



## Overview

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## Overview

Cisco UCS C225 M6 Server server is a one-rack unit server that can be used standalone, or as part of the Cisco Unified Computing System, which unifies computing, networking, management, virtualization, and storage access into a single integrated architecture. Cisco UCS also enables end-to-end server visibility, management, and control in both bare metal and virtualized environments.

Cisco UCS C225 M6 Server is orderable in two versions:

- Small form-factor (SFF) drives version (UCSC-C225-M6S), with 10-drive HDD back-plane front panel configuration:
  - Front-loading drive bays 1—10 support 2.5-inch SAS/SATA drives.
  - Optionally, front-loading drive bays 1 to 4 support 2.5-inch NVMe SSDs (with optional front NVMe cables).
- NVMe drives version (UCSC-C225-M6N), with 10-drive NVMe back-plane front panel configuration:
  - Front-loading drive bays 1—10 supports 2.5-inch NVMe-only SSDs.

Following PCIe Riser combinations are available:

- One half-height riser card in PCIe Riser 1
- Three half-height riser cards in PCIe Riser 1, 2, 3
- Two full-height riser cards Riser 1 and 3
- Riser 1—Supports Riser1. Supports single x16 PCIe supporting full height 3/4 length cards in 2 riser configuration (or) Half-height 3/4-length cards in 3 riser configuration and NC-SI from Pilot4.
- Riser 2—Supports Riser 1. Supports single x16 PCIe supporting only Half-height 3/4-length cards in 3-riser configuration.

- Riser 3—Supports Riser 3A, 3B. PCIe slot 3 with the following options:
  - Riser3A Supports single x16 PCIe supporting half height 3/4 length cards in 3 riser configuration and NC-SI.
  - Riser3B Supports single x16 PCIe supporting full height 3/4-length cards in 2 riser configuration and NC-SI.
- 2 10GBase-T Ethernet LAN over Motherboard (LOM) ports for network connectivity, plus one 1 Gigabit Ethernet dedicated management port
- One mLOM/VIC card provides 10G/25G/40G/50G/100G connectivity. Supported cards are:
  - Cisco UCS VIC 15427 Quad Port CNA MLOM (UCSC-M-V5Q50GV2) supports:
    - a x16 PCIe Gen4 Host Interface to the rack server
    - four 10G/25G/50G SFP+/SFP28/SFP56 ports
    - 4GB DDR4 Memory, 3200 MHz
    - Integrated blower for optimal ventilation
    - Secure boot support
  - Cisco UCS VIC 15425 Quad Port 10G/25G/50G SFP56 CNA PCIe (UCSC-P-V5Q50G)
    - a x16 PCIe Gen4 Host Interface to the rack server
    - Four 10G/25G/50G SFP+/SFP28/SFP56 ports
    - 4GB DDR4 Memory, 3200MHz
    - Integrated blower for optimal ventilation
    - Secure boot support
  - Cisco UCS VIC 15237 Dual Port 40G/100G/200G QSFP56 mLOM (UCSC-M-V5D200GV2) supports:
    - a x16 PCIe Gen4 Host Interface to the rack server
    - two 40G/100G/200G QSFP/QSFP28/QSFP56 ports
    - 4GB DDR4 Memory, 3200 MHz
    - Integrated blower for optimal ventilation
    - Secure boot support
  - Cisco UCS VIC 15235 Dual Port 40G/100G/200G QSFP56 CNA PCIe (UCSC-P-V5D200G)
    - a x16 PCIe Gen4 Host Interface to the rack server
    - two 40G/100G/200G QSFP/QSFP28/QSFP56 ports
    - 4GB DDR4 Memory, 3200MHz
    - Integrated blower for optimal ventilation
    - Secure boot support

