

Cisco UCS C240 M7 SFF 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 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 4*):
 - 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 4*):
 - Up to 24 front facing SFF NVMe SSDs (drives are direct-attach to PCle 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.

See Figure 1 on page 4 for front and rear views of all the configurations of the UCS C240 M7 server.

Figure 1 Cisco UCS C240 M7 SFF Rack Server

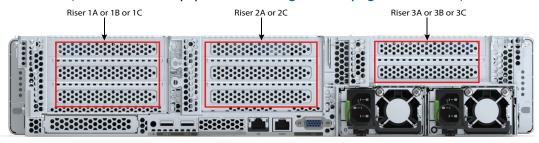
Option 1

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 5* for details)



Rear View (all slots shown unpopulated - see Figure 3 on page 6 for details)



Option 2

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

Front View (all slots shown unpopulated - see Figure 4 on page 8 for details)



Rear View (all slots shown unpopulated - see *Figure 5 on page 9* for details)

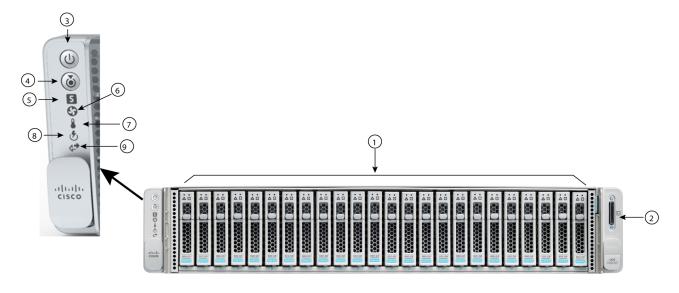


DETAILED VIEWS

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)

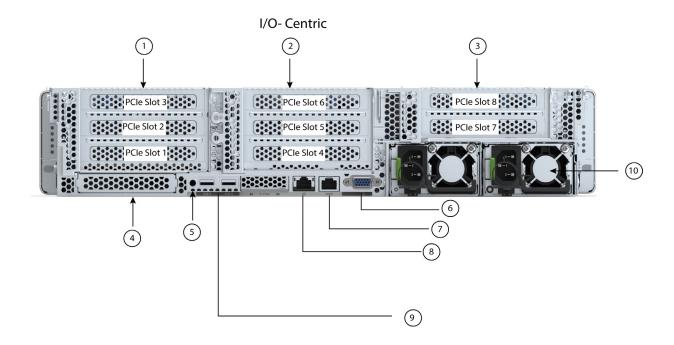


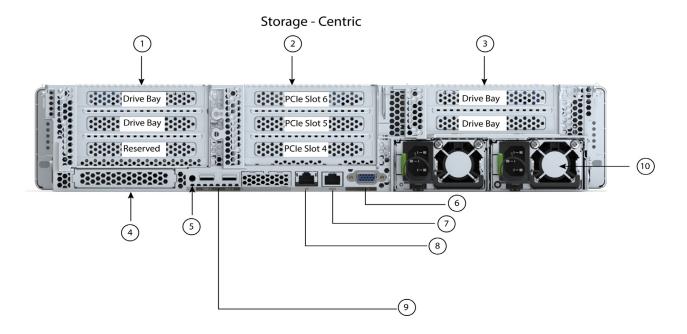
1	Drive bays 1 - 24 supports up to 24 front facing SFF SAS/SATA HDDs or SAS/SATA SSDs or NVMe SSDs (optionally up to 4 of the slots can be direct-attach NVMe).	6	Fan status LED
2	KVM connector (used with KVM cable that provides two USB 2.0, one VGA, and one serial connector)	7	Temperature status LED
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)



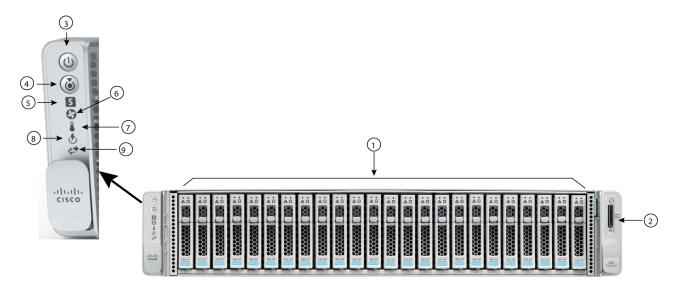


Supports three Gen 4 PCle slots: Stot 1 is full-height, 3/4 length, x8, NCSI, single wide GPU Slot 2 is full-height, full-length, x16, NCSI, single/double wide GPU Slot 3 is full-height, full-length, x8, no NCSI, single wide GPU Riser 1B (storage-centric, CPU1 control) Supports two drive bays: Slot 1 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 PCle 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 There are two Riser 2 options: Riser 2A (I/O-centric, Gen 4, CPU2 control) Supports three Gen 4 PCle slots: Slot 4 is full-height, 3/4 length, x8, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, NCSI, single wide GPU Riser 2C (I/O-centric, Gen 5, CPU2 control) Supports two Gen 5 PCle slots: Slot 4 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU 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 Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU Slot 7 is one full-height, x8, no NCSI, single wide GPU Slot 7 is one full-height, full-length, x16, no NCSI, double wide GPU Slot 7 is one full-height, full-length, x16, no NCSI, double wide GPU	1	There are three Riser 1 options:	6	VGA display port
■ 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 102, x4, SAS/SATA/NVMe Riser 1C (I/O-centric, Gen 5, CPU1 control) Supports two Gen 5 PCle slots: ■ Slot 2 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 2 is full-height, full-length, x16, no NCSI, single/double wide GPU ■ Slot 4 is full-height, 3/4 length, x8, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 6 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ 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 ■ Slot 7 is very drive bays: ■ Drive bay 104, x4, SAS/SATA/NVMe ■ Drive bay 103, x4, SAS/SATA/NVMe ■ Drive bay 104, x4, SAS/SATA/NVMe ■ Drive bay 104, x4, SAS/SATA/NVMe ■ Drive bay 105, x4, SAS/SATA/NVMe ■ Drive bay 105, x4, SAS/SATA/NVMe ■ Drive bay 106, x4, SAS/SATA/NVMe ■ Drive bay 107, x4, SAS/SATA/NVMe ■ Drive bay 108, x4, SAS/SATA/NVMe ■ Drive bay 108, x4, SAS/SATA/NVMe ■ Drive bay 109, x4, SAS/SATA/NVMe		Riser 1A (I/O-centric, Gen 4, CPU1 control)		(DB15 connector)
■ 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 101, x4, SAS/SATA/NVMe ■ Drive bay 101, x4, SAS/SATA/NVMe Riser 1C (I/O-centric, Gen 5, CPU1 control) Supports two Gen 5 PCle slots: ■ Slot 2 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 ■ Slot 5 is full-height, full-length, x8, NCSI, single wide GPU ■ Slot 6 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 6 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is one full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is one full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is one full-height, full-length, x16, no NCSI, double wide GPU		Supports three Gen 4 PCIe slots:		
■ 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, SA5/SATA/NVMe ■ Drive bay 101, x4, SA5/SATA/NVMe Riser 1C (I/O-centric, Gen 5, CPU1 control) Supports two Gen 5 PCle 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 2 There are two Riser 2 options: Riser 2A (I/O-centric, Gen 4, CPU2 control) Supports three Gen 4 PCle slots: ■ Slot 4 is full-height, full-length, x8, NcSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 6 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU ■ Slot 8 is full-height, f		■ Slot 1 is full-height, 3/4 length, x8, NCSI, single wide GPU		
Riser 1B (storage-centric, CPU1 control) Supports two drive bays: Slot 1 is reserved Trive bay 102, x4, SAS/SATA/NVMe Sirer 1C (I/O-centric, Gen 5, CPU1 control) Supports two Gen 5 PCle slots: Slot 2 is full-height, 3/4 length, x16, NCSI, single wide GPU Slot 2 is full-height, 3/4 length, x16, no NCSI, single/double wide GPU Supports three Gen 4 PCle slots: Slot 4 is full-height, 3/4 length, x8, NCSI, single wide GPU Slot 5 is full-height, full-length, x8, NCSI, single wide GPU Slot 6 is full-height, full-length, x8, no NCSI, single wide GPU Slot 6 is full-height, full-length, x8, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, NCSI, single wide GPU Slot 5 is full-height, full-length, x16, NCSI, single wide GPU Slot 5 is full-height, full-length, x16, NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU Slot 5 is full-height, full-length, x8, no NCSI, single wide GPU 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 Slot 8 is full-height, full-length, x8, no NCSI, single wide GPU Slot 8 is full-height, full-length, x8, no NCSI, single wide GPU Slot 8 is full-height, full-length, x8, no NCSI, single wide GPU 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 Slot 8 is full-height, full-length, x8, no NCSI, single wide GPU Slot 7 is full-height, full-length, x8, no NCSI, single wide GPU Slot 7 is full-height, full-length, x16, no NCSI, double wide GPU		■ Slot 2 is full-height, full-length, x16, NCSI, single/double wide GPU		
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■ 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 PCle 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 2 There are two Riser 2 options: Riser 2A (I/O-centric, Gen 4, CPU2 control) Supports three Gen 4 PCle slots: ■ Slot 4 is full-height, 3/4 length, x8, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single 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 PCle slots: ■ Slot 4 is full-height, full-length, x16, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, no NCSI, single wide GPU ■ Slot 6 is full-height, full-length, x16, no NCSI, single wide GPU ■ 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 ■ 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 ■ Drive bay 104, x4, SAS/SATA/NVMe ■ Drive bay 105, x4, SAS/SATA/NVMe ■ Drive bay 107, x4, SAS/SATA/NVMe ■ Drive bay 108, x4, SAS/SATA/NVMe ■ Drive bay 109, x4, SAS/SATA/NVMe		,		
■ 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 PCle slots: ■ Slot 2 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 2 There are two Riser 2 options: Riser 2A (I/O-centric, Gen 4, CPU2 control) Supports three Gen 4 PCle slots: ■ Slot 4 is full-height, 3/4 length, x8, NCSI, single wide GPU ■ Slot 5 is full-height, full-length, x16, NCSI, single 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 PCle slots: ■ Slot 4 is full-height, full-length, x16, NCSI, single wide GPU Riser 3A (I/O-centric, CPU2 control) Supports two PCle slots: ■ Slot 7 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 PCle Slot: ■ Slot 7 is one full-height, full-length, x16, no NCSI, double wide GPU Slot 7 is one full-height, full-length, x16, no NCSI, double wide GPU		Supports two drive bays:		
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■ Slot 7 is one full-height, full-length, x16, no NCSI, double wide GPU		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)		
4 Modular LAN-on-motherboard (mLOM)/OCP 3.0 card slot (x16) 9 USB 3.0 ports (two)	4		9	USB 3.0 ports (two)
5 System ID pushbutton/LED 10 Power supplies (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	-	-

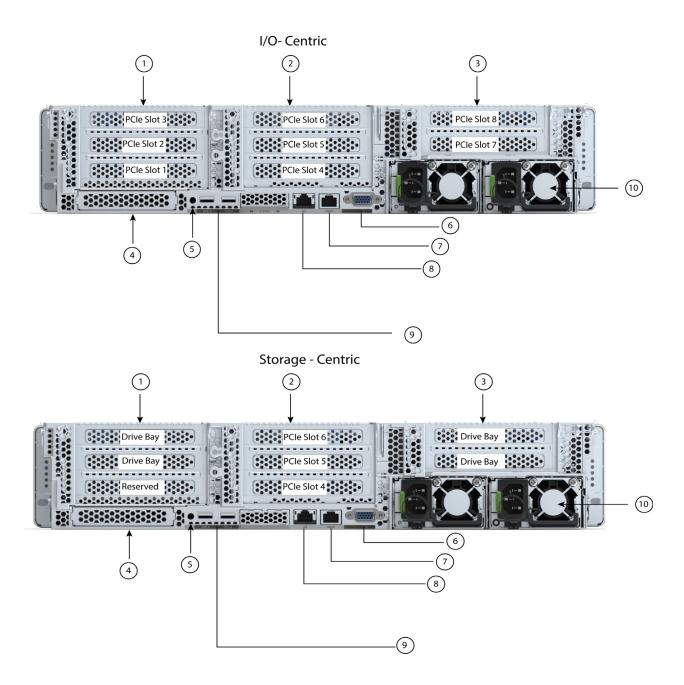
Notes:

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:	6	VGA display port
	Riser 1A (I/O-centric, Gen 4, CPU1 control)		(DB15 connector)
	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		
2	There are two Riser 2 options:	7	COM port (RJ45
	Riser 2A (I/O-centric, Gen 4, CPU2 control)		connector)
	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		
3	There are three Riser 3 options	8	1 GbE dedicated Ethernet
	Riser 3A (I/O-centric, CPU2 control)		management port
	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)		
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, disk drives, or amount of memory) are provided in **CONFIGURING the SERVER**, page 14.

Table 1 Capabilities and Features

Capability/ Feature	Description
Chassis	Two rack unit (2RU) chassis
CPU	One or two 5 th Gen. Intel® Xeon® Scalable Processors or One or two 4 th 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 5 th Gen. Intel [®] Xeon [®] Scalable Processors (16 per CPU) or 32 total DDR5-4800 MT/s DIMM slots with 4 th Gen. Intel [®] Xeon [®] Scalable Processors
	■ Up to 8TB DDR5-5600 DIMM memory capacity (32x 256GB DIMMs) with 5 th Gen. Intel [®] Xeon [®] Scalable Processors or Up to 8TB DDR5-4800 DIMM memory capacity (32x 256GB DIMMs) with 4 th 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 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:
	■ 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.

