QSFP56 PCIe No Crypto
200GbE NICs	
UCSC-P-N7D200GFO=	NVIDIA OEM MCX755106AS-HEAT 2x200GbE QSFP112 PCIe Gen5 NIC
UCSC-P-N3220L=	Nvidia OEM BlueField-3 B3220L SuperNIC 2x200G
UCSC-P-N3220=	Nvidia OEM BlueField-3 B3
Host Bus Adapters (HBAs)	
UCSC-P-Q6D32GF-D=	Cisco-QLogic QLE2772 2x32GFC Gen 6 Enhanced PCIe HBA
UCSC-P-B7D32GF-D=	Cisco-Emulex LPe35002-M2-2x32GFC Gen 7 PCIe HBA
UCSC-PCIEQD16GF-D=	Qlogic QLE2692 dual-port 16G FC HBA
UCSC-PCIEBD16GF-D	Emulex LPe31002 dual port 16G FC HBA
UCSC-P-Q7D64GF	Cisco-QLogic QLE2872, 2x64GFC Gen 7 PCIe HBA
GPUs ■ If the system was previously configured as GPU ready node, low profile heatsink and GPU air baffles are already included. Customer may need order airblockers to install on the risers. ■ If you are adding GPUs later to non GPU ready configuration, you need to order the GPU kit (UCSC-GPUKIT-240M7=) along with GPUs, this GPU kit includes 2x low profile heatsinks, 1x GPU airduct, 2x thermal paste and 2x GPU airblockers.	
UCSC-GPU-A30-D=	TESLA A30, PASSIVE, 180W, 24GB
UCSC-GPU-A40-D=	TESLA A40 RTX, PASSIVE, 300W, 48GB
UCSC-GPU-A16-D=	NVIDIA A16 PCIE 250W 4X16GB
UCSC-GPU-FLEX170=	Intel GPU Flex 170, Gen4x16, FHFL, 150W PCIe
UCSC-GPU-H100-80=	NVIDIA H100: 350W, 80GB, 2-slot FHFL GPU
UCSC-GPU-L40S=	NVIDIA L40S: 350W, 48GB, 2-slot FHFL GPU

Table 35 Spare Parts

Product ID (PID)	Description
UCSC-GPU-L4=	NVIDIA L4:70W, 24GB, 1-slot HHHL GPU
UCSC-GPUKIT-240M7=	GPU Accessories kit for C240M7
GPU Accessories	
UCSC-HSLP-C220M7=	UCS C220 M7 Heatsink & C240 GPU Heatsink
UCSC-RISAB-24XM7=	UCS C-Series M7 2U Air Blocker GPU only
UCSC-GPUAD-C240M7=	GPU AIR DUCT FOR C240M7
UCS-P100CBL-240-D=	C240 NVIDIA P100 /A100 /A40 / A16 / A30 Cable
UCS-M10CBL-C240M7=	C240 GPU Power Cable for the UCSC-GPU-FLEX170
CBL-G5GPU-C240M7=	C240M7 PCIe CEM compliant 12VHPWR power cable (upto 450W)
CBL-L40GPU-C240M7=	C240M7 PCIe CEM compliant 12VHPWR power cable (upto 300W)
GPU License	
NV-GRDWK-1-D5S=	Quadro Perpetual Lic - NVIDIA vDWS 1CCU; 5Yr SUMS Req
NV-GRDVA-1-D5S=	GRID Perpetual Lic - NVIDIA VDI APPs 1CCU; 5Yr SUMS Reqd
NV-GRDPC-1-D5S=	GRID Perpetual Lic - NVIDIA VDI PC 1CCU; 5Yr SUMS Reqd
NV-GRD-EDP-D5S=	EDU - Quadro Perpetual Lic - NVIDIA vDWS 1CCU; 5Yr SUMS Reqd
NV-GRID-WKP-D5YR=	NVIDIA Quadro Production SUMS - vDWS 1CCU - 5 Year
NV-GRID-VAP-D5YR=	NVIDIA GRID Production SUMS - VDI Apps 1CCU - 5 Year
NV-GRID-PCP-D5YR=	NVIDIA GRID Production SUMS - VDI PC 1CCU - 5 Year
NV-GRID-EDP-D5YR=	EDU - NVIDIA Quadro vDWS Production SUMS - 1CCU - 5 Year
NV-GRID-WKS-D1YR=	NVIDIA Quadro SW Subscription - vDWS 1CCU - 1 Year
NV-GRID-WKS-D3YR=	NVIDIA Quadro SW Subscription - vDWS 1CCU - 3 Year
NV-GRID-WKS-D4YR=	NVIDIA Quadro SW Subscription - vDWS 1CCU - 4 Year
NV-GRID-WKS-D5YR=	NVIDIA Quadro SW Subscription - vDWS 1CCU - 5 Year
NV-GRID-PCS-D1YR=	NVIDIA GRID Software Subscription - VDI PC 1CCU - 1 Year
NV-GRID-PCS-D3YR=	NVIDIA GRID Software Subscription - VDI PC 1CCU - 3 Year
NV-GRID-PCS-D4YR=	NVIDIA GRID Software Subscription - VDI PC 1CCU - 4 Year
NV-GRID-PCS-D5YR=	NVIDIA GRID Software Subscription - VDI PC 1CCU - 5 Year
NV-GRID-VAS-D1YR=	NVIDIA GRID Software Subscription - VDI Apps 1CCU - 1 Year
NV-GRID-VAS-D3YR=	NVIDIA GRID Software Subscription - VDI Apps 1CCU - 3 Year
NV-GRID-VAS-D4YR=	NVIDIA GRID Software Subscription - VDI Apps 1CCU - 4 Year
NV-GRID-VAS-D5YR=	NVIDIA GRID Software Subscription - VDI Apps 1CCU - 5 Year
NV-GRID-EDS-D1YR=	EDU - NVIDIA Quadro vDWS SW Subscription - 1CCU - 1 Year
NV-GRID-EDS-D3YR=	EDU - NVIDIA Quadro vDWS SW Subscription - 1CCU - 3 Year
NV-GRID-EDS-D4YR=	EDU - NVIDIA Quadro vDWS SW Subscription - 1CCU - 4 Year
NV-GRID-EDS-D5YR=	EDU - NVIDIA Quadro vDWS SW Subscription - 1CCU - 5 Year
NV-VCS-D1Y=	NVIDIA vCompute Server Subscription - 1 GPU - 1 Year
NV-VCS-D3Y=	NVIDIA vCompute Server Subscription - 1 GPU - 3 Year
NV-VCS-D5Y=	NVIDIA vCompute Server Subscription - 1 GPU - 5 Year

