



CHAPTER 1

Overview

This chapter provides an overview of the Cisco UCS C240 server features.

[External Features Overview, page 1-1](#)

[Summary of Server Features, page 1-5](#)

External Features Overview

The figures in this chapter show an overview of external server features.

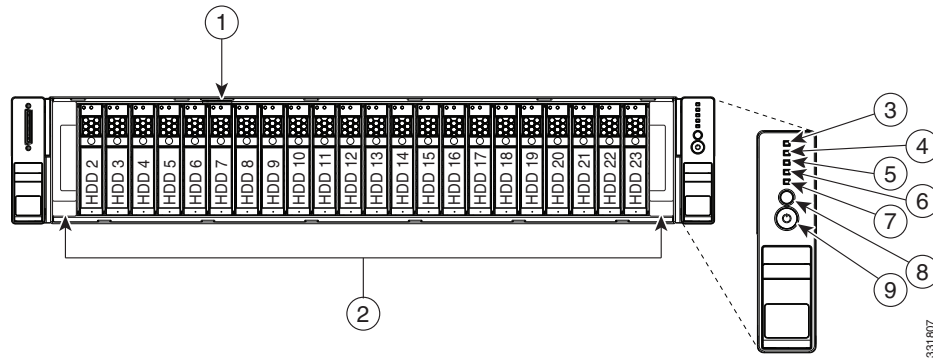
(Internal server features are illustrated in [Figure 3-5 on page 3-9](#).)

The server is orderable in three different versions, each with one of three different front panel/backplane configurations:

- Cisco UCS C240 (small form-factor (SFF) drives, with 24-drive backplane and expander). Holds up to twenty-four 2.5-inch hard drives or solid state drives.
- Cisco UCS C240 (small form-factor (SFF) drives, with 16-drive backplane, no expander). Holds up to sixteen 2.5-inch hard drives or solid state drives.
- Cisco UCS C240 (large form-factor (LFF) drives, with 12-drive backplane and expander). Holds up to twelve 3.5-inch hard drives.

Figure 1-1 shows the front panel features of the small form-factor drives version of the server. This version of the server can be ordered with either a 16-drive backplane or a 24-drive backplane with an expander. When the 16-drive backplane is installed, only the first 16 drive bays are used.

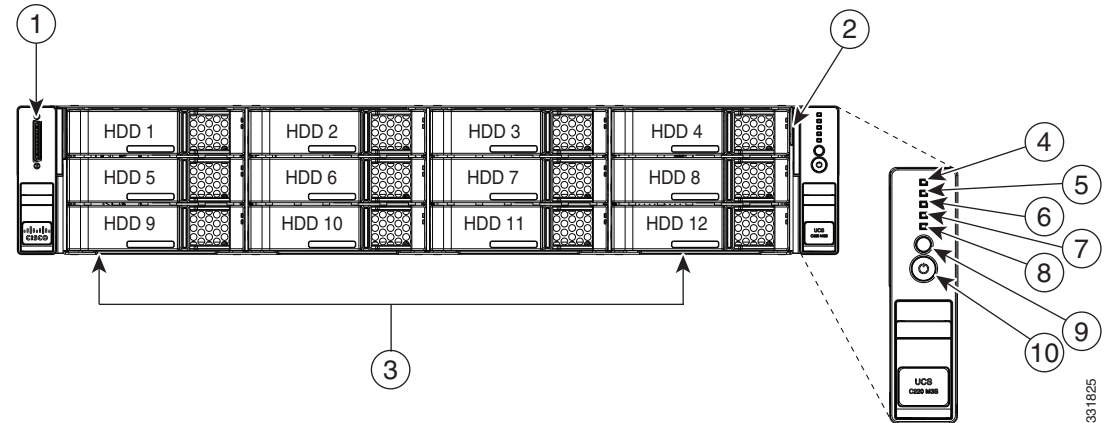
Figure 1-1 Cisco UCS C240 Server (Small Form-Factor Drives) Front Panel Features



1	KVM connector (used with KVM cable that provides two USB 2.0, one VGA, and one serial connector)	6	Temperature status LED
2	Pull-out asset tag	7	Fan status LED
3	Drives, hot-swappable (up to 24 2.5-inch drives)	8	System status LED
4	Network link activity LED	9	Identification button/LED
5	Power supply status LED	10	Power button/power status LED

Figure 1-2 shows the front panel features of the Large Form-Factor drives version of the server. This version of the server has a 12-drive backplane with an expander.

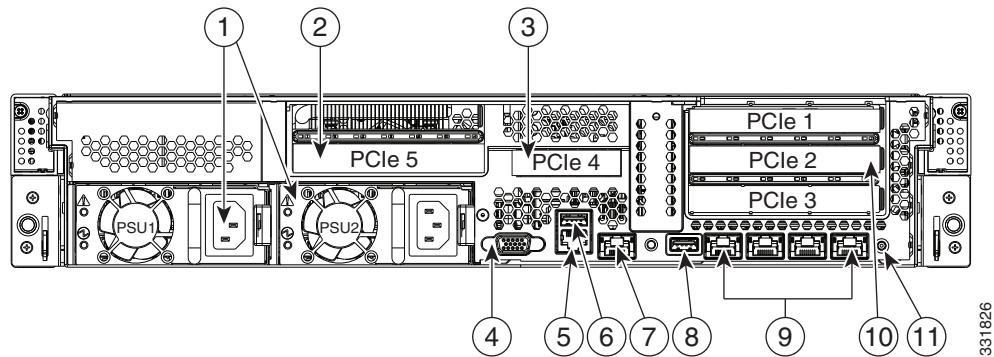
Figure 1-2 Cisco UCS C240 Server (Large Form-Factor Drives) Front Panel Features



1	KVM connector (used with KVM cable that provides two USB 2.0, one VGA, and one serial connector)	6	Temperature status LED
2	Pull-out asset tag	7	Fan status LED
3	Drives, hot-swappable (up to twelve 3.5-inch drives)	8	System status LED
4	Network link activity LED	9	Identification button/LED
5	Power supply status LED	10	Power button/power status LED

Figure 1-3 shows the rear panel features of the server (identical for all versions of the server).