Capability/	
Feature	Description
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 70.
Internal storage	Drive Storage:
devices	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	Internal storage controllers:
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	The dedicated mLOM/OCP 3.0 slot on the motherboard can flexibly accommodate the
Motherboard (mLOM)/Open Compute Project (OCP) 3.0 slot	following cards:
	■ Cisco Virtual Interface Cards
	OCP 3.0 network interface card

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, 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.
Fabric Interconnect	Compatible with the Cisco UCS 6454, 64108 and 6536 fabric interconnects
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	■ UEFI Spec 2.9
standards	■ 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 15
- STEP 2 SELECT RISER CARDS (REQUIRED), page 16
- STEP 3 SELECT CPU(s) (REQUIRED), page 18
- STEP 4 SELECT MEMORY (REQUIRED), page 24
- STEP 5 SELECT DRIVE CONTROLLERS (OPTIONAL), page 31
- STEP 6 SELECT DRIVES (OPTIONAL), page 36
- STEP 7 SELECT PCIe CARD(s) (OPTIONAL), page 41
- STEP 8 ORDER GPU CARDS (OPTIONAL), page 45
- STEP 9 ORDER POWER SUPPLY (REQUIRED), page 48
- STEP 10 SELECT INPUT POWER CORD(s) (REQUIRED), page 49
- STEP 11 ORDER TOOL-LESS RAIL KIT (REQUIRED) AND REVERSIBLE CABLE MANAGEMENT ARM (OPTIONAL), page 53
- STEP 12 SELECT MANAGEMENT CONFIGURATION (OPTIONAL), page 54
- STEP 13 ORDER SECURITY DEVICES (REQUIRED), page 55
- STEP 14 SELECT LOCKING SECURITY BEZEL (OPTIONAL), page 56
- STEP 15 ORDER M.2 SATA SSDs (OPTIONAL), page 57
- STEP 16 ORDER M.2 NVMe AND RAID CONTROLLER(OPTIONAL), page 58
- STEP 17 SELECT OPERATING SYSTEM AND VALUE-ADDED SOFTWARE, page 59
- STEP 18 CHOOSE OPTIONAL OPERATING SYSTEM MEDIA KIT, page 63

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	Small form-factor (SFF) drives, with 24-drive backplane.
(Option 1)	 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	Small form-factor (SFF) drives, with 24-drive backplane.
(Option 2)	■ 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 disk 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	C240 M7 Riser 1A PCIe Gen4 (controlled with CPU1)
(I/O riser, Gen 4)	 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
(coordige room)	■ 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	C240 M7 Riser 1C PCIe Gen 5 (controlled with CPU1)
(I/O riser, Gen 5)	■ 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 mu	st be selected)
UCSC-RIS2A-240-D	C240 M7 Riser 2A PCIe Gen4 (controlled with CPU2)
(I/O riser, Gen 4)	 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	C240 M7 Riser 2C PCIe Gen5 (controlled with CPU2)
(I/O riser, Gen 5)	■ 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 mus	st be selected)
UCSC-RIS3A-240-D	C240 M7 Riser 3A PCIe Gen4 (controlled with CPU2)
(I/O riser, Gen 4)	■ Slot 7 is full-height, full-length, x8
	■ Slot 8 is full-height, full-length, x8
UCSC-RIS3B-24XM7	C240 M7 Riser 3B (controlled with CPU2)
(storage riser)	■ Drive bay 104, x4, SAS/SATA/NVMe drives
	■ Drive bay 103, x4, SAS/SATA/NVMe drives
UCSC-RIS3C-240-D	C240 M7 Riser 3C (controlled with CPU2)
(GPU riser)	■ 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-M1L32, 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-M1L32, or UCSC-HBA-M1L16).

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 70
- For GPU support on a particular riser slot, see Table 21 on page 45

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 available 5th Gen Intel® Xeon® Scalable CPUs are listed in *Table 5*. See *Table 7 on page* 22 for CPU suffix notations.
- The available 4th Gen Intel® Xeon® Scalable CPUs are listed in *Table 6*. See *Table 7 on page* 22 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	Segment/Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support
(PID)		(S)	(C)	(GHz)	(W)	(MB)	(MT/s)
8000 Series Proces	ssors						
UCS-CPU-I8592V	Cloud/SaaS/IaaS	25	64	2.00	330W	320.00	4800
UCS-CPU-I8592+	2S Performance	25	64	1.90	350W	320.00	5600
UCS-CPU-I8581V ¹	1-S Cloud/SaaS	15	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	15	52	2.40	300	300.00	4800
UCS-CPU-I8570	2S Performance	25	56	2.10	350	300.00	5600
UCS-CPU-I8568Y+	2S Performance	25	48	2.30	350	300.00	5600
UCS-CPU-I8562Y+	2S Performance	25	32	2.80	300	60.00	5600
UCS-CPU-I8558U ¹	1-Socket Optimized	15	48	2.00	300	260.00	4800
UCS-CPU-I8558P	Cloud/SaaS/IaaS	25	48	2.70	350	260.00	5600
UCS-CPU-I8558	2S Mainline	25	48	2.10	330	260.00	5200
6000 Series Proces	ssors						
UCS-CPU-I6554S	Storage	25	36	2.20	270	180.00	5200
UCS-CPU-I6548Y+	2S Performance	25	32	2.50	250	60.00	5200
UCS-CPU-I6548N	Networking	25	32	2.80	250	60.00	5200
UCS-CPU-I6544Y	2S Performance	25	16	3.60	270	45.00	5200
UCS-CPU-I6542Y	2S Performance	25	24	2.90	250	60.00	5200
UCS-CPU-I6538Y+	2S Mainline	25	32	2.20	225	60.00	5200
UCS-CPU-I6538N	Networking	25	32	2.10	205	60.00	5200
UCS-CPU-I6534	2S Performance	25	8	3.90	195	22.50	4800
UCS-CPU-I6530	2S Mainline	25	32	2.10	270	160.00	4800
UCS-CPU-I6526Y	2S Performance	25	16	2.80	195	37.50	5200
5000 Series Processors							
UCS-CPU-I5520+	2S Mainline	25	28	2.20	205	52.50	4800
UCS-CPU-I5515+	2S Performance	25	8	3.20	165	22.50	4800
UCS-CPU-I5512U ¹	1-Socket Optimized	15	28	2.10	185	52.50	4800
4000 Series Proces	ssors				-		
UCS-CPU-I4516Y+	2S Mainline	2S	24	2.20	185	45.00	4400

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

Product ID	Segment/Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support
(PID)		(S)	(C)	(GHz)	(W)	(MB)	(MT/s)
UCS-CPU-I4514Y	2S Mainline	25	16	2.00	150	30.00	4400
UCS-CPU-I4510T ²	EDGE (IOT)	25	12	2.00	115	30.00	4400
UCS-CPU-I4510 ²	2S Mainline	25	12	2.40	150	30.00	4400
UCS-CPU-I4509Y ²	2S Mainline	25	8	2.60	125	22.50	4400
3000 Series Processors							
UCS-CPU-I3508U ^{1,2}	1-Socket Optimized	15	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	Segment/Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support
(PID)		(S)	(C)	(GHz)	(W)	(MB)	(MT/s)
8000 Series Proces	ssors						
UCS-CPU-I8490H	IMDB/Analytics	25	60	1.90	350	112.50	4800
UCS-CPU-I8480+	2S Performance	25	56	2.00	350	105.00	4800
UCS-CPU-I8471N ¹	5G/Networking	15	52	1.80	300	97.50	4800
UCS-CPU-I8470N	5G/Networking	25	52	1.70	300	97.50	4800
UCS-CPU-I8470	2S Performance	25	52	2.00	350	105.00	4800
UCS-CPU-I8468V	Cloud/SaaS/Media	25	48	2.40	330	97.50	4800
UCS-CPU-I8468H	IMDB/Analytics	25	48	2.10	330	105.00	4800
UCS-CPU-I8468	2S Performance	25	48	2.10	350	105.00	4800
UCS-CPU-I8462Y+	2S Performance	25	32	2.80	300	60.00	4800
UCS-CPU-I8461V ¹	Cloud/SaaS/Media	15	48	2.20	300	97.50	4800
UCS-CPU-I8460Y+	2S Performance	25	40	2.00	300	105.00	4800
UCS-CPU-I8460H	IMDB/Analytics	25	40	2.20	330	105.00	4800

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

Product ID	Segment/Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support
(PID)	3	(S)	(C)	(GHz)	(W)	(MB)	(MT/s)
UCS-CPU-I8458P	Cloud/SaaS/Media	25	44	2.70	350	82.50	4800
UCS-CPU-I8454H	IMDB/Analytics	25	32	2.10	270	82.50	4800
UCS-CPU-I8452Y	2S Mainline	25	36	2.00	300	67.50	4800
UCS-CPU-I8450H	IMDB/Analytics	25	28	2.00	250	75.00	4800
UCS-CPU-I8444H	IMDB/Analytics	25	16	2.90	270	45.00	4800
6000 Series Proces	sors						
UCS-CPU-I6454S	Storage	25	32	2.20	270	60.00	4800
UCS-CPU-I6448Y	2S Performance	25	32	2.10	225	60.00	4800
UCS-CPU-I6448H	IMDB/Analytics	25	32	2.40	250	60.00	4800
UCS-CPU-I6444Y	2S Performance	25	16	3.60	270	45.00	4800
UCS-CPU-I6442Y	2S Performance	25	24	2.60	225	60.00	4800
UCS-CPU-I6438Y+	2S Mainline	25	32	2.00	205	60.00	4800
UCS-CPU-I6438N	5G/Networking	25	32	2.00	205	60.00	4800
UCS-CPU-I6438M	Cloud/SaaS/Media	25	32	2.20	205	60.00	4800
UCS-CPU-I6434H	IMDB/Analytics	25	8	3.70	195	22.50	4800
UCS-CPU-I6434	2S Performance	25	8	3.70	195	22.50	4800
UCS-CPU-I6430	2S Mainline	25	32	2.10	270	60.00	4400
UCS-CPU-I6428N	5G/Networking	25	32	1.80	185	60.00	4000
UCS-CPU-I6426Y	2S Performance	25	16	2.50	185	37.50	4800
UCS-CPU-I6421N ¹	5G/Networking	15	32	1.80	185	60.00	4400
UCS-CPU-I6418H	IMDB/Analytics	25	24	2.10	185	60.00	4800
UCS-CPU-I6416H	IMDB/Analytics	25	18	2.20	165	45.00	4800
UCS-CPU-I6414U ¹	1S gen. purpose	15	32	2.00	250	60.00	4800
5000 Series Proces	sors				l		
UCS-CPU-I5420+	2S Mainline	25	28	2.00	205	52.50	4400
UCS-CPU-I5418Y	2S Mainline	25	24	2.00	185	45.00	4400
UCS-CPU-I5418N	5G/Networking	25	24	1.80	165	45.00	4000
UCS-CPU-I5416S	Storage	25	16	2.00	150	30.00	4400
UCS-CPU-I5415+	2S Performance	25	8	2.90	150	22.50	4400
UCS-CPU-I5412U ¹	1S gen. purpose	15	24	2.10	185	45.00	4400
UCS-CPU-I5411N ¹	5G/Networking	15	24	1.90	165	45.00	4400

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

Product ID	Segment/Workload	Maximum Socket	Cores	Clock Freq	Power	Cache Size	Highest DDR5 DIMM Clock Support
(PID)		(S)	(C)	(GHz)	(W)	(MB)	(MT/s)
4000 Series Proces	4000 Series Processors						
UCS-CPU-I4416+	2S Mainline	25	20	2.00	165	37.50	4000
UCS-CPU-I4410Y	2S Mainline	25	12	2.00	150	30.00	4000
UCS-CPU-I4410T	IOT	25	10	2.70	150	26.25	4000
3000 Series Processors							
UCS-CPU-I3408U ¹	1S gen. purpose	15	8	1.80	125	22.50	4000

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
Р	Cloud (IaaS)	Designed for cloud IaaS environments to deliver higher frequencies at constrained TDPs
٧	Cloud (SaaS)	Designed for high rack density, maximize VM/core, and lower power VM environment
М	Media Transcode	Designed for Media processing, AI, and HPC workloads
Н	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
Т	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 24
- STEP 5 SELECT DRIVE CONTROLLERS (OPTIONAL), page 31
- STEP 6 SELECT DRIVES (OPTIONAL), page 36
- STEP 7 SELECT PCIe CARD(s) (OPTIONAL), page 41

STEP 4 SELECT MEMORY (REQUIRED)

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

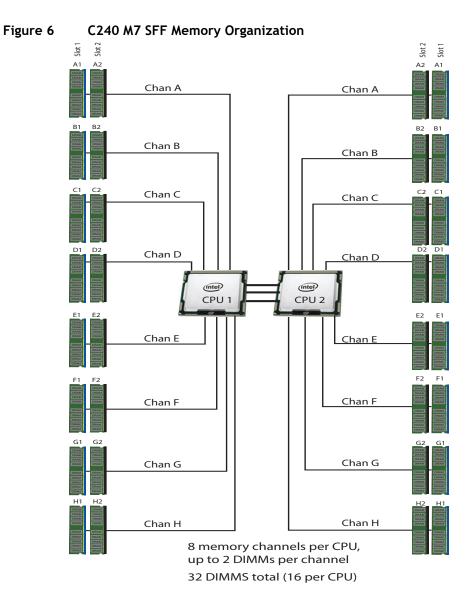


CAUTION:

- 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			
boks memory clock speed	5th Gen. CPU: Up to 5600MT/s 1DPC; Up to 4400MT/s 2DPC			
Operational voltage	1.1 Volts			
DRAM fab density	16Gb and 24Gb			
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	16GB 1Rx8, 32GB 1Rx4, 64GB 2Rx4, 128GB 4Rx4, 256GB 8Rx4			
DRAW DIWW Delisities and Railes	48GB 1Rx4, 96GB 2Rx4 - 5th Gen. only			
Maximum system capacity (DRAM DIMMs only)	8TB (32x256GB)			



Cisco UCS C240 M7 Rack Server (Small Form Factor Disk Drive Model)

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 Available DDR5 DIMMs

Product ID (PID)	PID Description					
	DDR5-4800MT/s PID list					
UCS-MRX16G1RE1	16GB DDR5-4800 RDIMM 1Rx8 (16Gb)					
UCS-MRX32G1RE1	32GB DDR5-4800 RDIMM 1Rx4 (16Gb)					
UCS-MRX64G2RE1	64GB DDR5-4800 RDIMM 2Rx4 (16Gb)					
UCS-MR128G4RE1	128GB DDR5-4800 RDIMM 4Rx4 (16Gb)					
UCS-MR256G8RE1 ^{1,2}	256GB DDR5-4800 RDIMM 8Rx4 (16Gb)					
	DDR5-5600MT/s PID list ³					
UCS-MRX16G1RE3	16GB DDR5-5600 RDIMM 1Rx8 (16Gb)					
UCS-MRX32G1RE3	32GB DDR5-5600 RDIMM 1Rx4 (16Gb)					
UCS-MRX48G1RF3 ⁴	48GB DDR5-5600 RDIMM 1Rx4 (24Gb)					
UCS-MRX64G2RE3	64GB DDR5-5600 RDIMM 2Rx4 (16Gb)					
UCS-MRX96G2RF3 ⁴	96GB DDR5-5600 RDIMM 2Rx4 (24Gb)					
UCS-MR128G4RE3	128GB DDR5-5600 RDIMM 4Rx4 (16Gb)					
UCS-MR256G8RE3 ^{1,2}	256GB DDR5-5600 RDIMM 8Rx4 (16Gb)					
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. 256GB DIMM is available on all C240M7 server models.
- 2. 256GB DIMMs cannot be combined with GPU cards, and the ambient temperature shall be limited to a maximum of 28°C.
- 3. DDR5-5600 supported on Intel® Xeon® 5th generation only.