- Cisco UCS VIC 15238 Dual Port 40/100G QSFP28 mLOM (UCSC-M-V5D200G) supports:
  - a x16 PCIe Gen4 Host Interface to the rack server
  - two 40G/100G QSFP28 ports
  - 4GB DDR4 Memory, 3200 MHz
  - Integrated blower for optimal ventilation
- Cisco UCS VIC 15428 Quad Port CNA MLOM (UCSC-M-V5Q50G) supports:
  - a x16 PCIe Gen4 Host Interface to the rack server
  - four 10G/25G/50G SFP56 ports
  - 4GB DDR4 Memory, 3200 MHz
  - Integrated blower for optimal ventilation
- Cisco UCS VIC 1467 Quad Port 10/25G SFP28 mLOM (UCSC-M-V25-04) supports:
  - a x16 PCIe Gen3 Host Interface to the rack server
  - four 10G/25G QSFP28 ports
  - 2GB DDR3 Memory, 1866 MHz
- Cisco UCS VIC 1477 Dual Port 40/100G QSFP28 (UCSC-M-V100-04)
  - a x16 PCIe Gen3 Host Interface to the rack server
  - two 40G/100G QSFP28 ports
  - 2GB DDR3 Memory, 1866 MHz

## External Features

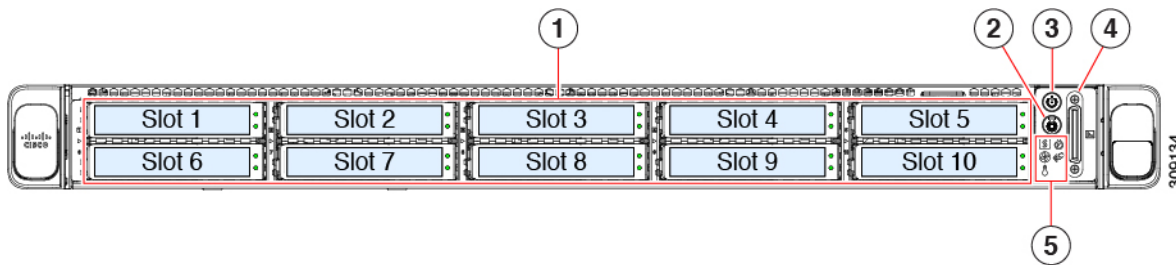
This topic shows the external features of the server versions.

### Cisco UCS C225 M6 Server Front Panel Features

The following figure shows the front panel features of the small form-factor drive versions of the server.

For definitions of LED states, see [Front-Panel LEDs](#).

Figure 1: Cisco UCS C225 M6 Server Front Panel



1	UCSC-C225-M6S Version—Drive bays 1 – 10 support SAS/SATA hard disk drives (HDDs) and solid state drives (SSDs). As an option, drive bays 1-4 can contain up to 4 NVMe drives in any number up to 4. Drive bays 5 through 10 support only SAS/SATA HDDs or SSDs.  UCSC-C225-M6N Version—Drive bays 1—10 supports 2.5-inch NVMe-only SSDs.	2	Unit identification button/LED
3	Power button/power status LED	4	KVM connector (used with KVM cable that provides one DB-15 VGA, one DB-9 serial, and two USB 2.0 connectors)
5	System LED cluster: <ul style="list-style-type: none"> <li>• Fan status LED</li> <li>• System Status LED</li> <li>• Power supply status LED</li> <li>• Network link activity LED</li> <li>• Temperature status LED</li> </ul>		-

**Cisco UCS C225 M6 Server Rear Panel Features**

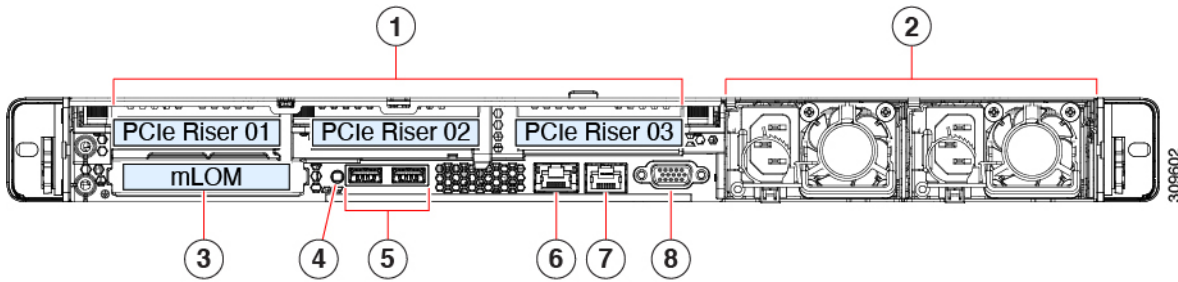
The rear panel features can be different depending on the number and type of PCIe cards in the server.

