Spec Sheet

Cisco UCS X210c M7 Compute Node

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

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OVERVIEW

The Cisco UCS X-Series Modular System simplifies your data center, adapting to the unpredictable needs of modern applications while also providing for traditional scale-out and enterprise workloads. It reduces the number of server types to maintain, helping to improve operational efficiency and agility as it helps reduce complexity. Powered by the Cisco Intersight™ cloud operations platform, it shifts your thinking from administrative details to business outcomes with hybrid cloud infrastructure that is assembled from the cloud, shaped to your workloads, and continuously optimized.

The Cisco UCS X210c M7 Compute Node is the computing device to integrate into the Cisco UCS X-Series Modular System. Up to eight compute nodes can reside in the 7-Rack-Unit (7RU) Cisco UCS X9508 Chassis, offering one of the highest densities of compute, IO, and storage per rack unit in the industry.

The Cisco UCS X210c M7 Compute Node 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.
- **Storage**: Up to 6 hot-pluggable, Solid-State Drives (SSDs), or Non-Volatile Memory Express (NVMe) 2.5-inch drives with a choice of enterprise-class Redundant Array of Independent Disks (RAID) or pass-through controllers with four lanes each of PCIe Gen 4 connectivity and up to 2 M.2 SATA or NVMe drives for flexible boot and local storage capabilities.
- **Optional Front Mezzanine GPU module:** The Cisco UCS Front Mezzanine GPU module is a passive PCIe Gen 4 front mezzanine option with support for up to two U.2 or U.3 NVMe drives and two GPUs.
- **mLOM virtual interface cards:**
  - Cisco UCS Virtual Interface Card (VIC) 15420 occupies the server's Modular LAN on Motherboard (mLOM) slot, enabling up to 50Gbps (2 x25Gbps) of unified fabric connectivity to each of the chassis Intelligent Fabric Modules (IFMs) for 100Gbps connectivity per server.
  - Cisco UCS Virtual Interface Card (VIC) 15230 occupies the server's modular LAN on motherboard (mLOM) slot, enabling up to 100 Gbps of unified fabric connectivity to each of the chassis Intelligent Fabric Modules (IFMs) for 100 Gbps connectivity per server with secure boot capability.
- **Optional Mezzanine card:**
  - Cisco UCS Virtual Interface Card (VIC) 15422 can occupy the server's mezzanine slot at the bottom rear of the chassis. An included bridge card extends this VIC's 100Gbps (4 x 25Gbps) of network connections through IFM connectors, bringing the total bandwidth to 100Gbps per VIC 15420 and 15422 (for a total of 200Gbps per server). In addition to IFM connectivity, the VIC 15422 I/O connectors link to Cisco UCS X-Fabric technology.

- Cisco UCS PCI Mezz card for X-Fabric can occupy the server's mezzanine slot at the bottom rear of the chassis. This card's I/O connectors link to Cisco UCS X-Fabric modules and enable connectivity to the X440p PCIe Node.

- **Security**: Includes secure boot silicon root of trust FPGA, ACT2 anti-counterfeit provisions, and optional Trusted Platform Model (TPM).

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

Figure 1 on page 5 shows a front view of the Cisco UCS X210c M7 Compute Node.

Figure 1 Cisco UCS X210c M7 Compute Node

Front View with Drives



Front View with Drives and GPU



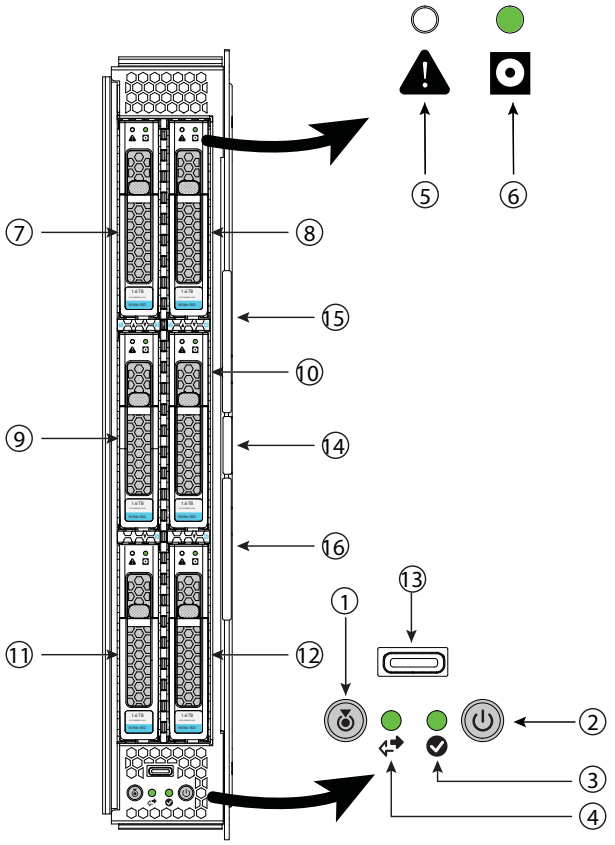
DETAILED VIEWS

Cisco UCS X210c M7 Compute Node Front View

Figure 2 & *Figure 3* is a front view of the Cisco UCS X210c M7 Compute Node.

Figure 2 Cisco UCS X210c M7 Compute Node Front View (Drives option)

Storage Drives Option



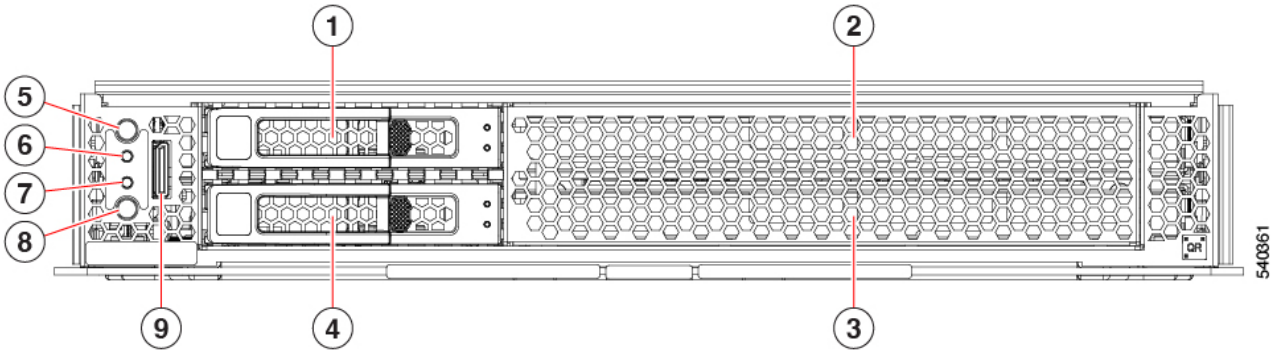
1	Locate button/LED	**9**	Drive Bay 3 (shown populated)
2	Power button/LED	**10**	Drive Bay 4 (shown populated)
3	Status LED	**11**	Drive Bay 5 (shown populated)
4	Network activity LED	**12**	Drive Bay 6 (shown populated)
5	Warning LED (one per drive)	**13**	OCuLink console port[1]
6	Disk drive activity LED (one per drive)	**14**	Ejector handle retention button
7	Drive Bay 1 (shown populated)	**15**	Upper ejector handle
8	Drive Bay 2 (shown populated)	**16**	Lower ejector handle

Notes:

1. An adapter cable (PID UCSX-C-DEBUGCBL) is required to connect the OCuLink port to the transition serial USB and video (SUV) octopus cable.

Figure 3 Cisco UCS X210c M7 Compute Node Front View (Drives and GPU option)

Storage Drives and GPU Option



1	U.2/U.3 NVMe drive slot 1	**6**	Activity LED
2	GPU slot 1	**7**	Health LED
3	GPU slot 2	**8**	Locator LED
4	U.2/U.3 NVMe drive slot 2	**9**	Console port
5	Power Button/LED	**-**	-

COMPUTE NODE STANDARD CAPABILITIES and FEATURES

Table 1 lists the capabilities and features of the base Cisco UCS X210c M7 Compute Node. Details about how to configure the compute node for a listed feature or capability (for example, number of processors, drives, or amount of memory) are provided in *CONFIGURING the Cisco UCS X210c M7 Compute Node on page 9*.

Table 1 Capabilities and Features

Capability/Feature	Description
Chassis	The Cisco UCS X210c M7 Compute Node mounts in a Cisco UCS X9508 chassis.
CPU	■ One or two 5th Gen. Intel® Xeon® Scalable Processors **or** One or two 4th Gen. Intel® Xeon® Scalable Processors. ■ Each CPU has 8 channels with up to 2 DIMMs per channel, for up to 16 DIMMs per CPU. ■ UPI Links: Up to 4 at 20GT/s
Chipset	Intel® C741 series chipset
Memory	■ 32 total DDR5-5600 MT/s DIMM slots with 5th Gen. Intel® Xeon® Scalable Processors (16 per CPU) **or** 32 total DDR5-4800 MT/s DIMM slots with 4th Gen. Intel® Xeon® Scalable Processors ■ Up to 8TB DDR5-5600 DIMM memory capacity (32x 256GB DIMMs) with 5th Gen. Intel® Xeon® Scalable Processors **or** Up to 8TB DDR5-4800 DIMM memory capacity (32x 256GB DIMMs) with 4th Gen. Intel® Xeon® Scalable Processors ■ 75% peak bandwidth increase over DDR4-3200, with on-die ECC; all densities are Registered DIMMs (RDIMMs)
Storage	Up to 6 hot-pluggable, Solid-State Drives (SSDs), or Non-Volatile Memory Express (NVMe) 2.5-inch drives with a choice of enterprise-class Redundant Array of Independent Disks (RAID) or pass-through controllers with four lanes each of PCIe Gen 4 connectivity and up to 2 M.2 SATA or NVMe drives for flexible boot and local storage capabilities.
Additional Storage	■ Dual 80 mm SATA 3.0 M.2 cards (up to 960GB per card) on a boot-optimized hardware RAID controller ■ Dual 80 mm NVMe cards (up to 960GB per card) on a passthrough controller
Mezzanine Adapters (Front)	One front mezzanine connector that supports: ■ Up to 6 x 2.5-inch SAS and SATA RAID-compatible SSDs ■ Up to 6 x 2.5-inch NVMe PCIe drives ■ A mixture of up to six SAS/SATA **or** NVMe drives ■ A mixture of up to two GPUs and up to two NVMe drives  **Note:** Drives require a RAID or pass-through controller in the front mezzanine module slot or a front mezzanine GPU module.

Table 1 Capabilities and Features *(continued)*

Capability/Feature	Description
Mezzanine Adapter (Rear)	■ An optional Cisco UCS Virtual Interface Card 15422 can occupy the server's mezzanine slot at the bottom of the chassis. A bridge card extends this VIC's 2x 50Gbps of network connections up to the mLOM slot and out through the mLOM's IFM connectors, bringing the total bandwidth to 100Gbps per fabric—a total of 200Gbps per server. ■ An optional UCS PCIe Mezz card for X-Fabric is also supported in the server's mezzanine slot. This card's I/O connectors link to the Cisco UCS X-Fabric modules for UCS X-series Gen4 PCIe node access.
mLOM	The modular LAN on motherboard (mLOM) cards (the Cisco UCS VIC 15420) is located at the rear of the compute node. ■ The Cisco UCS Virtual Interface Card VIC 15420 is a Cisco designed PCI Express (PCIe) based card that supports two 2x25G-KR network interfaces to provide Ethernet communication to the network by means of the Intelligent Fabric Modules (IFMs) in the Cisco UCS X9508 chassis. The Cisco UCS VIC 15420 mLOM can connect to the rear mezzanine adapter card with a bridge connector. ■ The Cisco UCS Virtual Interface Card (VIC) 15230 occupies the server's modular LAN on motherboard (mLOM) slot, enabling up to 100 Gbps of unified fabric connectivity to each of the chassis Intelligent Fabric Modules (IFMs) for 100 Gbps connectivity per server with secure boot capability.
Video	The Cisco Integrated Management Controller (CIMC) provides video using the Aspeed AST2600 video/graphics controller.
Front Panel Interfaces	OCuLink console port. Note that an adapter cable is required to connect the OCuLink port to the transition serial USB and video (SUV) octopus cable.
Power subsystem	Power is supplied from the Cisco UCS X9508 chassis power supplies.
Fans	Integrated in the Cisco UCS X9508 chassis.
Integrated management processor	The built-in Cisco Integrated Management Controller enables monitoring of Cisco UCS X210c M7 Compute Node inventory, health, and system event logs.
Baseboard Management Controller (BMC)	ASPEED Pilot IV
ACPI	Advanced Configuration and Power Interface (ACPI) 6.5 Standard Supported. ACPI states S0 and S5 are supported. There is no support for states S1 through S4.
Front Indicators	■ Power button and indicator ■ System activity indicator ■ Location button and indicator
Management	■ **Cisco Intersight software** (SaaS, Virtual Appliance and Private Virtual Appliance) ■ Starting with UCS Manager (UCSM) 4.3(2) or later
Fabric Interconnect	Compatible with the Cisco UCS 6454, 64108, 6536, 6664 and UCSX-S9108-100G fabric interconnects.
Chassis	Compatible with the Cisco UCS 9508 X-Series Server Chassis

CONFIGURING the Cisco UCS X210c M7 Compute Node

Follow these steps to configure the Cisco UCS X210c M7 Compute Node:

- *STEP 1 CHOOSE BASE CISCO UCS X210C M7 COMPUTE NODE SKU, page 10*
- *STEP 2 CHOOSE CPU(S), page 11*
- *STEP 3 CHOOSE MEMORY, page 17*
- *STEP 4 CHOOSE REAR mLOM ADAPTER, page 21*
- *STEP 5 CHOOSE OPTIONAL REAR MEZZANINE VIC/BRIDGE ADAPTERS, page 25*
- *STEP 6 CHOOSE OPTIONAL FRONT MEZZANINE ADAPTER, page 27*
- *STEP 7 CHOOSE OPTIONAL GPU PCIe NODE, page 28*
- *STEP 8 CHOOSE OPTIONAL GPUs, page 29*
- *STEP 9 CHOOSE OPTIONAL DRIVES, page 30*
- *STEP 10 ORDER M.2 SATA SSDs AND RAID CONTROLLER, page 33*
- *STEP 11 ORDER NVMe BOOT (OPTIONAL), page 34*
- *STEP 12 CHOOSE OPTIONAL TRUSTED PLATFORM MODULE, page 35*
- *STEP 13 CHOOSE OPERATING SYSTEM AND VALUE-ADDED SOFTWARE, page 36*
- *STEP 14 CHOOSE OPTIONAL OPERATING SYSTEM MEDIA KIT, page 39*
- *SUPPLEMENTAL MATERIAL, page 40*

STEP 1 CHOOSE BASE CISCO UCS X210C M7 COMPUTE NODE SKU

Top Level ordering product ID (PID) of the Cisco UCS X210c M7 Compute Node as shown in ***Table 3***

Table 2 Top level ordering PID

Product ID (PID)	Description
UCSX-M7-MLB	UCSX M7 Modular Server and Chassis MLB

Select the product ID (PID) of the Cisco UCS X210c M7 Compute Node as shown in ***Table 5***.