- 4. 48GB and 96GB memory DIMMs not supported on UCS-CPU-I3508U, UCS-CPU-I4509Y, UCS-CPU-I4510, UCS-CPU-I4510T
- 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 20 and Available 5th Gen. Intel® Xeon® Scalable CPUs, page 19 for DIMM speeds.
- For full details on supported memory configurations see the M7 Memory Guide.
- DIMM Count Rules:

Table 10 Allowed DIMM Count for 1-CPU and 2-CPU

Allowed DIMM Count rules	Minimum Count	Maximum Count	Allowed Count	Not Allowed Count		
	16GB, 32GB,	64GB, 128GB,	256GB (4th and 5th (Gen. CPUs)		
DIMM count for 1 CPU	1	16	1,2,4,6,8,12,16	3,5,7,9,10,11,13,14,15		
DIMM count for 2-CPU	2	32	2,4,8,12,16,24,32	6,10,14,18,20,22,26,28,30		
48GB (5th Gen. CPUs Only)						
DIMM count for 1 CPU	1	8	1,6,8	2,3,4,5,7,9,10,11,12,13,14,15, 16		
DIMM count for 2-CPU	2	16	2,12,16	4,6,8,10,14,18,20,22,24,26,28, 30,32		
96GB (5th Gen. CPUs Only)						
DIMM count for 1 CPU	1	16	1,6,8,12,16	2,3,4,5,7,9, 10,11,13,14,15		
DIMM count for 2-CPU	2	32	2,12,16,24,32	4,6,8,10,14,18,20,22,26,28,30		

NOTE(1): 12 DIMMs count for 1-CPU, 24 DIMMs count and for 2-CPU configurations are only allowed when all DIMMs have the same density.

■ DIMM Population Rules:

- Each channel has two memory slots (for example, channel A = slots A1 and A2). See golden rule above.
 - A channel can operate with one or two DIMMs installed.
 - If a channel has only one DIMM, populate slot 1 first (the blue slot).
- When both CPUs are installed, populate the memory slots of each CPU identically. Fill the blue slots (slot 1) in the memory channels first according to the recommended DIMM populations in *Table 11.0*, *Table 11.1* and *Table 11.2*.

Table 11.0 M7 DIMM population order for 16GB, 32GB, 64GB, 128GB, 256GB

#DIMMs per CPU	DIMM Population - 16GB, 32GB, 64GB, 128GB, 256GB (4th and 5th Gen. CPUs) ¹						
#DIMINIS PET CT O	Slot 1 (Blue)	Slot 2 (Black)					
1	A1	-					
2	A1, G1	-					
4	A1, C1, E1, G1	-					
6	A1, C1, D1, E1, F1, G1	-					
8	A1, B1, C1, D1, E1, F1, G1, H1	-					
12 ²	A1, B1, C1, D1, E1, F1, G1, H1	A2, C2, E2, G2					
16	A1, B1, C1, D1, E1, F1, G1, H1	A2, B2, C2, D2, E2, F2, G2, H2					

Notes:

- 1. See DIMM Mixing Rules for allowed combinations across slots 1 and 2.
- 2. Only valid when DIMMs in blue and black slots are the same density.

Table 11.1 M7 DIMM population order for 48GB

#DIMMs per CPU	DIMM Population - 48GB (5th Gen. CPUs only) ^{1,2}						
"Divinis per er o	Slot 1 (Blue)	Slot 2 (Black)					
1	A1	-					
6	A1, C1, D1, E1, F1, G1	-					
8	A1, B1, C1, D1, E1, F1, G1, H1	-					

Notes:

- 1. 48GB DIMMs cannot be mixed with other DIMM capacities.
- 2. Only 1 DPC supported by 48GB.

Table 11.2 M7 DIMM population order for 96GB

#DIMMs per CPU	DIMM Population - 96GB (5th Gen. CPUs only) ¹			
	Slot 1 (Blue)	Slot 2 (Black)		
1	A1	-		
6	A1, C1, D1, E1, F1, G1	-		
8	A1, B1, C1, D1, E1, F1, G1, H1	-		
12 ²	A1, B1, C1, D1, E1, F1, G1, H1	A2, C2, E2, G2		
16 ²	A1, B1, C1, D1, E1, F1, G1, H1	A2, B2, C2, D2, E2, F2, G2, H2		

Notes:

- 1. 96GB DIMMs cannot be mixed with other DIMM capacities.
- 2. Only valid when DIMMs in blue and black slots are the same density.
- DIMM Mixing Rules:
 - Higher rank DIMMs shall be populated on Slot 1.
 - Mixing different DIMM densities in the same slot across channels is not supported. All populated slots of the same color must have the same DIMM density.
 - Mixing X4 and X8 DIMMs is not allowed
 - Mixing 16Gb DRAM based and 24Gb DRAM based DIMMs is not allowed. Therefore, 48GB and 96GB cannot be mixed with any other memory DIMMs
 - 48GB supports 1 DIMM Per Channel (1DPC) only
 - The DIMM mixing rules matrix is described in the *Table 12* and *Table 13*, below

Table 12 Supported DIMM mixing and population across 2 slots in each channel - 16GB, 32GB, 64GB, 128GB, and 256GB DIMMs

Channel Mixing		DIMM Slot 2 (Black)				
DIMM Slot 1 (Blue)		16GB	32GB	64GB	128GB	256GB
		1Rx8	1Rx4	2Rx4	4Rx4	8Rx4
16GB	1Rx8	Yes ¹	No	No	No	No
32GB	1Rx4	No	Yes ¹	No	No	No
64GB	2Rx4	No	Yes ²	Yes ¹	No	No
128GB	4Rx4	No	No	No	Yes ¹	No
256GB	8Rx4	No	No	No	Yes ²	Yes ¹

Notes:

- 1. For 2,4,6, 8 DIMMs count, only populate slot 1 (Blue slot), see *Table 11.0* for details
- 2. When mixing two different DIMM densities, all 8 channels per CPU must be populated. Use of fewer than 8 channels (16 slots per CPU) is not supported.

Table 13 Supported DIMM mixing and population across 2 slots in each channel - 48GB and 96GB DIMMs

Channel Mixing		DIMM Slot 2 (Black)		
DIMM Slot 1 (Blue)		48GB	96GB	
		1Rx4	2Rx4	
48GB	1Rx4	No	No	
96GB	2Rx4	No	Yes ¹	

Notes:

1. For 6, 8 DIMMs count, only populate slot 1 (Blue slot). see *Table 11.2* for details

- Memory Limitations:
 - Memory on every CPU socket shall be configured identically.
 - Refer to *Table 11.0*, *Table 11.1* and *Table 11.2*. and *Table 12* and *Table 13*, for DIMM population and DIMM mixing rules.
 - Cisco memory from previous generation servers (DDR3 and DDR4) is not supported with the M7 servers.
- For best performance, observe the following:
 - For optimum performance, populate at least one DIMM per memory channel per CPU. When one DIMM per channel is used, it must be populated in DIMM slot 1 (blue slot farthest away from the CPU) of a given channel.
 - The maximum 2 DPC speed is 4400 MT/s, refer to *Table 14.0* and *Table 14.1* for the details.

Table 14.0 DDR5-4800 DIMM 1DPC and 2DPC max speed matrix - 4th Gen. CPU

4th Gen. CPU Shelves	1DPC	2DPC
and Memory Speed	All RDIMMs	All RDIMMs
Platinum Series 8	4800 MT/s	4400 MT/s
Gold Series 6	4800 MT/s	4400 MT/s
Gold Series 5	4400 MT/s	4400 MT/s
Silver Series 4	4000 MT/s	4000 MT/s
Bronze Series 3	4000 MT/s	4000 MT/s

Table 14.1 DDR5-5600 DIMM 1DPC and 2DPC max speed matrix - 5th Gen. CPU

5th Gen. CPU Shelves and Memory	1DPC	2DPC
Speed	All RDIMMs	All RDIMMs
Platinum Series 8	5600 MT/s	4400 MT/s
Gold Series 6	5200 MT/s	4400 MT/s
Gold Series 5	4800 MT/s	4400 MT/s
Silver Series 4	4400 MT/s	4400 MT/s
Bronze Series 3	4400 MT/s	4400 MT/s



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-M1L32: 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 15.

- One Cisco 24G Tri-mode MP1 (32-port) RAID controller (UCSC-RAID-M1L32), 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 15 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 15 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 Externa	l 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 15 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 2CPU, 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 UCSC-RAID-HP, 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 the Tri-mode RAID controller (UCSC-RAID-HP) 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 16*.



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 16 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 17
- The available SAS/SATA SSDs and HDDs drives for UCSC-C240-M7SX listed Table 18



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 17 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-NVMEXP-I400-D	400GB 2.5in U.2 Intel P5800X Optane NVMe Extreme Perform SSD	NVMe	U.2	400 GB		
UCS-NVMEXP-I800-D	800GB 2.5in U.2 Intel P5800X Optane NVMe Extreme Perform SSD	NVMe	U.2	800 GB		
UCS-NVME4-1600-D	1.6TB 2.5in U.2 P5620 NVMe High Perf High Endurance	NVMe	U.2	1.6 TB		
UCS-NVME4-1920-D	1.9TB 2.5in U.2 P5520 NVMe High Perf Medium Endurance	NVMe	U.2	1.9 TB		
UCS-NVME4-3200-D	3.2TB 2.5in U.2 P5620 NVMe High Perf High Endurance	NVMe	U.2	3.2 TB		
UCS-NVME4-3840-D	3.8TB 2.5in U.2 P5520 NVMe High Perf Medium Endurance	NVMe	U.2	3.8 TB		
UCS-NVME4-6400-D	6.4TB 2.5in U.2 P5620 NVMe High Perf High Endurance	NVMe	U.2	6.4 TB		
UCS-NVME4-7680-D	7.6TB 2.5in U.2 P5520 NVMe High Perf Medium Endurance	NVMe	U.2	7.6 TB		
UCS-NVME4-15360-D	15.3TB 2.5in U.2 P5520 NVMe High Perf Medium Endurance	NVMe	U.2	15.3 TB		
UCS-NVMEQ-1536-D	15.3TB 2.5in U.2 P5316 NVMe High Perf Low Endurance	NVMe	U.2	15.3 TB		
UCS-NVMEG4-M960-D ¹	960GB 2.5in U.3 Micron P7450 NVMe High Perf Medium Endurance	NVMe	U.3	960 GB		
UCS-NVMEG4-M1920D ¹	1.9TB 2.5in U.3 Micron P7450 NVMe High Perf Medium Endurance	NVMe	U.3	1.9 TB		

Table 17 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-NVMEG4-M3840D ¹	3.8TB 2.5in U.3 Micron P7450 NVMe High Perf Medium Endurance	NVMe	U.3	3.8 TB
UCS-NVMEG4-M7680D ¹	7.6TB 2.5in U.3 Micron P7450 NVMe High Perf Medium Endurance	NVMe	U.3	7.6 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-M1600D ¹	1.6TB 2.5in U.3 Micron P7450 NVMe High Perf High Endurance	NVMe	U.3	1.6 TB
UCS-NVMEG4-M3200D ¹	3.2TB 2.5in U.3 Micron P7450 NVMe High Perf High Endurance	NVMe	U.3	3.2 TB
UCS-NVMEG4-M6400D ¹	6.4TB 2.5in U.3 Micron P7450 NVMe High Perf High Endurance	NVMe	U.3	6.4 TB

Notes:

Table 18 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-HD300G10KJ4-D	300 GB 12G SAS 10K RPM SFF HDD	SAS	300 GB
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
per day))	ce SAS/SATA SSDs (High endurance, supports up to 10X or 3X DWP	D (drive	writes
SATA			
UCS-SD480G63XEP-D	480 GB 2.5in Enterprise Performance 6G SATA SSD(3X endurance)	SATA	480 GB
UCS-SD960G63XEP-D	960 GB 2.5in Enterprise performance 6G SATA SSD(3X endurance)	SATA	960 GB
UCS-SD19T63X-EP-D	1.9 TB 2.5in Enterprise performance 6G SATA SSD(3X endurance)	SATA	1.9 TB
UCS-SD38T63X-EP-D	3.8 TB 2.5in Enterprise performance 6G SATA SSD(3X endurance)	SATA	3.8 TB
UCS-SD480GBM3XEPD	480GB SATA SSD 3DWPD	SATA	480 GB
UCS-SD960GBM3XEPD	960GB SATA SSD 3DWPD	SATA	960 GB
UCS-SD19TBM3XEP-D	1.9TB SATA SSD 3DWPD	SATA	1.9 TB
SAS			
UCS-SD800GK3XEP-D	800 GB 2.5in Enterprise Performance 12G SAS SSD(3X endurance)	SAS	800 GB
UCS-SD32TK3X-EP-D	3.2 TB 2.5in Enterprise Performance 12G SAS SSD(3X endurance)	SAS	3.2 TB
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
UCS-SD64TS3XEP-D	6.4TB 2.5in Enterprise Performance 12G SAS SSD(3X endurance)	SAS	6.4 TB
Enterprise Value SAS/S	SATA SSDs (Low endurance, supports up to 1X DWPD (drive writes	per day))

^{1.} Only U.3 drives are allowed with 24G Tri-mode RAID Controller and NVMe Hardware RAID.

