Spec Sheet

Cisco UCS C240 M8 LFF Rack Server

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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 M8 LFF Rack Server extends the capabilities of Cisco's Unified Computing System portfolio in a 2U form factor with the Intel® Xeon® 6 Scalable Processors, 16 DIMM slots per CPU for DDR5-6400 Memory DIMMs with DIMM capacity points up to 128GB.

The Cisco UCS C240 M8 LFF Rack Server harnesses the power of the latest Intel® Xeon® 6 Scalable Processors and offers the following:

CPU: Up to 2x Intel® Xeon® 6 Scalable Processors with up to 64 cores per processor.

Memory: Up to 4TB with 32 x 128GB DDR5-6400 DIMMs, in a 2-socket configuration with Intel® Xeon® 6 Scalable Processors.

Drives:

- The server accommodates up to 12 front facing SAS-only LFF drives, up to 4 mid-plane SAS-only LFF drives, and up to 4 rear-facing SFF drives (SAS or SATA or NVMe).
- The server supports up to two rear storage risers (2 SFF drive slots each)

The server provides an internal slot for one of the following:

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

mLOM: The UCS C240 M8 LFF Rack Server has a single integrated 1GBE management port. A modular LAN on motherboard (mLOM)/OCP 3.0 slot provides various connectivity options from 10GbE to 200GbE.

The Cisco UCS C240 M8 LFF Rack 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.

See ***Figure 1 on page 3*** for front and rear views of the UCS C240 M8 LFF Rack Server.

Figure 1 Cisco UCS C240 M8 LFF Rack Server (12 front LFF drives, 4 mid-plane LFF drives, 4 rear SFF drives)

Front View (all slots shown unpopulated - see ***Figure 2 on page 4*** for details)



Rear View (all slots shown unpopulated - see ***Figure 3 on page 5*** for details)

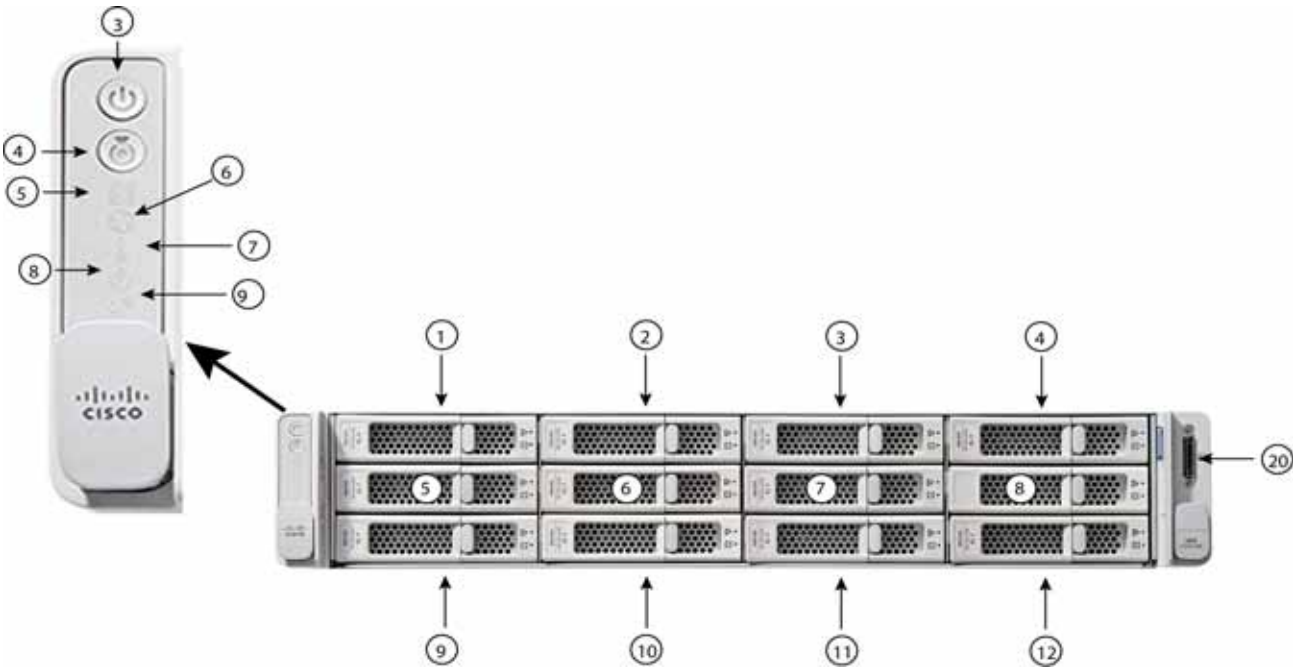


DETAILED VIEWS

Chassis Front View

Figure 2 shows the front view of rack server configured with 12 front drives.

Figure 2 Chassis Front View

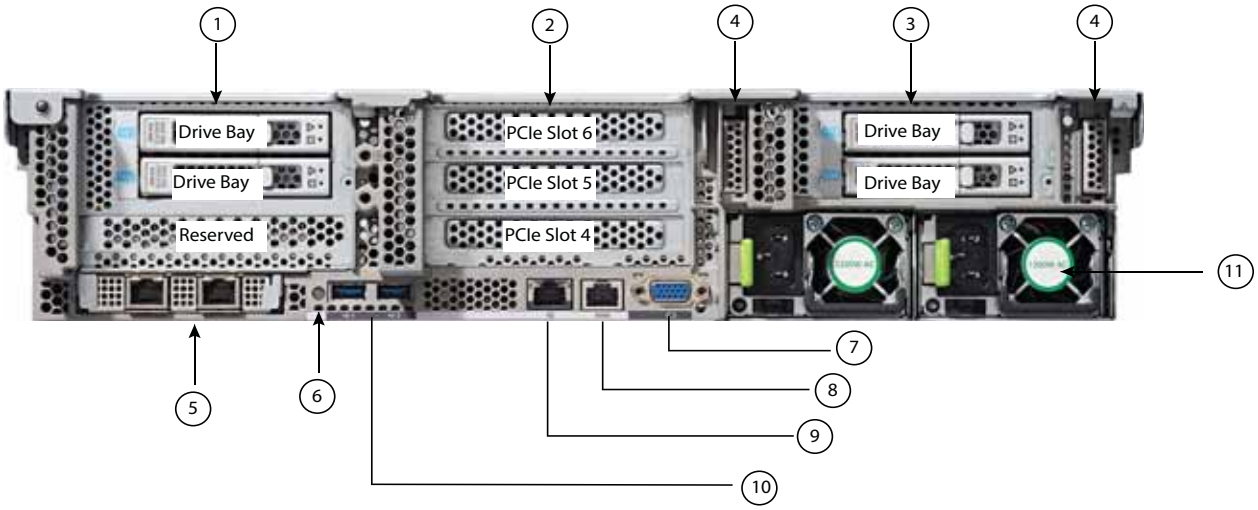


1 - 12	Drive bays 1–12 support 3.5-inch SAS-only hard disk drives (HDDs).	**17**	Temperature status LED
13	Power button/Power status LED	**18**	Power supply status LED
14	Unit Identification button/LED	**19**	Network link activity LED
15	System status LED	**20**	KVM connector (used with KVM cable that provides two USB 2.0 connectors, one VGA connector, and one serial connector)
16	Fan status LED	**-**	-

Chassis Rear View

Figure 3 shows the external features of the rear panel.

Figure 3 Chassis Rear View



1	**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	**7**	VGA display port (DB15 connector)
2	There are two Riser 2 options: **Riser 2A (Gen 5, CPU2 control)** Supports three Gen 5 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 (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	**8**	COM port (RJ45 connector)
3	There are three Riser 3 options **Riser 3A (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 (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)	**9**	1 GbE dedicated Ethernet management port
4	Drive bays 243 and 244, support hot-swappable SATA M.2 drives	**10**	USB 3.0 ports (two)
5	Modular LAN on motherboard (mLOM)/OCP 3.0 slot or hot-swappable M.2 module (drive bays 241 and 242).	**11**	Power supplies (two)
6	System ID pushbutton/LED	**-**	-

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, disk drives, or amount of memory) are provided in *CONFIGURING the SERVER, page 10*.