Table 3 PID of the Base Cisco UCS X210c M7 Compute Node

Product ID (PID)	Description
UCSX-210C-M7	Cisco UCS X210c M7 Compute Node without CPU, memory, drive bays, drives, VIC adapter, or mezzanine adapters (ordered as a UCS X9508 chassis option)
UCSX-210C-M7-U	Cisco UCS X210c M7 Compute Node without CPU, memory, drive bays, drives, VIC adapter, or mezzanine adapters (ordered standalone)

A base Cisco UCS X210c M7 Compute Node ordered in ***Table 3*** does not include any components or options. They must be selected during product ordering.

Please follow the steps on the following pages to order components such as the following, which are required in a functional compute node:

- CPUs
- Memory
- Cisco storage RAID or passthrough controller with drives (or blank, for no local drive support)
- SAS, SATA, NVMe, M.2, or U.2/U.3 drives
- Cisco adapters (such as the 15000 series VIC or Bridge)

STEP 2 CHOOSE CPU(S)

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

- The available 5th Gen Intel® Xeon® Scalable CPUs are listed in ***Table 4***. See ***Table 6 on page 14*** for CPU suffix notations.
- The available 4th Gen Intel® Xeon® Scalable CPUs are listed in ***Table 5***. See ***Table 6 on page 14*** for CPU suffix notations.

Table 4 Available 5th Gen. Intel® Xeon® Scalable CPUs

Product ID (PID)	Segment/Workload	Maximum Socket (S)	Cores (C)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Highest DDR5 DIMM Clock Support (MT/s)
8000 Series Processors							
UCSX-CPU-I8592V	Cloud/SaaS/IaaS	2S	64	2.00	330	320.00	4800
UCSX-CPU-I8592+	2S Performance	2S	64	1.90	350	320.00	5600
UCSX-CPU-I8581V[1]	1-S Cloud/SaaS	1S	60	2.00	270	300.00	4800
UCSX-CPU-I8580	2S Performance	2S	60	2.00	350	300.00	5600
UCSX-CPU-I8571N[1]	1-S Networking	1S	52	2.40	300	300.00	4800
UCSX-CPU-I8570	2S Performance	2S	56	2.10	350	300.00	5600
UCSX-CPU-I8568Y+	2S Performance	2S	48	2.30	350	300.00	5600

Table 4 Available 5th Gen. Intel® Xeon® Scalable CPUs

Product ID (PID)	Segment/Workload	Maximum Socket (S)	Cores (C)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Highest DDR5 DIMM Clock Support (MT/s)
UCSX-CPU-I8562Y+	2S Performance	2S	32	2.80	300	60.00	5600
UCSX-CPU-I8558U[1]	1-Socket Optimized	1S	48	2.00	300	260.00	4800
UCSX-CPU-I8558P	Cloud/SaaS/IaaS	2S	48	2.70	350	260.00	5600
UCSX-CPU-I8558	2S Mainline	2S	48	2.10	330	260.00	5200
6000 Series Processors							
UCSX-CPU-I6554S	Storage	2S	36	2.20	270	180.00	5200
UCSX-CPU-I6548Y+	2S Performance	2S	32	2.50	250	60.00	5200
UCSX-CPU-I6548N	Networking	2S	32	2.80	250	60.00	5200
UCSX-CPU-I6544Y	2S Performance	2S	16	3.60	270	45.00	5200
UCSX-CPU-I6542Y	2S Performance	2S	24	2.90	250	60.00	5200
UCSX-CPU-I6538Y+	2S Mainline	2S	32	2.20	225	60.00	5200
UCSX-CPU-I6538N	Networking	2S	32	2.10	205	60.00	5200
UCSX-CPU-I6534	2S Performance	2S	8	3.90	195	22.50	4800
UCSX-CPU-I6530	2S Mainline	2S	32	2.10	270	160.00	4800
UCSX-CPU-I6526Y	2S Performance	2S	16	2.80	195	37.50	5200
5000 Series Processors							
UCSX-CPU-I5520+	2S Mainline	2S	28	2.20	205	52.50	4800
UCSX-CPU-I5515+	2S Performance	2S	8	3.20	165	22.50	4800
UCSX-CPU-I5512U[1]	1-Socket Optimized	1S	28	2.10	185	52.50	4800
4000 Series Processors							
UCSX-CPU-I4516Y+	2S Mainline	2S	24	2.20	185	45.00	4400
UCSX-CPU-I4514Y	2S Mainline	2S	16	2.00	150	30.00	4400
UCSX-CPU-I4510T[2]	EDGE (IOT)	2S	12	2.00	115	30.00	4400
UCSX-CPU-I4510[2]	2S Mainline	2S	12	2.40	150	30.00	4400
UCSX-CPU-I4509Y[2]	2S Mainline	2S	8	2.60	125	22.50	4400
3000 Series Processors							
UCSX-CPU-I3508U[1,2]	1-Socket Optimized	1S	8	2.10	125	22.50	4400

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 UCSX-CPU-I3508U, UCSX-CPU-I4509Y, UCSX-CPU-I4510, UCSX-CPU-I4510T

Table 5 Available 4th Gen. Intel® Xeon® Scalable CPUs

Product ID (PID)	Segment/Workload	Maximum Socket (S)	Cores (C)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Highest DDR5 DIMM Clock Support (MT/s)
8000 Series Processors							
UCSX-CPU-I8490H	IMDB/Analytics	2S	60	1.90	350	112.50	4800
UCSX-CPU-I8480+	2S Performance	2S	56	2.00	350	105.00	4800
UCSX-CPU-I8471N[1]	5G/Networking	1S	52	1.80	300	97.50	4800
UCSX-CPU-I8470N	5G/Networking	2S	52	1.70	300	97.50	4800
UCSX-CPU-I8470	2S Performance	2S	52	2.00	350	105.00	4800
UCSX-CPU-I8468V	Cloud/SaaS/Media	2S	48	2.40	330	97.50	4800
UCSX-CPU-I8468H	IMDB/Analytics	2S	48	2.10	330	105.00	4800
UCSX-CPU-I8468	2S Performance	2S	48	2.10	350	105.00	4800
UCSX-CPU-I8462Y+	2S Performance	2S	32	2.80	300	60.00	4800
UCSX-CPU-I8460H	IMDB/Analytics	2S	40	2.20	330	105.00	4800
UCSX-CPU-I8458P	Cloud/SaaS/Media	2S	44	2.70	350	82.50	4800
UCSX-CPU-I8454H	IMDB/Analytics	2S	32	2.10	270	82.50	4800
UCSX-CPU-I8452Y	2S Mainline	2S	36	2.00	300	67.50	4800
UCSX-CPU-I8450H	IMDB/Analytics	2S	28	2.00	250	75.00	4800
UCSX-CPU-I8444H	IMDB/Analytics	2S	16	2.90	270	45.00	4800
6000 Series Processors							
UCSX-CPU-I6448Y	2S Performance	2S	32	2.10	225	60.00	4800
UCSX-CPU-I6448H	IMDB/Analytics	2S	32	2.40	250	60.00	4800
UCSX-CPU-I6444Y	2S Performance	2S	16	3.60	270	45.00	4800
UCSX-CPU-I6442Y	2S Performance	2S	24	2.60	225	60.00	4800
UCSX-CPU-I6438N	5G/Networking	2S	32	2.00	205	60.00	4800
UCSX-CPU-I6434H	IMDB/Analytics	2S	8	3.70	195	22.50	4800
UCSX-CPU-I6430	2S Mainline	2S	32	2.10	270	60.00	4400
UCSX-CPU-I6428N	5G/Networking	2S	32	1.80	185	60.00	4000
UCSX-CPU-I6426Y	2S Performance	2S	16	2.50	185	37.50	4800

Table 5 Available 4th Gen. Intel® Xeon® Scalable CPUs

Product ID (PID)	Segment/Workload	Maximum Socket (S)	Cores (C)	Clock Freq (GHz)	Power (W)	Cache Size (MB)	Highest DDR5 DIMM Clock Support (MT/s)
UCSX-CPU-I6421N[1]	5G/Networking	1S	32	1.80	185	60.00	4400
UCSX-CPU-I6418H	IMDB/Analytics	2S	24	2.10	185	60.00	4800
UCSX-CPU-I6416H	IMDB/Analytics	2S	18	2.20	165	45.00	4800
5000 Series Processors							
UCSX-CPU-I5420+	2S Mainline	2S	28	2.00	205	52.50	4400
UCSX-CPU-I5418Y	2S Mainline	2S	24	2.00	185	45.00	4400
UCSX-CPU-I5418N	5G/Networking	2S	24	1.80	165	45.00	4000
UCSX-CPU-I5416S	Storage	2S	16	2.00	150	30.00	4400
UCSX-CPU-I5415+	2S Performance	2S	8	2.90	150	22.50	4400
UCSX-CPU-I5411N[1]	5G/Networking	1S	24	1.90	165	45.00	4400
4000 Series Processors							
UCSX-CPU-I4416+	2S Mainline	2S	20	2.00	165	37.50	4000
UCSX-CPU-I4410Y	2S Mainline	2S	12	2.00	150	30.00	4000
UCSX-CPU-I4410T	IOT	2S	10	2.70	150	26.25	4000
3000 Series Processors							
UCSX-CPU-I3408U[1]	1S gen. purpose	1S	8	1.80	125	22.50	4000

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 6 CPU Suffixes

CPU Suffix	Description	Features
P	Cloud (IaaS)	Designed for cloud IaaS environments to deliver higher frequencies at constrained TDPs
V	Cloud (SaaS)	Designed for high rack density, maximize VM/core, and lower power VM environment
M	Media Transcode	Designed for Media processing, AI, and HPC workloads
H	DB and Analytics	Designed for Data Analytics and Big Data usages
N	Network/5G/Edge (High TDP/Low latency)	Designed and optimized for a range of broadly-deployed network and 5G workload environments from Edge to the Data Center
S	Storage & HCI	Designed for Storage usages and workloads

Table 6 CPU Suffixes

CPU Suffix	Description	Features
T	Long-life Use/High Tcase	Designed for Network Environment-Building System (NEBS) and IoT market
U	1-Socket	Optimized for targeted platforms adequately served by the cores, memory bandwidth and IO capacity available from a single processor
Y	General SKU with SST-PP	Designator is used for general SKU stack to highlight SST-PP (Speed Select Technology Performance Profile) feature enabled
+	Feature Plus SKU	Designed to enable 1 instance of each DSA, IAA, QAT, DLB embedded accelerator

Supported Configurations

(1) DRAM configuration:

- Select one or two identical CPUs from ***Table 4 on page 11*** or ***Table 5 on page 13***

(2) Configurations with NVMe PCIe drives:

- Select one or two identical CPUs from ***Table 4 on page 11*** or ***Table 5 on page 13***

(3) Configurations with GPUs:

- Select one or two identical CPUs from ***Table 4 on page 11*** or ***Table 5 on page 13***

(4) One-CPU Configuration

- Choose one CPU from any one of the rows of ***Table 4 on page 11*** or ***Table 5 on page 13***

(5) Two-CPU Configuration

- Choose two identical CPUs from any one of the rows of ***Table 4 on page 11*** or ***Table 5 on page 13***

STEP 3 CHOOSE MEMORY

The ***Table 7*** below describes the main memory DIMM features supported on Cisco UCS X210c M7 Compute Node.

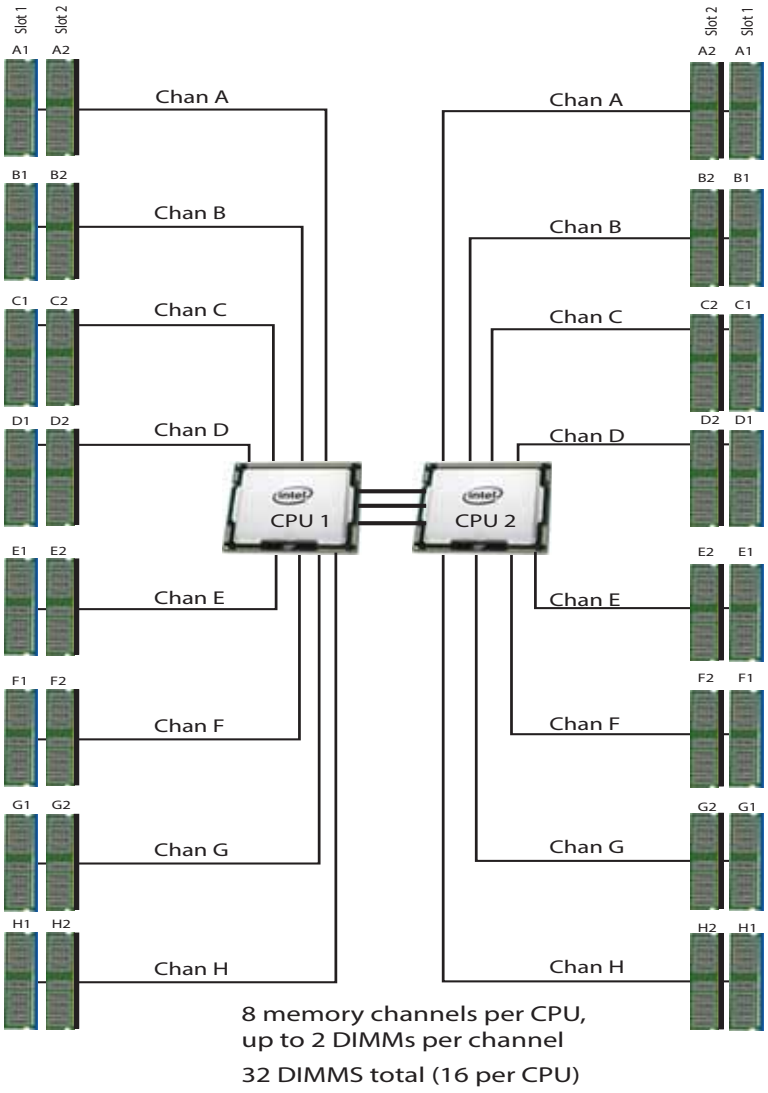


CAUTION: When populating 256GB DIMMs, the ambient temperature shall be limited to a maximum of 32^0C.