Table 18 Available SAS/SATA SSD and HDDs (continued) for UCSC-C240-M7SX (for front and rear)

Product ID (PID)	PID Description	Drive Type	Capacity
SATA			
UCSSD480G6I1XEV-D	480GB 2.5 inch Enterprise Value 6G SATA SSD	SATA	480 GB
UCSSD960G6S1XEV-D	960GB 2.5 inch Enterprise Value 6G SATA SSD	SATA	960 GB
UCSSD960G6I1XEV-D	960GB 2.5 inch Enterprise Value 6G SATA SSD	SATA	960 GB
UCS-SD19T6S1XEV-D	1.9TB 2.5 inch Enterprise Value 6G SATA SSD	SATA	1.9 TB
UCS-SD38T6S1XEV-D	3.8 TB 2.5 inch Enterprise Value 6G SATA SSD	SATA	3.8 TB
UCS-SD38T6I1XEV-D	3.8TB 2.5 inch Enterprise Value 6G SATA SSD	SATA	3.8 TB
UCS-SD76T6S1XEV-D	7.6TB 2.5 inch Enterprise Value 6G SATA SSD	SATA	7.6 TB
UCS-SD240GBM1XEVD	240GB SATA SSD 1DWPD	SATA	240 GB
UCS-SD480GBM1XEVD	480GB SATA SSD 1DWPD	SATA	480 GB
UCS-SD960GBM1XEVD	960GB SATA SSD 1DWPD	SATA	960 GB
UCS-SD16TBM1XEV-D	1.6GB SATA SSD 1DWPD	SATA	1.6 TB
UCS-SD19TBM1XEV-D	1.9TB SATA SSD 1DWPD	SATA	1.9 TB
UCS-SD38TBM1XEV-D	3.8TB SATA SSD 1DWPD	SATA	3.8 TB
UCS-SD76TBM1XEV-D	7.6TB SATA SSD 1DWPD	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		7.6 TB
SAS			1
UCS-SD960GK1XEV-D	960GB 2.5 inch Enterprise Value 12G SAS SSD	SAS	960 GB
UCS-SD38TK1X-EV-D	3.8TB 2.5 inch Enterprise Value 12G SAS SSD	SAS	3.8 TB
UCS-SD76TK1X-EV-D	7.6TB 2.5 inch Enterprise Value 12G SAS SSD	SAS	7.6 TB
UCS-SD15TK1X-EV-D	15.3TB 2.5 inch Enterprise Value 12G SAS SSD	SAS	15.3 TB
UCS-SD19TKA1XEV-D	1.9TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD	SAS	1.9 TB
UCS-SD38TKA1XEV-D	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD	SAS	3.8 TB
UCS-SD76TKA1XEV-D	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD	SAS	7.6 TB
UCS-SD15TKA1XEV-D	15.3TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD	SAS	15.3 TB
UCS-SD76TS1X-EV-D	7.6TB 2.5 inch Enterprise Value 12G SAS SSD	SAS	7.6 TB
Self-Encrypted Drives	(SED) (1X or 3X)		II.
SATA			
SAS			
UCS-SD960GBKNK9-D	960GB Enterprise Value SAS SSD (1X DWPD, SED) FIPS140-2		960 GB
UCS-SD38TBKNK9-D	3.8TB Enterprise Value SAS SSD (1X DWPD, SED) FIPS140-2		3.8 TB
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

Table 18 Available SAS/SATA SSD and HDDs (continued) for UCSC-C240-M7SX (for front and rear)

Product ID (PID)	PID Description	Drive Type	Capacity
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 SED SSD 1DWPD	SAS	960 GB
UCS-SD19TEM2NK9-D	1.9TB SED SSD 1DWPD	SAS	1.9 TB
UCS-SD38TEM2NK9-D	3.8TB SED SSD 1DWPD	SAS	3.8 TB
UCS-SD76TEM2NK9-D	7.6TB SED SSD 1DWPD	SAS	7.6 TB

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 19 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		
	with 1 CPU	CBL-SAS24-C240M7	N/A		
UCSC-HBA-M1L16	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 18 on page 37*

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 20*.

Table 20 Available PCle 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	t (OCP) ²		•			
UCSC-O-ID10GC-D	Intel X710T2LOCPV3G1L 2x10GbE RJ45 OCP 3.0 NIC	ОСР	SFF			
UCSC-O-N6CD100GFD	Cisco-NVDA MCX623436AC-CDAB CX6Dx 2x100G QSFP56 x16 OCP NIC	ОСР	SFF			
UCSC-O-N6CD25GFD	Cisco-NVDA MCX631432AC-ADAB CX6Lx 2x25G SFP28 x8 OCP NIC	ОСР	SFF			
Virtual Interface Cards	(VICs)	1	•			
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 Car	ds (NICs)		!			
1GbE NICs						
UCSC-P-IQ1GC	Cisco-Intel I710-T4L 4x1GBASE-T NIC	Riser 1, 2, or 3	HHHL, SS			
10GbE NICs			I			
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	HHHL, SS				
UCSC-P-ID10GC-D	Cisco-Intel X710T2LG 2x10GBE RJ45 PCIe NIC Riser 1, 2, or 3					
UCSC-P-IQ10GC-D	Cisco-Intel X710T4LG 4x10GBE RJ45 PCIe NIC Riser 1, 2, or 3 HHH					
25GbE NICs	,	ı	I			

Table 20 Available PCIe Option Cards (continued)

Product ID (PID)	PID Description	Location	Card Size ¹			
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-N6D25GF-D ³	Cisco-NVDA MCX631102AS-ADAT CX6Lx 2x25GbE SFP28 x8 PCIe NIC	Riser 1, 2, or 3	HHHL, SS			
UCSC-P-N7Q25GF	MCX713104AS-ADAT: CX-7 4x25GbE SFP56 PCIe Gen4x16, VPI 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-MDD100GF-D ^{3,4}	Cisco-MLNX MCX623106AS-CDAT 2x100GbE QSFP56 PCIe NIC	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			
200GbE NICs			l			
UCSC-P-N7D200GF	MCX755106AS-HEAT:CX-7 2x200GbE QSFP112 PCIe	Riser 1 or 2	FHHL, SS			
	Gen5x16, VPI NIC	(Gen5 Riser only)				
Host Bus Adapters (HB/	As)		•			
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	CSC-9500-8E-D Cisco 12G 9500-8e 12G SAS HBA for external JBOD Riser 1, 2, or 3 HHHL, attach					
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
- 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 20 on page 41* 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 21 on page 45* for the selection of plug-in and mLOM VIC cards. See also C240 M7 Server With Top Cover Off, page 66 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-ad apters/ucs-vic-15000-series-ds.htm
- 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 21.



CAUTION:

- 256GB DIMMs cannot be combined with GPU cards, and the ambient temperature shall be limited to a maximum of 28°C.
- 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



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 21 on page 45*.
- Please refer to installation guide for the installation of the GPUs.

Table 21 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-GPUA100-80-D	TESLA A100, PASSIVE, 300W, 80GB	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 21 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, HHFL, 150W PCIe	Single- wide	3	slot 2	slot 5	slot 7	n/a
UCSC-GPU-FLEX140	Intel GPU Flex 140, Gen4x8, HHHL, 75W PCIe	Single- wide	5	slot 2&3	slot 5&6	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-L40	NVIDIA L40: 300W, 48GB, 2-slot FHFL GPU	double -wide	3	slot 2	slot 5	slot 7	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-FLEX140 and 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.
- CBL-L40GPU-C240M7 Power cable included with the selection of UCSC-GPU-L40 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 22 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

Table 22 NVIDIA GPU Licenses (continued)

Product ID (PID)	PID Description
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

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 23 Power Supply

Product ID (PID)	PID Description	
PSU (Input High Line 21	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 102 section for the full details on the each power supply.

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

Using *Table 24* and *Table 25*, 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 24* lists the power cords for servers that use power supplies less than 2300 W. *Table 25* 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 24 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	Figure 1-0 CRB-460C-46A-6886Q, OC Prover Cord (3.5 m) Prove (CRC ACT ACT ACT ACT ACT ACT ACT ACT ACT AC
CAB-N5K6A-NA	Power Cord, 200/240V 6A, North America	Plug: NEMA 6-15P Cordset rating: 10 A, 250 V Length: 8.2 ft Connector: IEC60320/C13
CAB-AC-L620-C13-D	AC Power Cord, NEMA L6-20 - C13, 2M/6.5ft	79±2
CAB-C13-CBN	CABASY,WIRE,JUMPER CORD, 27" L, C13/C14, 10A/250V	800 MI ± 25 MM = 25 MM
CAB-C13-C14-2M	CABASY, WIRE, JUMPER CORD, PWR, 2 Meter, C13/C14, 10A/250V	7-100 100

Table 24 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,IEC6 0320/C13, 3.0M	MOLITAL (BLUE) MOLITAL (BLUE) MOLITAL (BLUE) MOLITAL (BLUE) MOLITAL (BLUE) MOLITAL (BLUE)
CAB-250V-10A-AR	Power Cord, 250V, 10A, Argentina	2500 mm Cordset rating: 10 A, 250/500 V MAX Length: 6.2 ft Connector: EL 701 (IRAM 2073) [EC60320/C13]
CAB-9K10A-AU	Power Cord, 250VAC 10A 3112 Plug, Australia	Cordset rating: 10 A, 250 V/500 V MAX Length: 2500mm Connector: EL 701C (EN 60320/C15) (BS 1363A) 13 AMP fuse
CAB-250V-10A-CN	AC Power Cord - 250V, 10A - PRC	A 22001-30 B
CAB-9K10A-EU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU	Plug: Cordset rating: 10A/16 A, 250 V Length: 8 ft 2 in. (2.5 m) Connector: VSCC15
CAB-250V-10A-ID	Power Cord, 250V, 10A, India	Plug: Cordset rating 16A, 250V (2500mm) Connector: EL 701
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	Cordset rating 10A, 250V/500V MAX (2500 mm) Plug: EL 212 (SI-32)

Table 24 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	Cordset rating: 10 A, 250 V Length: 8 ft 2 in. (2.5 m) Connector C15M (EN60320/C15)
CAB-9K10A-SW	Power Cord, 250VAC 10A MP232 Plug, Switzerland	Plug: Cordset rating: 10 A, 250 V Length: 8 ft. 2 in (2.5 m) IEC 60320 C15
CAB-9K10A-UK	Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK	Cordset rating: 10 A, 250 V/500 V MAX Length: 2500mm Plug: EL 210 (BS 1363A) 13 AMP fuse
CAB-9K12A-NA ¹	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	Condest rating 13A, 125V (8.2 feet) (2.5m) Plug: NEMA 5-15P Connector: IEC60320/C15
CAB-250V-10A-BR	Power Cord - 250V, 10A - Brazil	2.133.6.2.5
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 25 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
UCSB-CABL-C19-BRZ	NBR 14136 to C19 AC 14FT POWER CORD, BRAZIL	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 26.



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 26 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 27*.



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 27 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 28 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 6 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 36 on page 59* 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 29



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 29 Security Devices

Product ID (PID)	PID Description
UCSX-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
UCSX-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 30*.

Table 30 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 31* along with a boot-optimized RAID controller (see *Table 32*). See *Figure 7 on page 66* 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 31 M.2 SATA SSDs

Product ID (PID)	PID Description
UCS-M2-I240GB-D	240GB SATA M.2 SSD
UCS-M2-I480GB-D	480GB SATA M.2 SSD
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

■ Order Cisco boot optimized M.2 RAID controller from *Table 32*. 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 VMWare, 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 32 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 33* along with a boot-optimized RAID controller (see *Table 34*). See *Figure 7 on page 66* 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 33 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 34*. The boot optimized RAID controller plugs into a connector on the motherboard and holds up to two M.2 NVMe drives.

Table 34 Boot-Optimized RAID Controller

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

Table 35 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

- Cisco Software (*Table 36*)
- Operating System (*Table 37*)



NOTE:

- See this link for operating system guidance: https://ucshcltool.cloudapps.cisco.com/public/
- VMware is on Compliance Hold. Contact the Compute-Vmware-Hold@cisco.com mailer to see if you are allowed to receive VMware Licenses

Table 36 OEM Software

Product ID (PID)	PID Description		
VMware vCenter			
VMW-VCS-STD-D1A	VMware vCenter 7 Server Standard, 1 yr support required		
VMW-VCS-STD-D3A	VMware vCenter 7 Server Standard, 3 yr support required		
VMW-VCS-STD-D5A	VMware vCenter 7 Server Standard, 5 yr support required		
VMW-VCS-FND-D1A	VMware vCenter Server 7 Foundation (4 Host), 1 yr supp reqd		
VMW-VCS-FND-D3A	VMware vCenter Server 7 Foundation (4 Host), 3 yr supp reqd		
VMW-VCS-FND-D5A	VMware vCenter Server 7 Foundation (4 Host), 5 yr supp reqd		

Table 37 Operating System

Product ID (PID)	PID Description			
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)			

Table 37 Operating System (continued)

Product ID (PID)	PID Description			
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			
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			
VMware				
VMW-VSP-STD-D1A	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required			
VMW-VSP-STD-D3A	VMware vSphere 7 Std (1 CPU, 32 Core) 3-yr, Support Required			
VMW-VSP-STD-D5A	VMware vSphere 7 Std (1 CPU, 32 Core) 5-yr, Support Required			
VMW-VSP-EPL-D1A	VMware vSphere 7 Ent Plus (1 CPU, 32 Core) 1Yr, Support Reqd			
VMW-VSP-EPL-D3A	VMware vSphere 7 Ent Plus (1 CPU, 32 Core) 3Yr, Support Reqd			
VMW-VSP-EPL-D5A	VMware vSphere 7 Ent Plus (1 CPU, 32 Core) 5Yr, Support Reqd			

Table 37 Operating System (continued)

Product ID (PID)	PID Description		
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 37 Operating System (continued)

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

STEP 18 CHOOSE OPTIONAL OPERATING SYSTEM MEDIA KIT

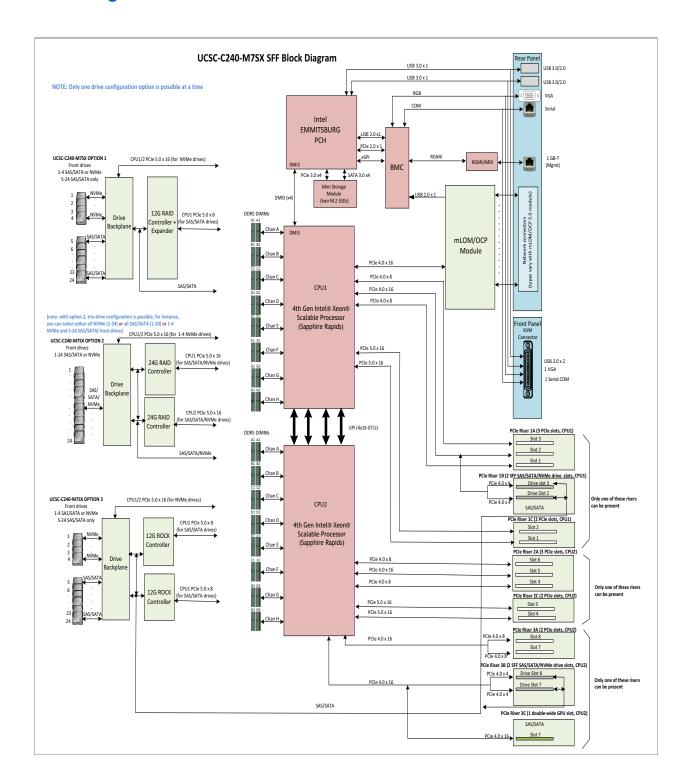
Select the optional operating system media listed in *Table 38*.