Table 1 Capabilities and Features

Capability/Feature	Description
Chassis	Two rack unit (2RU) chassis
CPU	■ One or two Intel® Xeon® 6 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 24GT/s
Memory	■ 32 total DDR5-6400 MT/s DIMM slots with Intel® Xeon® 6 Scalable Processors (16 per CPU)
Video	The Cisco Integrated Management Controller (CIMC) provides video using the Matrox G200e video/graphics controller: ■ Integrated 2D graphics core with hardware acceleration ■ Embedded DDR memory interface supports up to 512 MB of addressable memory (8 MB is allocated by default to video memory) ■ Supports display resolutions up to 1920 x 1200 16bpp @ 60Hz ■ High-speed integrated 24-bit RAMDAC ■ Single lane PCI-Express host interface running at Gen 1 speed
Power subsystem	Up to two of the following hot-swappable power supplies: ■ 1050W (DC) ■ 1200W (AC) ■ 1600 W (AC) ■ 2300 W (AC) One power supply is mandatory; one more can be added for 1 + 1 redundancy.
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.
Fans	Six hot-swappable fans for front-to-rear cooling
Expansion slots	■ Riser 1B (two drive bays) ■ Riser 2A (three Gen 5 PCIe slots) ■ Riser 2C (two Gen 5 PCIe slots) ■ Riser 3A (two Gen 5 PCIe slots) ■ Riser 3B (two drive bays) ■ Riser 3C (one Gen5 PCIe Slot)

Table 1 Capabilities and Features *(continued)*

Capability/Feature	Description
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. Cisco virtual interface card (VIC). ■ CIMC manages certain components within the server, such as the Cisco 24G SAS HBA.
Internal storage devices	**Drive storage:** ■ Large Form Factor (LFF) drives with 12-drive backplane. The server can hold up to: • 12 LFF 3.5 inch front-facing SAS-only LFF hard drives (HDDs). • Optionally up to four mid-plane SAS-only LFF HDDs ■ Optionally, up to four SFF 2.5-inch, rear-facing SAS/SATA HDDs/SSDs or up to four rear-facing SFF NVMe PCIe SSDs. **Other storage:** ■ A Boot Optimized RAID Controller supports • Up to two internal SATA M.2 SSDs, or • Up to two rear-accessible hot-swappable 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 M8.
Storage controllers	**Internal storage controllers:** ■ 24G Tri-Mode M1 HBA for 16 Drives ■ 24G Tri-Mode M1 RAID Controller w/4GB FBWC 32Drv
Modular LAN on Motherboard (mLOM)/ Open Compute Project (OCP) 3.0 slot	The dedicated mLOM/Open Compute Project (OCP) 3.0 slot on the motherboard can flexibly accommodate the following cards: ■ Cisco Virtual Interface Cards ■ Open Compute Project (OCP) 3.0 network interface card
Fabric Interconnect	■ Compatible with the Cisco UCS 6400, 6500, 6600 Series 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.
CIMC	Cisco Integrated Management Controller 4.3(6) or later
Intersight	Intersight provides server management capabilities

Table 1 Capabilities and Features *(continued)*

Capability/Feature	Description
Firmware standards	UEFI Spec 2.9 ACPI 6.5 SMBIOS Ver 3.7

CONFIGURING the SERVER

Follow these steps to configure the Cisco UCS C240 M8 LFF Rack Server:

- *STEP 1 SELECT SERVER SKU, page 11*
- *STEP 2 SELECT MANAGMENT MODE (REQUIRED), page 12*
- *STEP 3 SELECT RISER CARDS (REQUIRED), page 13*
- *STEP 4 SELECT CPU(s) (REQUIRED), page 14*
- *STEP 5 SELECT MEMORY (REQUIRED), page 17*
- *STEP 6 SELECT DRIVE CONTROLLERS (OPTIONAL), page 20*
- *STEP 7 SELECT DRIVES (OPTIONAL), page 22*
- *STEP 8 SELECT OPTION CARD(s) (OPTIONAL), page 27*
- *STEP 9 ORDER GPU CARDS (OPTIONAL), page 30*
- *STEP 10 ORDER M.2 BOOT RAID CONTROLLER and SATA SSDs (OPTIONAL), page 32*
- *STEP 11 ORDER POWER SUPPLY (REQUIRED), page 34*
- *STEP 12 SELECT INPUT POWER CORD(s) (REQUIRED), page 35*
- *STEP 13 ORDER TOOL-LESS RAIL KIT (REQUIRED) AND REVERSIBLE CABLE MANAGEMENT ARM (OPTIONAL), page 39*
- *STEP 14 SELECT MANAGEMENT CONFIGURATION (OPTIONAL), page 40*
- *STEP 15 ORDER SECURITY DEVICES (REQUIRED), page 41*
- *STEP 16 SELECT LOCKING SECURITY BEZEL (OPTIONAL), page 42*
- *STEP 17 SELECT OPERATING SYSTEM, page 43*
- *STEP 18 CISCO INTERSIGHT, page 46*
- *SUPPLEMENTAL MATERIAL, page 48*

STEP 1 SELECT SERVER SKU

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

Table 2 Top Level Major Line Bundle ordering PIDs (MLB)

Product ID (PID)	Description
UCS-M8-MLB	UCS M8 RACK MLB This major line bundle (MLB) consists of the Rack Server (UCSC-C240-M8SX, UCSC-C240-M8L or UCSC-C240-M8E3S) with software PIDs. Use this PID to begin a new configuration.

Select one product ID (PID) as shown in *Table 3*.



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

Table 3 PID of the Rack Base Server

Product ID (PID)	Description
UCSC-C240-M8L	Large form-factor (LFF) drives, with 12-drive backplane. ■ Front-loading drive bays 1—12 support 3.5-inch SAS-only LFF HDDs. ■ Optionally, four 3.5” midplane SAS-only LFF HDDs ■ Optionally, four rear-loading drive bays support up to four 2.5 inch SAS/SATA/NVMe drives

The Cisco UCS C240 M8 LFF Rack Server:

Does not include power supply, CPU, memory, hard disk drives (HDDs), solid-state drives (SSDs), boot drives, SD cards, risers, tool-less rail kit, or PCIe cards.

STEP 2 SELECT MANAGMENT MODE (REQUIRED)

The available management modes are listed in ***Table 4***.

Table 4 Management Mode

Product ID (PID)	Description
IMM-MANAGED	Deployment mode for UCS FI connected Servers in IMM mode
UMM-MANAGED	Deployment mode for UCS FI connected Servers in UCSM mode
ISM-MANAGED	Deployment mode for C Series Servers in Standalone mode

NOTE: Cisco UCS M8 servers are the last generation to support UCS Manager (UCSM). Any customers choosing to use UCSM with M8 servers should proactively plan to transition to IMM by 2027

STEP 3 SELECT RISER CARDS (REQUIRED)

Select desired risers from ***Table 5***.

Table 5 PIDs of the Risers

Product ID (PID)	Description
Riser 1 Options	
UCSC-RIS1B-240M8 (storage riser)	UCS C240 M8 Riser 1B support 2xSFF drives ■ Slot 1 is reserved ■ Drive bay 102, x4, Supports SAS/SATA/NVMe drives ■ Drive bay 101, x4, Supports SAS/SATA/NVMe drives
Riser 2 Options (2-CPU must be selected)	
UCSC-RIS2A-240M8 (I/O riser)	UCS C240 M8 Riser 2A PCIe Gen5 (x8, x16, x8) (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
UCSC-RIS2C-240M8 (I/O riser)	UCS C240 M8 Riser 2C PCIe Gen5 (2x16) (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
Riser 3 Options (2-CPU must be selected)	
UCSC-RIS3A-240M8 (I/O riser)	UCS C240 M8 Riser 3A PCIe Gen5 (controlled with CPU2) ■ Slot 7 is full-height, full-length, x8 ■ Slot 8 is full-height, full-length, x8
UCSC-RIS3B-240M8 (storage riser)	UCS C240 M8 Riser 3B support 2xSFF drives (controlled with CPU2) ■ Drive bay 104, x4, SAS/SATA/NVMe drives ■ Drive bay 103, x4, SAS/SATA/NVMe drives
UCSC-RIS3C-240M8 (I/O riser)	UCS C240 M8 Riser 3C PCIe Gen5 (x16) (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-C240M6 riser filler for riser 2 and UCSC-FBRS3-C245 riser filler blank for riser 3 are auto included, if riser 2 or riser 3 are not selected. ■ CBL-RISB-C240M8L, CBL-MP-240M8L-C and CBL-MP-240M8L-P are auto included. ■ Please note, if you are adding additional risers and raid controller later, you may need to order the accessories with it.	



NOTE: For GPU support on a particular riser slot, see ***Table 15 on page 30***

STEP 4 SELECT CPU(s) (REQUIRED)

The standard CPU features are:

- Up to 64 cores
- Cache size of up to 336 MB
- Power: Up to 330 Watts
- UPI Links: Up to 4 at 24GT/s

Select CPUs



CAUTION: Normal operating temperature is limited to 30° C [86° F], and is lowered to 25° C [77° F], with a fan fault.

Table 6 Available Intel® Xeon® 6 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-I6760P	Mainline	2S	64	2.20	330	320	6400
UCS-CPU-I6747P	Performance	2S	48	2.70	330	288	6400
UCS-CPU-I6741P[1]	Single Socket	1S	48	2.50	300	288	6400
UCS-CPU-I6740P	Mainline	2S	48	2.10	270	288	6400
UCS-CPU-I6736P	Performance	2S	36	2.00	205	144	6400
UCS-CPU-I6745P	Performance	2S	32	3.10	300	336	6400
UCS-CPU-I6737P	Performance	2S	32	2.90	270	144	6400
UCS-CPU-I6731P[1]	Single Socket	1S	32	2.50	245	144	6400
UCS-CPU-I6730P	Performance	2S	32	2.50	250	288	6400
UCS-CPU-I6530P	Mainline	2S	32	2.30	225	144	6400
UCS-CPU-I6728P	Socket scalable	2S	24	2.70	210	144	6400
UCS-CPU-I6527P	Performance	2S	24	3.00	255	144	6400
UCS-CPU-I6521P[1]	Single Socket	1S	24	2.60	225	144	6400
UCS-CPU-I6520P	Mainline	2S	24	2.40	210	144	6400
UCS-CPU-I6511P[1]	Single Socket	1S	16	2.50	150	72	6400
UCS-CPU-I6724P	Performance	2S	16	3.60	210	72	6400
UCS-CPU-I6517P	Performance	2S	16	3.20	190	72	6400

Table 6 Available Intel® Xeon® 6 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-I6515P	Mainline	2S	16	2.30	150	72	6400
UCS-CPU-I6505P	Mainline	2S	12	2.20	150	48	6400
UCS-CPU-I6714P	Performance	2S	8	4.00	165	48	6400
UCS-CPU-I6507P	Performance	2S	8	3.50	150	48	6400
Accessories/spare included with CPU configuration: ■ UCSC-HSLP-C220M8 **NOTE:** if you are adding a second CPU later, you may need to order accessories spares with it.							