By default, single CPU servers come with only one half-height riser 1 installed, and dual CPU servers support all three half-height risers.

The following figure shows the rear panel features of the server with three riser configuration.

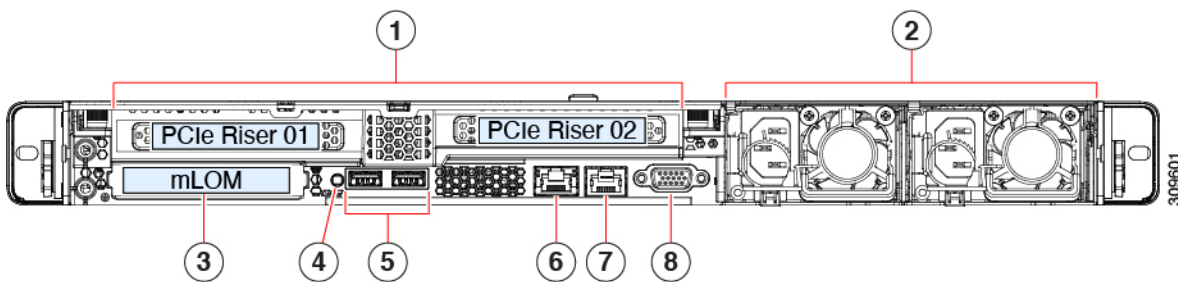
For definitions of LED states, see [Rear-Panel LEDs](#).

Figure 2: Cisco UCS C225 M6 Server Rear Panel Three Riser Configuration



The following figure shows the rear panel features of the server with two riser configuration.