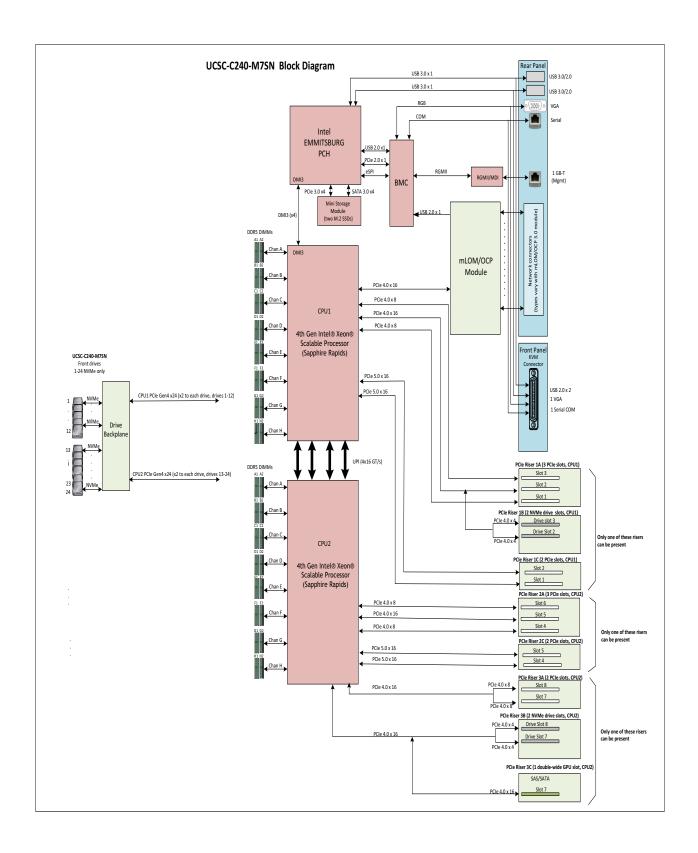
Table 38 OS Media

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

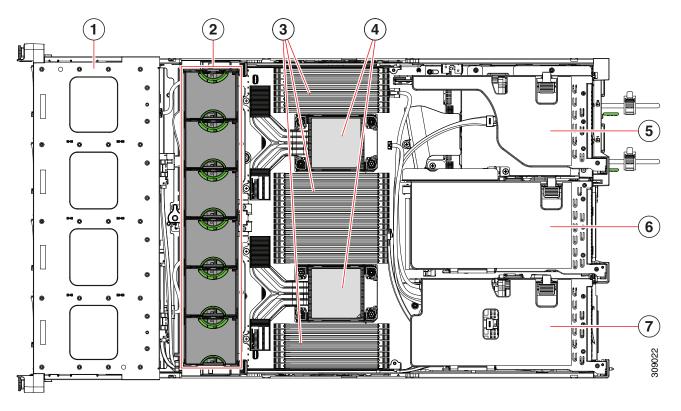




Chassis

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

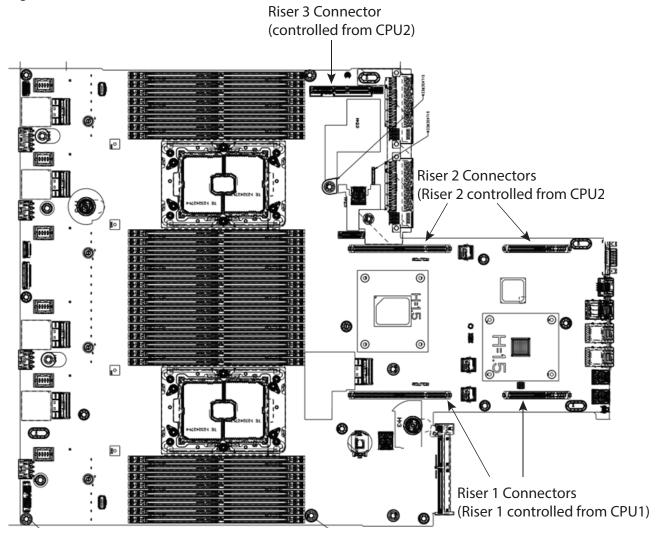
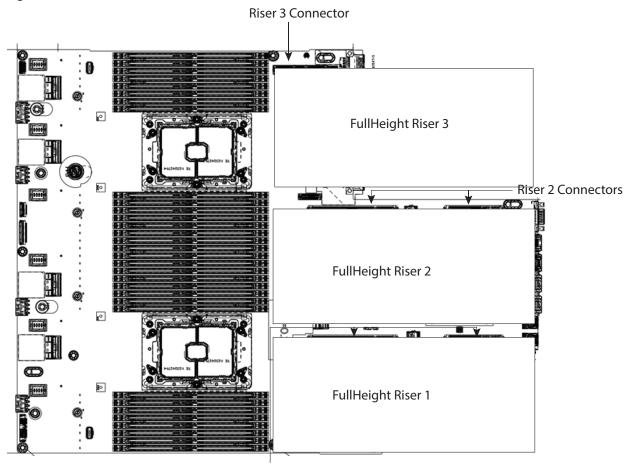


Figure 9 shows the locations of the PCIe riser connectors on Cisco UCS C240 M7 SFF motherboard.

Figure 9 C240 M7 SFF Riser Connector Locations

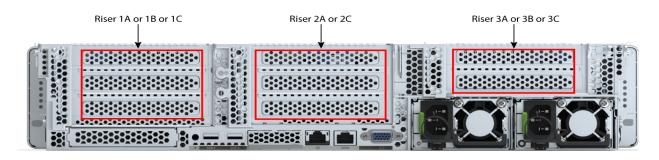


Riser 1 Connectors

Riser Card Configurations and Options

The riser card locations are shown in Figure 10.

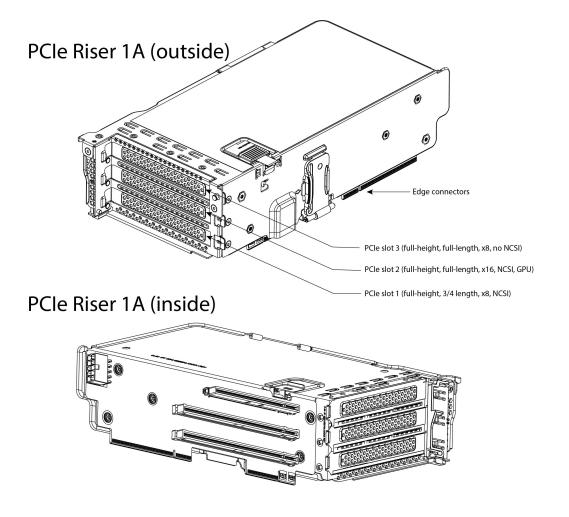
Figure 10 Riser Card Locations



Riser 1A

Riser 1A mechanical information is shown in Figure 11.

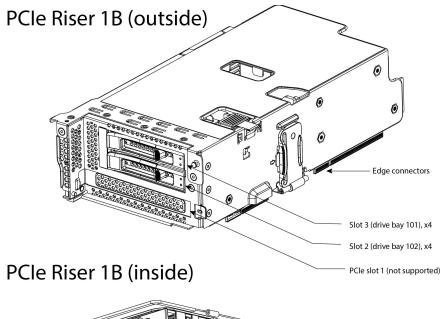
Figure 11 Riser Card 1A

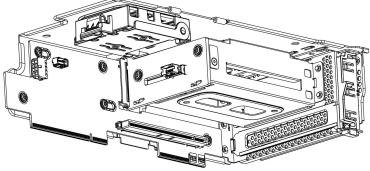


Riser 1B

Riser 1B mechanical information is shown in Figure 12.

Figure 12 Riser Card 1B

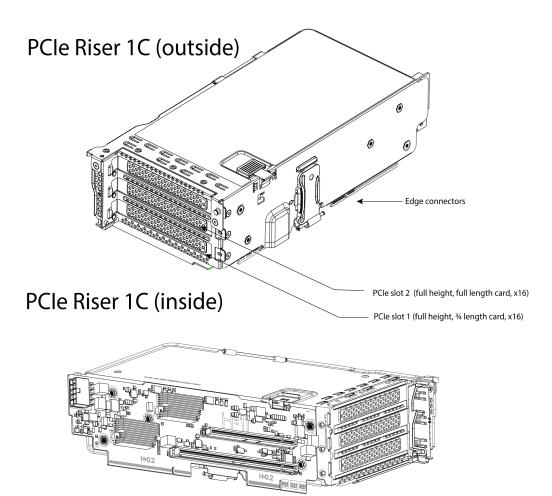




Riser 1C

Riser 1C mechanical information is shown in Figure 13.

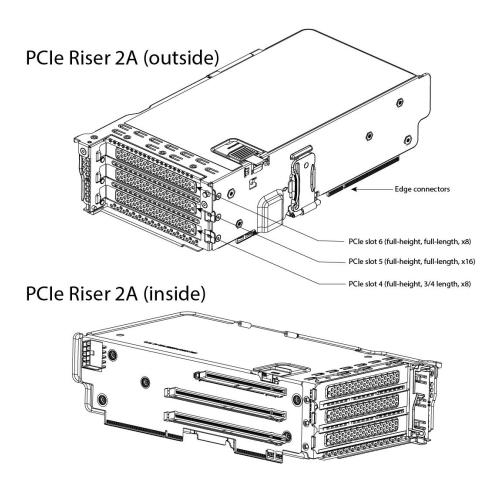
Figure 13 Riser Card 1C



Riser 2A

Riser 2A mechanical information is shown in Figure 14.

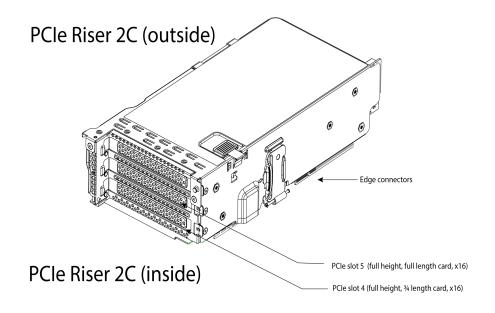
Figure 14 Riser Card 2A

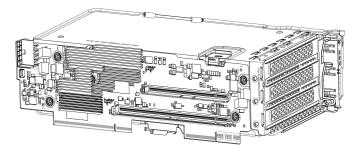


Riser 2C

Riser 2C mechanical information is shown in Figure 15.

Figure 15 Riser Card 2C

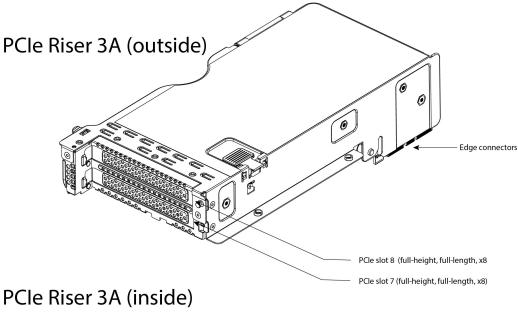


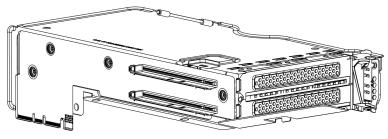


Riser 3A

Riser 3A mechanical information is shown in Figure 16.

Figure 16 Riser Card 3A

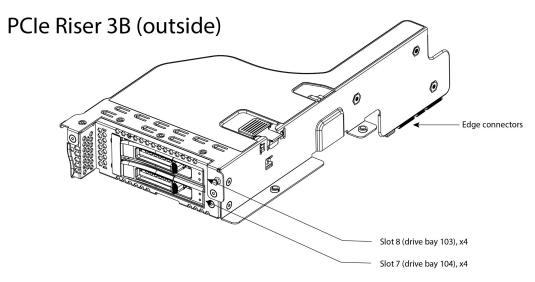




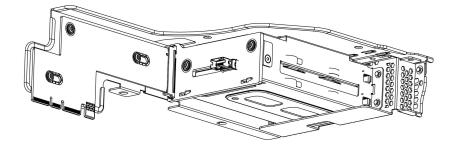
Riser 3B

Riser 3B mechanical information is shown in Figure 17.

Figure 17 Riser Card 3B



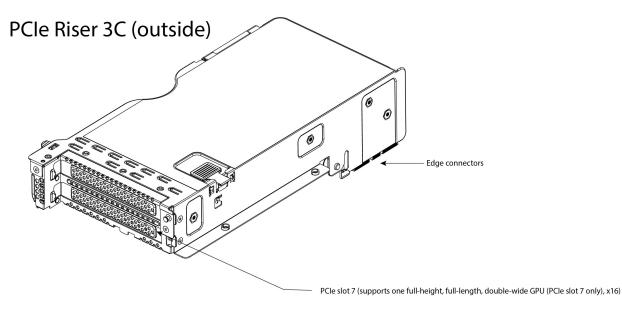
PCle Riser 3B (inside)



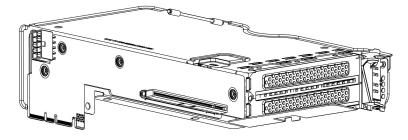
Riser 3C

Riser 3C mechanical information is shown in Figure 18.

Figure 18 Riser Card 3C



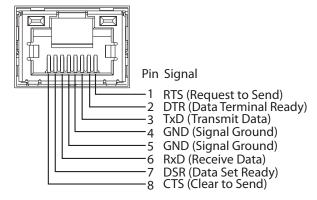
PCle Riser 3C (inside)



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 Serial Port (RJ-45 Female Connector)



KVM Cable

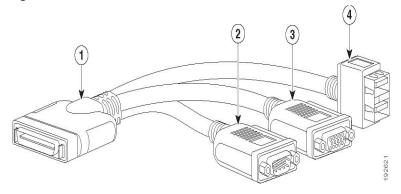
The KVM cable provides a connection into the server, providing a DB9 serial connector, a VGA connector for a monitor, and dual USB 2.0 ports for a keyboard and mouse. With this cable, you can create a direct connection to the operating system and the BIOS running on the server.

The KVM cable ordering information is listed in *Table 39*.

Table 39 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 memory³ 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 parameters⁴—before you need to add discrete accelerators.

5TH GEN INTEL XEON BENEFIT PILLARS:

Performance	Al	Efficiency	Quality and security
■ 21% average performance gain at the same TDP as 4th Gen Intel® Xeon® Less than 100 ms second-token latency on LLMs under 20 billion parameters ⁶	■ Up to 10x higher performance per watt using built-in accelerators ⁹	■ Software- and pin-compatible with 4th Gen Intel® Xeon® processors	
processors¹ ■ Up to 16% memory bandwidth improvement³ and 2.7x increased last level cache⁴ vs. 4th Gen Intel® Xeon® processors ■ 84% average	Up to 2.7x better Al inference performance vs. 4th Gen AMD EPYC processors Up to 14x better Al inference performance vs. 4th Gen AMD EPYC processors Up to 14x better Al training and inference performance vs. 3rd Gen Intel® Xeon® processors Software tools and ecosystem to accelerate Al ut-of-box software rformance using	■ Up to 3x higher performance per watt with built-in accelerators vs. 4th Gen AMD EPYC processors ¹⁰	 Silicon-based security features, confidential computing, and trust services Leading quality and enhanced telemetry Largest ecosystem of hardware and software
performance gain over 3rd Gen Intel® Xeon® processors ⁵ Out-of-box software performance using accelerators			vendors

Availability of accelerators varies depending on SKU. Visit the <u>5th Gen Intel Product Information page</u> 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

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- 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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- 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.