Notes:

1. Single Socket only CPUs

Table 7 CPU PID Decoder

Identifier#1	Identifier#2	Identifier#3	Identifier#4	Identifier#5	Identifier#6	Identifier#7
Cisco Product Family UCS	**CPU supplier** **I:** Intel	**CPU Generation** **6:** 6th Generation	**SKU Tier** **5:** GNR-SP Mid Tier **7:** GNR-SP High Tier	**CPU SKU (2 digits)** **Examples:** 20, 34, 48 See detailed SKUs stack from supplier **11, 21, 31, 41, 61, 81:** single-socket	**Core Architecture** **P:** P-Core	**Option/Spare CPU** **Blank:** Option **=:** Spare

Supported Configurations

- 1-CPU Configuration:
  - Choose one CPU from ***Table 6***
  - Up to 2 rear facing direct-attach NVMe drives are allowed
- 2-CPU Configuration:
  - Choose two identical CPUs from ***Table 6***
  - Up to 4 rear facing direct-attach NVMe drives are allowed

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

- ***STEP 3 SELECT RISER CARDS (REQUIRED), page 13***
- ***STEP 5 SELECT MEMORY (REQUIRED), page 17***
- ***STEP 6 SELECT DRIVE CONTROLLERS (OPTIONAL), page 20***
- ***STEP 7 SELECT DRIVES (OPTIONAL), page 22***
- ***STEP 8 SELECT OPTION CARD(s) (OPTIONAL), page 27***

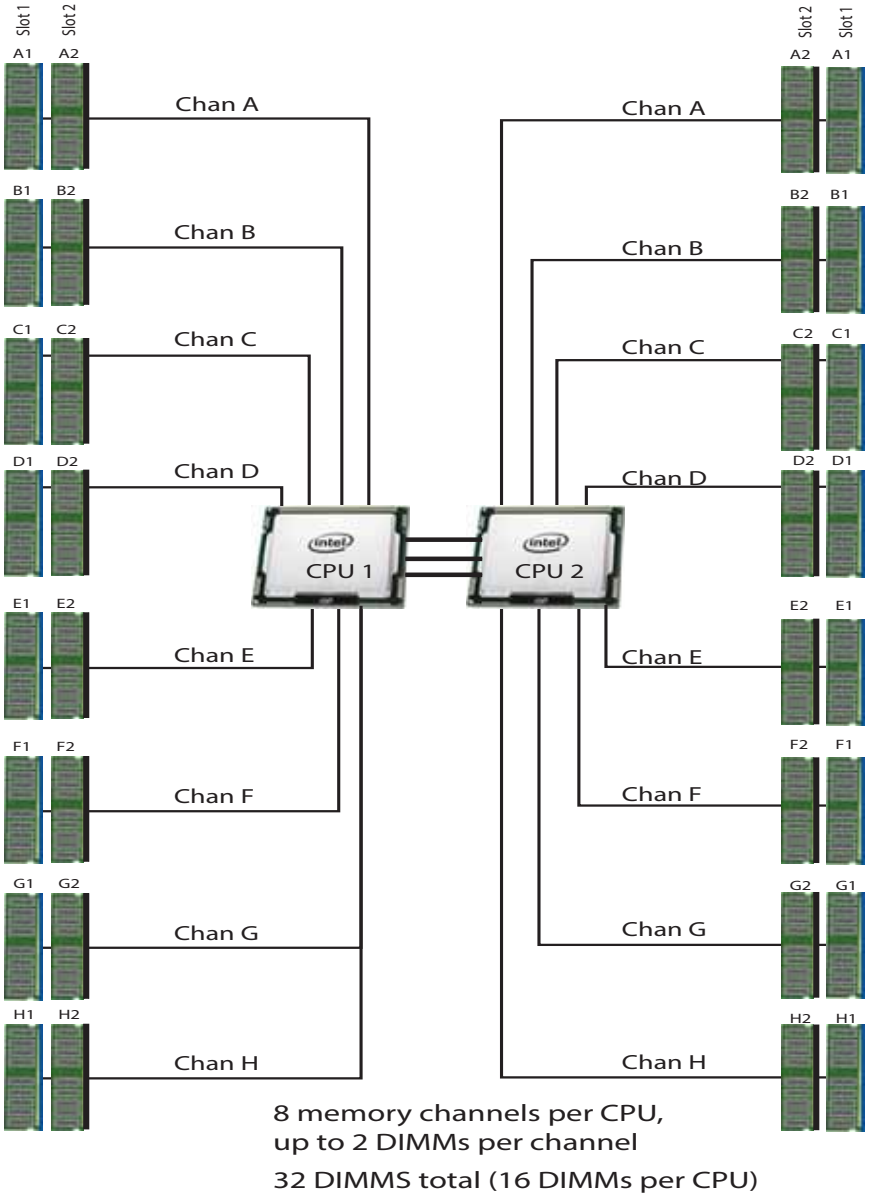
STEP 5 SELECT MEMORY (REQUIRED)

The ***Table 8*** below describes the main memory DIMM features supported on the server.

Table 8 Server Main Memory Features

Memory server technologies	Description
	DIMM
Intel® Xeon® CPU generation	Intel® Xeon® 6 CPUs
DDR5 memory clock speed	Up to 6400 MT/s 1DPC; Up to 5200 MT/s 2DPC
Operational voltage	1.1 Volts
DRAM fab density	16Gb, 24Gb and 32Gb
Memory type	RDIMM (Registered DDR5 DIMM)
Memory DRAM 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	16GB 1Rx8, 32GB 1Rx4, 32GB 2Rx8, 64GB 2Rx4, 96GB 2Rx4, 128GB 2Rx4
Maximum system memory capacity	4TB (32x128GB)

Figure 4 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 M8 servers with Intel® Xeon® 6th Gen. CPUs

Product ID (PID)	PID Description	Ranks/DIMM
DDR5-6400 MT/s Cisco Memory PIDs list		
UCS-MRX16G1RE5	16GB RDIMM 1Rx8 1.1Volts (16Gb)	1
UCS-MRX32G1RE5	32GB RDIMM 1Rx4 1.1Volts (16Gb)	1
UCS-MRX32G2RE5	32GB RDIMM 2Rx8 1.1Volts (16Gb)	2
UCS-MRX64G2RE5	64GB RDIMM 2Rx4 1.1Volts (16Gb)	2
UCS-MRX96G2RF5	96GB RDIMM 2Rx4 1.1Volts (24Gb)	2
UCS-MR128G2RG5	128GB RDIMM 2Rx4 1.1Volts (32Gb)	2
Memory Mirroring Option		
N01-MMIRRORD	Memory mirroring option	
Accessories/spare included with Memory configuration: ■ UCS-DDR5-BLK[1] is auto included for the unselected DIMMs slots		

Notes:

1. 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.
- For full details on supported memory configurations, count rules, population rules and mixing rules see the **Intel M8 Memory guide**

STEP 6 SELECT DRIVE CONTROLLERS (OPTIONAL)

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

- Up to 16 LFF SAS HDDs, and up to 4 SFF SAS/SATA/ U.3 NVMes are controlled through a Cisco 24G Tri-Mode M1 RAID Controller
- Up to 16 LFF SAS HDDs, and up to 4 SFF SAS/SATA/ U.3 NVMes are controlled through a Cisco 24G Tri-Mode M1 HBA



NOTE:

- **UCSC-RAIDMP1LL32:** 64 Virtual drives (VDs) per controller, with up to 64 VD per disk group. OOB limited to 8 VD per disk group.
- If the Raid controllers are selected, it is factory-installed in a dedicated slot.
- For NVMe Hardware RAID, only U.3 NVMes are supported



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 10 Hardware Controller Options

Product ID (PID)	PID Description
Controllers for Internal Drives	
UCSC-RAIDMP1LL32[1]	24G Tri-Mode M1 RAID controller w/8GB FBWC LFF 32Drv ■ This RAID controller supports up to 16 LFF SAS HDDs, and up to 4 SFF SAS/SATA HDD, SAS/SATA SSD, and U.3 NVMe operating at 3Gbps, 6Gbps, 12Gbps and 24Gbps. It includes a SuperCap and a 8GB 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 10 Hardware Controller Options *(continued)*

Product ID (PID)	PID Description
UCSC-HBAMP1LL32	24G Tri-Mode M1 HBA for 32 LFF Drives ■ This Tri-mode HBA supports up to 16 LFF SAS HDDs, and up to 4 SFF SAS/SATA/U.3 NVMe operating at 3Gbps, 6Gbps, 12Gbps and 24Gbps. ■ No RAID support ■ Supports JBOD or pass-through mode ■ The 24G Tri-mode HBA plugs directly into a dedicated slot.  **Note:** When these RAID controllers are ordered as spares, the supercap and supercap cable are included. Please be aware that additional SAS cables, NVMe cables, and other mounting accessories may be required depending on your specific server configuration
Accessories/spare included with drive controller: If drive controllers are selected you must select Riser 1B **NOTE:** If you are adding drive controller later as spare, you may need to order cables/supercap/super cables and controller bracket with it.	