Table 7 X210c M7 Main Memory Features

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

Figure 4 X210c M7 SFF Memory Organization



Select DIMMs and Memory Mirroring

Select the memory configuration and whether or not you want the memory mirroring option. The available memory DIMMs and mirroring option are listed in ***Table 8***.



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 8 Memory Options for M7 servers with Intel® Xeon® 4th Gen. CPUs

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

Notes:

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

Table 9 Memory Options for M7 servers with Intel® Xeon® 5th Gen. CPUs[1]

Product ID (PID)	PID Description	Ranks/DIMM
DDR5-5600MT/s PID list		
UCSX-MRX48G1RF3[2]	48GB DDR5-5600 RDIMM 1Rx4 (24Gb)	1
UCSX-MRX64G2RE3	64GB DDR5-5600 RDIMM 2Rx4 (16Gb)	2
UCSX-MRX96G2RF3[2]	96GB DDR5-5600 RDIMM 2Rx4 (24Gb)	2
DDR5-6400MT/s PID list		
UCSX-MRX16G1RE5	16GB DDR5-6400 RDIMM 1Rx8 (16Gb)	1
UCSX-MRX32G1RE5	32GB DDR5-6400 RDIMM 1Rx4 (16Gb)	1
UCSX-MRX64G2RE5[3]	64GB DDR5-6400 RDIMM 2Rx4 (16Gb)	2
UCSX-MRX96G2RF5[3]	96GB DDR5-6400 RDIMM 2Rx4 (24Gb)	2

Table 9 Memory Options for M7 servers with Intel® Xeon® 5th Gen. CPUs[1]

Product ID (PID)	PID Description	Ranks/DIMM
UCSX-MR128G2RG5	128GB DDR5-6400 RDIMM 2Rx4 (32Gb)	2
UCSX-MR256G4RG5[4]	256GB DDR5-6400 RDIMM 4Rx4 (32Gb)	4
Memory Mirroring Option		
N01-MMIRRORD	Memory mirroring option	
Accessories/spare included with Memory configuration: ■ UCS-DDR5-BLK[5] is auto included for the unselected DIMMs slots		

Notes:

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

Memory configurations and mixing rules

- **Golden Rule:** Memory on every CPU socket shall be configured identically.
- System speed is dependent on the CPU DIMM speed support. Refer to ***Available 4th Gen. Intel® Xeon® Scalable CPUs on page 13*** and ***Available 5th Gen. Intel® Xeon® Scalable CPUs on page 11*** for DIMM speeds.
- For full details on supported memory configurations see the **M7 Memory Guide.**



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

STEP 4 CHOOSE REAR mLOM ADAPTER

The Cisco UCS X210c M7 Compute Node must be ordered with a Cisco VIC mLOM Adapter. The adapter is located at the back and can operate in a single-CPU or dual-CPU configuration. ***Table 10*** shows the mLOM adapter choices.

Table 10 mLOM Adapters

Product ID (PID)	Description	Connection type
UCSX-MLV5D200GV2D	Cisco UCS VIC 15230 modular LOM w/Secure Boot X Compute Node	mLOM
UCSX-ML-V5Q50G-D	UCS VIC 15420 4x25G secure boot mLOM for X Compute Node	mLOM



NOTE:

- VIC 15420 are supported with both X9108-IFM-25G and X9108-IFM-100G. VIC 15420 will operate at 4x 25G with both X9108-IFM-25G and X9108-IFM-100G. While, VIC 15230 will operate at 4x 25G with X9108-IFM-25G and at 2x 100G with X9108-IFM-100G.
- The mLOM adapter is mandatory for the Ethernet connectivity to the network by means of the IFMs and has x16 PCIe Gen4 connectivity with Cisco UCS VIC 15420 or x16 Gen4 connectivity with Cisco UCS VIC 15230 towards the CPU1.
- There is no backplane in the Cisco UCS X9508 chassis; thus, the compute nodes directly connect to the IFMs using Orthogonal Direct connectors.
- ***Figure 5*** shows the location of the mLOM and rear mezzanine adapters on the Cisco UCS X210c M7 Compute Node. The bridge adapter connects the mLOM adapter to the rear mezzanine adapter.

Figure 5 Location of mLOM and Rear Mezzanine Adapters

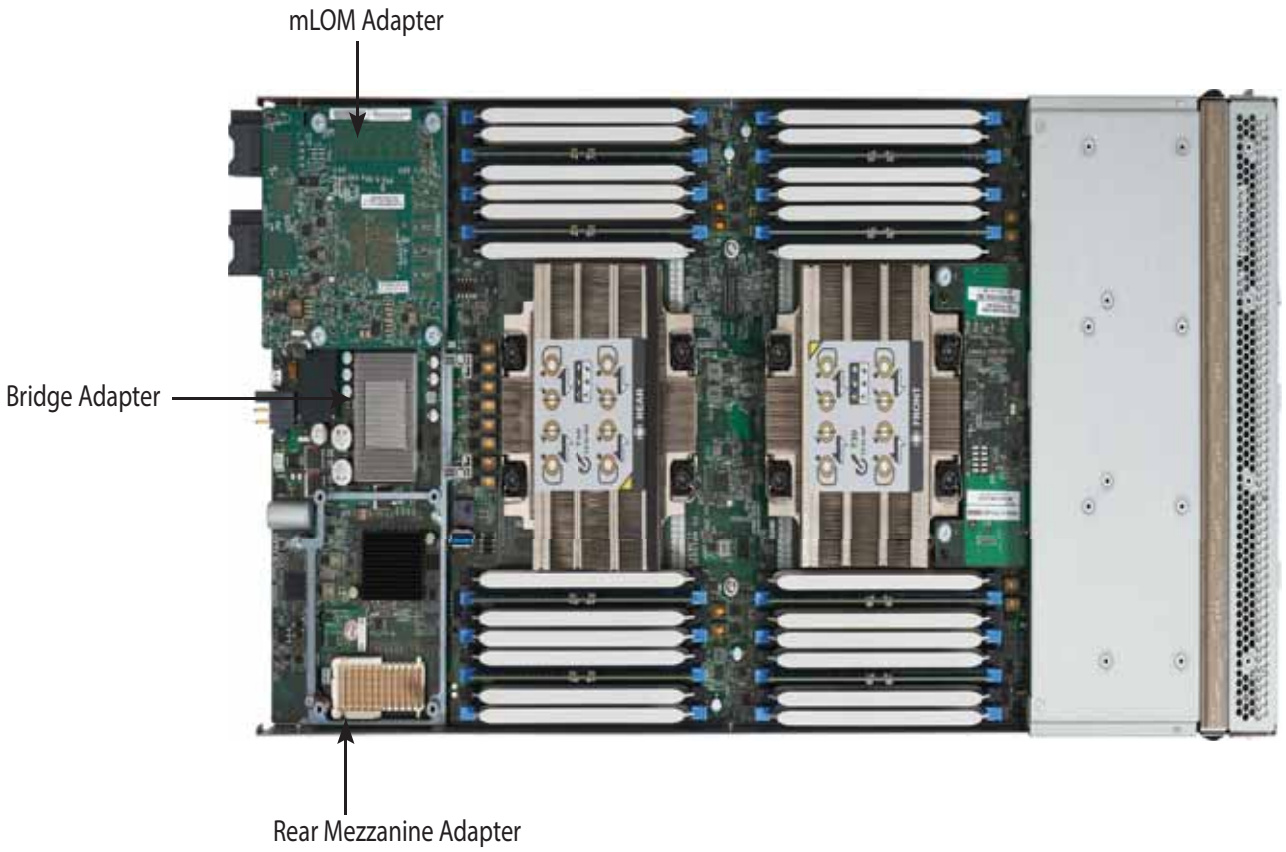


Figure 6 shows the network connectivity from the mLOM out to the 25G IFMs.

Figure 6 Network Connectivity 25G IFMs

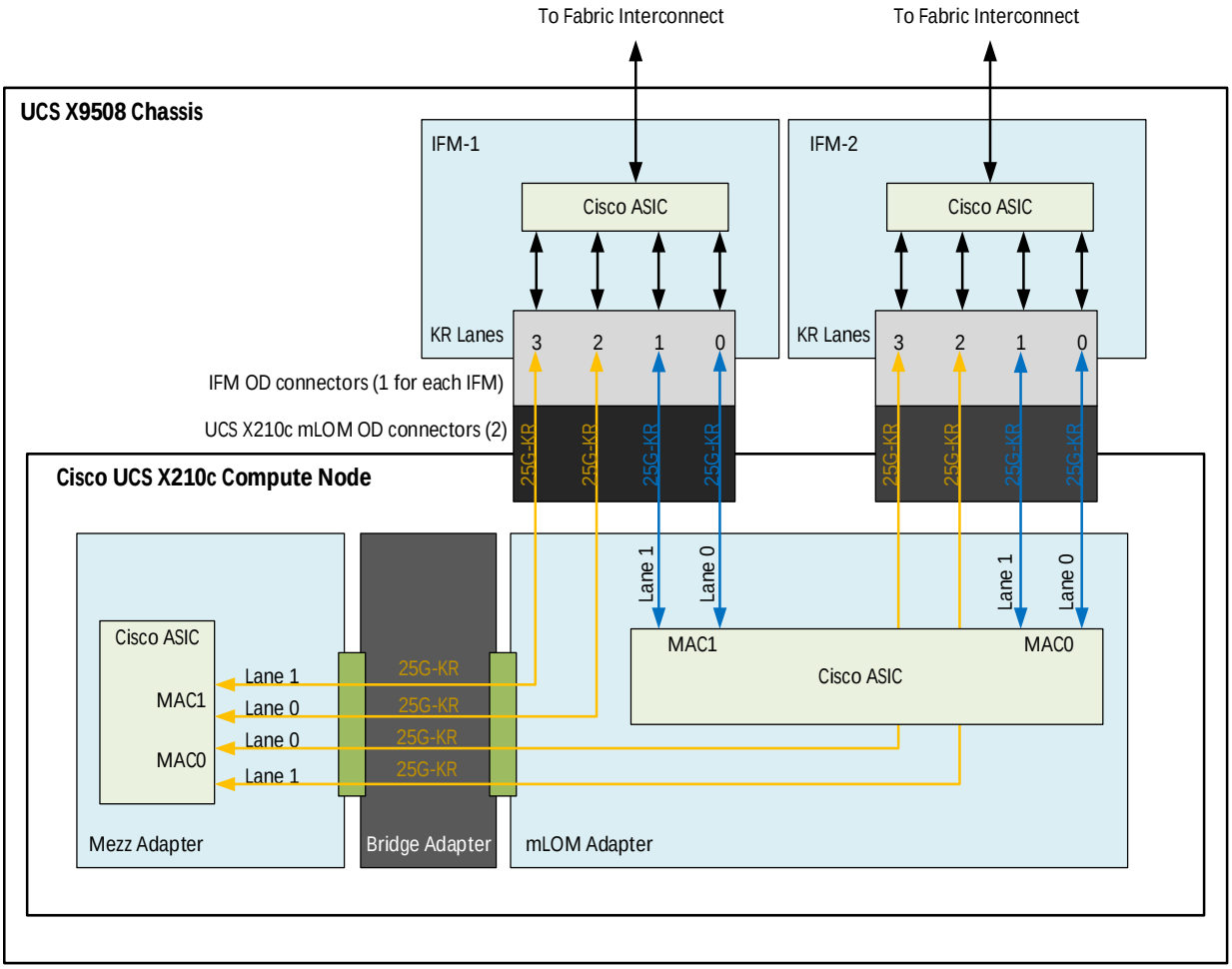
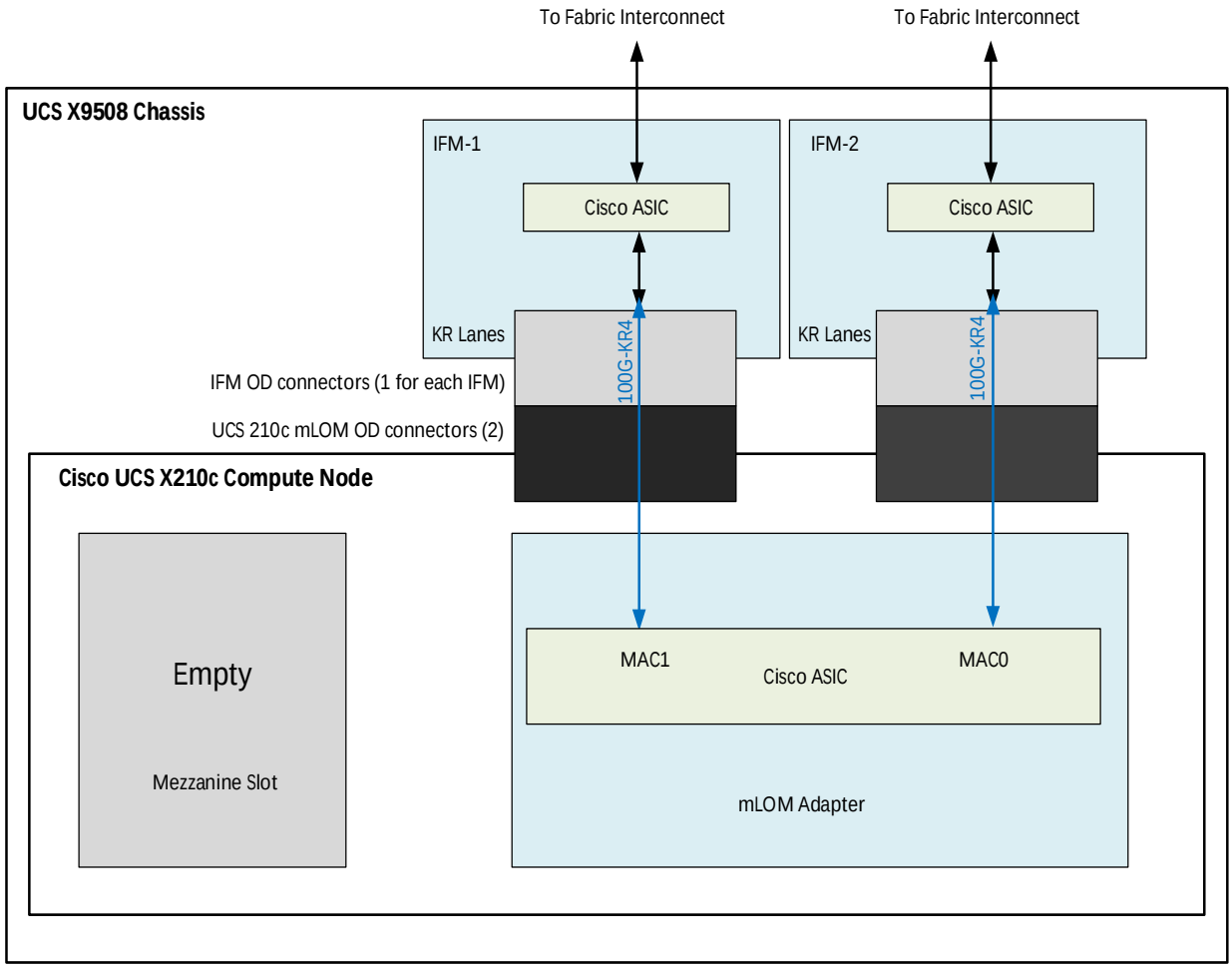


Figure 7 shows the network connectivity from the mLOM out to the 100G IFMs.