Figure 3: Cisco UCS C225 M6 Server Server Rear Panel Two Riser Configuration

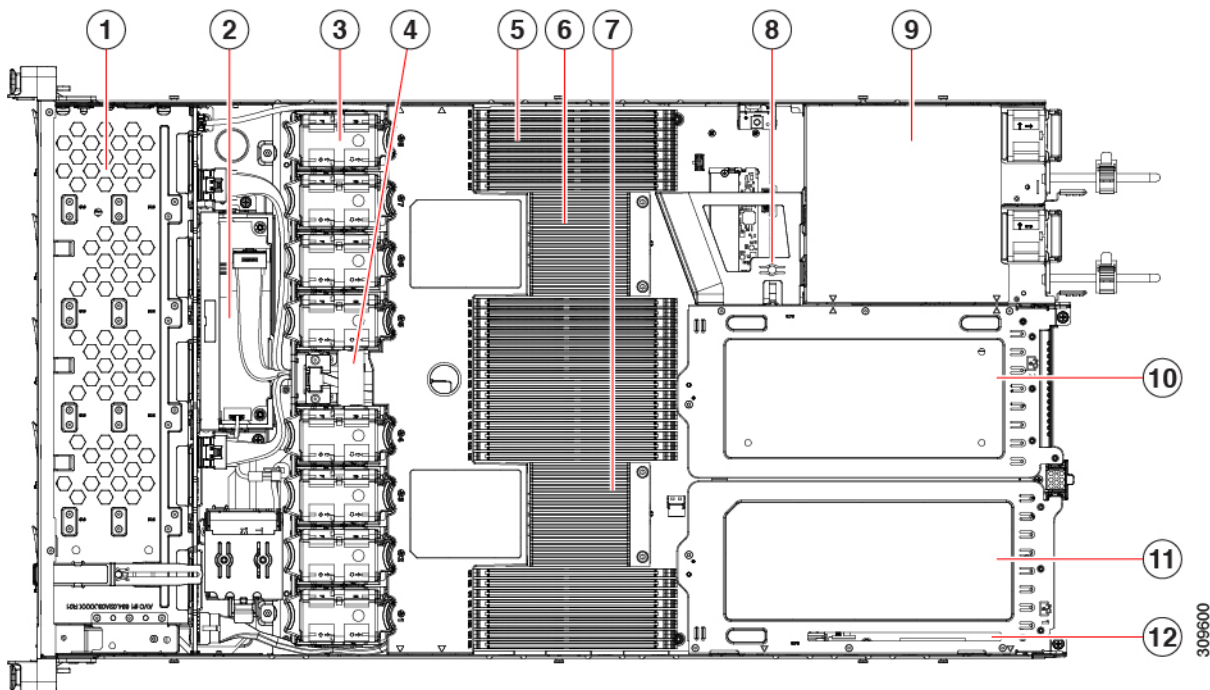


<p><b>1</b></p>	<p>PCIe slots</p> <p>Following PCIe Riser combinations are available:</p> <ul style="list-style-type: none"> <li>• One half-height riser card in PCIe Riser 1</li> <li>• Three half-height riser cards in PCIe Riser 1, 2, 3</li> <li>• Two full-height riser cards Riser 1 and 3</li> <li>• Riser 1—Supports Riser1. Supports single x16 PCIe supporting full height 3/4 length cards in 2 riser configuration (or) Half-height 3/4-length cards in 3 riser configuration and NC-SI from Pilot4.</li> <li>• Riser 2—Supports Riser 1. Supports single x16 PCIe supporting only Half-height 3/4-length cards in 3-riser configuration.</li> <li>• Riser 3—Supports Riser 3A, 3B. PCIe slot 3 with the following options:                             <ul style="list-style-type: none"> <li>• Riser3A Supports single x16 PCIe supporting half height 3/4 length cards in 3 riser configuration and NC-SI.</li> <li>• Riser3B Supports single x16 PCIe supporting full height 3/4-length cards in 2 riser configuration and NC-SI.</li> </ul> </li> </ul>		
<p><b>2</b></p>	<p>Power supply units (PSUs), two which can be redundant when configured in 1+1 power mode.</p>	<p><b>3</b></p>	<p>Modular LAN-on-motherboard (mLOM) card bay (x16 PCIe lane)</p>
<p><b>4</b></p>	<p>System identification button/LED</p>	<p><b>5</b></p>	<p>USB 3.0 ports (two)</p>
<p><b>6</b></p>	<p>Dedicated 1 GB Ethernet management port</p>	<p><b>7</b></p>	<p>COM port (RJ-45 connector)</p>
<p><b>8</b></p>	<p>VGA video port (DB-15 connector)</p>		