Notes:

1. 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

STEP 7 SELECT DRIVES (OPTIONAL)

The standard disk drive features are:

- 3.5-inch large form factor (front and mid-plane drives)
- 2.5-inch small form factor (rear drives)
- Hot-pluggable
- Drives come mounted in sleds

Front-Facing Drives for the Server

The available front-facing drives are listed in ***Table 11***

Table 11 Available Hot-Pluggable Sled-Mounted Front Facing Drives

Product ID (PID)	PID Description	Drive Type	Capacity
HDDs (7.2K RPM)			
UCS-HDL24TW1S74K	24TB 3.5in 12G SAS 7.2K RPM 4K Front Load WD HDD	SAS	24 TB
UCS-HDL22TW1S74K	22TB 3.5in 12G SAS 7.2K RPM 4K Front Load WD HDD	SAS	22 TB
UCS-HDL20TW1S74K	20TB 3.5in 12G SAS 7.2K RPM 4K WD HDD	SAS	20 TB
UCS-HDL16TT1S74K	16TB 3.5in 12G SAS 7.2K RPM 4K Toshiba HDD	SAS	16 TB
UCS-HDL16TW1S74K	16TB 3.5in 12G SAS 7.2K RPM 4K WD HDD	SAS	16 TB
UCS-HDL12TG1S74K	12TB 3.5in 12G SAS 7.2K RPM 4K HDD	SAS	12 TB
UCS-HDL12TW1S74K9	12TB 3.5in 12G SAS 7.2K RPM 4K Front Load WD HDD (TCG-FIPS)	SAS	12 TB
UCS-HDL10TG1S74K	10TB 3.5in 12G SAS 7.2K RPM 4K HDD	SAS	10 TB
UCS-HDL8TT1S74K	8TB 3.5in 12G SAS 7.2K RPM 4K Toshiba HDD	SAS	8 TB
UCS-HDL8TW1S74K	8TB 3.5in 12G SAS 7.2K RPM 4K WD HDD	SAS	8 TB
UCS-HDL6TG1S74K	6TB 3.5in 12G SAS 7.2K RPM 4K HDD	SAS	6 TB
UCS-HDL6TW1S74K9	6TB 3.5in 12G SAS 7.2K RPM 4K Front Load WD HDD (TCG-FIPS)	SAS	6 TB
UCS-HDL4TG1S74K	4TB 3.5in 12G SAS 7.2K RPM 4K HDD	SAS	4 TB
UCS-HDL18TW1S74K	18TB 3.5in 12G SAS 7.2K RPM 4K WD HDD	SAS	18 TB
UCS-HDL18TW1S74K9	18TB 3.5in 12G SAS 7.2K RPM 4K Front Load WD HDD (SED-FIPS)	SAS	18 TB
UCS-HDL14TW1S74K	14TB 3.5in 12G SAS 7.2K RPM 4K WD HDD	SAS	14 TB
UCS-HDL26TW1S74K	26TB 3.5in 12G SAS 7.2K RPM 4K Front Load HDD	SAS	26 TB
UCS-HDL20TW2S74K	20TB 3.5in 12G SAS 7.2K RPM 4K Front Load WD HDD	SAS	20 TB
UCS-HDL20TT2S74K	20TB 3.5in 12G SAS 7.2K RPM 4K Front Load Toshiba HDD	SAS	20 TB
UCS-HDL16TT2S74K	16TB 3.5in 12G SAS 7.2K RPM 4K Front Load Toshiba HDD	SAS	16 TB
UCS-HDL18TT2S74K	18TB 3.5in 12G SAS 7.2K RPM 4K Front Load Toshiba HDD	SAS	18 TB
NOTE: UCSC-BBLKD-L3 is included for the unselected front storage device.			

Mid plane Drives for the Server

The available midplane drives are listed in ***Table 12***



NOTE: A midplane kit (PID UCSC-MPKIT-240M8L) is included when midplane drives are ordered. If you order midplane drives afterwards, you will need to order a spare midplane kit. Note that if a double-wide GPU or GPU airbaffle is selected, a midplane kit and midplane drives cannot be installed.

Table 12 Available Hot-Pluggable Sled-Mounted Midplane Drives

Product ID (PID)	PID Description	Drive Type	Capacity
UCS-HDM10TG1S74K	10TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane HDD	SAS	10 TB
UCS-HDM12TG1S74K	12TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane HDD	SAS	12 TB
UCS-HDM12TW1S74K9	12TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD (TCG-FIPS)	SAS	12 TB
UCS-HDM16TT1S74K	16TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane Toshiba HDD	SAS	16 TB
UCS-HDM16TW1S74K	16TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD	SAS	16 TB
UCS-HDM20TW1S74K	20TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD	SAS	20 TB
UCS-HDM22TW1S74K	22TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD	SAS	22 TB
UCS-HDM24TW1S74K	24TB 3.5in 12G SAS 7.2K RPM 4K Top Load WD HDD	SAS	24 TB
UCS-HDM6TW1S74K9	6TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD (TCG-FIPS)	SAS	6 TB
UCS-HDM8TT1S74K	8TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane Toshiba HDD	SAS	8 TB
UCS-HDM8TW1S74K	8TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD	SAS	8 TB
UCS-HDM6TG1S74K	6TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane HDD	SAS	6 TB
UCS-HDM4TG1S74K	4TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane HDD	SAS	4 TB
UCS-HDM18TW1S74K	18TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD	SAS	18 TB
UCS-HDM18TW1S74K9	18TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD (SED-FIPS)	SAS	18 TB
UCS-HDM14TW1S74K	14TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD	SAS	14 TB
UCS-HDM26TW1S74K	26TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane HDD	SAS	26 TB
UCS-HDM20TW2S74K	20TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane WD HDD	SAS	20 TB
UCS-HDM20TT2S74K	20TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane Toshiba HDD	SAS	20 TB
UCS-HDM16TT2S74K	16TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane Toshiba HDD	SAS	16 TB
UCS-HDM18TT2S74K	18TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane Toshiba HDD	SAS	18 TB

Table 12 Available Hot-Pluggable Sled-Mounted Midplane Drives *(continued)*

Product ID (PID)	PID Description	Drive Type	Capacity
NOTE: Cisco uses solid state drives from a number of vendors. All solid state drives 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 that have exceeded any maximum usage specifications set by Cisco or the manufacturer, as determined solely by Cisco.			

Rear Drives for the Server

The available rear drives are listed in ***Table 13***



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 SAS/SATA SSD and HDDs

Product ID (PID)	PID Description	Drive Type	Capacity
HDDs			
HDDs (10K RPM)			
UCS-HDB1T2GS10K2N	1.2TB 2.5in 12G SAS 10K RPM 512n HDD	SAS	1.2 TB
UCS-HDB2T4GS10K4K	2.4TB 2.5in 12G SAS 10K RPM 4K HDD	SAS	2.4 TB
UCS-HDB300GS10K2N	300GB 2.5in 12G SAS 10K RPM 512n HDD	SAS	300 GB
UCS-HDB600GS10K2N	600GB 2.5in 12G SAS 10K RPM 512n HDD	SAS	600 GB
Enterprise Performance SAS/SATA SSDs (High endurance, supports up to 10X or 3X DWPD (drive writes per day))			
SATA			
UCS-SD19TBM3XEP-D	1.9TB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)	SATA	1.9 TB
UCS-SD960GBM3XEPD	960GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)	SATA	960 GB
UCS-SD480GBM3XEPD	480GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)	SATA	480 GB
UCS-SDB1T9OA1P	1.9TB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	1.9 TB
UCS-SDB3T8OA1P	3.8TB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	3.8 TB
UCS-SDB960OA1P	960GB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	960 GB
UCS-SDB480OA1P	480GB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	480 GB
SAS			
UCS-SD32TKA3XEP-D	3.2TB 2.5in Enter Perf 24G SAS Kioxia G2 SSD (3X)	SAS	3.2 TB
UCS-SD16TKA3XEP-D	1.6TB 2.5in Enter Perf 24G SAS Kioxia G2 SSD (3X)	SAS	1.6 TB
Enterprise Value SAS/SATA SSDs (Low endurance, supports up to 1X DWPD (drive writes per day))			
SATA			
UCS-SD76TBM1XEV-D	7.6TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	7.6 TB
UCS-SD38TBM1XEV-D	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	3.8 TB
UCS-SD19TBM1XEV-D	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	1.9 TB