Table 35 Spare Parts

Product ID (PID)	Description
Power Supply	
PSU (Input High Line 210VAC)	
UCSC-PSUV21050D-D=	Cisco UCS 1050W -48V DC Power Supply for Rack Server **Platinum**
UCSC-PSU1-1200W-D=	1200W Titanium power supply for C-Series Servers **Titanium**
UCSC-PSU1-1600W-D=	UCS 1600W AC PSU Platinum (Not EU/UK Lot 9 Compliant)
UCSC-PSU1-2300W-D=	2300W Power supply for C-series servers **Titanium**
PSU (Input Low Line 110VAC)	
UCSC-PSU1-1200W-D=	1200W Titanium power supply for C-Series Servers **Titanium**
UCSC-PSU1-2300W-D=	2300W Power supply for C-series servers **Titanium**
Power Cords	
NO-POWER-CORD=	ECO friendly green option, no power cable will be shipped
CAB-48DC40A8AWG-D=	C-Series -48VDC PSU Power Cord, 3.5M, 3 Wire, 8AWG, 40A
CAB-N5K6A-NA=	Power Cord, 200/240V 6A, North America
CAB-AC-L620-C13-D=	AC Power Cord, NEMA L6-20 - C13, 2M/6.5ft
CAB-C13-CBN=	CABASY,WIRE,JUMPER CORD, 27" L, C13/C14, 10A/250V
CAB-C13-C14-2M=	CABASY,WIRE,JUMPER CORD, PWR, 2 Meter, C13/C14,10A/250V
CAB-C13-C14-AC=	CORD,PWR,JMP,IEC60320/C14,IEC6 0320/C13, 3.0M
CAB-250V-10A-AR=	Power Cord, 250V, 10A, Argentina
CAB-9K10A-AU=	Power Cord, 250VAC 10A 3112 Plug, Australia
CAB-250V-10A-CN=	AC Power Cord - 250V, 10A - PRC
CAB-9K10A-EU=	Power Cord, 250VAC 10A CEE 7/7 Plug, EU
CAB-250V-10A-ID=	Power Cord, 250V, 10A, India
CAB-C13-C14-3M-IN=	Power Cord Jumper, C13-C14 Connectors, 3 Meter Length, India
CAB-C13-C14-IN=	Power Cord Jumper,C13-C14 Connectors,1.4 Meter Length, India
CAB-250V-10A-IS=	Power Cord, SFS, 250V, 10A, Israel
CAB-9K10A-IT=	Power Cord, 250VAC 10A CEI 23-16/VII Plug, Italy
CAB-9K10A-SW=	Power Cord, 250VAC 10A MP232 Plug, Switzerland
CAB-9K10A-UK=	Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK
CAB-9K12A-NA=	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America
CAB-250V-10A-BR =	Power Cord - 250V, 10A - Brazil
CAB-C13C142M-JP-D=	Power Cord C13-C14, 2M/6.5ft Japan PSE mark
CAB-9K10A-KOR=	Power Cord, 125VAC 13A KSC8305 Plug, Korea
CAB-ACTW=	AC Power Cord (Taiwan), C13, EL 302, 2.3M
CAB-JPN-3PIN=	Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m
CAB-48DC40A-INT-D=	C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (INT)
CAB-48DC-40A-AS-D=	C-Series -48VDC PSU PWR Cord, 3.5M, 3Wire, 8AWG, 40A (AS/NZ)
CAB-C19-CBN=	Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors
CAB-S132-C19-ISRL=	S132 to IEC-C19 14ft Israeli