# Component Location

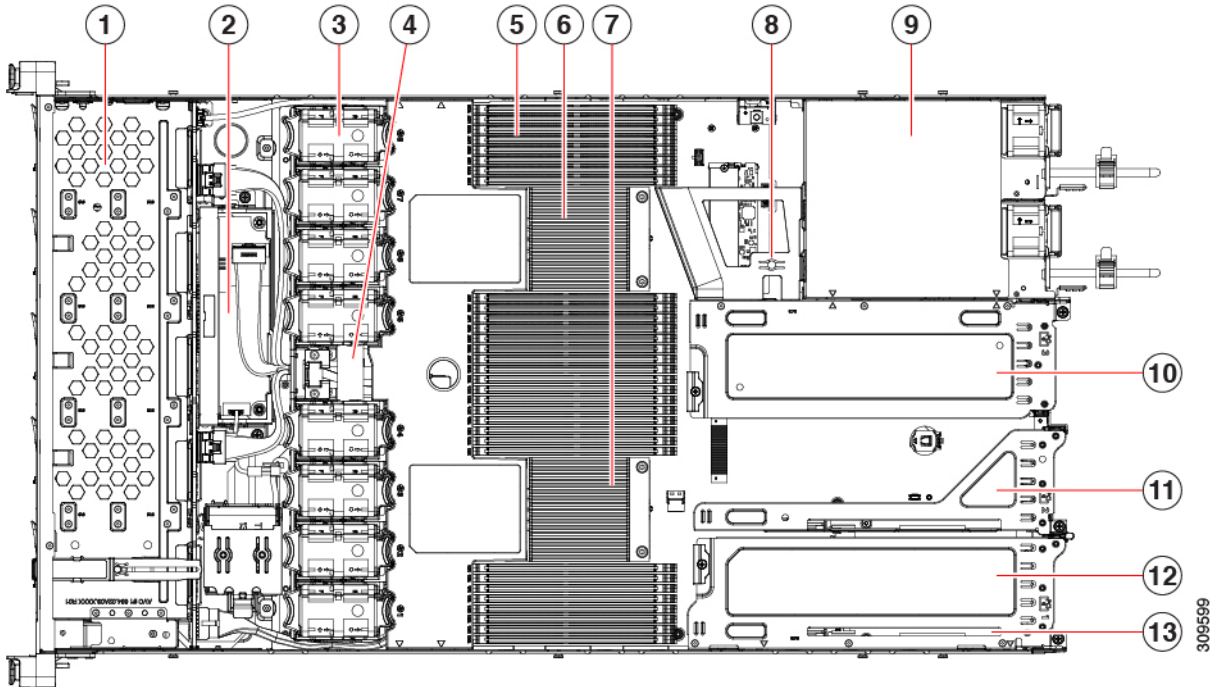
This topic shows the locations of the field-replaceable components and service-related items. The view in the following figure shows the server with the top cover removed.

**Figure 4: Cisco UCS C225 M6 Server, Two Riser Configuration Component Locations**



<b>1</b>	Front-loading drive bays 1–10 support SAS/SATA/NVMe drives.	<b>2</b>	Cisco M6 12G SAS RAID card or Cisco M6 12G SAS HBA Controller
<b>3</b>	Cooling fan modules, eight. Each fan is hot-swappable	<b>4</b>	SuperCap module mounting bracket The SuperCap module (not shown) that mounts into this location provides RAID write-cache backup.
<b>5</b>	DIMM sockets on motherboard, 32 total, 16 per CPU CPUs are arranged in groups of eight sockets above the top CPU and below the bottom CPU, and 16 sockets between the CPUs.	<b>6</b>	Motherboard CPU socket two (CPU2)
<b>7</b>	Motherboard CPU socket one (CPU1)	<b>8</b>	M.2 module connector Supports a boot-optimized RAID controller with connectors for up to two SATA M.2 SSDs
<b>9</b>	Power Supply Units (PSUs), two	<b>10</b>	PCIe riser slot 2
<b>11</b>	PCIe riser slot 1	<b>12</b>	Modular LOM (mLOM) card bay on chassis floor (x16 PCIe lane)

Figure 5: Cisco UCS C225 M6 Server Three Riser Configuration Serviceable Component Locations



1	Front-loading drive bays 1–10 support SAS/SATA/NVMe drives.	2	Cisco M6 12G SAS RAID card or Cisco M6 12G SAS HBA Controller
3	Cooling fan modules, eight. Each fan is hot-swappable	4	SuperCap module mounting bracket The SuperCap module (not shown) that mounts into this location provides RAID write-cache backup.
5	DIMM sockets on motherboard, 32 total, 16 per CPU CPUs are arranged in groups of eight sockets above the top CPU and below the bottom CPU, and 16 sockets between the CPUs.	6	Motherboard CPU socket two (CPU2)
7	Motherboard CPU socket one (CPU1)	8	M.2 module connector Supports a boot-optimized RAID controller with connectors for up to two SATA M.2 SSDs
9	Power Supply Units (PSUs), two	10	PCIe riser slot 3
11	PCIe riser slot 2	12	Modular LOM (mLOM) card bay on chassis floor (x16 PCIe lane)
13	Modular LOM (mLOM) card bay on chassis floor (x16 PCIe lane)		

# Summary of Server Features

The following table lists a summary of server features.