Table 13 Available SAS/SATA SSD and HDDs *(continued)*

Product ID (PID)	PID Description	Drive Type	Capacity
UCS-SD960GBM1XEVD	960GB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	960 GB
UCS-SD480GBM1XEVD	480 GB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	480 GB
UCS-SD240GBM1XEVD	240GB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	240 GB
UCS-SDB7T6SA1VD	7.6TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	7.6 TB
UCS-SDB3T8SA1VD	3.8TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	3.8 TB
UCS-SDB1T9SA1VD	1.9TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	1.9 TB
UCS-SDB960SA1VD	960GB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	960 GB
UCS-SDB3T8OA1V	3.8TB 2.5in 15mm Solidigm S4520 Enter Value 6G SATA 1X SSD	SATA	3.8 TB
UCS-SDB960OA1V	960GB 2.5in 15mm Solidigm S4520 Enter Value 6G SATA 1X SSD	SATA	960 GB
SAS			
UCS-SD15TKA1XEV-D	15.3TB 2.5in Enter Value 24G SAS Kioxia G2 SSD	SAS	15.3 TB
UCS-SD76TKA1XEV-D	7.6TB 2.5in Enter Value 24G SAS Kioxia G2 SSD	SAS	7.6 TB
UCS-SD38TKA1XEV-D	3.8TB 2.5in Enter Value 24G SAS Kioxia G2 SSD	SAS	3.8 TB
UCS-SD19TKA1XEV-D	1.9TB 2.5in Enter Value 24G SAS Kioxia G2 SSD	SAS	1.9 TB
Self-Encrypted Drives (SED) (1X or 3X)			
SATA			
UCS-SD960GM2NK9-D	960GB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)	SATA	960 GB
SAS			
UCS-SD76TBKANK9-D	7.6TB 2.5in Enter Value 12G SAS Kioxia G2 SSD (SED-FIPS)	SAS	7.6 TB
UCS-SD38TBKANK9-D	3.8TB 2.5in Enter Value 12G SAS Kioxia G2 SSD (SED-FIPS)	SAS	3.8 TB
UCS-SD16TBKANK9-D	1.6TB 2.5in Enter Perf 12G SAS Kioxia G2 SSD (3X SED-FIPS)	SAS	1.6 TB
PCIe/NVMe SFF (2.5-inch) SFF drives			
UCS-NVMEG4-M1536D	15.3TB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	U.3	15.3 TB
UCS-NVMEG4-M6400D	6.4TB 2.5in U.3 15mm P7450 Hg Perf Hg End NVMe (3X)	U.3	6.4 TB
UCS-NVB3T8M2V9[1]	3.8TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	U.3	3.8 TB
UCS-NVB1T9M2V9[1]	1.9TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	U.3	1.9 TB
UCS-NVB7T6M2V9[1]	7.6TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	U.3	7.6 TB
UCS-NVB15T3M2V9[1]	15.3TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	U.3	15.3 TB
UCS-NVB960M2V	960GB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	U.3	960 GB
UCS-NVB1T9M2V	1.9TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	U.3	1.9 TB
UCS-NVB3T2M2P	3.2TB 2.5in U.3 15mm Micron 7500 Hg Perf Hg End 3X NVMe	U.3	3.2 TB
UCS-NVB3T8M2V	3.8TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	U.3	3.8 TB
UCS-NVB7T6M2V	7.6TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	U.3	7.6 TB
UCS-NVB1T6M2P	1.6TB 2.5in U.3 15mm Micron 7500 Hg Perf Hg End 3X NVMe	U.3	1.6 TB
UCSC-BBLKD-M7 is included for the unselected storage device.			

Notes:

1. Micron 7500 SED-FIPS cannot be used for boot in direct attach mode. They can be used for boot via RAID controller.

Caveats

- You can mix HDDs and SSDs as long as you keep all HDDs in their own RAID volume and all SSDs in their own RAID volume.
- If you order more than 2 rear drives, you must also order two CPUs.
- SED drives can be mixed with non-SED drives in *Table 11 on page 22*
- U.3 NVMe drives selected with this Tri-mode RAID controller will be set to RAID attached as the factory default. However, they can operate in U.2 mode, directly attached to the CPU. This mode can be changed from the Cisco IMC if desired.

STEP 8 SELECT OPTION 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) 3.0
- Virtual Interface Cards (VICs)
- Network Interface Cards (NICs)
- Host Bus Adapters (HBAs)

Select Option Cards

NOTE:

- If a double-wide (DW) GPU is selected in Riser 2 Slot 5, it blocks Riser 2 Slot 6, preventing simultaneous selection of these adjacent PCIe slots.
- Refer to ***Cisco UCS C240 M8 Installation Guide*** for the more information

The available option cards are listed in ***Table 14***

Table 14 Available PCIe Option Cards

Product ID (PID)	PID Description	Location	Card Size[1]
Modular LAN on Motherboard (mLOM)[2]			
UCSC-M-V5Q50GV2-D	Cisco VIC 15427 4x 10/25/50G mLOM C-Series w/Secure Boot	mLOM	HHHL, SS
UCSC-M-V5D200GV2D	Cisco VIC 15237 2x 40/100/200G mLOM C-Series w/Secure Boot	mLOM	HHHL, SS
Open Compute Project (OCP)[3]			
UCSC-O-ID10GC-D	Intel X710T2LOCPV3G1L 2x10GbE RJ45 OCP3.0 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)[2]			
UCSC-P-V5Q50G-D	Cisco VIC 15425 4x 10/25/50G PCIe C-Series w/Secure Boot	Riser 2 only	HHHL, SS
UCSC-P-V5D200G-D	Cisco VIC 15235 2x 40/100/200G PCIe C-Series w/Secure Boot	Riser 2 only	HHHL, SS
Network Interface Cards (NICs)			
1GbE NICs			
UCSC-P-IQ1GC	Cisco-Intel I710-T4L 4x1GBASE-T NIC	Riser 2 or 3	HHHL, SS
10GbE NICs			

Table 14 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 2 or 3	HHHL, SS
UCSC-P-IQ10GC-D	Cisco-Intel X710T4LG 4x10GBE RJ45 PCIe NIC	Riser 2 or 3	HHHL, SS
25GbE NICs			
UCSC-P-I8D25GF-D	Cisco-Intel E810XXVDA2 2x25/10GBE SFP28 PCIe NIC	Riser 2 or 3	HHHL, SS
UCSC-P-N6D25GFO	NVIDIA OEM MCX631102AS-ADAT CX6Lx 2x25GbE SFP28 x8 PCIe NIC	Riser 2 or 3	HHHL, SS
UCSC-P-N7Q25GF	CX713104AS-ADAT: 4x25GbE SFP56 Gen4x16, PCIe NIC	Riser 2 or 3	HHHL, SS
UCSC-P-I8Q25GF-D	Cisco-Intel E810XXVDA4L 4x25/10 GbE SFP28 PCIe NIC	Riser 2 or 3	FHHL, SS
UCSC-P-N7Q25GFO	NVIDIA OEM CX713104AS-ADAT: 4x25GbE SFP56 Gen4x16, PCIe NIC	Riser 2 or 3	HHHL, SS
100GbE NICs			
UCSC-P-M6CD100GFO	NVIDIA OEM MCX623106AC-CDAT, 2x100 GbE QSFP56 PCIe Crypto	Riser 2 or 3	HHHL, SS
UCSC-P-M6DD100GFO	NVIDIA OEM MCX623106AS-CDAT, 2x100 GbE QSFP56 PCIe No Crypto	Riser 2 or 3	HHHL, SS
UCSC-P-I8D100GF-D	Cisco-Intel E810CQDA2 2x100 GbE QSFP28 PCIe NIC	Riser 2 or 3	HHHL, SS
200GbE NICs			
UCSC-P-N7D200GF	MCX755106AS-HEAT:CX-7 2x200GbE QSFP112 PCIe Gen5x16, VPI NIC	Riser 2 or 3	HHHL, SS
UCSC-P-N7D200GF	MCX755106AS-HEAT:CX-7 2x200GbE QSFP112 PCIe Gen5x16, VPI NIC	Riser 2 or 3	HHHL, SS
UCSC-P-N7D200GFO	NVIDIA OEM MCX755106AS-HEAT 2x200GbE QSFP112 PCIe Gen5 NIC	Riser 2 or 3	HHHL, SS
UCSC-P-N3220L	Nvidia OEM BlueField-3 B3220L SuperNIC 2x200G	Riser 2 or 3	FHHL, SS
UCSC-P-N3220	Nvidia OEM BlueField-3 B3220 DPU 2x200G	Riser 2 or 3	FHHL, SS
UCSC-P-NC3220L	Nvidia Crypto B3220L SuperNIC 2x200GbE/IB QSFP112 Gen5 FHHL	Riser 2 or 3	FHHL, SS
UCSC-P-NC3220	Nvidia Crypto B3220 DPU 2x200GbE/IB QSFP112 Gen5x16 FHHL	Riser 2 or 3	FHHL, SS
Host Bus Adapters (HBAs)			
UCSC-P-Q6D32GF-D	Cisco-QLogic QLE2772 2x32GFC Gen 6 Enhanced PCIe HBA	Riser 2 or 3	HHHL, SS
UCSC-P-B7D32GF-D	Cisco-Emulex LPe35002-M2-2x32GFC Gen 7 PCIe HBA	Riser 2 or 3	HHHL, SS
UCSC-PCIEBD16GF-D	Emulex LPe31002 dual port 16G FC HBA	Riser 2 or 3	HHHL, SS
UCSC-P-Q7D64GF	Cisco-QLogic QLE2872, 2x64GFC Gen 7 PCIe HBA	Riser 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			

Notes:

1. HHHL = half-height, half-length; FHHL = full-height, half-length; SS = single-slot; DS = double-slot. SFF = small form factor.
2. 50G speed on the 4-port and 200G speed on the 2-port are only supported on standalone servers with supported cables. Please refer to the **VIC 15000 series datasheet** for supported switches and cables.