Table 35 Spare Parts

Product ID (PID)	Description
CAB-IR2073-C19-AR=	IRSM 2073 to IEC-C19 14ft Argen
CAB-BS1363-C19-UK=	BS-1363 to IEC-C19 14ft UK
CAB-SABS-C19-IND=	SABS 164-1 to IEC-C19 India
CAB-C2316-C19-IT=	CEI 23-16 to IEC-C19 14ft Italy
CAB-L520P-C19-US =	NEMA L5-20 to IEC-C19 6ft US
CAB-US515P-C19-US=	NEMA 5-15 to IEC-C19 13ft US
CAB-US520-C19-US=	NEMA 5-20 to IEC-C19 14ft US
CAB-US620P-C19-US =	NEMA 6-20 to IEC-C19 13ft US
Rail Kit	
UCSC-RAIL-D=	Ball Bearing Rail Kit for C220 & C240 M6/M7 rack servers
UCSC-RAIL-NONE-D=	No rail kit option
UCSC-CMA-C240-D=	Reversible CMA for C240 M6/M7 ball bearing rail kit
Security	
UCSC-DLOM-01-D=	Dedicated Mode BIOS setting for C-Series Servers
UCSC-CCARD-01-D=	Cisco Card Mode BIOS setting for C-Series Servers
UCS-TPM-002C-D=	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers
UCS-TPM-002D-D=	TPM 2.0 TCG FIPS140-2 CC+ Cert M7 Intel MSW2022 Compliant
UCSC-INT-SW02-D=	C220 and C240 M7 Chassis Intrusion Switch
UCS-TPM-OPT-OUT-D=	OPT OUT, TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified
UCSC-BZL-C240-D=	C240 M7 Security Bezel
Operating system and Software	
Microsoft Windows Server	
MSWS-22-ST16CD =	Windows Server 2022 Standard (16 Cores/2 VMs)
MSWS-22-ST16CD-NS=	Windows Server 2022 Standard (16 Cores/2 VMs) - No Cisco SVC
MSWS-22-DC16CD=	Windows Server 2022 Data Center (16 Cores/Unlimited VMs)
MSWS-22-DC16CD-NS=	Windows Server 2022 DC (16 Cores/Unlim VMs) - No Cisco SVC
MSWS-19-ST16CD=	Windows Server 2019 Standard (16 Cores/2 VMs)
MSWS-19-ST16CD-NS=	Windows Server 2019 Standard (16 Cores/2 VMs) - No Cisco SVC
MSWS-19-DC16CD=	Windows Server 2019 Data Center (16 Cores/Unlimited VMs)
MSWS-19-DC16CD-NS=	Windows Server 2019 DC (16 Cores/Unlim VMs) - No Cisco SVC
Red Hat	
RHEL-2S2V-D1A=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req
RHEL-2S2V-D3A=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 3-Yr Support Req
RHEL-2S2V-D5A=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 5-Yr Support Req
RHEL-VDC-2SUV-D1A=	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 1 Yr Supp Req
RHEL-VDC-2SUV-D3A=	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 3 Yr Supp Req
RHEL-VDC-2SUV-D5A=	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 5 Yr Supp Req
Red Hat Ent Linux/ High Avail/ Res Strg/ Scal	
RHEL-2S2V-D1S=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); Prem 1Yr SnS Reqd