Feature	Description
Chassis	One rack-unit (1RU) chassis
Central Processor	Up to two Socket AMD Zen2/3 Architecture supporting Rome/Milan processors
Memory	32 DDR4 DIMMs, up to 3200 MHz(1DPC), 2933 MHz (2DPC), with support for RDIMMs, LRDIMMs
Multi-bit error protection	Multi-bit error protection is supported
Video	<p>The Cisco Integrated Management Controller (CIMC) provides video using the Matrox G200e video/graphics controller:</p> <ul style="list-style-type: none"> <li>• Integrated 2D graphics core with hardware acceleration</li> <li>• Embedded DDR memory interface supports up to 512 MB of addressable memory (8 MB is allocated by default to video memory)</li> <li>• Supports display resolutions up to 1920 x 1200 16bpp @ 60Hz</li> <li>• High-speed integrated 24-bit RAMDAC</li> <li>• Single lane PCI-Express host interface running at Gen 1 speed</li> </ul>
Baseboard management	<p>BMC, running Cisco Integrated Management Controller (Cisco IMC) firmware.</p> <p>Depending on your Cisco IMC settings, Cisco IMC can be accessed through the 1-Gb dedicated management port or a Cisco virtual interface card.</p>
Network and management I/O	<p>Rear panel:</p> <ul style="list-style-type: none"> <li>• One 1-Gb Ethernet dedicated management port (RJ-45 connector)</li> <li>• One RS-232 serial port (RJ-45 connector)</li> <li>• One VGA video connector port (DB-15 connector)</li> <li>• Two USB 3.0 ports</li> <li>• One flexible modular LAN on motherboard (mLOM)/OCP 3.0 slot that can accommodate various interface cards</li> <li>• One KVM console connector (supplies two USB 2.0 connectors, one VGA DB15 video connector, and one serial port (RS232) RJ45 connector)</li> </ul> <p>Front panel:</p> <ul style="list-style-type: none"> <li>• One KVM console connector (supplies two USB 2.0 connectors, one VGA DB15 video connector, and one serial port (RS232) RJ45 connector)</li> </ul>



Feature	Description
Modular LAN on Motherboard (mLOM)/ OCP3 3.0 slot	<p>The dedicated mLOM/OCP 3.0 slot on the motherboard can flexibly accommodate the following cards:</p> <ul style="list-style-type: none"> <li>• Cisco Virtual Interface Cards</li> <li>• OCP 3.0 network interface card (UCSC-O-ID10GC)</li> </ul>
Power	<p>Up to two of the following hot-swappable power supplies:</p> <ul style="list-style-type: none"> <li>• 770 W (AC)</li> <li>• 1050 W (AC)</li> <li>• 1050 W (DC)</li> <li>• 1600 W (AC)</li> <li>• 2300 W (AC)</li> </ul> <p>One power supply is mandatory; one more can be added for 1 + 1 redundancy.</p>
ACPI	The advanced configuration and power interface (ACPI) 4.0 standard is supported.
Front Panel	The front panel controller provides status indications and control buttons
Cooling	Eight hot-swappable fan modules for front-to-rear cooling.
PCIe I/O	<p>Horizontal PCIe expansion slots are supported by PCIe riser assemblies. The server supports either of the following configurations:</p> <ul style="list-style-type: none"> <li>• One half-height riser card in PCIe Riser 1</li> <li>• Three half-height riser cards in PCIe Riser 1, 2, 3</li> <li>• Two full-height riser cards</li> </ul>
InfiniBand	The PCIe bus slots in this server support the InfiniBand architecture.
Expansion Slots	<p>Three half-height riser slots</p> <ul style="list-style-type: none"> <li>• Riser 1 (controlled by CPU 1): One x16 PCIe Gen4 Slot, (Cisco VIC), half-height, 3/4 length</li> <li>• Riser 2 (controlled by CPU 1): One x16 PCIe Gen4 Slot, electrical x8, half-height, 3/4 length</li> <li>• Riser 3 (controlled by CPU 1): One x16 PCIe Gen4 Slot, (Cisco VIC), half-height, 3/4 length</li> </ul> <p>Two full-height riser slots</p> <ul style="list-style-type: none"> <li>• Riser 1 (controlled by CPU 1): One x16 PCIe Gen4 Slot, (Cisco VIC), full-height, 3/4 length</li> <li>• Riser 3 (controlled by CPU 1): One x16 PCIe Gen4 Slot, (Cisco VIC), full-height, 3/4 length</li> </ul>