3. 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.
4. This Virtual Interface Cards incorporate VIC Secure Boot technology.

Caveats

- For 1-CPU systems:
  - Riser 2 and 3 are not supported in 1-CPU system.
  - You can order an mLOM VIC card to be installed in the mLOM slot internal to the chassis. As Riser 1B is required, no PCIe slots available.
- For 2-CPU systems:
  - All the PCIe slots on riser 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 one PCIe VIC in Riser 2A (slot 4 or 5) or Riser 2C (slot 4).
    - Maximum 1 PCIe VIC per riser

  See ***Table 15 on page 30*** for the selection of plug-in and mLOM VIC cards.

  - 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.

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 9 ORDER GPU CARDS (OPTIONAL)

Select GPU Options

The available GPU PCIe options and their riser slot compatibilities are listed in ***Table 15***.



CAUTION:

- 256GB DIMMs cannot be combined with GPU cards.
- When a GPU>75W is installed, CPUs with TDP greater than 330W are not supported and ambient temperature shall be limited to a maximum of 28°C.



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 75W 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 a double-wide (DW) GPU is selected in Riser 2 Slot 5, it blocks Riser 2 Slot 6, preventing simultaneous selection of these adjacent PCIe slots.
- Please refer to ***Cisco UCS C240 M8 Installation Guide*** for the installation of the GPUs.

Table 15 Available PCIe GPU Cards

GPU Product ID (PID)	PID Description	Card Size	Max GPU Per Node	Riser Slot Compatibility	
				Riser 2A/2C	Riser 3A/3C
UCSC-GPU-L40S	NVIDIA L40S: 350W, 48GB, 2-slot FHFL GPU	double -wide	1	slot 5	n/a
UCSC-GPU-L4	NVIDIA L4:70W, 24GB, 1-slot HHHL GPU	Single-wide	5	All slots	All slots
UCSC-GPU-A16-D	NVIDIA A16 PCIE 250W 4X16GB	double -wide	1	slot 5	n/a
UCSC-GPU-H200-NVL[1]	NVIDIA OEM H200-NVL GPU 600W, 141GB, 2-slot FHFL	double -wide	1	slot 5	n/a

Table 15 Available PCIe GPU Cards

GPU Product ID (PID)	PID Description	Card Size	Max GPU Per Node	Riser Slot Compatibility
Accessories/spare included with GPU: ■ When a GPU ready configuration is ordered, special airblocker PID (UCSC-RISAB-24XM7) are installed in empty risers. ■ Air duct (UCSC-GPUAD-C240M8L) 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. ■ CBL-G5GPU-C240M7 power cable included with the selection of L40S .H200 NVL GPUs. ■ UCS-P100CBL-240-D power cable included with the selection of A16 GPU. **NOTE:** If you are adding GPUs later to non GPU ready configuration, you need to order the GPU air duct and GPU airblockers along with the GPU.				

Notes:

1. If UCSC-GPU-H200-NVL selected Cisco recommends Memory Minimum to be 3X the total GPU Memory.

STEP 10 ORDER M.2 BOOT RAID CONTROLLER and SATA SSDs (OPTIONAL)

- Order Cisco boot optimized M.2 RAID controller from ***Table 16***. The boot optimized RAID controller plugs into a connector on the motherboard and holds up to two M.2 SATA drives.

NOTE:

- 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
- Up to 1 Boot-Optimized RAID Controller is supported per system

Table 16 Boot-Optimized RAID Controller

Product ID (PID)	PID Description	M.2 Location	Hot- Swappable_M.2
UCS-M2-HWRAID2[1]	Cisco Boot optimized M.2 Raid controller for SATA drives	Internal	No
UCSC-M2RM-M8[2]	UCS C220/240 M8 Rear Hot-plug M.2 module (MLOM)	MLOM Slot	Yes
UCSC-M2RR-240M8	UCS C240 M8 Rear Hot-plug M.2 module (Riser 3)	By Riser 3	Yes

Notes:

1. UCS-M2-HWRAID2 plugs into a connector on the motherboard and holds up to two M.2 SATA drives. Hot-plug replacement of the M.2 drives is not supported with UCS-M2-HWRAID2. The server must be powered off. UCSC-M2I-240M8L is auto included with UCS-M2-HWRAID2. If you are adding M.2 RAID controller as spare, you may need to order accessories with it.
2. UCSC-M2RM-M8 is installed in the mLOM location. If UCSC-M2RM-M8 is selected, mLOM/OCP card cannot be used. Hot-plug replacement of the M.2 drives is supported with UCSC-M2RM-M8. CBL-M2RM-240M8 is auto included with UCSC-M2RM-M8. If you are adding M.2 RAID controller as spare, you may need to order accessories with it.

- Order one or two matching M.2 SATA SSDs from ***Table 17*** along with a boot-optimized RAID controller (see ***Table 16***). 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 17 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

STEP 11 ORDER POWER SUPPLY (REQUIRED)

Power supplies share a common electrical and physical design that allows for hot-plug and tool-less installation into M8 C-series servers. Each power supply is certified for high-efficiency operation and offers multiple power output options. This allows users to “right-size” based on server configuration, which improves power efficiency, lowers overall energy costs and avoids 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 18 Power Supply

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



NOTE:

- In a server with two power supplies, both power supplies must be identical.
- Refer to ***Power Specifications, page 53*** section for the full details on the each power supply.

STEP 12 SELECT INPUT POWER CORD(s) (REQUIRED)

Using ***Table 19*** and ***Table 20***, 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 19*** lists the power cords for servers that use power supplies less than 2300 W. ***Table 20*** 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 19 Available Power Cords (for server PSUs less than 2300 W)

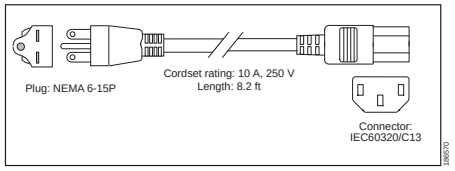
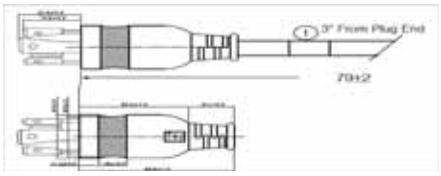
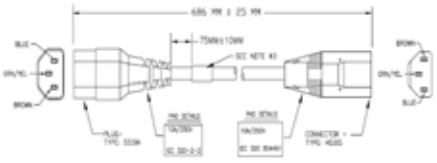
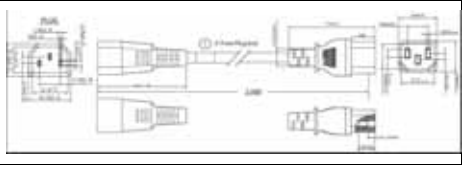
Product ID (PID)	PID Description	Images
NO-POWER-CORD	ECO friendly green option, no power cable will be shipped	
CAB-48DC40A8AWG-D	C-Series -48VDC PSU Power Cord, 3.5M, 3 Wire, 8AWG, 40A	
CAB-N5K6A-NA	Power Cord, 200/240V 6A, North America	
CAB-AC-L620-C13-D	AC Power Cord, NEMA L6-20 - C13, 2M/6.5ft	
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 19 Available Power Cords (for server PSUs less than 2300 W)