Table 35 Spare Parts

Product ID (PID)	Description
RHEL-2S2V-D3S=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); Prem 3Yr SnS Reqd
RHEL-2S-HA-D1S=	RHEL High Availability (1-2 CPU); Premium 1-yr SnS Reqd
RHEL-2S-HA-D3S=	RHEL High Availability (1-2 CPU); Premium 3-yr SnS Reqd
RHEL-2S-RS-D1S=	RHEL Resilent Storage (1-2 CPU); Premium 1-yr SnS Reqd
RHEL-2S-RS-D3S=	RHEL Resilent Storage (1-2 CPU); Premium 3-yr SnS Reqd
RHEL-VDC-2SUV-D1S=	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 1 Yr SnS Reqd
RHEL-VDC-2SUV-D3S=	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 3 Yr SnS Reqd
Red Hat SAP	
RHEL-SAP-2S2V-D1S=	RHEL for SAP Apps (1-2 CPU, 1-2 VN); Prem 1-Yr SnS Reqd
RHEL-SAP-2S2V-D3S=	RHEL for SAP Apps (1-2 CPU, 1-2 VN); Prem 3-Yr SnS Reqd
RHEL-SAPSP-D3S=	RHEL SAP Solutions Premium - 3 Years
RHEL-SAPSS-D3S=	RHEL SAP Solutions Standard - 3 Years
SUSE	
SLES-2S2V-D1A=	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); 1-Yr Support Req
SLES-2S2V-D3A=	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); 3-Yr Support Req
SLES-2S2V-D5A=	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); 5-Yr Support Req
SLES-2SUVM-D1A=	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; 1Y Supp Req
SLES-2SUVM-D3A=	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; 3Y Supp Req
SLES-2SUVM-D5A=	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; 5Y Supp Req
SLES-2S-LP-D1A=	SUSE Linux Live Patching Add-on (1-2 CPU); 1yr Support Req
SLES-2S-LP-D3A=	SUSE Linux Live Patching Add-on (1-2 CPU); 3yr Support Req
SLES-2S2V-D1S=	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); Prio 1-Yr SnS
SLES-2S2V-D3S=	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); Prio 3-Yr SnS
SLES-2S2V-D5S=	SUSE Linux Enterprise Svr (1-2 CPU,1-2 VM); Prio 5-Yr SnS
SLES-2SUVM-D1S=	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; Prio 1Y SnS
SLES-2SUVM-D3S=	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; Prio 3Y SnS
SLES-2SUVM-D5S=	SUSE Linux Enterprise Svr (1-2 CPU,Unl VM) LP; Prio 5Y SnS
SLES-2S-HA-D1S=	SUSE Linux High Availability Ext (1-2 CPU); 1yr SnS
SLES-2S-HA-D3S=	SUSE Linux High Availability Ext (1-2 CPU); 3yr SnS
SLES-2S-HA-D5S=	SUSE Linux High Availability Ext (1-2 CPU); 5yr SnS
SLES-2S-GC-D1S=	SUSE Linux GEO Clustering for HA (1-2 CPU); 1yr Sns
SLES-2S-GC-D3S=	SUSE Linux GEO Clustering for HA (1-2 CPU); 3yr SnS
SLES-2S-GC-D5S=	SUSE Linux GEO Clustering for HA (1-2 CPU); 5yr SnS
SLES-2S-LP-D1S=	SUSE Linux Live Patching Add-on (1-2 CPU); 1yr SnS Required
SLES-2S-LP-D3S=	SUSE Linux Live Patching Add-on (1-2 CPU); 3yr SnS Required
SLES and SAP	
SLES-SAP-2S2V=-D1S=	SLES for SAP Apps (1-2 CPU, 1-2 VM); Priority 1-Yr SnS
SLES-SAP-2S2V-D3S=	SLES for SAP Apps (1-2 CPU, 1-2 VM); Priority 3-Yr SnS
SLES-SAP-2S2V-D5S=	SLES for SAP Apps (1-2 CPU, 1-2 VM); Priority 5-Yr SnS
SLES-SAP-2S2V-D1A=	SLES for SAP Apps w/ HA (1-2 CPU, 1-2 VM); 1-Yr Support Reqd
SLES-SAP-2S2V-D3A=	SLES for SAP Apps w/ HA (1-2 CPU, 1-2 VM); 3-Yr Support Reqd

Table 35 Spare Parts

Product ID (PID)	Description
SLES-SAP-2S2V-D5A=	SLES for SAP Apps w/ HA (1-2 CPU, 1-2 VM); 5-Yr Support Reqd

Notes:

1. This part is included with the purchase of option or spare CPU or CPU processor kits.
2. For installation in the mLOM slot, you can order either an mLOM VIC, or the OCP NIC - but not both. If ordering the OCP NIC, the OCP Mechanical Kit (UCSC-OCP3-KIT-D) must also be installed in order to mount OCP NIC in the mLOM slot.

TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 36 UCS C240 M7 Dimensions and Weight

Parameter	Value
Height	3.42 in. (8.7 cm)
Width (including slam latches)	16.9 in.(42.9 cm)
Depth	30 in. (76.2 cm)
Weight	
Weight with following options and no rail kit: 0* HDDs, 0* CPU (with Heat sink), 0* DIMM, 1* 2300W PSU, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	18.6 kgs = 41.01 lbs (NVMe SKU)
Weight with following options and including rail kit: 0* 2.5 HDDs, 0* CPU (with Heat sink), 0* DIMM, 1* 2300W PSU, mLOM, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	22.3 kgs = 49.16 lbs (NVMe SKU)
Weight with following options and no rail kit: 1* HDD, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	19.4 kgs = 42.77 lbs (NVMe SKU)
Weight with following options and including rail kit: 1* 2.5 HDDs, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, mLOM, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	23.1 kgs = 50.93 lbs (NVMe SKU)
Weight with following options and no rail kit: 8* HDDs, 2* CPUs (with Heat sink), 32* DIMMs, 2* 2300W PSUs, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	23.5 kgs = 51.81 lbs (NVMe SKU)
Weight with following options and including rail kit: 8* 2.5 HDDs, 2* CPUs (with Heat sink), 32* DIMMs, 2* 2300W PSUs, mLOM, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	28.0 kgs = 61.73 lbs (NVMe SKU)
Weight with following options and no rail kit: 0* HDDs, 0* CPU (with Heat sink), 0* DIMM, 1* 2300W PSU, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe), 2* Raid Tray	19.2 kgs = 42.33 lbs (SAS SKU)
Weight with following options and including rail kit: 0* 2.5 HDDs, 0* CPU (with Heat sink), 0* DIMM, 1* 2300W PSU, 2* Raid Tray , mLOM, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	22.9 kgs = 50.49 lbs (NVMe SKU)
Weight with following options and no rail kit: 1* HDD, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe), 2* Raid Tray	20 kgs = 44.09 lbs (NVMe SKU)