Feature	Description
Interfaces	<p>Rear panel:</p> <ul style="list-style-type: none"> <li>• One 1Gbase-T RJ-45 management port</li> <li>• One RS-232 serial port (RJ45 connector)</li> <li>• One DB15 VGA connector</li> <li>• Two USB 3.0 port connectors</li> <li>• One flexible modular LAN on motherboard (mLOM) slot that can accommodate various interface cards</li> </ul> <p>Front panel:</p> <ul style="list-style-type: none"> <li>• One KVM console connector (supplies two USB 2.0 connectors, one</li> <li>• VGA DB15 video connector, and one serial port (RS232) RJ45 connector)</li> </ul>
Storage, front-panel	<p>The server is orderable in two different versions, each with a different front panel/drive-backplane configuration.</p> <ul style="list-style-type: none"> <li>• Cisco UCS C225 M6 Server (UCSC-C225-M6S)—Small form-factor (SFF) drives, with 10-drive backplane. Supports up to 10 2.5-inch SAS/SATA drives.</li> <li>• Cisco UCS C225 M6 Server (UCSC-C225-M6N)—SFF drives, with 10-drive backplane. Supports up to 10 2.5-inch NVMe-only SSDs in drive bays 1-10.</li> </ul>
Internal Storage Devices	<p>Apart from the front panel, server supports a mini-storage module connector on the motherboard supports a boot-optimized RAID controller carrier that holds up two SATA M.2 SSDs. Mixing different capacity SATA M.2 SSDs is not supported. It also supports USB3.0 TypeA connector.</p>
Integrated Management Processor	<p>Baseboard Management Controller (BMC) running Cisco Integrated Management Controller (CIMC) firmware.</p> <p>Depending on your CIMC settings, the CIMC can be accessed through the 1GE dedicated management port, the 1GE/10GE LOM ports, or a Cisco virtual interface card (VIC).</p> <p>CIMC manages certain components within the server, such as the Cisco 12G SAS HBA.</p>

Feature	Description
Storage Controllers	<p>The Cisco 12G SAS RAID controller or Cisco 12G SAS HBA plugs into a dedicated slot. Only one of these at a time can be used at a time.</p> <ul style="list-style-type: none"><li>• Cisco 12G SAS RAID controller<ul style="list-style-type: none"><li>• RAID support (RAID 0, 1, 5, 6, 10, 50, 60, SRAID0, and JBOD mode)</li><li>• Supports up to 10 internal SAS/SATA drives</li><li>• Plugs into drive backplane</li></ul></li><li>• Cisco 12G SAS HBA<ul style="list-style-type: none"><li>• No RAID support</li><li>JBOD/Pass-through Mode support</li><li>Supports up to 10 SAS/SATA internal drives</li><li>Plugs into drive backplane</li></ul></li></ul>
Modular LAN over Motherboard (mLOM) slot	<p>The dedicated mLOM slot on the motherboard can flexibly accommodate the following cards:</p> <ul style="list-style-type: none"><li>• Cisco Virtual Interface Cards (VICs)</li></ul>
Intersight	Intersight provides server management capabilities

