

# **Overview**

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## **Overview**

This guide covers all Cisco HX220c Hybrid, All-Flash, and All-NVMe models.

The following table lists the minimum levels of Cisco HyperFlex software required.



**Note** The software requirements given below are for the base chassis. Certain configurable components might require later software levels, as noted in this guide.

#### Table 1: HX220c M5 System Minimum Software Requirements

System Version	Cisco HyperFlex Software Minimum Level
HX220c M5 Hybrid (HX220C-M5SX)	2.6(1a) or later
HX220c M5 All-Flash (HXAF220C-M5SX)	2.6(1a) or later
HX220c M5 All-NVMe (HXAF220C-M5SN)	4.0(1) or later

### **Cisco HyperFlex Systems Related Documentation**

Links for related Cisco HyperFlex Systems documentation such as the Getting Started Guide, Administration Guide, and Release Notes are listed in the Cisco HyperFlex Systems Documentation Roadmap.

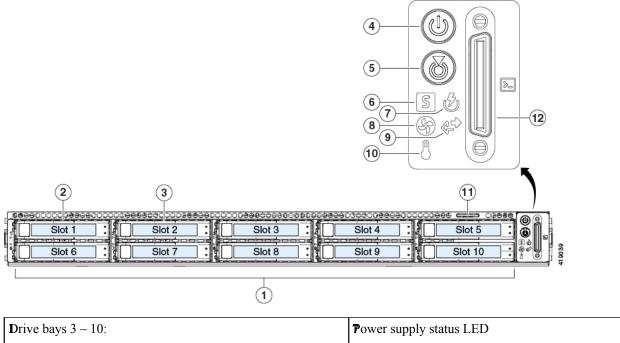
## **External Features**

This topic shows the external features of the node.

### **Front Panel Features**

For definitions of LED states, see Front-Panel LEDs.

#### Figure 1: Front Panel



Drive bays $3 - 10$ :	Power supply status LED
• HX220c Hybrid: persistent data HDDs	
HX220c All-Flash: persistent data SSDs	
• HX220c All-NVMe: persistent data NVMe SSDs	
Drive bay 1: system SSD for logs	<b>\$</b> an status LED
Drive bay 2: caching SSD	Network link activity LED
₽ower button/LED	Or emperature status LED
<b>5</b> Jnit identification LED	₽ull-out asset tag

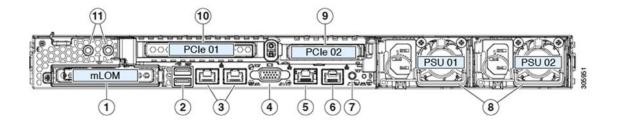
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<b>6</b> ystem status LED	XVM cable connector
	(used with KVM cable that provides one DB-15 VGA, one DB-9 serial, and two USB connectors)

### **Rear Panel Features**

For definitions of LED states, see Rear-Panel LEDs.