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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 40*.

Table 40 Spare Parts

Product ID (PID)	Description
Risers	
Note: Place note if you are	adding additional giang and gaid applyallaging you may need to agree the
accessories with it.	adding additional risers and raid controller later, you may need to order the
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 sele	cted)
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 sele	cted)
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=	UCS C-Series M7 2U SAS Cable, RISER1B TO RB 2
Note: This cable may	
required, if you order riser PID UCSC-RIS1B-24XM7 and	
UCSC-RAID-HP for	
UCSC-C240-M7SX	

Product ID (PID)	Description	
CBL-RSASR1B-240-D=	C240M7 2U x2 Rear SAS/SATA cable; (Riser1B)	
Note: This cable may required, if you order riser PID UCSC-RIS1B-24XM7 and UCSC-SAS-T-D for UCSC-C240-M7SX	CZ40M7 ZU XZ Redi SAS7 SATA CADIE, (RISELID)	
Note: This cable may required, if you order riser	UCS C-Series M7 2U SAS Cable, RISER3B TO RB 1	
PID UCSC-RIS3B-24XM7 and UCSC-RAID-HP for UCSC-C240-M7SX CBL-RSASR3B-240-D=	C240M7 2U x2 Rear SAS/SATA cable; (Riser3B)	
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	oz ionii zo xz nea. oz oz mreaste, (mocios)	
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	
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 40 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	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
UCS-CPU-I4516Y+= UCS-CPU-I4514Y=	Intel I4516Y+ 2.2GHz/185W 24C/45MB DDR5 4400MT/s
UCS-CPU-I4514Y= UCS-CPU-I4510T=	Intel I4514Y 2GHz/150W 16C/30MB DDR5 4400MT/s
UCS-CPU-145101=	Intel I4510T 1.9GHz/115W 12C/30MB DDR5 4400MT/s Intel I4510 2.4GHz/150W 12C/30MB DDR5 4400MT/s
UCS-CPU-14510= UCS-CPU-14509Y=	Intel I4510 2.4GHz/150W 12C/30MB DDR5 4400MT/s Intel I4509Y 2.6GHz/125W 8C/22.5MB DDR5 4400MT/s
3000 Series Processors	IIILEC 143091 2.0GHZ/ 123W 6C/22.3MB DDR3 4400M1/S
UCS-CPU-I3508U=	Intel I3508U 2GHz/125W 8C/22.5MB DDR5 4400MT/s
4th Gen. CPUs	1116CC 155000 ZG1127 12517 0C7 ZZ.5MD DDRG 1100M175
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-I8461V=	Intel I8461V 2.2GHz/300W 48C/97.5MB DDR5 4800MT/s
UCS-CPU-I8460Y+=	Intel I8460Y+ 2GHz/300W 40C/105MB 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-18450H=	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-I6454S=	Intel I6454S 2.2GHz/270W 32C/60MB DDR5 4800MT/s
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

Table 40 Spare Parts

Product ID (PID)	Description	
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-I6438Y+=	Intel I6438Y+ 2GHz/205W 32C/60MB DDR5 4800MT/s	
UCS-CPU-I6438N=	Intel I6438N 2GHz/205W 32C/60MB DDR5 4800MT/s	
UCS-CPU-I6438M=	Intel I6438M 2.2GHz/205W 32C/60MB DDR5 4800MT/s	
UCS-CPU-I6434H=	Intel I6434H 3.7GHz/195W 8C/22.5MB DDR5 4800MT/s	
UCS-CPU-I6434=	Intel I6434 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	
UCS-CPU-I6414U=	Intel I6414U 2GHz/250W 32C/60MB 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-I5412U=	Intel I5412U 2.1GHz/185W 24C/45MB 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-I5412U=		
UCS-CPU-I5411N=		
4000 Series Processors		
UCS-CPU-I4416+=		

Product ID (PID)	Description
UCS-CPU-I4410Y=	
UCS-CPU-I4410T=	
3000 Series Processors	
UCS-CPU-I3408U=	
CPU Accessories	
UCSC-HSHP-C240M7=	UCS C240 M7 Heatsink
Note: if you are adding a second CPU later, you will need to order this heat sink	
UCS-CPU-TIM=	Single CPU thermal interface material syringe for M5 server HS seal ¹
Note: This part is included with the purchase of spare CPU.Can be ordered separately.	
UCS-M6-CPU-CAR=	Spare CPU Carrier for M6
Note: This part is included with the purchase of spare CPU.Can be ordered separately.	
UCSX-HSCK=	UCS CPU/Heatsink Cleaning Kit, for up to 4 CPU/heatsink sets
Note: This part is included with the purchase of spare CPU.Can be ordered separately.	
UCS-CPUAT=	CPU Assembly Tool for Servers
Note: This part is included with the purchase of spare CPU.Can be ordered separately.	
UCSC-FAN-C24XM7=	UCS C-Series M7 2U Fan
Memory	
UCS-MRX16G1RE1=	16GB DDR5-4800 RDIMM 1Rx8 (16Gb)
UCS-MRX32G1RE1=	32GB DDR5-4800 RDIMM 1Rx4 (16Gb)
UCS-MRX64G2RE1=	64GB DDR5-4800 RDIMM 2Rx4 (16Gb)

Product ID (PID)	Description
UCS-MR128G4RE1=	128GB DDR5-4800 RDIMM 4Rx4 (16Gb)
UCS-MR256G8RE1=	256GB DDR5-4800 RDIMM 8Rx4 (16Gb)
UCS-MRX16G1RE3=	16GB DDR5-5600 RDIMM 1Rx8 (16Gb)
UCS-MRX32G1RE3=	32GB DDR5-5600 RDIMM 1Rx4 (16Gb)
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-MR128G4RE3=	128GB DDR5-5600 RDIMM 4Rx4 (16Gb)
UCS-MR256G8RE3=	256GB DDR5-5600 RDIMM 8Rx4 (16Gb)
UCS-DDR5-BLK=	UCS DDR5 DIMM Blanks
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.	

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	

Product ID (PID)	Description	
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)	
	ries (note: the below accessories only required if it is not in the system 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	
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	
Controller for External Drives		
UCSC-9500-8E-D=	9500 Series PCIe Gen 4.0 Tri-Mode Storage HBA 12Gb/s SAS/SATA/PCIe (NVMe)	
	I .	

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-NVMEXP-I400-D=	400GB 2.5in U.2 Intel P5800X Optane NVMe Extreme Perform SSD	
UCS-NVMEXP-I800-D=	800GB 2.5in U.2 Intel P5800X Optane NVMe Extreme Perform SSD	
UCS-NVME4-1600-D=	1.6TB 2.5in U.2 P5620 NVMe High Perf High Endurance	
UCS-NVME4-1920-D=	1.9TB 2.5in U.2 P5520 NVMe High Perf Medium Endurance	
UCS-NVME4-3200-D=	3.2TB 2.5in U.2 P5620 NVMe High Perf High Endurance	
UCS-NVME4-3840-D=	3.8TB 2.5in U.2 P5520 NVMe High Perf Medium Endurance	

Table 40 Spare Parts

Product ID (PID)	Description	
UCS-NVME4-6400-D=	6.4TB 2.5in U.2 P5620 NVMe High Perf High Endurance	
UCS-NVME4-7680-D=	7.6TB 2.5in U.2 P5520 NVMe High Perf Medium Endurance	
UCS-NVME4-15360-D=	15.3TB 2.5in U.2 P5520 NVMe High Perf Medium Endurance	
UCS-NVMEQ-1536-D=	15.3TB 2.5in U.2 P5316 NVMe High Perf Low Endurance	
UCS-NVMEG4-M960-D=	960GB 2.5in U.3 Micron P7450 NVMe High Perf Medium Endurance	
UCS-NVMEG4-M1920D=	1.9TB 2.5in U.3 Micron P7450 NVMe High Perf Medium Endurance	
UCS-NVMEG4-M3840D=	3.8TB 2.5in U.3 Micron P7450 NVMe High Perf Medium Endurance	
UCS-NVMEG4-M7680D=	7.6TB 2.5in U.3 Micron P7450 NVMe High Perf Medium Endurance	
UCS-NVMEG4-M1536D=	15.3TB 2.5in U.3 MicronP7450 NVMe High Perf Medium Endurance	
UCS-NVMEG4-M1600D=	1.6TB 2.5in U.3 Micron P7450 NVMe High Perf High Endurance	
UCS-NVMEG4-M3200D=	3.2TB 2.5in U.3 Micron P7450 NVMe High Perf High Endurance	
UCS-NVMEG4-M6400D=	6.4TB 2.5in U.3 Micron P7450 NVMe High Perf High Endurance	
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)	
Enterprise Performance SAS/day))	SATA SSDs (High endurance, supports up to 10X or 3X DWPD (drive writes per	
SATA		
UCS-SD480G63XEP-D=	480 GB 2.5in Enterprise Performance 6G SATA SSD(3X endurance)	
UCS-SD960G63XEP-D=	960 GB 2.5in Enterprise performance 6G SATA SSD(3X endurance)	
UCS-SD19T63X-EP-D=	1.9 TB 2.5in Enterprise performance 6G SATA SSD(3X endurance)	
UCS-SD38T63X-EP-D=	3.8 TB 2.5in Enterprise performance 6G SATA SSD(3X endurance)	
UCS-SD480GBM3XEPD=	480GB SATA SSD 3DWPD	
UCS-SD960GBM3XEPD=	960GB SATA SSD 3DWPD	
UCS-SD19TBM3XEP-D=	1.9TB SATA SSD 3DWPD	
SAS		
UCS-SD800GK3XEP-D=	800 GB 2.5in Enterprise Performance 12G SAS SSD(3X endurance)	
UCS-SD32TK3X-EP-D=	3.2 TB 2.5in Enterprise Performance 12G SAS SSD(3X endurance)	
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)	
UCS-SD64TS3XEP-D=	6.4TB 2.5in Enterprise Performance 12G SAS SSD(3X endurance)	
	Ds (Low endurance, supports up to 1X DWPD (drive writes per day))	
SATA		
UCSSD480G6I1XEV-D=	480GB 2.5 inch Enterprise Value 6G SATA SSD	
UCSSD960G6S1XEV-D=	960GB 2.5 inch Enterprise Value 6G SATA SSD	
UCSSD960G6I1XEV-D=	960GB 2.5 inch Enterprise Value 6G SATA SSD	
UCS-SD19T6S1XEV-D=	1.9TB 2.5 inch Enterprise Value 6G SATA SSD	

Table 40 Spare Parts

Product ID (PID)	Description
UCS-SD38T6S1XEV-D=	3.8 TB 2.5 inch Enterprise Value 6G SATA SSD
UCS-SD38T6I1XEV-D=	3.8TB 2.5 inch Enterprise Value 6G SATA SSD
UCS-SD76T6S1XEV-D=	7.6TB 2.5 inch Enterprise Value 6G SATA SSD
UCS-SD240GBM1XEVD=	240GB SATA SSD 1DWPD
UCS-SD480GBM1XEVD=	480GB SATA SSD 1DWPD
UCS-SD960GBM1XEVD=	960GB SATA SSD 1DWPD
UCS-SD16TBM1XEV-D=	1.6GB SATA SSD 1DWPD
UCS-SD19TBM1XEV-D=	1.9TB SATA SSD 1DWPD
UCS-SD38TBM1XEV-D=	3.8TB SATA SSD 1DWPD
UCS-SD76TBM1XEV-D=	7.6TB SATA SSD 1DWPD
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
SAS	
UCS-SD960GK1XEV-D=	960GB 2.5 inch Enterprise Value 12G SAS SSD
UCS-SD38TK1X-EV-D=	3.8TB 2.5 inch Enterprise Value 12G SAS SSD
UCS-SD76TK1X-EV-D=	7.6TB 2.5 inch Enterprise Value 12G SAS SSD
UCS-SD15TK1X-EV-D=	15.3TB 2.5 inch Enterprise Value 12G SAS SSD
UCS-SD19TKA1XEV-D=	1.9TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD
UCS-SD38TKA1XEV-D=	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD
UCS-SD76TKA1XEV-D=	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD
UCS-SD15TKA1XEV-D=	15.3TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD
UCS-SD76TS1X-EV-D=	7.6TB 2.5 inch Enterprise Value 12G SAS SSD
Self-Encrypted Drives (SED) (1X or 3X)
SATA	
SAS	
UCS-SD960GBKNK9-D=	960GB Enterprise Value SAS SSD (1X DWPD, SED) FIPS140-2
UCS-SD38TBKNK9-D=	3.8TB 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 SED SSD 1DWPD
UCS-SD19TEM2NK9-D=	1.9TB SED SSD 1DWPD
UCS-SD38TEM2NK9-D=	3.8TB SED SSD 1DWPD
UCS-SD76TEM2NK9-D=	7.6TB SED SSD 1DWPD

Table 40 Spare Parts

Product ID (PID)	Description
Drive Cables	
CBL-NVME-C240M7=	C240M7 NVMe CABLE; MB P-2 to HBPLN (NVMe 1-2)
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.	
CBL-FNVME-C240M7=	C240M7 NVMe CABLE, MB P-4 to BP (NVMe 3-4)
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	
CBL-SAS12-C240M7=	C240M7SX, Cable MB CPU1 P-2 to PB/PR1
Note: Order this cable if you are adding UCSC-SAS-T-D to the server.	
CBL-SAS24-C240M7=	C240M7SX, Cable MB CPU1 P-1 to PB/PR2 & HDD 1-2
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	
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 c	
UCS-M2-240G-D=	240GB M.2 SATA SSD
UCS-M2-960G-D=	960GB M.2 SATA SSD
UCS-M2-I240GB-D=	240GB SATA M.2 SSD
UCS-M2-I480GB-D=	480GB SATA M.2 SSD
UCS-M2-HWRAID-D=	Cisco Boot optimized M.2 RAID controller (holds up to two M.2 SATA SSDs)

Product ID (PID)	Description	
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 UCS VIC 15427 Quad Port CNA MLOM with Secure Boot	
UCSC-M-V5D200GV2D=	Cisco UCS VIC 15238 Dual Port CNA MLOM with Secure Boot	
Open Compute Project (OCP)		
Note: Note: IICCC OCB3 VIT F	D= will be required if this is the first time a OCP card is installed in the server	
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	
Virtual Interface Cards (VICs)		
UCSC-P-V5Q50G-D=	Cisco UCS VIC 15425 Quad Port 10/25/50G CNA PCIE	
UCSC-P-V5D200G-D=	Cisco UCS VIC 15425 Quad Fort 107257300 CNA PCIE	
Network Interface Cards (NIC		
1GbE NICs	5)	
UCSC-P-IQ1GC=	Cisco-Intel I710-T4L 4x1GBASE-T NIC	
10GbE NICs	CISCO-IIILEL 17 10-14L 4X IGBASE-1 NIC	
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	Cisco-Intel E810XXVDA2 2x25/10GBE SFP28 PCIe NIC	
UCSC-P-I8D25GF-D= UCSC-P-I8Q25GF-D=	Cisco-Intel E810XXVDA2 ZXZ5/10GBE SFP28 PCIe NIC Cisco-Intel E810XXVDA4L 4x25/10GBE SFP28 PCIe NIC	
UCSC-P-16Q25GF-D=	Cisco-NVDA MCX631102AS-ADAT CX6Lx 2x25GbE SFP28 x8 PCIe NIC	
100GbE NICs	CISCO-INVIDA MICAUS I TUZAS-ADAT CAULA ZAZUGUL SI FZO AO FCIE INIC	
UCSC-P-MCD100GF-D=	Cisco-MLNX MCX623106AC-CDAT 2x100GbE QSFP56 PCIe NIC (with Crypto)	
UCSC-P-MDD100GF-D=	Cisco-MLNX MCX623106AS-CDAT 2x100GbE QSFP56 PCIe NIC	
UCSC-P-I8D100GF-D=	Cisco-Intel E810CQDA2 2x100 GbE QSFP28 PCIe NIC	
Host Bus Adapters (HBAs)	CIDEO MICCO ED TOCOMA ZATOO ODE QUIT ZO I CIC MIC	
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	
OCSC-F-D/DSZGF-D=	CISCO-LITICIEX LEGISCOLEME-EXSECT C GETT / PCIE TIDA	

Product ID (PID)	Description
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
External Storage HBA	
UCSC-9500-8E-D=	Cisco 12G 9500-8e 12G SAS HBA for external JBOD attach
OCP KIT	
UCSC-OCP3-KIT=	C2XX OCP 3.0 Interposer W/Mech Assy

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.