Figure 7 Network Connectivity 100G IFMs



STEP 5 CHOOSE OPTIONAL REAR MEZZANINE VIC/BRIDGE ADAPTERS

The Cisco UCS X210c M7 Compute Node has one rear mezzanine adapter connector which can have a UCS VIC 15422 Mezz card that can be used as a second VIC card on the compute node for network connectivity or as a connector to the X440p PCIe node via X-Fabric modules. The same mezzanine slot on the compute node can also accommodate a pass-through mezzanine adapter for X-Fabric which enables compute node connectivity to the X440p or X580p PCIe nodes. Refer to ***Table 11*** for supported adapters.

Table 11 Available Rear Mezzanine Adapters

Product ID(PID)	PID Description	CPUs Required	Connector Type
Cisco VIC Card			
UCSX-V4-PCIME-D[1]	UCS PCI Mezz Card for X-Fabric	2 CPUs required	Rear Mezzanine connector on motherboard
UCSX-V5-PCIME[2]	UCS PCI Mezz card for X-Fabric Gen5	Two CPUs required	Rear Mezzanine connector on motherboard
UCSX-ME-V5Q50G-D	UCS VIC 15422 4x25G secure boot mezz for X Compute Node	2 CPUs required	Rear Mezzanine connector on motherboard
Cisco VIC Bridge Card[3]			
UCSX-V5-BRIDGE-D	UCS VIC 15000 bridge to connect mLOM and mezz X Compute Node (This bridge to connect the Cisco VIC 15420 mLOM and Cisco VIC 15422 Mezz for the X210c M7 Compute Node)	2 CPUs required	One connector on Mezz card and one connector on mLOM card

Notes:

1. The **UCSX-V4-PCIME-D** rear mezzanine card for X-Fabric has PCIe Gen4 x16 connectivity towards each CPU1 and CPU2. Additionally, the **UCSX-V4-PCIME-D** also provides PCIe Gen4 x16 to each X-fabric. All Mezzanine adapters enable connectivity from the X210c M7 Compute Node to the X-Series PCIe Nodes.
2. The UCSX-V5-PCIME rear mezzanine card for X-Fabric has PCIe Gen5 x16 connectivity towards each CPU1 and CPU2. Additionally, the card also provides PCIe Gen5 x16 to each X-fabric.
3. Included with the Cisco VIC 15422 mezzanine adapter.

Table 12 Throughput Per UCS X210c M7 Server

X210c M7 Compute Node	FI-6536 + X9108-IFM-100G	FI-6536/6400 + X9108-IFM-25G	FI-6536 + X9108-IFM-25G/100G or FI-6400 + X9108-IFM-25G	FI-6536 + X9108-IFM-25G/100G or FI-6400 + X9108-IFM-25G	
X210c configuration	VIC 15230	VIC 15230	VIC 15420	VIC 15420 + VIC 15422	
Throughput per node	200G (100G per IFM)	100G (50G per IFM)	100G (50G per IFM)	200G (100G per IFM)	
vNICs needed for max BW	2	2	2	4	
KR connectivity from VIC to each IFM	1x 100GKR	2x 25GKR	2x 25GKR	4x 25GKR	
Single vNIC throughput on VIC	100G (1x100GKR)	50G (2x25G KR)	50G (2x25G KR)	50G (2x25G KR)	50G (2x25G KR)
Max Single flow BW per vNIC	100G	25G	25G	25G	25G
Single vHBA throughput on VIC	100G	50G	50G	50G	50G

Supported Configurations

- One of mLOM VIC from ***Table 10*** is always required.
- If a **UCSX-ME-V5Q50G-D** rear mezzanine VIC card is installed, a **UCSX-V5-BRIDGE-D** VIC bridge card is included and connects the mLOM to the mezzanine adapter.
- The **UCSX-ME-V5Q50G-D** rear mezzanine card has Ethernet connectivity to the IFM using the **UCSX-V5-BRIDGE-D** and has a PCIE Gen4 x16 connectivity towards CPU2. Additionally, the **UCSX-ME-V5Q50G-D** also provides two PCIe Gen4 x16 to each X-fabric.
- All the connections to Cisco UCS X-Fabric 1 and Cisco UCS X-Fabric 2 are through the Molex Orthogonal Direct (OD) connector on the mezzanine card.
- The rear mezzanine card has 32 x16PCIe lanes to each Cisco UCS X-Fabric for I/O expansion to enable resource consumption from the PCIe resource nodes.

STEP 6 CHOOSE OPTIONAL FRONT MEZZANINE ADAPTER

The Cisco UCS X210c M7 Compute Node has one front mezzanine connector that can accommodate one of the following mezzanine cards:

- Pass-through controller for up to 6 U.2/U.3 NVMe drives
- RAID controller (RAID levels 0, 1, 5, 6, 10, and 50) for 6 SAS/SATA/U.3 NVMe drives or up to 4 U.2 NVMe drives (drive slots 1-4) and SAS/SATA/U.3 NVMe (drive slots 5-6)
- GPU Front Mezz to Support up to 2 U.2/U.3 NVMe drives and 2 NVIDIA T4 GPUs.

NOTE:

- The Cisco UCS X210c M7 Compute Node can be ordered with or without the front mezzanine adapter. Refer to ***Table 13 Available Front Mezzanine Adapters***
- Only one Front Mezzanine connector or Front GPU can be selected per Server.
- RAID with NVMe drives is only supported with the NVMe U.3 drives as they connect to the RAID controller and RAID is not supported with the U.2 NVME drives as they directly interface with the server via the PCIe bus.

Table 13 Available Front Mezzanine Adapters

Product ID(PID)	PID Description	Connector Type
UCSX-X10C-PT4F-D	Cisco UCS X210c M7 Compute Node compute pass through controller for up to 6 NVMe drives	Front Mezzanine
UCSX-X10C-RAIDF-D	Cisco UCS X210c M7 Compute Node RAID controller w/4GB Cache, with LSI 3900 for up to 6 SAS/SATA/NVMe drives (SAS/SATA and NVMe drives can be mixed)	Front Mezzanine
UCSX-X10C-GPUFM-D	UCS X10c Compute Node GPU Front Mezz	Front Mezzanine

STEP 7 CHOOSE OPTIONAL GPU PCIe NODE

Select GPU PCIe Node

NOTE: If PCIe Node is selected, then rear mezzanine is required.

Table 14 GPU PCIe Node

Product ID(PID)	PID Description
UCSX-440P-D	UCS X-Series Gen4 PCIe node
UCSX-580P[1]	UCS X-Series Gen5 PCIe node

Notes:

1. Supported with only 5th Gen Intel® Xeon® Scalable Processors.

NOTE:

The available PCIe node GPU options are listed in:

- For the supported GPU card supported on the x580P PCIe Node is listed on the **https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-x-series-modular-system/x580p-specsheet.pdf, Step 2, Order GPU Cards**
- For the supported GPU card supported on the x440P PCIe Node is listed on the **https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-x-series-modular-system/x440p-specsheet.pdf, Step 3, Order GPU Cards.**

STEP 8 CHOOSE OPTIONAL GPUs

Select GPU Options

NOTE:

- Windows Server 2019 is not supported with the Intel FLex 140 & 170 GPUs
- If 440P/580P PCIe node and UCSX-X10C-GPUFM-D are selected, only GPU PID combinations UCSX-GPU-FLEX140 + UCSX-GPU-FLX140MZ or UCSX-GPU-L4 + UCSX-GPU-L4-MEZZ are allowed.
- No mixing of GPU types is allowed; UCSX-X10C-GPUFM-D and PCIe node must use the same GPUs.

The available Compute node GPU options are listed in ***Table 15***.

Table 15 Available PCIe GPU Card supported on the Compute Node Front Mezz

GPU Product ID (PID)	PID Description
UCSX-GPU-T4MEZZ-D	NVIDIA T4 GPU PCIE 75W 16GB, MEZZ form factor
UCSX-GPU-L4-MEZZ	NVIDIA GPU L4, Gen4x16, 1 Slot, HHHL, 70W 24GB, PCIe
UCSX-GPU-FLX140MZ	Intel GPU Flex 140, Gen4x8, HHHL, 75W PCIe

NOTE:

The available PCIe node GPU options are listed in:

- For the supported GPU card supported on the x580P PCIe Node is listed on the **https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-x-series-modular-system/x580p-specsheet.pdf, Step 2, Order GPU Cards**
- For the supported GPU card supported on the x440P PCIe Node is listed on the **https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-x-series-modular-system/x440p-specsheet.pdf, Step 3, Order GPU Cards**

STEP 9 CHOOSE OPTIONAL DRIVES

The Cisco UCS X210c M7 Compute Node can be ordered with or without drives. The drive options are:

- One to six 2.5-inch small form factor SAS/SATA SSDs or PCIe U.2/U.3 NVMe drives
  - Hot-pluggable
  - Sled-mounted

Select one or two drives from the list of supported drives available in ***Table 16***.

Table 16 Available Drive Options

Product ID (PID)	Description	Drive Type	Speed	Size
SAS/SATA SSDs[1,2,3]				
Self-Encrypted Drives (SED)				
UCSXSD960GBKNK9-D	960GB 2.5" Enterprise value 12G SAS SSD (1X endurance, FIPS)	SAS	12G	960GB
UCSXSD800GBKNK9-D	800GB Enterprise performance SAS SSD (3X DWPD, SED)	SAS		800GB
UCSX-SD16TBKANK9D	1.6TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X SED-FIPS)	SAS	12G	1.6TB
UCSX-SD38TBKANK9D	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS)	SAS	12G	3.8TB
UCSX-SD76TBKANK9D	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS)	SAS	12G	7.6TB
UCSX-SD960GM2NK9D	960GB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)	SATA	6G	960GB
UCSX-SD19TEM2NK9D	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)	SATA	6G	1.6TB
UCSX-SD38TEM2NK9D	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)	SATA	6G	3.8TB
UCSX-SD76TEM2NK9D	7.6TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)	SATA	6G	7.6TB
Enterprise Performance SSDs (high endurance, supports up to 3X DWPD (drive writes per day))				
UCSX-SD16TKA3XEPD	1.6TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X endurance)	SAS	12G	1.6TB
UCSXSD32TKA3XEP-D	3.2TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X endurance)	SAS	12G	3.2TB
UCSX-SD19T63XEP-D	1.9TB 2.5 inch Enterprise performance 6G SATA SSD (3X endurance)	SATA	6G	1.9TB
UCSXSD480G63XEP-D	480GB 2.5in Enterprise performance 6G SATA SSD (3X endurance)	SATA	6G	480GB
UCSXSD480GBM3XEPD	480GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)	SATA	6G	480GB
UCSXSD960GBM3XEPD	960GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)	SATA	6G	960GB
UCSX-SD19TBM3XEPD	1.9TB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)	SATA	6G	1.9TB
UCSX-SDB960OA1P	960GB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	6G	960GB

Table 16 Available Drive Options *(continued)*

Product ID (PID)	Description	Drive Type	Speed	Size
UCSX-SDB3T8OA1P	3.8TB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD	SATA	6G	3.8TB
Enterprise Value SSDs (Low endurance, supports up to 1X DWPD (drive writes per day))				
UCSXSD240GBM1XEVD	240GB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	6G	240GB
UCSXSD480GBM1XEVD	480 GB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	6G	480GB
UCSXSD960GBM1XEVD	960GB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	6G	960GB
UCSX-SD16TBM1XEVD	1.6TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	6G	1.6TB
UCSX-SD19TBM1XEVD	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	6G	1.9TB
UCSX-SD38TBM1XEVD	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	6G	3.8TB
UCSX-SD76TBM1XEVD	7.6TB 2.5in Enter Value 6G SATA Micron G2 SSD	SATA	6G	7.6TB
UCSX-SDB960SA1VD	960GB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	6G	960GB
UCSX-SDB1T9SA1VD	1.9TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	6G	1.9TB
UCSX-SDB3T8SA1VD	3.8TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	6G	3.8TB
UCSX-SDB7T6SA1VD	7.6TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD	SATA	6G	7.6TB
UCSX-SD19TKA1XEVD	1.9TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD	SAS	12G	1.9TB
UCSXSD38TKA1XEV-D	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD	SAS	12G	3.8TB
UCSX-SD76TKA1XEVD	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD	SAS	12G	7.6TB
UCSX-SD15TKA1XEVD	15.3TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD	SAS	12G	15.3TB
NVMe[4,5,6]				
UCSX-NVB1T6O1P	1.6TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe	NVMe	U.2	1.6 TB
UCSX-NVB3T8O1V	3.8TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe	NVMe	U.2	3.8 TB
UCSX-NVB7T6O1V	7.6TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe	NVMe	U.2	7.6 TB
UCSX-NVB15TO1V	15.3TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe	NVMe	U.2	15.3TB
UCSX-NVB3T2O1P	3.2TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe	NVMe	U.2	3.2TB
UCSX-NVB6T4O1P	6.4TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe	NVMe	U.2	6.4TB
UCSX-NVB1T9O1V	1.9TB 2.5in U.2 15mm Solidigm P5520 Hg Perf Med End 1X NVMe	NVMe	U.2	1.9TB
UCSX-NVB15T3O1L	15.3TB 2.5in U.2 15mm SolidigmP5316 HgPerf LowEnd <0.5X NVMe	NVMe	U.2	15.3TB
UCSX-NVB12T8O1P	12.8TB 2.5in U.2 15mm Solidigm P5620 Hg Perf Hg End 3X NVMe	NVMe	U.2	12.8TB
UCSX-NVMEG4M1536D	15.3TB 2.5in U.3 Micron 7450 NVMe High Perf Medium Endurance	NVMe	U.3	15.3TB

Table 16 Available Drive Options *(continued)*

Product ID (PID)	Description	Drive Type	Speed	Size
UCSX-NVMEG4M6400D	6.4TB 2.5in U.3 Micron 7450 NVMe High Perf High Endurance	NVMe	U.3	6.4TB
UCSX-NVB3T8M2V9[7]	3.8TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	NVMe	U.3	3.8 TB
UCSX-NVB7T6M2V9[7]	7.6TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	NVMe	U.3	7.6 TB
UCSX-NVB15T3M2V9[7]	15.3TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS	NVMe	U.3	15.3 TB
UCSX-NVB960M2V	960GB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	NVMe	U.3	960GB
UCSX-NVB1T9M2V	1.9TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	NVMe	U.3	1.9 TB
UCSX-NVB3T2M2P	3.2TB 2.5in U.3 15mm Micron 7500 Hg Perf Hg End 3X NVMe	NVMe	U.3	3.2TB
UCSX-NVB3T8M2V	3.8TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	NVMe	U.3	3.8 TB
UCSX-NVB7T6M2V	7.6TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe	NVMe	U.3	7.6 TB
UCSX-NVB1T6M2P	1.6TB 2.5in U.3 15mm Micron 7500 Hg Perf Hg End 3X NVMe	NVMe	U.3	1.6 TB
NOTE: Cisco uses solid state drives from several vendors. All solid state drives are subject to physical write limits and have varying maximum usage limitation specifications set by the manufacturer. Cisco will not replace any solid state drives that have exceeded any maximum usage specifications set by Cisco or the manufacturer, as determined solely by Cisco.				