Figure 2: Cisco UCS C220 M5 Server Rear Panel

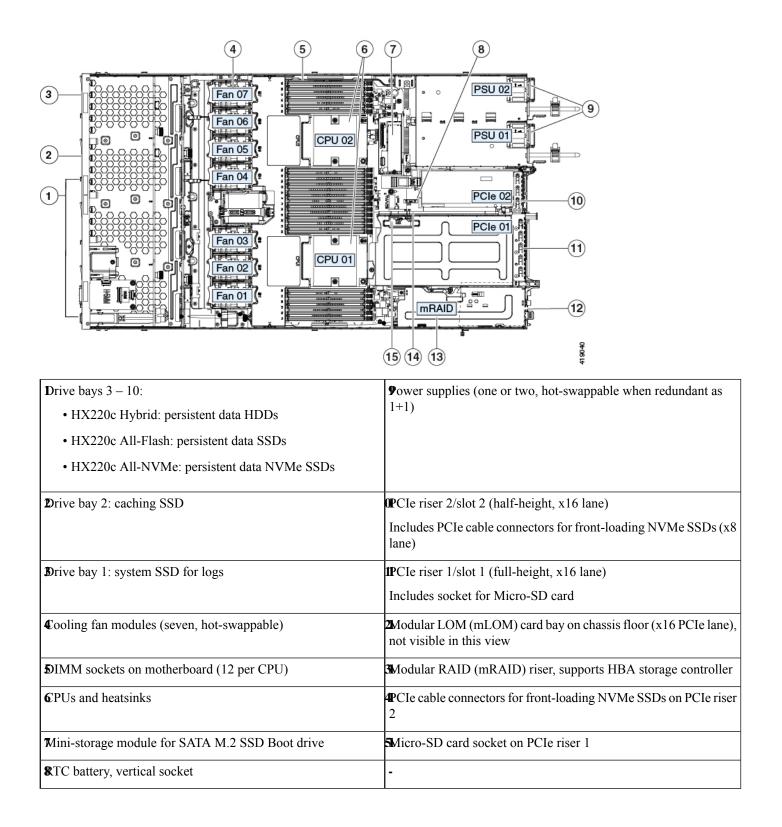


Modular LAN-on-motherboard (mLOM) card bay (x16 PCIe lane)	Rear unit identification button/LED
2JSB 3.0 ports (two)	<b>S</b> ower supplies (one or two, redundant as 1+1 when two power supplies are present)
Bual 1-Gb/10-Gb Ethernet ports (LAN1 and LAN2)	PCIe riser 2/slot 2 (x16 lane)
The dual LAN ports can support 1 Gbps and 10 Gbps, depending on the link partner capability.	Includes PCIe cable connectors for front-loading NVMe SSD (x8 lane)
<b>₽</b> /GA video port (DB-15 connector)	<b>OP</b> CIe riser 1/slot 1 (x16 lane)
<b>5</b> -Gb Ethernet dedicated management port	IT hreaded holes for dual-hole grounding lug
6erial port (RJ-45 connector)	-

# **Serviceable Component Locations**

This topic shows the locations of the field-replaceable components and service-related items. The view in the following figure shows the node with the top cover removed.

#### Figure 3: Serviceable Component Locations



# **Summary of Node Features**

The following table lists a summary of node features.

Feature	Description
Chassis	One rack-unit (1RU) chassis
Central Processor	One or two identical CPUs from the Intel Xeon Processor Scalable Family.
Memory	24 DDR4 DIMM sockets on the motherboard (12 each CPU)
	The system uses a minimum of 256 GB memory.
Multi-bit error protection	Multi-bit error protection is supported.
Baseboard management	BMC, running Cisco Integrated Management Controller (Cisco IMC) firmware.
	Depending on your Cisco IMC settings, Cisco IMC can be accessed through the 1-Gb dedicated management port, the 1-Gb/10-Gb Ethernet LAN ports, or a Cisco virtual interface card.
Network and management I/O	Rear panel:
	• One 1-Gb Ethernet dedicated management port (RJ-45 connector)
	• Two 1-Gb/10-Gb BASE-T Ethernet LAN ports (RJ-45 connectors)
	The dual LAN ports can support 1 Gbps and 10 Gbps, depending on the link partner capability.
	• One RS-232 serial port (RJ-45 connector)
	• One VGA video connector port (DB-15 connector)
	• Two USB 3.0 ports
	Front panel:
	• One front-panel keyboard/video/mouse (KVM) connector that is used with the KVM cable, which provides two USB 2.0, one VGA, and one DB-9 serial connector.
Modular LOM	One dedicated socket (x16 PCIe lane) that can be used to add an mLOM card for additional rear-panel connectivity.
Power	One or two power supplies. Redundant as 1+1 when two power supplies are present.
АСРІ	The advanced configuration and power interface (ACPI) 4.0 standard is supported.
Cooling	Seven hot-swappable fan modules for front-to-rear cooling.
PCIe I/O	Two horizontal PCIe expansion slots on a PCIe riser assembly.
InfiniBand	The PCIe bus slots in this node support the InfiniBand architecture.
Storage, front-panel	Drives are installed into front-panel drive bays.

Feature	Description
Storage, internal	The node has these internal storage options:
	• One USB port on the motherboard.
	• Mini-storage module that supports a SATA M.2 SSD Boot drive.
	• One Micro-SD card socket on PCIe riser 1.
Storage management	The node has a dedicated internal mRAID riser that supports the HBA storage controller.
Integrated video	Integrated VGA video.