Figure 1-3 Cisco UCS C240 Server Rear Panel Features



1	Power supplies (two)	7	1-Gb Ethernet dedicated management port
2	PCIe slot on riser 2: PCIe 5—full-height, 3/4-length, x16 lane)	8	USB 2.0 port
3	PCIe slot on riser 2: PCIe 4—half-height, 3/4-length, x8 lane)	9	Quad 1-Gb Ethernet ports (LAN1, LAN2, LAN3, and LAN4)
4	VGA video connector	10	PCIe slots on riser 1: PCIe 1—full-height, half-length, x8 lane PCIe 2—full-height, half-length, x16 lane PCIe 3—full-height, half-length, x8 lane
5	Serial port (RJ-45 connector)	11	Rear Identification button/LED
6	USB port		—

Summary of Server Features

[Table 1-1](#) lists a summary of server features.

Table 1-1 Cisco UCS C240 Server Features

Chassis	Two rack-unit (2RU) chassis.
Processors	Two Intel Xeon E5-2600 Series processors.
Memory	The server provides 24 DIMM ¹ sockets on the motherboard. This provides a possible total of up to 768 GB of industry-standard DDR3 ² memory.
Multi-bit error protection	This server supports multi-bit error protection.
Baseboard management	BMC, running Cisco Integrated Management Controller (CIMC) firmware. Depending on your CIMC settings, the CIMC can be accessed through the 1-Gb Ethernet dedicated management port, the 1-Gb Ethernet LOM ports, or a Cisco virtual interface card.
Network and management I/O	The server provides these connectors: <ul style="list-style-type: none"> • One 1-Gb Ethernet dedicated management port • Four 1-Gb Base-T Ethernet LAN ports • One RS-232 serial port (RJ-45 connector) • One 15-pin VGA³ connector • Two USB⁴ 2.0 connectors • One front-panel KVM connector that is used with the included KVM cable, which provides two USB, one VGA, and one serial connector.
WoL	The 1-Gb Base-T Ethernet LAN ports support the wake-on-LAN (WoL) standard.
Power	Two power supplies: Optionally both 650 W each or both 1200 W each. Do not mix power supply types in the server. Redundant as 1+1. See Power Specifications, page A-2 .
ACPI	This server supports the advanced configuration and power interface (ACPI) 4.0 standard.
Cooling	Six hot-swappable fan modules for front-to-rear cooling.
PCIe I/O	Five horizontal PCIe ⁵ expansion slots on two risers. See Replacing a PCIe Card, page 3-40 for specifications of the slots.
InfiniBand	The bus slots in this server support the InfiniBand architecture.

Table 1-1 Cisco UCS C240 Server Features (continued)

Storage	<p>Drives are installed into front-panel drive bays that provide hot-pluggable access. The server is orderable in three different versions, each with one of three different front panel/backplane configurations:</p> <ul style="list-style-type: none"> • Cisco UCS C240 (small form-factor (SFF) drives, with 24-drive backplane and expander). Holds up to twenty-four 2.5-inch hard drives or solid state drives. • Cisco UCS C240 (small form-factor (SFF) drives, with 16-drive backplane, no expander). Holds up to sixteen 2.5-inch hard drives or solid state drives. • Cisco UCS C240 (large form-factor (LFF) drives, with 12-drive backplane and expander). Holds up to twelve 3.5-inch hard drives. <p>The server also contains one internal USB port on the motherboard that you can use with a USB thumb drive for additional storage.</p>
Cisco Flexible Flash drives	<p>The server can be ordered with up to two optional Cisco Flexible Flash drives (SD cards).</p> <p>This drive is pre-loaded with four virtual drives. The four virtual drives contain, respectively, the Cisco Server Configuration Utility, the Cisco Host Upgrade Utility, the Cisco C-Series server drivers set, and a blank VD on which you can install an OS or a hypervisor. See Replacing a Cisco Flexible Flash Card, page 3-61 for more information.</p> <p>The two flash drives can be configured in a RAID 1 configuration to protect your hypervisor VD.</p>
Disk Management (RAID)	<p>For a list of RAID⁶ controller options and required cabling, see RAID Controller Considerations, page C-1.</p>
RAID Backup	<p>There are two mounting points inside the chassis that can be used for RAID backup units. This unit can be either of the following:</p> <ul style="list-style-type: none"> • The LSI battery backup unit that can be used with LSI MegaRAID cards. • The SuperCap power module that can be used with LSI MegaRAID-CV cards.
Video	<p>Resolution up to 1600x1200, 16bpp at 60 Hz. Up to 256 MB of video memory.</p>

1. DIMM = dual inline memory module
2. DDR3 = double data rate, type 3
3. VGA = video graphics array
4. USB = universal serial bus
5. PCIe = peripheral component interconnect express
6. RAID = redundant array of independent disks