Notes:

1. SSD drives require the **UCSX-X10C-RAIDF-D** front mezzanine adapter
2. For SSD drives to be in a RAID group, two identical SSDs must be used in the group.
3. If SSDs are in JBOD Mode, the drives do not need to be identical.
4. NVMe drives require a front mezzanine the UCSX-X10C-PT4F-D pass through controller or UCSX-X10C-RAIDF-D RAID controller for RAID support
5. A maximum of 4 U.2 NVMe drives or 6 U.3 NVMe drives can be ordered with RAID controller.
6. A maximum of 2 NVMe drives can be ordered with Front Mezzanine GPU module.
7. Micron 7500 SED-FIPS cannot be used for boot in direct attach mode. They can be used for boot via RAID controller. Micron 7500 SED-FIPS are supported with 5th Gen Intel® Xeon® processors configurations only.

STEP 10 ORDER M.2 SATA SSDs AND RAID CONTROLLER

- **Cisco 6GB/s SATA Boot-Optimized M.2 RAID Controller (included):** Boot-Optimized RAID controller (UCSX-M2-HWRD-FPS) for hardware RAID across two SATA M.2 storage modules. The Boot-Optimized RAID controller plugs into the motherboard and the M.2 SATA drives plug into the Boot-Optimized RAID controller.

NOTE:

- The UCSX-M2-HWRD-FPS is auto included with the server configuration
- The UCSX-M2-HWRD-FPS controller supports RAID 1 and JBOD mode and is available only with 240GB, 480GB, and 960GB M.2 SATA SSDs.
- Cisco IMM is supported for configuring of volumes and monitoring of the controller and installed SATA M.2 drives
- Hot-plug replacement is not supported. The compute node must be powered off to replace.
- The Boot-Optimized RAID controller supports Windows and Linux Operating Systems

Table 17 Boot-Optimized RAID controller (auto included)

Product ID (PID)	PID Description
UCSX-M2-HWRD-FPS	UCSX Front panel with M.2 RAID controller for SATA drives

- **Select Cisco M.2 SATA SSDs:** Order one or two matching M.2 SATA SSDs. This connector accepts the boot-optimized RAID controller (see ***Table 17***). Each boot-optimized RAID controller can accommodate up to two SATA M.2 SSDs shown in ***Table 18***.

NOTE:

- Each boot-optimized RAID controller can accommodate up to two SATA M.2 SSDs shown in ***Table 18***. The boot-optimized RAID controller plugs into the motherboard.
- It is recommended that M.2 SATA SSDs be used as boot-only devices.
- The SATA M.2 drives can boot in UEFI mode only. Legacy boot mode is not supported.

Table 18 M.2 SATA SSDs

Product ID (PID)	PID Description
UCSX-M2-240G-D	240GB 2.5in M.2 SATA Micron G2 SSD
UCSX-M2-480G-D	480GB 2.5in M.2 SATA Micron G2 SSD
UCSX-M2-960G-D	960GB 2.5in M.2 SATA Micron G2 SSD
UCSX-M2480OA1V	480GB M.2 Boot Solidigm S4520 SATA 1X SSD

STEP 11 ORDER NVMe BOOT (OPTIONAL)

Table 19 NVMe BOOT

Product ID (PID)	PID Description
UCSX-M2-PT-FPN	UCSX Front Panel w/M.2 Pass Through Controller for NVME Drv

Table 20 M.2 NVMe

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

STEP 12 CHOOSE OPTIONAL TRUSTED PLATFORM MODULE

Trusted Platform Module (TPM) is a computer chip or microcontroller that can securely store artifacts used to authenticate the platform or Cisco UCS X210c M7 Compute Node. 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.

Table 21 Available TPM Option

Product ID (PID)	Description
UCSX-TPM-002C-D	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers
UCSX-TPM-002D-D	TPM 2.0 TCG FIPS140-2 CC+ Cert M7 Intel MSW2022 Compliant
UCSX-TPM-OPT-OUT[1]	OPT OUT, TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified

Notes:

1. Please note 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.



NOTE:

- The TPM module used in this system conforms to TPM v2.0 as defined by the Trusted Computing Group (TCG).
- TPM installation is supported after-factory. However, a TPM installs with a one-way screw and cannot be replaced, upgraded, or moved to another compute node. If a Cisco UCS X210c M7 Compute Node with a TPM is returned, the replacement Cisco UCS X210c M7 Compute Node must be ordered with a new TPM. If there is no existing TPM in the Cisco UCS X210c M7 Compute Node, you can install a TPM 2.0. Refer to the following document for Installation location and instructions:

https://www.cisco.com/content/en/us/td/docs/unified_computing/ucs/x/hw/210c-m6/install/b-cisco-ucs-x210c-m7-install.html

STEP 13 CHOOSE OPERATING SYSTEM AND VALUE-ADDED SOFTWARE

- Operating System (***Table 22***)



NOTE:

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

Table 22 Operating System

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

Table 22 Operating System *(continued)*

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

Table 22 Operating System *(continued)*

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

STEP 14 CHOOSE OPTIONAL OPERATING SYSTEM MEDIA KIT

Select the optional operating system media listed in ***Table 23***.

Table 23 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

Simplified Block Diagram

A simplified block diagram of the Cisco UCS X210c M7 Compute Node system board is shown in ***Figure 8***.

Figure 8 Cisco UCS X210c M7 Compute Node Simplified Block Diagram (VIC 25G with Drives)

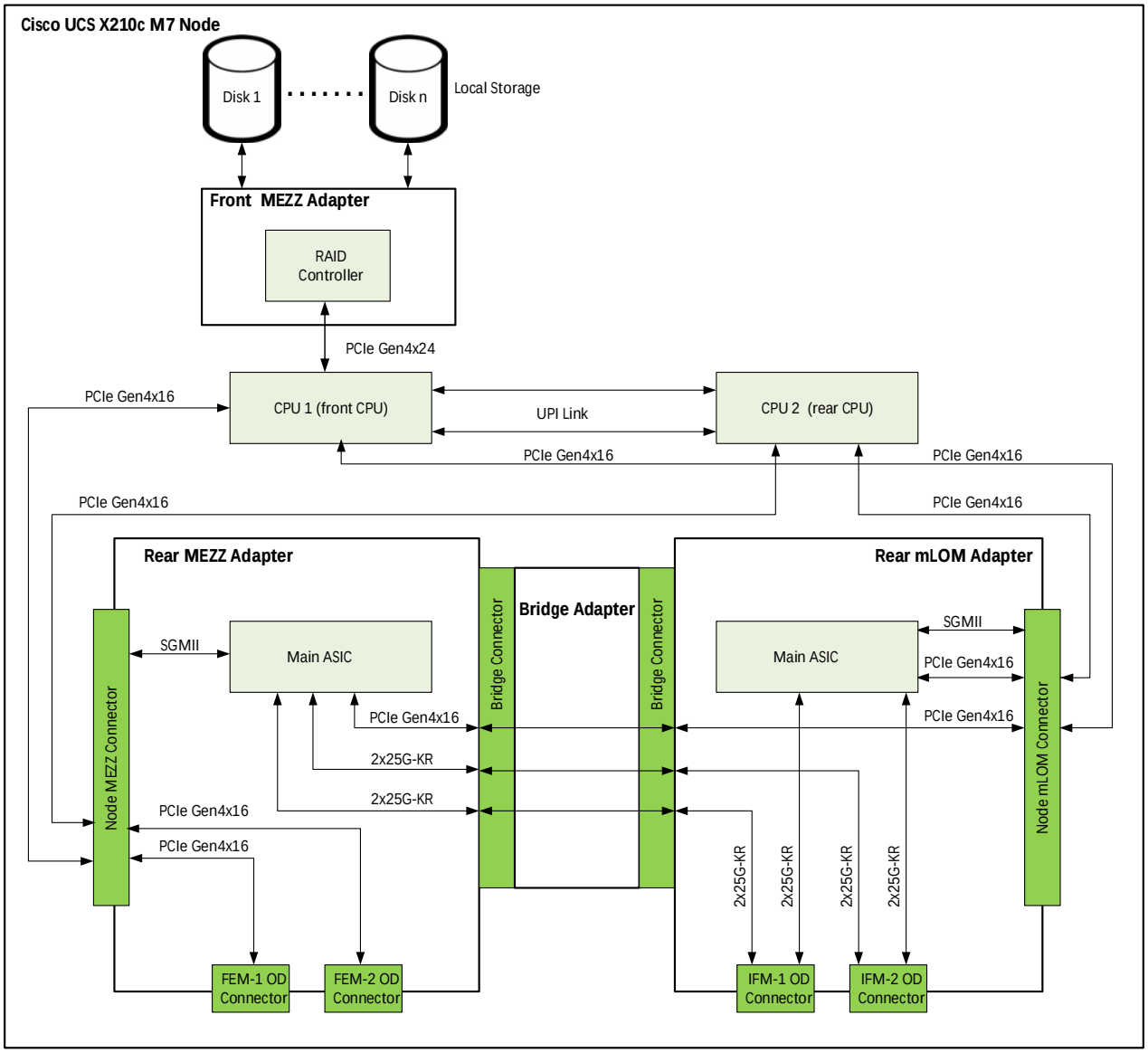


Figure 9 Cisco UCS X210c M7 Compute Node Simplified Block Diagram (VIC 100G with Drives)

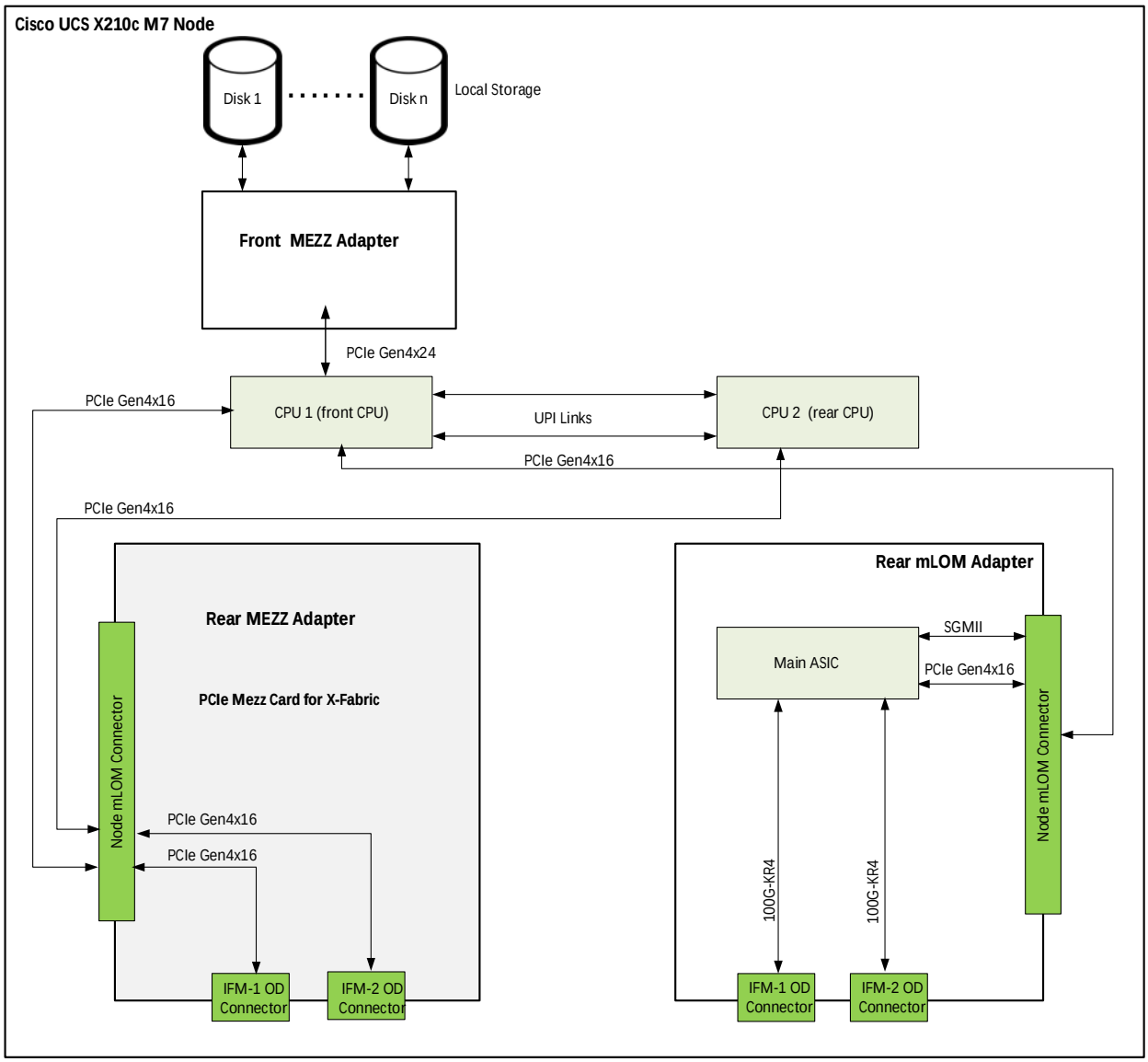


Figure 10 Cisco UCS X210c M7 Compute Node Simplified Block Diagram (VIC 25G with Drives and GPUs)