Table 36 UCS C240 M7 Dimensions and Weight

Parameter	Value
Weight with following options and including rail kit: 1* 2.5 HDDs, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, 2* Raid Tray , mLOM, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	23.7 kgs = 52.25 lbs (NVMe SKU)
Weight with following options and no rail kit: 24* HDDs, 2* CPUs (with Heat sink), 32* DIMMs, 2* 2300W PSUs, mLOM card, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe), 2* Raid Tray	28.6kgs = 63.05 lbs (NVMe SKU)
Weight with following options and including rail kit: 24* 2.5 HDDs, 2* CPUs (with Heat sink), 32* DIMMs, 2* 2300W PSUs, 2* Raid Tray , mLOM, Riser Cage 1 (Without PCIe), Riser Cage 2 (Without PCIe), Riser Cage 3 (Without PCIe)	33.1 kgs = 72.97lbs (NVMe SKU)

Power Specifications

The server is available with the following types of power supplies:

- 1050 W V2 (DC) power supply (see ***Table 37***).
- 1200 W (AC) power supply (see ***Table 38***)
- 1600 W (AC) power supply (see ***Table 39***)
- 2300 W (AC) power supply (see ***Table 40***)

Table 37 UCS C240 M7 SFF Power Specifications (1050 W V2 DC power supply)

Parameter	Specification
Input Connector	Molex 42820
Input Voltage Range (V rms)	-48
Maximum Allowable Input Voltage Range (V rms)	-40 to -72
Frequency Range (Hz)	NA
Maximum Allowable Frequency Range (Hz)	NA
Maximum Rated Output (W)	1050
Maximum Rated Standby Output (W)	36
Nominal Input Voltage (V rms)	-48
Nominal Input Current (A rms)	24
Maximum Input at Nominal Input Voltage (W)	1154
Maximum Input at Nominal Input Voltage (VA)	1154
Minimum Rated Efficiency (%)[1]	91
Minimum Rated Power Factor[1]	NA
Maximum Inrush Current (A peak)	15
Maximum Inrush Current (ms)	0.2
Minimum Ride-Through Time (ms)[2]	5

Notes:

1. This is the minimum rating required to achieve 80 PLUS Platinum certification, see test reports published at http://www.80plus.org/ for certified values
2. Time output voltage remains within regulation limits at 100% load, during input voltage dropout

Table 38 UCS C240 M7 1200 W (AC) Power Supply Specifications

Parameter	Specification			
Input Connector	IEC320 C14			
Input Voltage Range (Vrms)	100 to 240			
Maximum Allowable Input Voltage Range (Vrms)	90 to 264			
Frequency Range (Hz)	50 to 60			
Maximum Allowable Frequency Range (Hz)	47 to 63			
Maximum Rated Output (W)[1]	1100		1200	
Maximum Rated Standby Output (W)	48			
Nominal Input Voltage (Vrms)	100	120	208	230
Nominal Input Current (Arms)	12.97	10.62	6.47	5.84
Maximum Input at Nominal Input Voltage (W)	1300	1264	1343	1340
Maximum Input at Nominal Input Voltage (VA)	1300	1266	1345	1342
Minimum Rated Efficiency (%)[2]	90	90	91	91
Minimum Rated Power Factor[2]	0.97	0.97	0.97	0.97
Maximum Inrush Current (A peak)	20			
Maximum Inrush Current (ms)	0.2			
Minimum Ride-Through Time (ms)[3]	12			

Notes:

1. Maximum rated output is limited to 1100W when operating at low-line input voltage (100-127V)
2. This is the minimum rating required to achieve 80 PLUS Titanium certification, see test reports published at http://www.80plus.org/ for certified values
3. Time output voltage remains within regulation limits at 100% load, during input voltage dropout