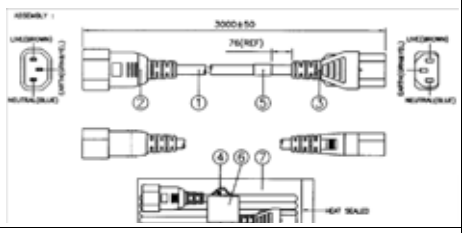
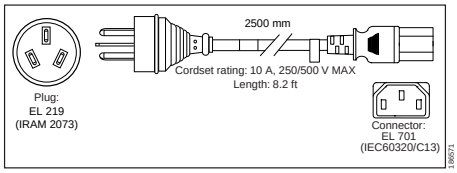
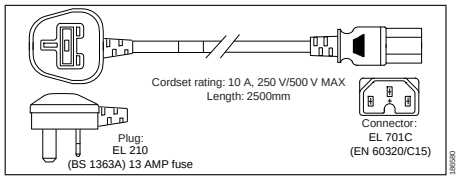
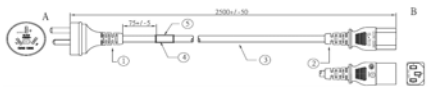
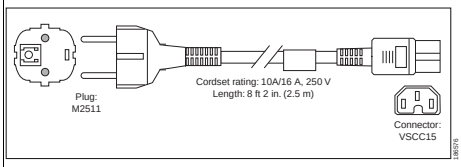
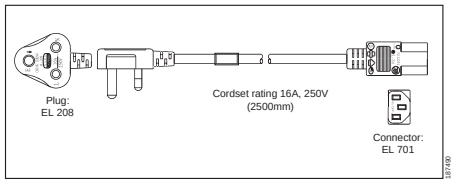
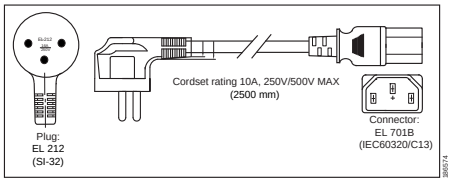
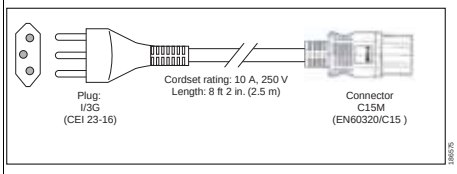
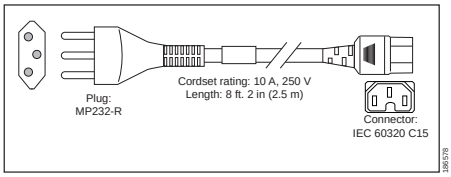
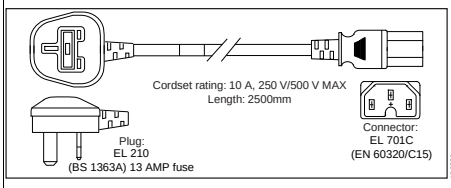
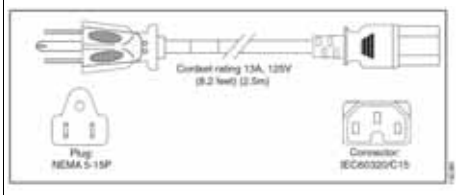
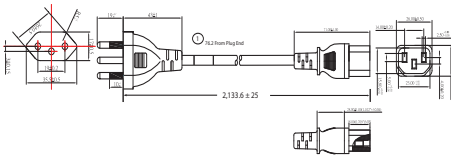
Product ID (PID)	PID Description	Images
CAB-C13-C14-AC	CORD,PWR,JMP,IEC60320/C14,IEC60320/C13, 3.0M	
CAB-250V-10A-AR	Power Cord, 250V, 10A, Argentina	
CAB-9K10A-AU	Power Cord, 250VAC 10A 3112 Plug, Australia	
CAB-250V-10A-CN	AC Power Cord - 250V, 10A - PRC	
CAB-9K10A-EU	Power Cord, 250VAC 10A CEE 7/7 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 19 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-C19-C20-IND-D	Power Cord C19-C20 India	Image not available
CAB-C19C203M-JP-D	Power Cord C19-C20, 3M/10ft Japan PSE mark	Image not available
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 20 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
NO-POWER-CORD	ECO friendly green option, no power cable will be shipped	Image not available

STEP 13 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 21***.

NOTE:

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

Table 21 Tool-less Rail Kit Options

Product ID (PID)	PID Description
UCSC-RAIL-D	Ball Bearing Rail Kit for M8 rack servers
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 22***.

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

Table 22 Cable Management Arm

Product ID (PID)	PID Description
UCSC-CMA-C240-D	Reversible CMA for M8 ball bearing rail kit

For more information about the tool-less rail kit and cable management arm, check the ***Cisco UCS C240 M8 Installation Guide***.

STEP 14 SELECT MANAGEMENT CONFIGURATION (OPTIONAL)

By default, the 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 Management Controller (CIMC). The Cisco VIC card must be installed in a slot with NCSI support.

NOTE:

- There are no LOM ports on the C220 and C240 M8 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/C240M8/install/b-c240-m8-installation-guide.html

Table 23 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, page 5* 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 26 on page 46* can be ordered for setting the server to operate in various modes.

STEP 15 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 24***



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 24 Security Devices

Product ID (PID)	PID Description
UCS-TPM-002D-D	TPM 2.0 TCG FIPS140-2 CC+ Cert M7 Intel MSW2022 Compliant
UCSX-TPM-OPT-OUT-D	OPT OUT, TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified[1]
UCSC-INT-SW02-D	C220 and C240 M8 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 16 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 25***.

Table 25 Locking Bezel Option

Product ID (PID)	Description
UCSC-BZL-C240-D	C240 M8 Security Bezel

STEP 17 SELECT OPERATING SYSTEM

NOTE:

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

Table 26 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
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

Table 26 Operating System *(continued)*

Product ID (PID)	PID Description
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
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

Table 26 Operating System *(continued)*

Product ID (PID)	PID Description
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 CISCO INTERSIGHT

Cisco Intersight™ is a Software-as-a-Service (SaaS) hybrid cloud operations platform which delivers intelligent automation, observability, and optimization to customers for traditional and cloud-native applications and infrastructure.

Product ID (PID)	
DC-MGT-SAAS	Cisco Intersight SaaS

Select Cisco Intersight subscription option as desired from *Table 27*

Table 27 Cisco Intersight

Product ID (PID)	PID Description
Cisco Intersight 2.0 Infrastructure Services	
DC-MGT-IS-SAAS-ES[1]	Infrastructure Services SaaS/CVA - Essentials
DC-MGT-IS-SAAS-AD[1]	Infrastructure Services SaaS/CVA - Advantage
DC-MGT-IS-PVAPP-ES[1]	Infrastructure Services PVA - Essentials
DC-MGT-IS-PVAPP-AD[1]	Infrastructure Services PVA - Advantage
Add-Ons	
DC-MGT-IS-UCSD	UCS Director - 1 Server License (includes Network, Storage)
Cisco Intersight Workload Optimizer (IWO) - SaaS	
VM Instance	
DC-MGT-WO-SAAS-ES[1]	Cisco Intersight Workload Optimizer SaaS - Essentials
DC-MGT-WO-SAAS-AD[1]	Cisco Intersight Workload Optimizer SaaS - Advantage
DC-MGT-WO-SAAS-PR[1]	Cisco Intersight Workload Optimizer SaaS - Premier
VDI Instance	
DC-MGT-WOD-SAAS-ES[1]	Cisco Intersight Workload Optimizer SaaS VDI - Essentials
DC-MGT-WOD-SAAS-AD[1]	Cisco Intersight Workload Optimizer SaaS VDI - Advantage
DC-MGT-WOD-SAAS-PR[1]	Cisco Intersight Workload Optimizer SaaS VDI - Premier

Notes:

1. Smart account (SA) required

Select Cisco Intersight support option as desired from *Table 28*

Table 28 Cisco Intersight Support

Product ID (PID)	PID Description
Cisco Intersight Support	
SVS-SSTCS-DCMGMT[1]	Solution Support for DC Mgmnt
SVS-L1DCS-INTER[1]	CXL1 for INTERSIGHT
SVS-L2DCS-INTER[1]	CXL2 for INTERSIGHT
SVS-DCM-SUPT-BAS	Basic Support for DCM

Notes:

1. Smart account (SA) required



NOTE: An Intersight license is required for every server.

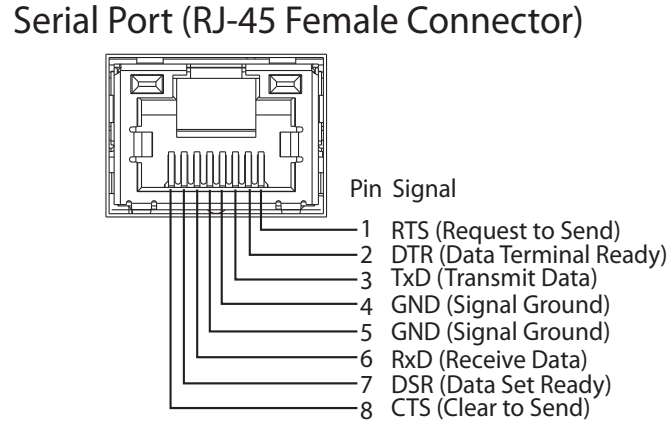
SUPPLEMENTAL MATERIAL

PCIe Port Assignment

Slots	CPU1	CPU2
Riser 1 B	Gen4 x4 each drive Slot1: Gen4x16 for RAID/HBA	
Riser 2 A		Slot 4: Gen5 x8 Slot 5: Gen5 x16 Slot 6: Gen5 x8
Riser 2 C		Slot 4: Gen5 x16 Slot 5: Gen5 x16
Riser 3 A		Slot 7: Gen5 x8 Slot 8: Gen5 x8
Riser 3 B		Gen4 x4 each drive
Riser 3 C		Slot 7: Gen5 x16
mLOM / OCP	Gen4 x16	
M.2 Boot RAID	Gen3 x2	