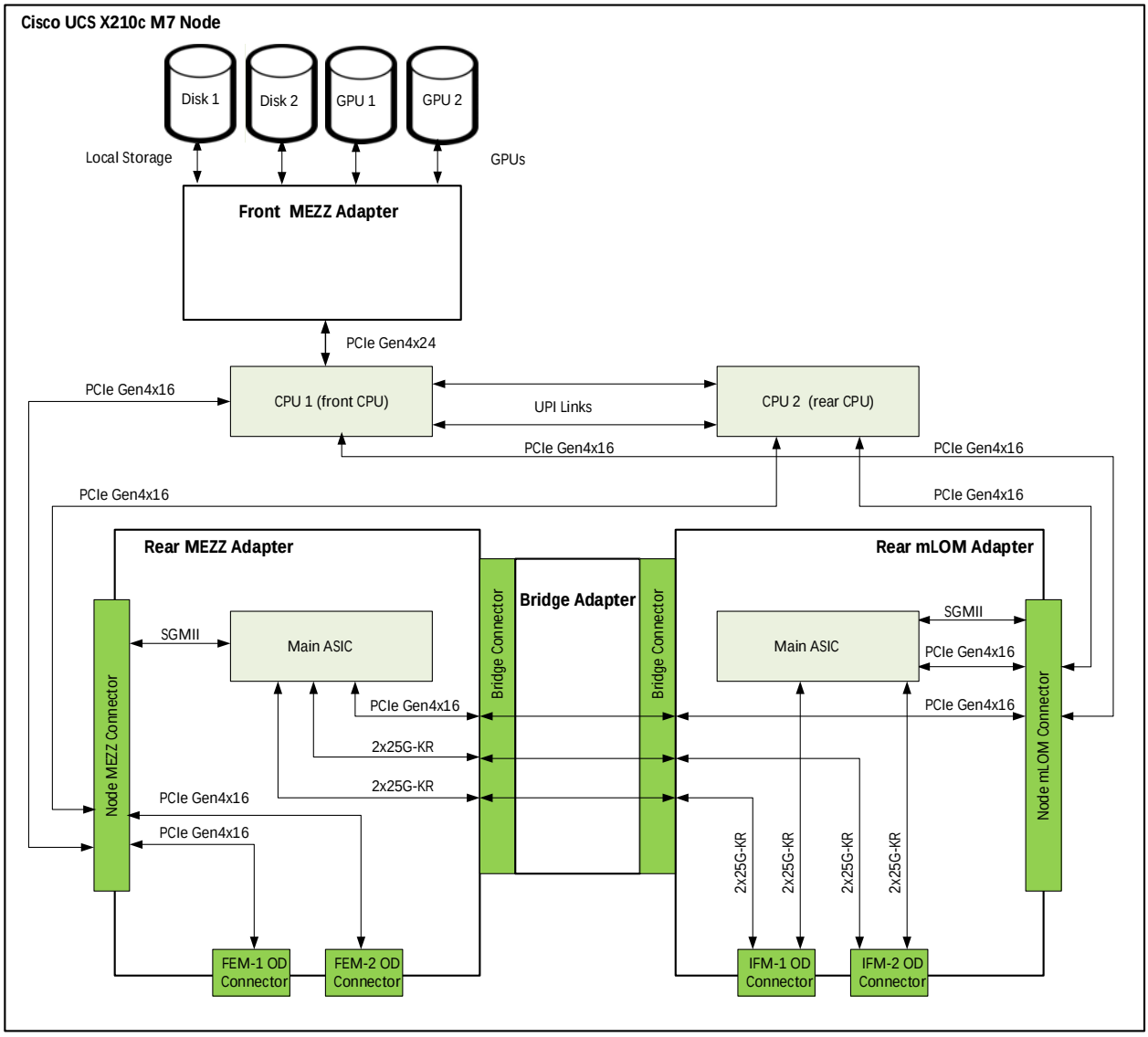
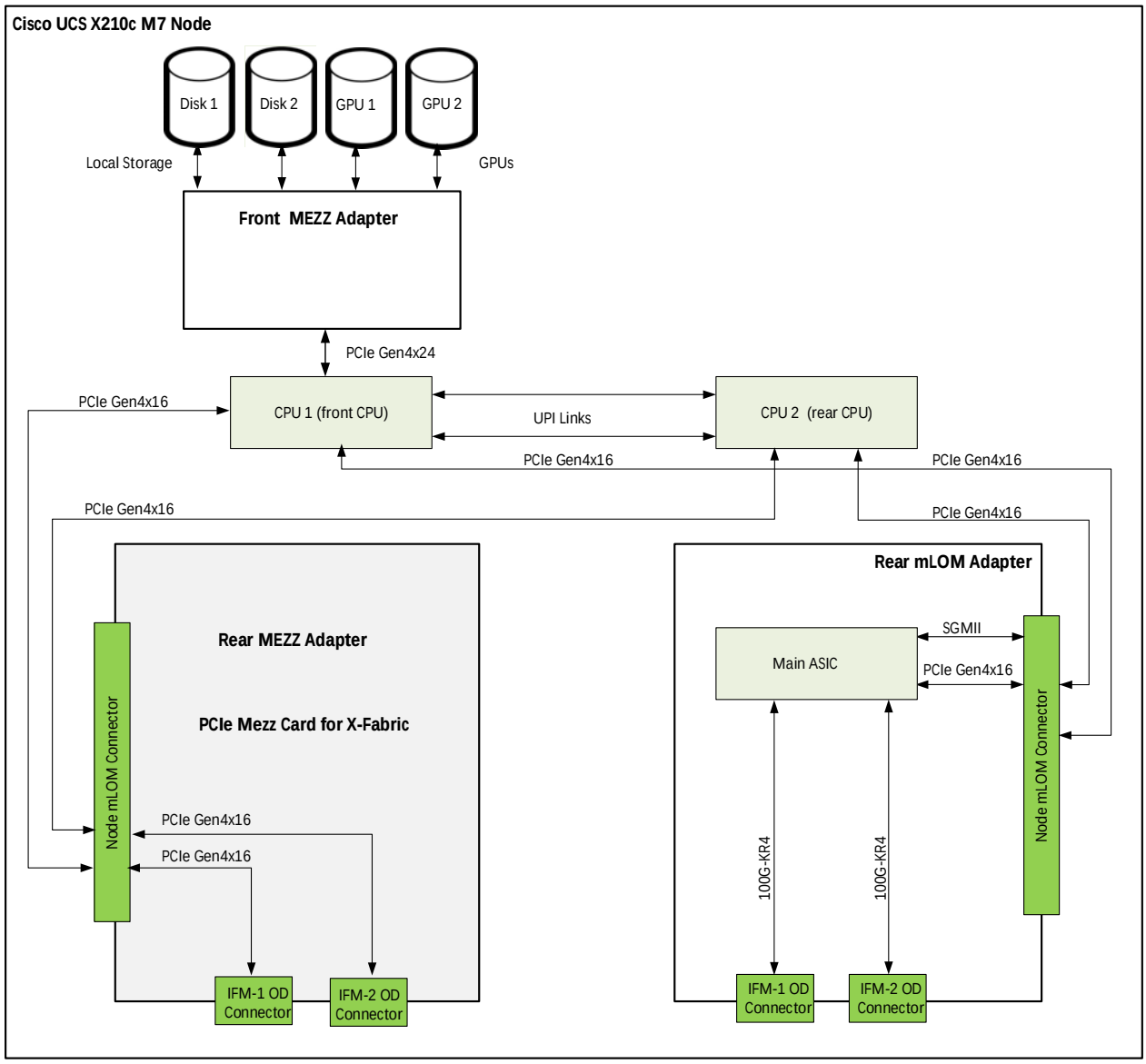


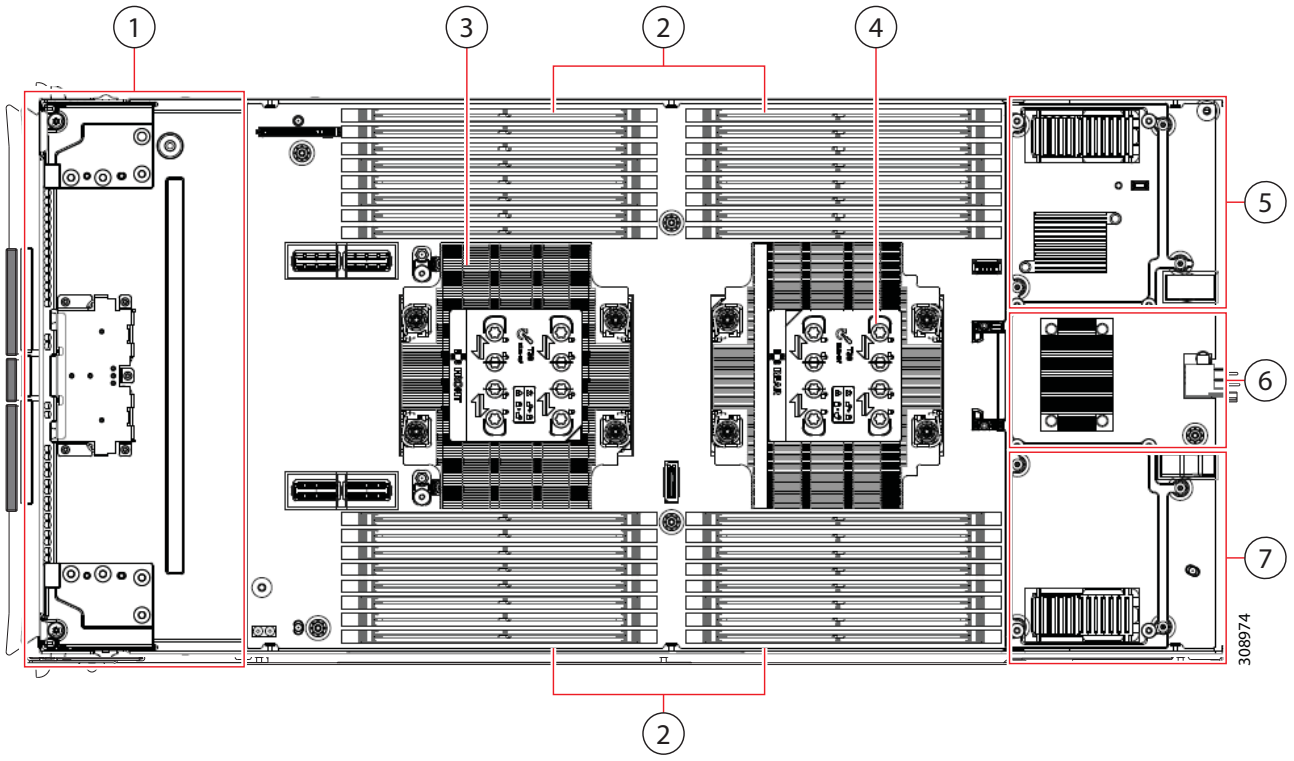
Figure 11 Cisco UCS X210c M7 Compute Node Simplified Block Diagram (VIC 100G with Drives and GPUs)



System Board

A top view of the Cisco UCS X210c M7 Compute Node system board is shown in ***Figure 12***.

Figure 12 Cisco UCS X210c M7 Compute Node System Board



1	Front mezzanine slot for SAS/SATA or NVMe drives and M.2 Controllers.	5	Rear mezzanine slot, which supports a mezzanine card with standard or extended mLOM. If an extended mLOM slot is used, it occupies this slot, such that no rear mezzanine card can be installed.
2	DIMM slots (32 maximum)	6	Bridge adapter (for connecting the mLOM to the rear mezzanine card)
3	CPU 1 slot (shown populated)	7	mLOM slot for a standard or extended mLOM
4	CPU 2 slot (shown populated)	-	-

Please refer to the Cisco UCS X210c M7 Compute Node Installation Guide for installation procedures.

UPGRADING or REPLACING CPUs and Memory

- Refer to Cisco UCS X210c M7 Server Installation and Service Guide to upgrading or replacing the CPUs
- Refer to Cisco UCS X210c M7 Server Installation and Service Guide to upgrading or replacing the Memory

5TH GEN INTEL XEON BENEFIT PILLARS

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

INTEL XEON HEADLINE: Trusted performance. Exceptional efficiency.

5TH GEN INTEL XEON VALUE PROPOSITION:

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

AI-FOCUSED LEAD MESSAGE: The processor designed for AI

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

5TH GEN INTEL XEON BENEFIT PILLARS:

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

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

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

Notes:

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

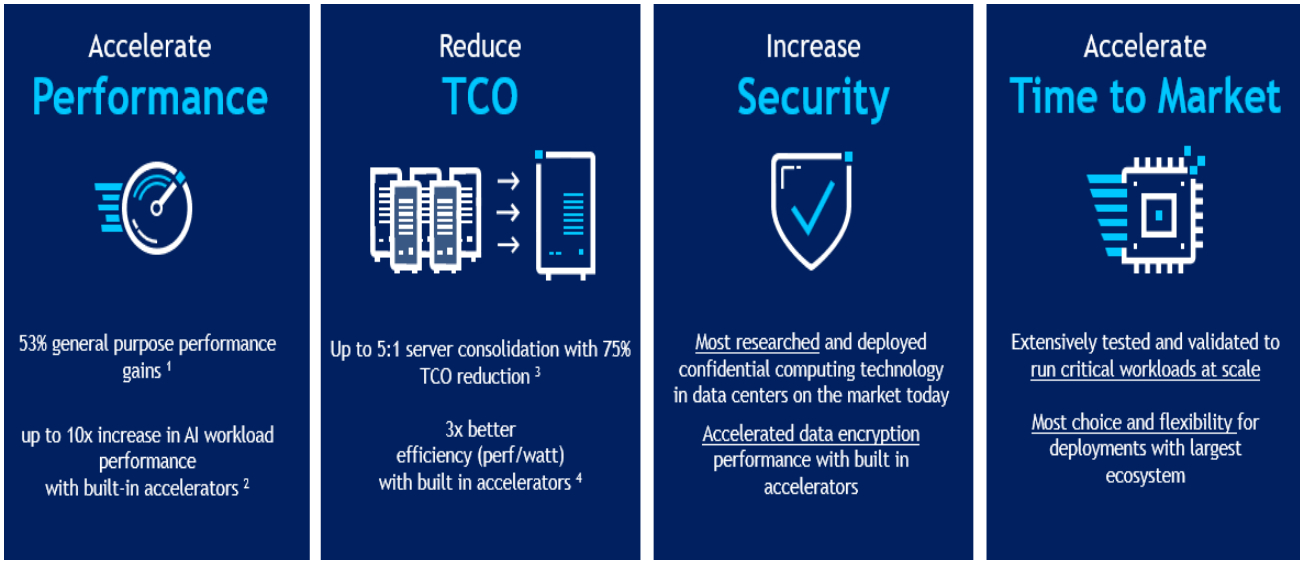
2. As measured by performance per watt on a range of AI, database, networking, and HPC workloads compared to 4th Gen Intel® Xeon® processor. See A2, A19-A25, D1, D2, D5, H1, N16 at intel.com/processorclaims: 5th Gen Intel Xeon Scalable processors. Results may vary.
3. See G12 at intel.com/processor claims: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

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

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



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

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

Notes:

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

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

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

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

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- Performance varies by use, configuration and other factors.
- Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.
- Your costs and results may vary.
- Intel technologies may require enabled hardware, software or service activation.
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- Intel contributes to the development of benchmarks by participating in, sponsoring, and/or contributing technical support to various benchmarking groups, including the BenchmarkXPRT Development Community administered by Principled Technologies.