Table 39 UCS C240 M7 1600 W (AC) Power Supply Specifications

Parameter	Specification			
Input Connector	IEC320 C14			
Input Voltage Range (V rms)	200 to 240			
Maximum Allowable Input Voltage Range (V rms)	180 to 264			
Frequency Range (Hz)	50 to 60			
Maximum Allowable Frequency Range (Hz)	47 to 63			
Maximum Rated Output (W)	1600			
Maximum Rated Standby Output (W)	36			
Nominal Input Voltage (V rms)	100	120	208	230
Nominal Input Current (A rms)	NA	NA	8.8	7.9
Maximum Input at Nominal Input Voltage (W)	NA	NA	1778	1758
Maximum Input at Nominal Input Voltage (VA)	NA	NA	1833	1813
Minimum Rated Efficiency (%)[1]	NA	NA	90	91
Minimum Rated Power Factor[2]	NA	NA	0.97	0.97
Maximum Inrush Current (A peak)	30			
Maximum Inrush Current (ms)	0.2			
Minimum Ride-Through Time (ms)[2]	12			

Notes:

1. This is the minimum rating required to achieve 80 PLUS Platinum certification, see test reports published at http://www.80plus.org/ for certified values
2. Time output voltage remains within regulation limits at 100% load, during input voltage dropout

Table 40 UCS C240 M7 2300 W (AC) Power Supply Specifications

Parameter	Specification			
Input Connector	IEC320 C20			
Input Voltage Range (Vrms)	100 to 240			
Maximum Allowable Input Voltage Range (Vrms)	90 to 264			
Frequency Range (Hz)	50 to 60			
Maximum Allowable Frequency Range (Hz)	47 to 63			
Maximum Rated Output (W)[1]	2300			
Maximum Rated Standby Output (W)	36			
Nominal Input Voltage (Vrms)	100	120	208	230
Nominal Input Current (Arms)	13	11	12	10.8
Maximum Input at Nominal Input Voltage (W)	1338	1330	2490	2480
Maximum Input at Nominal Input Voltage (VA)	1351	1343	2515	2505
Minimum Rated Efficiency (%)[2]	92	92	93	93
Minimum Rated Power Factor[2]	0.99	0.99	0.97	0.97
Maximum Inrush Current (A peak)	30			
Maximum Inrush Current (ms)	0.2			
Minimum Ride-Through Time (ms)[3]	12			

Notes:

1. Maximum rated output is limited to 1200W when operating at low-line input voltage (100-127V)
2. This is the minimum rating required to achieve 80 PLUS Titanium certification, see test reports published at http://www.80plus.org/ for certified values
3. Time output voltage remains within regulation limits at 100% load, during input voltage dropout



NOTE: For configuration-specific power specifications, use the Cisco UCS Power Calculator at this URL: **http://ucspowercalc.cisco.com**

Environmental Specifications

The environmental specifications for Cisco UCS C240 M7 SFF server are listed in ***Table 41***.

Table 41 UCS C240 M7 Environmental Specifications

Parameter	Minimum
Operating Temperature	5°C to 35°C (supports ASHRAE Class A4 and/or Class A3 and/or Class A2) ASHRAE Class A3 will be generic test profile unless otherwise specified by product engineering. System shall continue to operate with a single fan failure (one failed impeller in dual impeller housings) across the ASHRAE recommended operating range of 18 °C to 27 °C. While undesired, increased power consumption and/or acoustic noise is permitted during a fan fail event.
Non-Operating Temperature	Dry bulb temperature of -40°C to 65°C (-40°F to 149°F)
Operating Relative Humidity	8% to 90% relative humidity, non-condensing, with maximum wet bulb 28°C (82.4°F) within operational temperature range of 5°C to 50°C (41°F to 122°F)
Non-Operating Relative Humidity	5% to 93% relative humidity, non-condensing, with a maximum wet bulb temperature of 28°C across the 20°C to 40°C dry bulb range.
Maximum Operating Duration	Unlimited
Operating Altitude	A maximum elevation of 3050 meters (10,006 ft)
Non-Operating Altitude	An elevation of 0 to 12,000 meters (39,370 ft)
Sound Power level, Measure A-weighted per ISO7779 LWAd (Bels) Operation at 23°C (73°F)	1RU: 5.5B 2RU: 5.8B Racked product: 6.8B
Sound Pressure level, Measure A-weighted per ISO7779 LpAm (dBA) Operation at 23°C (73°F)	1RU: 40dB 2RU: 43dB Racked product: 55dB

Extended Operating Temperature Hardware Configuration Limits

Table 42 Cisco UCS C240 M7 Extended Operating Temperature Hardware Configuration Limits

Platform[1]	ASHRAE A3 (5ºC to 40ºC)[2]	ASHRAE A4 (5ºC to 45ºC)[3]
Processor	<=250W	<=185W (up to 250W supported with Riser 2 only)
DIMMs	<= 64GB	<= 32GB (up to 64GB supported with Riser 2 only)
GPU	Not Supported	Not Supported
PCIe	Up to 25W per slot only	Up to 25W per slot only
Front Storage	SAS/SATA/NVMe (NVMe SSD up to 1.9TB)	SAS/SATA/NVMe (NVMe SSD up to 1.9TB)
Rear Storage	Not Supported	Not Supported
M.2	SATA M.2 Supported with <= 205W CPUs	Not Supported
PSUs	2 PSUs required in redundant mode	2 PSUs required in redundant mode
MLOM / OCP	MLOM only. No OCP support.	MLOM only. No OCP support.