Serial Port Details

Figure 5 Serial Port (Female RJ-45 Connector) Pinout



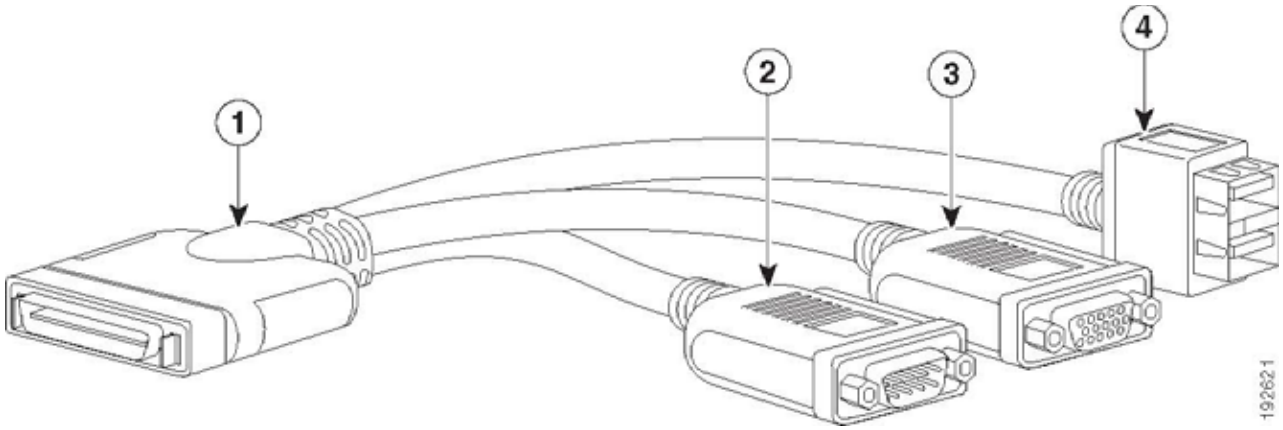
KVM Cable

The KVM cable provides a connection into the server, providing a DB9 serial connector, a VGA connector for a monitor, and dual USB 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.

Table 29 KVM Cable

Product ID (PID)	PID Description
N20-BKVM	KVM cable for UCS Server console port

Figure 6 KVM Cable



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

SPARE PARTS

This section lists the upgrade and service-related parts for the UCS C240 M8 LFF server. Some of these parts are configured with every server.

- Spare parts for the Cisco UCS C240 M8 LFF server use the same Product IDs (PIDs) as the **regular components**, with the addition of an **equals sign (=) at the end** of the PID. For example, if the regular PID for a component is **UCS-CPU-I6760P**, its corresponding spare PID would be **UCS-CPU-I6760P=**
- Therefore, to find the full list of available spare parts and their descriptions, refer to the relevant sections for each component (e.g., Risers, CPUs, Memory, Drive Controllers, Drives, PCIe Cards, Power Supplies, etc.) and append an = to the listed PIDs.



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 30***.

- However, the ***Table 30*** below lists the spare parts and their descriptions. These are different from the main components described in previous sections. This table is the complete list for all spare part IDs (they end with an '=' sign), as these specific spare parts are not listed individually in those earlier sections.

Table 30 Spare Parts

Product ID (PID)	PID Description
UCSC-HSLP-C220M8=	Heatsink for C220M8, C240M8L and C240M8 w/GPU
UCS-DDR5-BLK=	UCS DDR5 DIMM Blanks
UCSC-FBRS2-C240-D=	C240 M7 2U Riser2 Filler Blank
UCSC-FBRS3-C245=	C245 M8 2U Riser3 Filler Blank, Non-Perforated
UCSC-BBLKD-L3=	C-Series M8 LFF drive blanking panel
UCSC-BBLKD-M7=	UCS C-Series M7 SFF drive blanking panel
UCSC-PSU-BLK-D=	Power Supply Blanking Panel for M7 / M8 servers
CBL-M2RM-240M8=	C240M8 rear Hot-plug M.2 (MLOM/OCP) cable
CBL-RISB-C240M8L=	C240M8 LFF cable RAID to Riser 1B&3B
CBL-MP-240M8L-C=	C240M8 LFF CFG cable Riser1B to MP
CBL-MP-240M8L-P=	C240M8 LFF PWR cable Riser1B to MP
UCSC-M2I-240M8L=	UCS C240 M8L Internal M.2 module
UCSC-RISAB-24XM7=	UCS C-Series M7 2U Air Blocker GPU only
CBL-G5GPU-C240M7=	C240M7 PCIe CEM compliant 12VHPWR power cable(upto 450W)
UCS-P100CBL-240-D=	C240 NVIDIA P100 /A100 /A40 / **A16** / A30 Cable
UCS-M10CBL-C240M7=	C240 GPU Power Cable for the UCSC-GPU-FLEX170
UCSC-OCP3-KIT-D=	C2XX OCP 3.0 Interposer W/Mech Assy
UCSC-GPUAD-240M8L=	GPU AIR DUCT FOR C240M8 LFF

Table 30 Spare Parts

Product ID (PID)	PID Description
UCSC-MPKIT-240M8L=	UCS C240M8L MID PLANE KIT 4x3.5" HDD
UCSC-FAN-C240M8=	UCS C240M8 Fan

TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 31 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	
0*3.5” HDDs, 0*CPU(w/o HS), 0*DIMM, 1*2300W PSU, Middle Storage(w/o 3.5" HDD), mLOM, riser cage 1(w/o 2.5" HDD & PCIe), riser cage 2(w/o PCIe), riser cage 3(w/o 2.5" HDD)	20.12 kg = 44.36 lb
0*3.5” HDDs, 0*CPU(w/o HS), 0*DIMM, 1*2300W PSU, Middle Storage(w/o 3.5" HDD), mLOM, riser cage 1(w/o 2.5" HDD & PCIe), riser cage 2(w/o PCIe), riser cage 3(w/o 2.5" HDD), **Rail kit**	23.88 kg = 52.65 lb
1*3.5” HDDs, 2*CPU(w/HS), 1*DIMM, 1*2300W PSU, Middle Storage(w/o 3.5" HDD), mLOM, riser cage 1(w/o 2.5" HDD & PCIe), riser cage 2(w/o PCIe), riser cage 3(w/o 2.5" HDD)	21.99 kg = 48.48 lb
1*3.5” HDDs, 2*CPU(w/HS), 1*DIMM, 1*2300W PSU, Middle Storage(w/o 3.5" HDD), mLOM, riser cage 1(w/o 2.5" HDD & PCIe), riser cage 2(w/o PCIe), riser cage 3(w/o 2.5" HDD), **Rail kit**	25.75 kg = 56.77 lb
12*3.5” HDDs, 2*CPU(w/HS), 32*DIMM, 2*2300W PSU, Middle Storage(w/ 4*3.5" HDD), mLOM, riser cage 1(w/ 2*2.5" HDD & PCIe), riser cage 2(w/o PCIe), riser cage 3(w/ 2*2.5" HDD)	34.07 kg = 75.11 lb
12*3.5” HDDs, 2*CPU(w/HS), 32*DIMM, 2*2300W PSU, Middle Storage(w/ 4*3.5" HDD), mLOM, riser cage 1(w/ 2*2.5" HDD & PCIe), riser cage 2(w/o PCIe), riser cage 3(w/ 2*2.5" HDD), **Rail kit**	37.83 kg = 83.40 lb

Power Specifications

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

- 1050W (DC) power supply (see ***Table 32***)
- 1200 W (AC) power supply (see ***Table 33***)
- 1600 W (AC) power supply (see ***Table 34***)
- 2300 W (AC) power supply (see ***Table 35***)

Table 32 1050W (DC) Power Supply Specifications

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 33 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 34 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 35 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 the server are listed in ***Table 36***.

Table 36 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 37 Cisco UCS C240 M8 Extended Operating Temperature Hardware Configuration Limits

Platform[1]	ASHRAE A3 (5ºC to 40ºC)[2]	ASHRAE A4 (5ºC to 45ºC)[3]
Processor	<=350W	<=250W (up to 350W supported with Riser 2 only)
DIMMs	<= 128GB	<= 128GB
GPU	Not Supported	Not Supported
PCIe	PCIe Gen 4 devices only	PCIe Gen 4 devices 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	SATA M.2 Supported
PSUs	2x2300W PSUs required in redundant mode	2x2300W PSUs required in redundant mode
MLOM / OCP	4x25G MLOM only. No OCP support.	4x25G 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 38***.

Table 38 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 39 EOS

Product ID	Description	EOL/EOS link
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
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
UCSB-CABL-C19-BRZ	NBR 14136 to C19 AC 14FT POWER CORD, BRAZIL	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15715.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-NVMEG4-M1600D	1.6TB 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-M7680D	7.6TB 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-accessories-eol15875.html
UCS-MRX48G1RF5	48GB DDR5-6400 RDIMM 1Rx4 (24Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15910.html
UCS-HDL20TT1S74K	20TB 3.5in 12G SAS 7.2K RPM 4K Toshiba HDD	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-HDM20TT1S74K	20TB 3.5in 12G SAS 7.2K RPM 4K Mid Plane Toshiba HDD	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-MRX48G1RF5	48GB DDR5-6400 RDIMM 1Rx4 (24Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15910.html
UCS-MCX32G2RE11	32GB DDR5 MRDIMM 8800 2Rx8 (16Gb)	-
UCS-MCX64G2RE11	64GB DDR5 MRDIMM 8800 2Rx4 (16Gb)	-



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