SPARE PARTS

This section lists the upgrade and service-related parts for the Cisco UCS X210c M7 Compute Node. Some of these parts are configured with every compute node or with every Cisco UCS X9508 chassis.

Table 24 Spare Parts

Product ID (PID)	PID Description
Debug Cable	
UCSX-C-DEBUGCBL=	UCSX Compute Node Debug Cable
CPUs  **Note:** If you are ordering a second CPU, see the **CPU Accessories** section in this table for additional parts you may need to order for the second CPU.	
Available 5th Gen. Intel® Xeon® Scalable CPUs	
8000 Series Processors	
UCSX-CPU-I8592V=	Intel I8592V 2GHz/330W 64C/320MB DDR5 4800MT/s
UCSX-CPU-I8592+=	Intel I8592+ 1.9GHz/350W 64C/320MB DDR5 5600MT/s
UCSX-CPU-I8581V=	Intel I8581V 1.8GHz/270W 60C/300MB DDR5 4800MT/s
UCSX-CPU-I8580=	Intel I8580 2GHz/350W 60C/300MB DDR5 5600MT/s
UCSX-CPU-I8571N=	Intel I8571N 2.4GHz/300W 52C/300MB DDR5 4800MT/s
UCSX-CPU-I8570=	Intel I8570 2GHz/350W 56C/300MB DDR5 5600MT/s
UCSX-CPU-I8568Y+=	Intel I8568Y+ 2.3GHz/350W 48C/300MB DDR5 5600MT/s
UCSX-CPU-I8562Y+=	Intel I8562Y+ 2.9GHz/300W 32C/60MB DDR5 5600MT/s
UCSX-CPU-I8558U=	Intel I8558U 2GHz/300W 48C/260MB DDR5 4800MT/s
UCSX-CPU-I8558P=	Intel I8558P 2.7GHz/350W 48C/260MB DDR5 5600MT/s
UCSX-CPU-I8558=	Intel I8558 2GHz/330W 48C/260MB DDR5 5200MT/s
6000 Series Processors	
UCSX-CPU-I6554S=	Intel I6554S 2.2GHz/270W 36C/180MB DDR5 5200MT/s
UCSX-CPU-I6548Y+=	Intel I6548Y+ 2.5GHz/250W 32C/60MB DDR5 5200MT/s
UCSX-CPU-I6548N=	Intel I6548N 2.8GHz/250W 32C/60MB DDR5 5200MT/s
UCSX-CPU-I6538Y+=	Intel I6538Y+ 2.3GHz/225W 32C/60MB DDR5 5200MT/s
UCSX-CPU-I6538N=	Intel I6538N 2.2GHz/205W 32C/60MB DDR5 5200MT/s
UCSX-CPU-I6526Y=	Intel I6526Y 2.9GHz/195W 16C/37.5MB DDR5 5200MT/s

Table 24 Spare Parts *(continued)*

Product ID (PID)	PID Description
5000 Series Processors	
UCSX-CPU-I5515+=	Intel I5515+ 3.2GHz/165W 8C/22.5MB DDR5 4800MT/s
UCSX-CPU-I5512U=	Intel I5512U 2.2GHz/185W 28C/52.5MB DDR5 4800MT/s
4000 Series Processors	
UCSX-CPU-I4516Y+=	Intel I4516Y+ 2.2GHz/185W 24C/45MB DDR5 4400MT/s
UCSX-CPU-I4514Y=	Intel I4514Y 2GHz/150W 16C/30MB DDR5 4400MT/s
UCSX-CPU-I4510T=	Intel I4510T 1.9GHz/115W 12C/30MB DDR5 4400MT/s
UCSX-CPU-I4510=	Intel I4510 2.4GHz/150W 12C/30MB DDR5 4400MT/s
UCSX-CPU-I4509Y=	Intel I4509Y 2.6GHz/125W 8C/22.5MB DDR5 4400MT/s
3000 Series Processors	
UCSX-CPU-I3508U	Intel I3508U 2GHz/125W 8C/22.5MB DDR5 4400MT/s
Available 4th Gen. Intel® Xeon® Scalable CPUs	
8000 Series Processors	
UCSX-CPU-I8444H=	Intel I8444H 2.9GHz/270W 16C/45MB DDR5 4800MT/s
UCSX-CPU-I8450H=	Intel I8450H 2GHz/250W 28C/75MB DDR5 4800MT/s
UCSX-CPU-I8452Y=	Intel I8452Y 2GHz/300W 36C/67.5MB DDR5 4800MT/s
UCSX-CPU-I8454H=	Intel I8454H 2.1GHz/270W 32C/82.5MB DDR5 4800MT/s
UCSX-CPU-I8458P=	Intel I8458P 2.7GHz/350W 44C/82.5MB DDR5 4800MT/s
UCSX-CPU-I8460H=	Intel I8460H 2.2GHz/330W 40C/105MB DDR5 4800MT/s
UCSX-CPU-I8468H=	Intel I8468H 2.1GHz/330W 48C/105MB DDR5 4800MT/s
UCSX-CPU-I8468V=	Intel I8468V 2.4GHz/330W 48C/97.5MB DDR5 4800MT/s
UCSX-CPU-I8470=	Intel I8470 2GHz/350W 52C/105MB DDR5 4800MT/s
UCSX-CPU-I8470N=	Intel I8470N 1.7GHz/300W 52C/97.5MB DDR5 4800MT/s
UCSX-CPU-I8471N=	Intel I8471N 1.8GHz/300W 52C/97.5MB DDR5 4800MT/s
UCSX-CPU-I8480+=	Intel I8480+ 2GHz/350W 56C/105MB DDR5 4800MT/s
UCSX-CPU-I8490H=	Intel I8490H 1.9GHz/350W 60C/112.5MB DDR5 4800MT/s
UCSX-CPU-I8462Y+=	Intel I8462Y+ 2.8GHz/300W 32C/60MB DDR5 4800MT/s
6000 Series Processors	
UCSX-CPU-I6430=	Intel I6430 1.9GHz/270W 32C/60MB DDR5 4400MT/s

Table 24 Spare Parts *(continued)*

Product ID (PID)	PID Description
UCSX-CPU-I6416H=	Intel I6416H 2.2GHz/165W 18C/45MB DDR5 4800MT/s
UCSX-CPU-I6418H=	Intel I6418H 2.1GHz/185W 24C/60MB DDR5 4800MT/s
UCSX-CPU-I6421N=	Intel I6421N 1.8GHz/185W 32C/60MB DDR5 4400MT/s
UCSX-CPU-I6426Y=	Intel I6426Y 2.5GHz/185W 16C/37.5MB DDR5 4800MT/s
UCSX-CPU-I6428N=	Intel I6428N 1.8GHz/185W 32C/60MB DDR5 4000MT/s
UCSX-CPU-I6434H=	Intel I6434H 3.7GHz/195W 8C/22.5MB DDR5 4800MT/s
UCSX-CPU-I6438N=	Intel I6438N 2GHz/205W 32C/60MB DDR5 4800MT/s
UCSX-CPU-I6442Y=	Intel I6442Y 2.6GHz/225W 24C/60MB DDR5 4800MT/s
UCSX-CPU-I6444Y=	Intel I6444Y 3.6GHz/270W 16C/45MB DDR5 4800MT/s
UCSX-CPU-I6448H=	Intel I6448H 2.4GHz/250W 32C/60MB DDR5 4800MT/s
UCSX-CPU-I6448Y=	Intel I6448Y 2.1GHz/225W 32C/60MB DDR5 4800MT/s
5000 Series Processors	
UCSX-CPU-I5411N=	Intel I5411N 1.9GHz/165W 24C/45MB DDR5 4400MT/s
UCSX-CPU-I5415+=	Intel I5415+ 2.9GHz/150W 8C/22.5MB DDR5 4400MT/s
UCSX-CPU-I5416S=	Intel I5416S 2GHz/150W 16C/30MB DDR5 4400MT/s
UCSX-CPU-I5418N=	Intel I5418N 1.8GHz/165W 24C/45MB DDR5 4000MT/s
UCSX-CPU-I5418Y=	Intel I5418Y 2GHz/185W 24C/45MB DDR5 4400MT/s
UCSX-CPU-I5420+=	Intel I5420+ 2GHz/205W 28C/52.5MB DDR5 4400MT/s
4000 Series Processors	
UCSX-CPU-I4410T=	Intel I4410T 2.7GHz/150W 10C/26.25MB DDR5 4000MT/s
UCSX-CPU-I4410Y=	Intel I4410Y 2GHz/150W 12C/30MB DDR5 4000MT/s
UCSX-CPU-I4416+=	Intel I4416+ 2GHz/165W 20C/37.5MB DDR5 4000MT/s
3000 Series Processors	
UCSX-CPU-I3408U=	Intel I3408U 1.8GHz/125W 8C/22.5MB DDR5 4000MT/s
CPU Accessories	
UCSX-C-M7-HS-F=	UCS X210c M7 Compute Node Front CPU Heat Sink
UCSX-C-M7-HS-R=	UCS X210c M7 Compute Node Rear CPU Heat Sink
UCSX-CPU-TIM=	Single CPU thermal interface material syringe for M7 server HS seal
UCSX-HSCK=	UCS Processor Heat Sink Cleaning Kit (when replacing a CPU)

Table 24 Spare Parts *(continued)*

Product ID (PID)	PID Description
UCSX-CPUAT=	CPU Assembly Tool for M7 Servers
UCSX-CPUATI-4=	CPX-4 CPU Assembly tool for M7 Servers
UCSX-CPUATI-3=	ICX CPU Assembly Tool for M7 Servers
Memory	
DDR5-5600MT/s PID list[1]	
UCSX-MRX48G1RF3=	48GB DDR5-5600 RDIMM 1Rx4 (24Gb)
UCSX-MRX96G2RF3=	96GB DDR5-5600 RDIMM 2Rx4 (24Gb)
UCSX-MR128G2RG3=	128GB DDR5-5600 RDIMM 2Rx4 (32Gb)
DIMM Blank	
UCSX-DIMM-BLK=	Cisco UCS DIMM Blank
Rear mLOM Adapters	
UCSX-MLV5D200GV2D=	Cisco UCS VIC 15230 modular LOM w/Secure Boot X Compute Node
UCSX-ML-V5Q50G-D=	UCS VIC 15420 4x25G secure boot mLOM for X Compute Node
Rear Mezzanine Adapters	
Cisco VIC Card	
UCSX-V4-PCIME-D=	UCS PCI Mezz Card for X-Fabric
UCSX-ME-V5Q50G-D=	UCS VIC 15422 4x25G secure boot mezz for X Compute Node
Cisco VIC Bridge Card	
UCSX-V5-BRIDGE-D=	UCS VIC 15000 bridge to connect mLOM and mezz X Compute Node (This bridge to connect the Cisco VIC 15420 mLOM and Cisco VIC 15422 Mezz for the X210c M7 Compute Node)
Front Mezzanine Adapters	
UCSX-X10C-PT4F-D=	Cisco UCS X210c M7 Compute Node compute pass through controller for up to 6 NVMe drives
UCSX-X10C-RAIDF-D=	Cisco UCS X210c M7 Compute Node RAID controller w/4GB Cache, with LSI 3900 for up to 6 SAS/SATA/NVMe drives (SAS/SATA and NVMe drives can be mixed)
UCSX-X10C-GPUFM-D=	UCS X10c Compute Node GPU Front Mezz
UCSX-MRAID-SC=	Supercap for Cisco 12G SAS Modular Raid controller on Blades
GPUs	
UCSX-GPU-T4MEZZ-D=	NVIDIA T4 GPU PCIE 75W 16GB, MEZZ form factor

Table 24 Spare Parts *(continued)*

Product ID (PID)	PID Description
UCSX-GPU-FLX140MZ=	Intel GPU Flex 140, Gen4x8, HHHL, 75W PCIe
Drives	
SAS/SATA SSDs	
Self-Encrypted Drives (SED)	
UCSXSD960GBKNK9-D=	960GB 2.5" Enterprise value 12G SAS SSD (1X endurance, FIPS)
UCSXSD800GBKNK9-D=	800GB Enterprise performance SAS SSD (3X DWPD, SED)
UCSX-SD16TBKANK9D=	1.6TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X SED-FIPS)
UCSX-SD38TBKANK9D=	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS)
UCSX-SD76TBKANK9D=	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD (SED-FIPS)
UCSX-SD960GM2NK9D	960GB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)
UCSX-SD19TEM2NK9D=	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)
UCSX-SD38TEM2NK9D=	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)
UCSX-SD76TEM2NK9D=	7.6TB 2.5in Enter Value 6G SATA Micron G2 SSD (SED)
Enterprise Performance SSDs (high endurance, supports up to 3X DWPD (drive writes per day))	
UCSX-SD16TKA3XEPD=	1.6TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X)
UCSXSD32TKA3XEP-D=	3.2TB 2.5in Enter Perf 24G SAS Kioxia PM7 SSD (3X)
UCSX-SD19T63XEP-D=	1.9TB 2.5 inch Enterprise performance 6G SATA SSD (3X endurance)
UCSXSD480G63XEP-D=	480GB 2.5in Enterprise performance 6G SATA SSD (3X endurance)
UCSXSD480GBM3XEPD=	480GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)
UCSXSD960GBM3XEPD=	960GB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)
UCSX-SD19TBM3XEPD=	1.9TB 2.5in Enter Perf 6G SATA Micron G2 SSD (3X)
UCSX-SDB960OA1P=	960GB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD
UCSX-SDB3T8OA1P=	3.8TB 2.5in 15mm Solidigm S4620 Enter Perf 6G SATA 3X SSD
Enterprise Value SSDs (Low endurance, supports up to 1X DWPD (drive writes per day))	
UCSXSD240GBM1XEVD=	240GB 2.5in Enter Value 6G SATA Micron G2 SSD
UCSXSD480GBM1XEVD=	480 GB 2.5in Enter Value 6G SATA Micron G2 SSD
UCSXSD960GBM1XEVD=	960GB 2.5in Enter Value 6G SATA Micron G2 SSD
UCSX-SD16TBM1XEVD=	1.6TB 2.5in Enter Value 6G SATA Micron G2 SSD
UCSX-SD19TBM1XEVD=	1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD

Table 24 Spare Parts *(continued)*

Product ID (PID)	PID Description
UCSX-SD38TBM1XEVD=	3.8TB 2.5in Enter Value 6G SATA Micron G2 SSD
UCSX-SD76TBM1XEVD=	7.6TB 2.5in Enter Value 6G SATA Micron G2 SSD
UCSX-SDB960SA1VD=	960GB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD
UCSX-SDB1T9SA1VD=	1.9TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD
UCSX-SDB3T8SA1VD=	3.8TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD
UCSX-SDB7T6SA1VD=	7.6TB 2.5in 6G SATA Enter Value 1X Samsung G1PM893A SSD
UCSX-SD19TKA1XEVD=	1.9TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD
UCSXSD38TKA1XEV-D=	3.8TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD
UCSX-SD76TKA1XEVD=	7.6TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD
UCSX-SD15TKA1XEVD=	15.3TB 2.5in Enter Value 24G SAS Kioxia PM7 SSD
NVMe	
UCSX-NVMEG4M1536D=	15.3TB 2.5in U.3 Micron 7450 NVMe High Perf Medium Endurance
UCSX-NVMEG4M6400D=	6.4TB 2.5in U.3 Micron 7450 NVMe High Perf High Endurance
UCSX-NVB3T8M2V9=	3.8TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS
UCSX-NVB7T6M2V9=	7.6TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS
UCSX-NVB15T3M2V9=	15.3TB 2.5in U.3 15mm Micron 7500 HgPerf MedEnd 1X NVMe FIPS
UCSX-NVB960M2V=	960GB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe
UCSX-NVB1T9M2V=	1.9TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe
UCSX-NVB3T2M2P=	3.2TB 2.5in U.3 15mm Micron 7500 Hg Perf Hg End 3X NVMe
UCSX-NVB3T8M2V=	3.8TB 2.5in U.3 15mm Micron 7500 Hg Perf Med End 1X NVMe
SATA M.2 Storage Modules	
UCSX-M2-240G-D=	240GB 2.5in M.2 SATA Micron G2 SSD
UCSX-M2-480G-D=	480GB 2.5in M.2 SATA Micron G2 SSD
UCSX-M2-960G-D=	960GB 2.5in M.2 SATA Micron G2 SSD
UCSX-M2-I240GB-D=	240GB SATA M.2 SSD
Boot-Optimized RAID Controller	
UCSX-M2-HWRD-FPS=	UCSX Front panel with M.2 RAID controller for SATA drives
NVMe M.2 Storage Modules	
UCSX-NVM2-400GB=	400GB M.2 Boot NVMe

Table 24 Spare Parts *(continued)*

Product ID (PID)	PID Description
UCSX-NVM2-960GB=	960GB M.2 Boot NVMe
NVMe Boot	
UCSX-M2-PT-FPN=	UCSX Front Panel w/M.2 Pass Through Controller for NVME Drv
Drive Blank	
UCSC-BBLKD-S2=	Cisco UCS X210c M6 Compute Node 7mm Front Drive Blank
TPM	
UCSX-TPM-002C-D=	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers
UCSX-TPM-002D-D=	TPM 2.0 TCG FIPS140-2 CC+ Cert M7 Intel MSW2022 Compliant
UCSX-TPM-OPT-OUT=	OPT OUT, TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified
Operating System	
Microsoft Windows Server	
MSWS-22-ST16CD=	Windows Server 2022 Standard (16 Cores/2 VMs)
MSWS-22-ST16CD-NS=	Windows Server 2022 Standard (16 Cores/2 VMs) - No Cisco SVC
MSWS-22-DC16CD=	Windows Server 2022 Data Center (16 Cores/Unlimited VMs)
MSWS-22-DC16CD-NS=	Windows Server 2022 DC (16 Cores/Unlim VMs) - No Cisco SVC
MSWS-19-ST16CD=	Windows Server 2019 Standard (16 Cores/2 VMs)
MSWS-19-ST16CD-NS=	Windows Server 2019 Standard (16 Cores/2 VMs) - No Cisco SVC
MSWS-19-DC16CD=	Windows Server 2019 Data Center (16 Cores/Unlimited VMs)
MSWS-19-DC16CD-NS=	Windows Server 2019 DC (16 Cores/Unlim VMs) - No Cisco SVC
Red Hat	
RHEL-2S2V-D1A=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 1-Yr Support Req
RHEL-2S2V-D3A=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 3-Yr Support Req
RHEL-2S2V-D5A=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); 5-Yr Support Req
RHEL-VDC-2SUV-D1A=	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 1 Yr Supp Req
RHEL-VDC-2SUV-D3A=	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 3 Yr Supp Req
RHEL-VDC-2SUV-D5A=	RHEL for Virt Datacenters (1-2 CPU, Unlim VN) 5 Yr Supp Req
Red Hat Ent Linux/ High Avail/ Res Strg/ Scal	
RHEL-2S2V-D1S=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); Prem 1Yr SnS Reqd
RHEL-2S2V-D3S=	Red Hat Enterprise Linux (1-2 CPU,1-2 VN); Prem 3Yr SnS Reqd

Table 24 Spare Parts *(continued)*

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

Table 24 Spare Parts *(continued)*

Product ID (PID)	PID Description
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

Notes:

1. DDR5-5600 supported on Intel® Xeon® 5th generation only.

TECHNICAL SPECIFICATIONS

Dimensions and Weight

Table 25 Cisco UCS X210c M7 Compute Node Dimensions and Weight

Parameter	Value
Height	1.80 in. (45.7 mm)
Width	11.28 in. (286.5 mm)
Depth	23.7 in. (602 mm)
Weight	■ Minimally configured node weight = 12.84 lbs. (5.83 kg) ■ Fully configured compute node weight = 25.1 lbs. (11.39 kg)

Environmental Specifications

Table 26 Cisco UCS X210c M7 Compute Node Environmental Specifications

Parameter	Value
Operating temperature	50° to 95°F (10° to 35°C)
Non-operating temperature	-40° to 149°F (-40° to 65°C)
Operating humidity	5% to 90% noncondensing
Non-operating humidity	5% to 93% noncondensing
Operating altitude	0 to 10,000 ft (0 to 3000m); maximum ambient temperature decreases by 1°C per 300m
Non-operating altitude	40,000 ft (12,000m)

For configuration-specific power specifications, use the Cisco UCS Power Calculator at:

http://ucspowercalc.cisco.com



NOTE: The ambient temperature must be less than 35 ºC (95 ºF).

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 27 EOS

Product ID	Description	EOL/EOS link
Drives		
UCSX-M2-240GB-D	240GB 2.5in M.2 SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSX-M2-960GB-D	960GB 2.5in M.2 SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSX-SD76TM1XEV-D	7.6TB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSXSD240GM1XEV-D	240GB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSXSD480GM1XEV-D	480 GB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSX-SD16TM1XEV-D	1.6TB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSX-SD38TM1XEV-D	3.8TB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSX-NVME-W6400-D	6.4TB 2.5in U.2 WD SN840 NVMe Extreme Perf. High Endurance	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/unified-computing-accessories-eol.html
UCSX-SD32TK3XEP-D	3.2TB 2.5in Enter Perf 12G SAS Kioxia G1 SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSX-SD38TK1XEV-D	3.8TB 2.5in Enter Value 12G SAS Kioxia G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSX-SD76TBKNK9-D	7.6TB 2.5in Enter Value 12G SAS Kioxia G1 SSD (SED-FIPS)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSX-SD76TK1XEV-D	7.6TB 2.5in Enter Value 12G SAS Kioxia G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSXNVMEI4I6400-D	6.4TB 2.5in U.2 Intel P5600 NVMe High Perf High Endurance	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSX-SD15TK1XEV-D	15.3TB 2.5in Enter Value 12G SAS Kioxia G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html

Table 27 EOS

UCSX-SD16TBKNK9-D	1.6TB 2.5in Enter Perf 12G SAS Kioxia G1 SSD (3X SED-FIPS)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSX-SD16TK3XEP-D	1.6TB 2.5in Enter Perf 12G SAS Kioxia G1 SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSX-SD19TK1XEV-D	1.9TB 2.5in Enter Value 12G SAS Kioxia G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSXNVMEI4I1920-D	1.9TB 2.5in U.2 Intel P5500 NVMe High Perf Medium Endurance	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-access-eol-15074.html
UCSX-ML-V5D200G-D	Cisco VIC 15231 2x 100G mLOM X-Series	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-accessories-eol.html
UCSX-SD19TS1XEV-D	1.9TB 2.5v Enter Value 12G SAS Seagate SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCSXNVMEXPBI375-D	375GB 2.5in Intel Optane NVMe Extreme Performance SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCSXSD960GS1XEV-D	960GB 2.5in Enter Value 12G SAS Seagate SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCSX-SD38TS1XEV-D	3.8TB 2.5in Enter Value 12G SAS Seagate SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCS-MR128G4RE3	128GB DDR5-5600 RDIMM 4Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15570.html
UCSXSD19T6S1XEV-D	1.9TB 2.5in Enter Value 6G SATA Samsung SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCSXSD76T6S1XEV-D	7.6TB 2.5in Enter Value 6G SATA Samsung SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol.html
UCSXSD960G63XEP-D	960GB 2.5in Enter Perf 6G SATA Intel SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-NVME4-1600-D	1.6TB 2.5in U.2 15mm P5620 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-NVME4-3840-D	3.8TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-NVME4-7680-D	7.6TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-NVME4-1920-D	1.9TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html

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UCSX-NVME4-3200-D	3.2TB 2.5in U.2 15mm P5620 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-NVME4-6400-D	6.4TB 2.5in U.2 15mm P5620 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-SD19TM1XEV-D	1.9TB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSX-SD38T63XEP-D	3.8TB 2.5in Enter Perf 6G SATA Intel SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSXSD38T6I1XEV-D	3.8TB 2.5in Enter Value 6G SATA Intel SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSXSD800GK3XEP-D	800GB 2.5in Enter Perf 12G SAS Kioxia G1 SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSXNVMEI4I1600-D	1.6TB 2.5in U.2 Intel P5600 NVMe High Perf High Endurance	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSX-M2-I480GB-D	480GB M.2 Boot SATA Intel SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-NVME-W3200-D	3.2TB 2.5in U.2 WD SN840 NVMe Extreme Perf. High Endurance	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ac-eol.html
UCSX-NVME4-15360D	15.3TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-NVME4-1920-D	1.9TB 2.5in U.2 15mm P5520 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-NVME4-3200-D	3.2TB 2.5in U.2 15mm P5620 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-NVME4-6400-D	6.4TB 2.5in U.2 15mm P5620 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-SD19TM1XEV-D	1.9TB 2.5in Enter Value 6G SATA Micron G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-b-series-blade-servers/select-ucs-accessories-eol.html
UCSX-SD38T63XEP-D	3.8TB 2.5in Enter Perf 6G SATA Intel SSD (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSXSD38T6I1XEV-D	3.8TB 2.5in Enter Value 6G SATA Intel SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-MR256G8RE3	256GB DDR5-5600 RDIMM 8Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html

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UCSX-NVME-W7680-D	7.6TB 2.5in U.2 WD SN840 NVMe Extreme Perf. Value Endurance	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCSX-NVME-W7680-D	7.6TB 2.5in U.2 WD SN840 NVMe Extreme Perf. Value Endurance	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCSX-NVMEXPI400-D	400GB 2.5in U.2 15mm P5800X Optane Ext Perf NVMe (30/100X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-drives-storage-controllers-eol.html
UCSX-NVMEXPI800-D	800GB 2.5in U.2 15mm P5800X Optane Ext Perf NVMe (30/100X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-drives-storage-controllers-eol.html
UCSXS960G6I1XEV-D	960GB 2.5 inch Enterprise Value 6G SATA Intel SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-drives-storage-controllers-eol.html
UCSX-SD38TBKNK9-D	3.8TB Enterprise Value SAS SSD (1X DWPD, SED)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-drives-storage-controllers-eol.html
UCSXSD960GK1XEV-D	960GB 2.5in Enter Value 12G SAS Kioxia G1 SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-drives-storage-controllers-eol.html
UCSX-MRX16G1RE1S	16GB DDR5-4800 RDIMM 1Rx8 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCSX-NVMEG4-M960D	960GB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html
UCSX-NVMEG4M1920D	1.9TB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html
UCSX-NVMEG4M3200D	3.2TB 2.5in U.3 15mm P7450 Hg Perf Hg End NVMe (3X)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html
UCSX-NVMEG4M3840D	3.8TB 2.5in U.3 15mm P7450 Hg Perf Med End NVMe	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-ucsx-hci-accessories-eol15818.html
UCSX-MRX16G1RE1	16GB DDR5-4800 RDIMM 1Rx8 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCSX-MRX32G1RE1	32GB DDR5-4800 RDIMM 1Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html

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UCSX-MRX64G2RE1	64GB DDR5-4800 RDIMM 2Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCSX-MR128G4RE1	128GB DDR5-4800 RDIMM 4Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCSXS480G6I1XEV-D	480 GB 2.5 inch Enterprise Value 6G SATA Intel SSD	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15502.html
UCSX-MR128G4RE3[1]	128GB DDR5-5600 RDIMM 4Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-accessories-eol15570.html
UCSX-MRX16G1RE3	16GB DDR5-5600 RDIMM 1Rx8 (16Gb)	Disabled Due to Material Shortage
UCSX-MR256G8RE1	256GB DDR5-4800 RDIMM 8Rx4 (16Gb)	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/ucs-accessories_eol.html
UCS-CPU-I5412U	Intel I5412U 2.1GHz/185W 24C/45MB DDR5 4400MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I6414U	Intel I6414U 2GHz/250W 32C/60MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I6434	Intel I6434 3.7GHz/195W 8C/22.5MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I6438Y+	Intel I6438Y+ 2GHz/205W 32C/60MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I6454S	Intel I6454S 2.2GHz/270W 32C/60MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I8460Y+	Intel I8460Y+ 2GHz/300W 40C/105MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I8461V	Intel I8461V 2.2GHz/300W 48C/97.5MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html
UCS-CPU-I8468	Intel I8468 2.1GHz/350W 48C/105MB DDR5 4800MT/s	https://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/select-ucs-hci-accessories-eol15841.html

Notes:

1. 128GB 4Rx4 (16Gb) is now End-Of-Life and is replaced by 128GB 2Rx4 (32Gb).



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