Notes:

1. Two PSUs are required and PSU failure is not supported
2. Non-Cisco UCS qualified peripherals and/or peripherals that consume more than 25W are not supported
3. High power or maximum power fan control policy must be applied.

Compliance Requirements

The regulatory compliance requirements for C-Series servers are listed in ***Table 43***

Table 43 UCS C-Series Regulatory Compliance Requirements

Parameter	Description
Regulatory Compliance	Products should comply with CE Markings per directives 2014/30/EU and 2014/35/EU
Safety	UL 60950-1/62368-1 CAN/CSA-C22.2 No. 60950-1/62368-1 IEC/EN 60950-1/62368-1 AS/NZS 62368.1 GB 4943.1-2022 CNS 15598-1:2020
EMC - Emissions	47CFR Part 15 (CFR 47) Class A AS/NZS CISPR32 Class A CISPR32 Class A EN55032 Class A ICES003 Class A VCCI-CISPR32 Class A EN61000-3-2 EN61000-3-3 KS C 9832 Class A EN 300386 Class A
EMC - Immunity	EN55035 EN55024 CISPR24/35 EN300386 KS C 9835 IEC/EN61000-6-1

DISCONTINUED EOL PRODUCTS

Below is the list of parts were previously available for this product and are no longer sold. Please refer to the EOL Bulletin Links via table below to determine if still supported.

Table 44 EOS

Product ID	Description	EOL/EOS link
UCS-M2-240GB-D	240GB M.2 SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCS-M2-960GB-D	960GB M.2 SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCS-SD240GM1XEV-D	240GB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCS-SD76TM1X-EV-D	7.6TB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCS-SD480GM1XEV-D	480 GB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSSD76TBEM2NK9-D	7.6TB 2.5in Enter Value 6G SATA Micron G1 SSD (SED)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSSD960GBM2NK9-D	960GB 2.5in Enter Value 6G SATA Micron G1 SSD (SED)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCS-SD16TM1X-EV-D	1.6TB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCS-SD38TM1X-EV-D	3.8TB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCS-SD16TBKNK9-D	1.6TB 2.5in Enter Perf 12G SAS Kioxia G1 SSD (3X SED-FIPS)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCS-SD16TK3X-EP-D	1.6TB 2.5in Enter Perf 12G SAS Kioxia G1 SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCS-SD19TK1X-EV-D	1.9TB 2.5in Enter Value 12G SAS Kioxia G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCS-SD800GBKNK9-D	800GB 2.5in Enter Perf 12G SAS Kioxia G1 SSD (3X SED-FIPS)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15420.html
UCSC-M-V5D200G-D	Cisco VIC 15238 2x 40/100/200G mLOM C-Series	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-UCS-accessories-eol.html

Table 44 EOS

UCSC-M-V5Q50G-D	Cisco VIC 15428 4x 10/25/50G mLOM C-Series	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-UCS-accessories-eol.html
UCS-SD16TS3X-EP-D	1.6TB 2.5in Enter Perf 12G SAS Seagate SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15371.html
UCS-SD19TS1X-EV-D	1.9TB 2.5v Enter Value 12G SAS Seagate SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15371.html
UCS-SD32TS3X-EP-D	3.2TB 2.5in Enter Perf 12G SAS Seagate SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCS-SD38T6S1XEV-D	3.8TB 2.5in Enter Value 6G SATA Samsung SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15371.html
UCS-SD960GS1XEV-D	960GB 2.5in Enter Value 12G SAS Seagate SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCSSD960G6S1XEV-D	960GB 2.5in Enter Value 6G SATA Samsung SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCS-SD19T6S1XEV-D	1.9TB 2.5in Enter Value 6G SATA Samsung SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCS-SD76T6S1XEV-D	7.6TB 2.5in Enter Value 6G SATA Samsung SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCS-SD960G63XEP-D	960GB 2.5in Enter Perf 6G SATA Intel SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-NVME4-15360-D	15.3TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-NVME4-1600-D	1.6TB 2.5in U.2 15mm P5620 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-NVME4-3200-D	3.2TB 2.5in U.2 15mm P5620 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-NVME4-3840-D	3.8TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-NVME4-7680-D	7.6TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-SD15TK1X-EV-D	15.3TB 2.5in Enter Value 12G SAS Kioxia G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCS-SD32TK3X-EP-D	3.2TB 2.5in Enter Perf 12G SAS Kioxia G1 SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html