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TESLA A30, PASSIVE, 180W, 24GB		
TESLA A40 RTX, PASSIVE, 300W, 48GB		
TESLA A100, PASSIVE, 300W, 80GB		
NVIDIA A16 PCIE 250W 4X16GB		
Intel GPU Flex 170, Gen4x16, HHFL, 150W PCIe		
Intel GPU Flex 140, Gen4x8, HHHL, 75W PCIe		
NVIDIA H100: 350W, 80GB, 2-slot FHFL GPU		
NVIDIA L40: 300W, 48GB, 2-slot FHFL GPU		
NVIDIA L40S: 350W, 48GB, 2-slot FHFL GPU		
NVIDIA L4:70W, 24GB, 1-slot HHHL GPU		
GPU Accessories kit for C240M7		
UCS C220 M7 Heatsink & C240 GPU Heatsink		
UCS C-Series M7 2U Air Blocker GPU only		
GPU AIR DUCT FOR C240M7		
C240 NVIDIA P100 /A100 /A40 / A16 / A30 Cable		
C240 GPU Power Cable for the UCSC-GPU-FLEX170		
C240M7 PCIe CEM compliant 12VHPWR power cable(upto 450W)		
C240M7 PCIe CEM compliant 12VHPWR power cable(upto 300W)		
Quadro Perpetual Lic - NVIDIA vDWS 1CCU; 5Yr SUMS Req		
GRID Perpetual Lic - NVIDIA VDI APPs 1CCU; 5Yr SUMS Reqd		
GRID Perpetual Lic - NVIDIA VDI PC 1CCU; 5Yr SUMS Reqd		
EDU - Quadro Perpetual Lic - NVIDIA vDWS 1CCU; 5Yr SUMS Reqd		
NVIDIA Quadro Production SUMS - vDWS 1CCU - 5 Year		
NVIDIA GRID Production SUMS - VDI Apps 1CCU - 5 Year		

Table 40 Spare Parts

Product ID (PID)	Description
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
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

Table 40 Spare Parts

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, 250VAC 10A CEE 7/7 Plug, EU CAB-250V-10A-ID= Power Cord, 250VAC 10A CEE 7/7 Plug, EU CAB-250V-10A-ID= Power Cord, 250VAC 10A CEE 7/7 Plug, EU CAB-250V-10A-ID= Power Cord, 250VAC 10A CEE 7/7 Plug, EU CAB-250V-10A-ID= Power Cord, 250VAC 10A CEE 7/7 Plug, EU CAB-250V-10A-ID= Power Cord, 250VAC 10A CEE 7/7 Plug, EU CAB-250V-10A-ID= Power Cord, 250VAC 10A CEE 23-16/VII Plug, India CAB-250V-10A-ID= Power Cord, 250VAC 10A CEE 23-16/VII Plug, Italy CAB-9K10A-WB Power Cord, 250VAC 10A MP232 Plug, Switzerland CAB-9K10A-SW= Power Cord, 250VAC 10A MP232 Plug, Switzerland CAB-9K10A-WB Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK CAB-9K10A-WB Power Cord - 250V, 10A - Brazil CAB-3K12A-NA= Power Cord - 250V, 10A - Brazil CAB-4K12A-NA= Power Cord - 125VAC 13A NEMA 5-15 Plug, North America CAB-3K12A-NP-D= Power Cord (13-C14, 2M/6.5ft Japan PSE mark CAB-3K12A-NP-D= Power Cord (13-C14, 2M/6.5ft Japan PSE mark CAB-18-3PINB=	Product ID (PID)	Description	
CAB-250V-10A-CN= AC Power Cord - 250V, 10A - PRC CAB-9K10A-EU= Power Cord, 250Vx10A (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, 250VAC 10A, Israel CAB-9K10A-IT= Power Cord, 250VAC 10A MP232 Plug, Switzerland CAB-9K10A-UK= Power Cord, 250VAC 10A MP232 Plug, Switzerland CAB-9K10A-UK= Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK CAB-9K10A-IVE Power Cord, 125VAC 13A NEMA 5-15 Plug, North America CAB-9K10A-IVE Power Cord, 125VAC 13A NEMA 5-15 Plug, North America CAB-9K10A-IVE Power Cord, 125VAC 13A NEMA 5-15 Plug, North America CAB-3PN10A-KOR= Power Cord, 125VAC 13A NEMA 5-15 Plug, North America CAB-ACTW= AC Power Cord (Taiwan), C13, EL 302, 2.3M CAB-ATTW= AC Power Cord (Taiwan), C13, EL 302, 2.3M CAB-48DC40A-INT-D= C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (INT) CAB-48DC40A-INT-D= C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (INT) CAB-19-ISRL= S132 to IEC-C	CAB-250V-10A-AR=	Power Cord, 250V, 10A, Argentina	
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-250V-10A-IS= 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-W 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-GS0V-10A-BR = Power Cord - 250V, 10A - Brazil CAB-GB-YR10A-KOR= Power Cord (13-C14, 2M/6-5ft Japan PSE mark CAB-GB-YR10A-KOR= Power Cord (13-C14, 2M/6-5ft Japan PSE mark CAB-ABC-40A-INT-D= AC Power Cord (Taiwan), C13, EL 302, 2.3M CAB-JPN-3PIN= Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m CAB-48DC-40A-INT-D= C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (INT) CAB-CB-SBB-C-40A-AS-D= C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (AS/NZ) CAB-US-CBH= Cabinet Jumper Power	CAB-9K10A-AU=	Power Cord, 250VAC 10A 3112 Plug, Australia	
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, 250VAC 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-9K12A-NA= Power Cord - 250V, 10A - Brazii CAB-19C1A-WA-JP-D= Power Cord (13-C14, 2M/6-5ft Japan PSE mark CAB-9K10A-KOR= Power Cord (1awan), C13, EL 302, 2.3M CAB-3PN-3PIN= Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m CAB-4BDC-40A-INT-D= C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (INT) CAB-4BDC-40A-AS-D= C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (AS/NZ) CAB-19-19SRL= S132 to IEC-C19 14ft Israeli CAB-19-19SRL= S132 to IEC-C19 14ft UK CAB-18207-3-C19-JSRL= S132 to IEC-C19 14ft UK CAB-1820P-C19-UK= B5-1363 to IEC-C19 14ft UK CAB-2516-	CAB-250V-10A-CN=	AC Power Cord - 250V, 10A - PRC	
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-W= 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-9K10A-WAP-D= Power Cord - 250V, 10A - Brazil CAB-9K10A-KOR= Power Cord (13-C14, 2M/6.5ft Japan PSE mark CAB-9K10A-KOR= Power Cord (Taiwan), C13, EL 302, 2.3M CAB-9K10A-KOR= AC Power Cord (Taiwan), C13, EL 302, 2.3M CAB-9N-3PIN= Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m CAB-4BDC-4DA-AS-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, 3 Wire, 8AWG, 40A (AS/NZ) CAB-5132-C19-ISRL= S132 to IEC-C19 14ft Israeli CAB-S132-C19-IND= S132 to IEC-C19 14ft UK CAB-SB3-619-IWB BS-1363 to IEC-C19 India CAB-SBS-C19-IND= SABS 164-1 to IEC-C19 India	CAB-9K10A-EU=	Power Cord, 250VAC 10A CEE 7/7 Plug, EU	
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-250V-10A-BR = Power Cord C13-C14, 2M/6.5ft Japan PSE mark CAB-9K10A-KOR= Power Cord (13-C14, 2M/6.5ft Japan PSE mark CAB-9K10A-KOR= Power Cord (125VAC 13A KSC8305 Plug, Korea CAB-ABCHOA-KOR= Power Cord (125VAC 12A NEMA 5-15 Plug, 2.4m CAB-3PN-3PIN= Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m CAB-48DC-40A-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-19-19-ISRL= CAB-19-19-19-19-19-19-19-19-19-19-19-19-19-	CAB-250V-10A-ID=	Power Cord, 250V, 10A, 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 B51363 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-G13C142M-JP-D= Power Cord (13-C14, 2M/6.5ft Japan PSE mark CAB-G13C142M-JP-D= Power Cord (15-C14, 2M/6.5ft Japan PSE mark CAB-G10A-KOR= AC Power Cord (15-C19, 146 Lapan PSE mark CAB-G10A-KOR= AC Power Cord (15-C19, 2M/6.5ft Japan PSE mark CAB-G20A-KOR= AC Power Cord (15-C19, 2M/6.5ft Japan PSE mark CAB-G20A-KOR= AC Power Cord (15-C19, 2M/6.5ft Japan PSE mark CAB-G20A-C19-IND= C-Series -48VDC PSU PWR Cord, 3.5M, 3Wire, 8AWG, 40A (40A/6.7K)	CAB-C13-C14-3M-IN=	Power Cord Jumper, C13-C14 Connectors, 3 Meter Length, India	
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 (Taiwan), C13, EL 302, 2.3M 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-48DC-40A-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 CAB-BS1363-C19-UK= BS-1363 to IEC-C19 14ft UK CAB-SABS-C19-IND= SABS 164-1 to IEC-C19 14ft UK CAB-SABS-C19-IND= SABS 164-1 to IEC-C19 14ft UK CAB-US515P-C19-US= NEMA 5-15 to IEC-C19 13ft US CAB-US520-C19-US= NEMA 5-20 to IEC-C19 13ft US CAB-US620P-C19-US= <td>CAB-C13-C14-IN=</td> <td>Power Cord Jumper,C13-C14 Connectors,1.4 Meter Length, India</td>	CAB-C13-C14-IN=	Power Cord Jumper,C13-C14 Connectors,1.4 Meter Length, India	
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-9K10A-KOR= AC Power Cord (Taiwan), C13, EL 302, 2.3M CAB-3ACTW= AC Power Cord (Taiwan), C13, EL 302, 2.3M CAB-JPN-3PIN= Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m CAB-JPN-3PIN= Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m CAB-48DC-40A-AS-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, 3 Wire, 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 CAB-S1363-C19-UK= BS-1363 to IEC-C19 14ft UK CAB-SABS-C19-IND= SABS 164-1 to IEC-C19 14ft UK CAB-US316-C19-IT= CEI 23-16 to IEC-C19 14ft US CAB-US520-C19-US= NEMA 5-20 to IEC-C19 13ft US CAB-US520-C19-US	CAB-250V-10A-IS=	Power Cord, SFS, 250V, 10A, Israel	
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-619-CBN= Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors CAB-5132-C19-ISRL= S132 to IEC-C19 14ft Israeli CAB-58133-C19-IWE BS-1363 to IEC-C19 14ft UK 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 US CAB-US520-C19-US= NEMA 5-15 to IEC-C19 13ft US CAB-US520-C19-US= NEMA 5-20 to IEC-C19 13ft US CAB-US520-C19-US= NEMA 5-20 to IEC-C19 13ft US Rail Kit UCSC-RAIL-NONE-D=	CAB-9K10A-IT=	Power Cord, 250VAC 10A CEI 23-16/VII Plug, Italy	
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-5132-C19-ISRL= S132 to IEC-C19 14ft Israeli CAB-BR2073-C19-AR= IRSM 2073 to IEC-C19 14ft UK 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 13ft US CAB-US515P-C19-US= NEMA 5-15 to IEC-C19 13ft US CAB-US520-C19-US= NEMA 5-20 to IEC-C19 13ft US CAB-US620P-C19-US= NEMA 6-20 to IEC-C19 13ft US CAB-US620P-C19-US= NEMA 6-20 to IEC-C19 13ft US Rail Kit UCSC-RAIL-NONE-D= No ra	CAB-9K10A-SW=	Power Cord, 250VAC 10A MP232 Plug, Switzerland	
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 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 5-15 to IEC-C19 14ft US CAB-US520-C19-US= NEMA 5-20 to IEC-C19 14ft 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-CMA-C240-D= Reversible CMA for C240 M6/M7 ball bearing rail kit	CAB-9K10A-UK=	Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK	
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= 5132 to IEC-C19 14ft Israeli CAB-IR2073-C19-AR= IRSM 2073 to IEC-C19 14ft UK 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 US CAB-US515P-C19-US= NEMA L5-20 to IEC-C19 13ft US CAB-US520-C19-US= NEMA 5-15 to IEC-C19 14ft US CAB-US620P-C19-US = NEMA 5-20 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	CAB-9K12A-NA=	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America	
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-C19-CBN= S132 to IEC-C19 14ft Israeli CAB-IR2073-C19-ISRL= S132 to IEC-C19 14ft Argen CAB-IR2073-C19-AR= IRSM 2073 to IEC-C19 14ft UK CAB-BS1363-C19-UK= BS-1363 to IEC-C19 14ft UK CAB-SABS-C19-IND= SABS 164-1 to IEC-C19 14ft Italy CAB-C2316-C19-IT= CEI 23-16 to IEC-C19 14ft US CAB-US515P-C19-US= NEMA 5-15 to IEC-C19 13ft US CAB-US520-C19-US= NEMA 5-20 to IEC-C19 13ft US CAB-US620P-C19-US= NEMA 6-20 to IEC-C19 13ft US Rail Kit UCSC-RAIL-D= No rail kit option UCSC-RAIL-NONE-D= No rail kit option UCSC-CMA-C240-D= Reversible CMA for C240 M6/M7 ball bearing rail kit	CAB-250V-10A-BR =	Power Cord - 250V, 10A - Brazil	
CAB-ACTW= CAB-JPN-3PIN= CAB-JPN-3PIN= CAB-48DC40A-INT-D= CAB-48DC-40A-AS-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, 3 Wire, 8AWG, 40A (AS/NZ) CAB-C19-CBN= CABinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors CAB-S132-C19-ISRL= CAB-IR2073-C19-AR= IRSM 2073 to IEC-C19 14ft Israeli CAB-IR2073-C19-AR= CAB-BS1363-C19-UK= BS-1363 to IEC-C19 14ft UK CAB-SABS-C19-IND= CAB-C2316-C19-IT= CEI 23-16 to IEC-C19 14ft Italy CAB-L520P-C19-US= NEMA L5-20 to IEC-C19 14ft US CAB-US515P-C19-US= NEMA 5-15 to IEC-C19 14ft 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-CMA-C240-D= Reversible CMA for C240 M6/M7 ball bearing rail kit	CAB-C13C142M-JP-D=	Power Cord C13-C14, 2M/6.5ft Japan PSE mark	
CAB-JPN-3PIN= CAB-48DC-40A-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, 3 Wire, 8AWG, 40A (INT) CAB-48DC-40A-AS-D= C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 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 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= CAB-C2316-C19-IT= CEI 23-16 to IEC-C19 14ft Italy CAB-L520P-C19-US= NEMA L5-20 to IEC-C19 13ft US CAB-US515P-C19-US= NEMA 5-15 to IEC-C19 13ft US CAB-US520-C19-US= NEMA 5-20 to IEC-C19 13ft 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	CAB-9K10A-KOR=	Power Cord, 125VAC 13A KSC8305 Plug, Korea	
CAB-48DC40A-INT-D= CAB-48DC-40A-AS-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= CAB-G19-CBN= CAB-S132-C19-ISRL= CAB-IR2073-C19-AR= CAB-IR2073-C19-AR= CAB-B51363-C19-UK= CAB-B51363-C19-UK= CAB-SABS-C19-IND= CAB-C2316-C19-IT= CAB-C2316-C19-IT= CAB-L520P-C19-US = NEMA L5-20 to IEC-C19 14ft US CAB-US515P-C19-US= NEMA 5-15 to IEC-C19 13ft US CAB-US520P-C19-US = NEMA 5-20 to IEC-C19 14ft US CAB-US620P-C19-US = NEMA 6-20 to IEC-C19 13ft 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	CAB-ACTW=	AC Power Cord (Taiwan), C13, EL 302, 2.3M	
CAB-48DC-40A-AS-D= C-Series -48VDC PSU PWR Cord, 3.5M, 3Wire, 8AWG, 40A (AS/NZ) CAB-C19-CBN= CAB-S132-C19-ISRL= CAB-IR2073-C19-AR= CAB-BS1363-C19-UK= CAB-SABS-C19-IND= CAB-C2316-C19-IT= CAB-L520P-C19-US= CAB-US515P-C19-US= CAB-US520-C19-US= NEMA 5-20 to IEC-C19 14ft US CAB-US520P-C19-US= NEMA 6-20 to IEC-C19 13ft US Rail Kit UCSC-RAIL-D= UCSC-CMA-C240-D= Reversible CMA for C240 M6/M7 ball bearing rail kit Security CAB-C19-C19 CAB-C250 VAC 16A, C20-C19 Connectors CAB-US50 VAC 16A, C20-C19 Connectors CAB-US50 VAC 16A, C20-C19 Connectors CAB-US50 VAC 16A, C20-C19 14ft US CAB-US5132-C19-UK= DIRCH 18 VAC 16A, C20-C19 14ft UK CAB-US5132-C19-UK= DIRCH 18 VAC 16A, C20-C19 14ft US CAB-US520-C19-US= NEMA 5-15 to IEC-C19 13ft US NEMA 6-20 to IEC-C19 13ft US Rail kit UCSC-RAIL-NONE-D= No rail kit option UCSC-CMA-C240-D= Reversible CMA for C240 M6/M7 ball bearing rail kit	CAB-JPN-3PIN=	Japan, 90-125VAC 12A NEMA 5-15 Plug, 2.4m	
CAB-C19-CBN= CAB-S132-C19-ISRL= S132 to IEC-C19 14ft Israeli 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-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 5-20 to IEC-C19 13ft 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-CMA-C240-D= Reversible CMA for C240 M6/M7 ball bearing rail kit Security	CAB-48DC40A-INT-D=	C-Series -48VDC PSU PWR Cord, 3.5M, 3 Wire, 8AWG, 40A (INT)	
CAB-S132-C19-ISRL= S132 to IEC-C19 14ft Israeli 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	CAB-48DC-40A-AS-D=	C-Series -48VDC PSU PWR Cord, 3.5M, 3Wire, 8AWG, 40A (AS/NZ)	
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	CAB-C19-CBN=	Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors	
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	CAB-S132-C19-ISRL=	S132 to IEC-C19 14ft Israeli	
CAB-SABS-C19-IND= 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= CAB-US520-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	CAB-IR2073-C19-AR=	IRSM 2073 to IEC-C19 14ft Argen	
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	CAB-BS1363-C19-UK=	BS-1363 to IEC-C19 14ft UK	
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	CAB-SABS-C19-IND=	SABS 164-1 to IEC-C19 India	
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	CAB-C2316-C19-IT=	CEI 23-16 to IEC-C19 14ft Italy	
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	CAB-L520P-C19-US =	NEMA L5-20 to IEC-C19 6ft 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	CAB-US515P-C19-US=	NEMA 5-15 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	CAB-US520-C19-US=	NEMA 5-20 to IEC-C19 14ft US	
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	CAB-US620P-C19-US =	NEMA 6-20 to IEC-C19 13ft US	
UCSC-RAIL-NONE-D= No rail kit option UCSC-CMA-C240-D= Reversible CMA for C240 M6/M7 ball bearing rail kit Security	Rail Kit		
UCSC-CMA-C240-D= Reversible CMA for C240 M6/M7 ball bearing rail kit Security	UCSC-RAIL-D=	Ball Bearing Rail Kit for C220 & C240 M6/M7 rack servers	
Security	UCSC-RAIL-NONE-D=	No rail kit option	
	UCSC-CMA-C240-D=	Reversible CMA for C240 M6/M7 ball bearing rail kit	
LICSC-DI OM-01-D- Dedicated Mode RIOS setting for C Sories Servers	Security		
Dedicated winder plob settilist of C-series servers	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	UCSC-CCARD-01-D=	Cisco Card Mode BIOS setting for C-Series Servers	
UCSX-TPM-002C-D= TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers	UCSX-TPM-002C-D=	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers	