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UCS-SD38T63X-EP-D	3.8TB 2.5in Enter Perf 6G SATA Intel SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-SD38T6I1XEV-D	3.8TB 2.5in Enter Value 6G SATA Intel SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-SD38TK1X-EV-D	3.8TB 2.5in Enter Value 12G SAS Kioxia G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCS-SD64TS3XEP-D	6.4TB 2.5in Enterprise Performance 12G SAS SSD(3X endurance)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCS-SD76TK1X-EV-D	7.6TB 2.5in Enter Value 12G SAS Kioxia G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCS-SD76TS1X-EV-D	7.6TB 2.5 inch Enterprise Value 12G SAS SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCS-SD800GK3XEP-D	800GB 2.5in Enter Perf 12G SAS Kioxia G1 SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-M2-I480GB-D	480GB M.2 Boot SATA Intel SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-SD38TBKNK9-D	3.8TB Enterprise Value SAS SSD (1X DWPD, SED) **FIPS140-2**	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-SD960GK1XEV-D	960GB 2.5 inch Enterprise Value 12G SAS SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-NVME4-1920-D	1.9TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-NVME4-6400-D	6.4TB 2.5in U.2 15mm P5620 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-NVMEXP-I400-D	400GB 2.5in U.2 15mm P5800X Optane Ext Perf NVMe (30/100X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-drives-storage-controllers-eol.html
UCS-NVMEXP-I800-D	800GB 2.5in U.2 15mm P5800X Optane Ext Perf NVMe (30/100X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-drives-storage-controllers-eol.html
UCS-SD480G63XEP-D	480GB 2.5in Enter Perf 6G SATA Intel SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSSD960G6I1XEV-D	960GB 2.5in Enter Value 6G SATA Intel SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-NVMEG4-M1920D	1.9TB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html

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UCS-NVMEG4-M3200D	3.2TB 2.5in U.3 15mm P7450 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html
UCS-NVMEG4-M3840D	3.8TB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html
UCS-NVMEG4-M960-D	960GB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html
UCS-MRX16G1RE1	16GB DDR5-4800 RDIMM 1Rx8 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCS-NVMEQ-1536-D	15.3TB 2.5in U.2 P5316 NVMe High Perf Low Endurance	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-drives-storage-controllers-eol.html
UCSSD480G6I1XEV-D	480 GB 2.5in Enter Value 6G SATA Intel SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCS-MR128G4RE3[1]	128GB DDR5-5600 RDIMM 4Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15570.html
UCS-MRX16G1RE3	16GB DDR5-5600 RDIMM 1Rx8 (16Gb)	Disabled Due to Material Shortage
UCSC-GPU-FLEX140	Intel GPU Flex 140, Gen4x8, HHHL, 75W PCIe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html
UCSC-P-MDD100GF-D	Cisco-MLNX MCX623106AS-CDAT 2x100GbE QSFP56 PCIe NIC	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15715.html
UCSC-P-N6D25GF-D	Cisco-NVDA MCX631102AS-ADAT CX6Lx 2x25GbE SFP28 x8 PCIe NIC	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15715.html
UCSC-GPU-L40	NVIDIA L40: 300W, 48GB, 2-slot FHFL GPU	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCSC-GPU-H100-NVL	NVIDIA H100 NVL, 400W, 94GB, 2-slot FHFL GPU	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html
UCS-MRX16G1RE1	16GB DDR5-4800 RDIMM 1Rx8 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCS-MRX32G1RE1	32GB DDR5-4800 RDIMM 1Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCS-MRX64G2RE1	64GB DDR5-4800 RDIMM 2Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCS-MR128G4RE1	128GB DDR5-4800 RDIMM 4Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html

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UCS-MR128G4RE3[2]	128GB DDR5-5600 RDIMM 4Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15570.html
UCS-MRX16G1RE3	16GB DDR5-5600 RDIMM 1Rx8 (16Gb)	Disabled Due to Material Shortage
UCS-MR256G8RE1	256GB DDR5-4800 RDIMM 8Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCS-MRX16G1RE3[1]	16GB DDR5-5600 RDIMM 1Rx8 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15570.html
UCS-MRX32G1RE3[1]	32GB DDR5-5600 RDIMM 1Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15928.html
UCS-MR128G4RE3[1]	128GB DDR5-5600 RDIMM 4Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15928.html
UCS-CPU-I5412U	Intel I5412U 2.1GHz/185W 24C/45MB DDR5 4400MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I6414U	Intel I6414U 2GHz/250W 32C/60MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I6434	Intel I6434 3.7GHz/195W 8C/22.5MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I6438Y+	Intel I6438Y+ 2GHz/205W 32C/60MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I6454S	Intel I6454S 2.2GHz/270W 32C/60MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I8460Y+	Intel I8460Y+ 2GHz/300W 40C/105MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I8461V	Intel I8461V 2.2GHz/300W 48C/97.5MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I8468	Intel I8468 2.1GHz/350W 48C/105MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html

Notes:

1. 128GB 4Rx4 (16Gb) is now End-Of-Life and is replaced by 128GB 2Rx4 (32Gb).
2. DDR5-5600 16GB, 32GB, and 128GB memories are now End-Of-Life and are respectively replaced by DDR5-6400 16GB, 32GB, and 128GB memories.



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