Table 40 Spare Parts

Product ID (PID)	Description		
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		
UCSX-TPM-OPT-OUT-D=	OPT OUT, TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified		
UCSC-BZL-C240-D=	-C240-D= C240 M7 Security Bezel		
Operating system and Software			
VMware vCenter			
VMW-VCS-STD-D1A =	VMware vCenter 7 Server Standard, 1 yr support required		
VMW-VCS-STD-D3A=	VMware vCenter 7 Server Standard, 3 yr support required		
VMW-VCS-STD-D5A=	VMware vCenter 7 Server Standard, 5 yr support required		
VMW-VCS-FND-D1A=	VMware vCenter Server 7 Foundation (4 Host), 1 yr supp reqd		
VMW-VCS-FND-D3A=	VMware vCenter Server 7 Foundation (4 Host), 3 yr supp reqd		
VMW-VCS-FND-D5A=	VMware vCenter Server 7 Foundation (4 Host), 5 yr supp reqd		
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 Avai	l/ Res Strg/ Scal		
RHEL-2S2V-D1S=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); Prem 1Yr SnS Reqd		
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		

Table 40 Spare Parts

Product ID (PID)	Description
RHEL-SAPSS-D3S=	RHEL SAP Solutions Standard - 3 Years
VMware	
VMW-VSP-STD-D1A=	VMware vSphere 7 Std (1 CPU, 32 Core) 1-yr, Support Required
VMW-VSP-STD-D3A=	VMware vSphere 7 Std (1 CPU, 32 Core) 3-yr, Support Required
VMW-VSP-STD-D5A=	VMware vSphere 7 Std (1 CPU, 32 Core) 5-yr, Support Required
VMW-VSP-EPL-D1A=	VMware vSphere 7 Ent Plus (1 CPU, 32 Core) 1Yr, Support Reqd
VMW-VSP-EPL-D3A=	VMware vSphere 7 Ent Plus (1 CPU, 32 Core) 3Yr, Support Reqd
VMW-VSP-EPL-D5A=	VMware vSphere 7 Ent Plus (1 CPU, 32 Core) 5Yr, Support Reqd
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
SLES-SAP-2S2V-D5A=	SLES for SAP Apps w/ HA (1-2 CPU, 1-2 VM); 5-Yr Support Reqd

1. This part is included with the purchase of option or spare CPU or CPU processor kits.

TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 41 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:	18.6 kgs = 41.01 lbs
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)	(NVMe SKU)
Weight with following options and including rail kit:	22.3 kgs = 49.16 lbs
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)	(NVMe SKU)
Weight with following options and no rail kit:	19.4 kgs = 42.77 lbs
1* HDD, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, mLOM card, Riser Cage 1 (Without PCle), Riser Cage 2 (Without PCle), Riser Cage 3 (Without PCle)	(NVMe SKU)
Weight with following options and including rail kit:	23.1 kgs = 50.93 lbs
1* 2.5 HDDs, 1* CPU (with Heat sink), 1* DIMM, 1* 2300W PSU, mLOM, Riser Cage 1 (Without PCle), Riser Cage 2 (Without PCle), Riser Cage 3 (Without PCle)	(NVMe SKU)
Weight with following options and no rail kit:	23.5 kgs = 51.81 lbs
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)	(NVMe SKU)
Weight with following options and including rail kit:	28.0 kgs = 61.73 lbs
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)	(NVMe SKU)
Weight with following options and no rail kit:	19.2 kgs = 42.33 lbs
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	(SAS SKU)
Weight with following options and including rail kit:	22.9 kgs = 50.49 lbs
0* 2.5 HDDs, 0* CPU (with Heat sink), 0* DIMM, 1* 2300W PSU, 2* Raid Tray , mLOM, Riser Cage 1 (Without PCle), Riser Cage 2 (Without PCle), Riser Cage 3 (Without PCle)	(NVMe SKU)
Weight with following options and no rail kit:	20 kgs = 44.09 lbs
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	(NVMe SKU)

Table 41 UCS C240 M7 Dimensions and Weight

Parameter	Value	
Weight with following options and including rail kit:	23.7 kgs = 52.25 lbs	
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)	(NVMe SKU)	
Weight with following options and no rail kit:	28.6kgs = 63.05 lbs	
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	(NVMe SKU)	
Weight with following options and including rail kit:	33.1 kgs = 72.97lbs	
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)	(NVMe SKU)	

Power Specifications

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

- 1050 W V2 (DC) power supply (see *Table 42*).
- 1200 W (AC) power supply (see *Table 43*)
- 1600 W (AC) power supply (see *Table 44*)
- 2300 W (AC) power supply (see *Table 45*)

Table 42 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

- 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 43 UCS C240 M7 1200 W (AC) Power Supply Specifications

Parameter		Specif	ication	
Input Connector	IEC320 C14			
Input Voltage Range (Vrms)		100 t	o 240	
Maximum Allowable Input Voltage Range (Vrms)		90 to	264	
Frequency Range (Hz)		50 t	o 60	
Maximum Allowable Frequency Range (Hz)		47 to 63		
Maximum Rated Output (W) ¹	1100 1200		00	
Maximum Rated Standby Output (W)	48			
Nominal Input Voltage (Vrms)	is) 100 120 208		230	
Nominal Input Current (Arms) 12.97 10.62		10.62	6.47	5.84
Maximum Input at Nominal Input Voltage (W)	1300 1264 1343 134		1340	
Maximum Input at Nominal Input Voltage (VA)	ut 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			

- 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 44 UCS C240 M7 1600 W (AC) Power Supply Specifications

Parameter		Specification		
Input Connector		IEC320 C14		
Input Voltage Range (V rms)		200	0 to 240	
Maximum Allowable Input Voltage Range (V rms)		180	0 to 264	
Frequency Range (Hz)		50	0 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 NA 1778 17		1758
Maximum Input at Nominal Input Voltage (VA)	NA NA 1833 18		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		

- 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 45 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 248		2480	
Maximum Input at Nominal Input Voltage (VA)	ximum 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		

- 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 46.

Table 46 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	1RU: 5.5B	
A-weighted per ISO7779 LWAd (Bels) Operation at 23°C (73°F)	2RU: 5.8B	
	Racked product: 6.8B	
Sound Pressure level, Measure	1RU: 40dB	
A-weighted per ISO7779 LpAm (dBA) Operation at 23°C (73°F)	2RU: 43dB	
	Racked product: 55dB	

Extended Operating Temperature Hardware Configuration Limits

Table 47 Cisco UCS C240 M7 Extended Operating Temperature Hardware Configuration Limits

Platform ¹	ASHRAE A3 (5°C to 40°C) ²	ASHRAE A4 (5°C to 45°C) 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
PCle	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.

- 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 48

Table 48 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 49 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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/unified-computing-accessories-eol.html
UCS-M2-960GB-D	960GB M.2 SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/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/collate ral/servers-unified-computing/ucs-b-series-blade-s ervers/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/collate ral/servers-unified-computing/ucs-b-series-blade-s ervers/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/collate ral/servers-unified-computing/ucs-b-series-blade-s ervers/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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/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/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/select-ucs-ucsx-accessories-eol.html

Table 49 EOS

UCSC-M-V5Q50G-D	Cisco VIC 15428 4x 10/25/50G mLOM C-Series	https://www.cisco.com/c/en/us/products/collate ral/servers-unified-computing/ucs-c-series-rack-se rvers/select-ucs-ucsx-accessories-eol.html
		TVCTS/ SCICCE des desx decessories confinin

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