

# Overview

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This chapter provides an overview of the Cisco UCS C220 server features.

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## External Features Overview

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

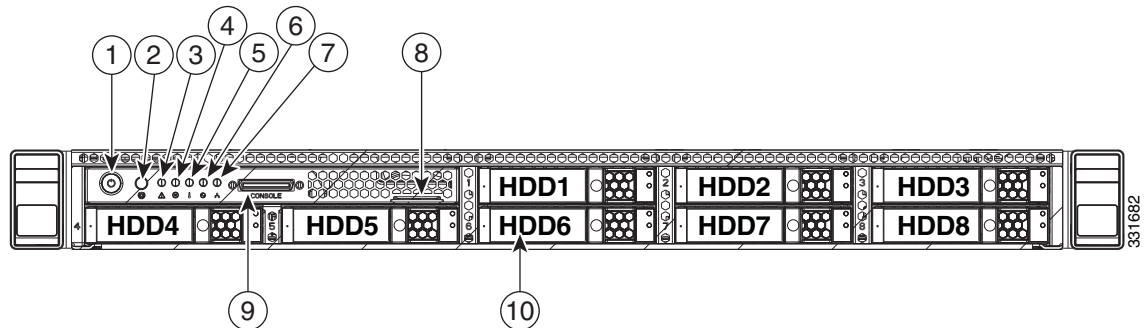
(Internal server features are illustrated in [Figure 3-5 on page 3-9](#).)

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

- Cisco UCS C220 (small form-factor (SFF) drives, with 8-drive backplane).  
Holds up to eight 2.5-inch hard drives or solid state drives.
- Cisco UCS C220 (large form factor (LFF) drives, with 4-drive backplane).  
Holds up to four 3.5-inch hard drives.

Figure 1-1 shows the front panel features of the SFF drives version of the server.

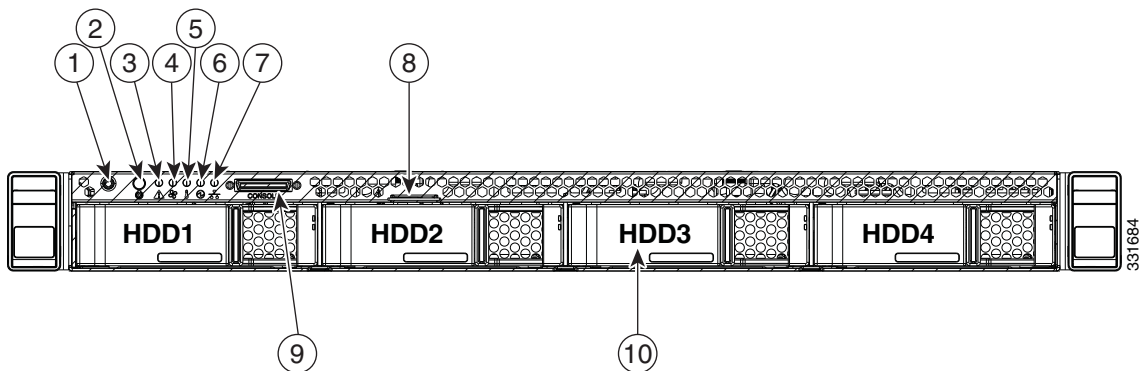
**Figure 1-1 Cisco UCS C220 Server (Small Form Factor Drives) Front Panel Features**



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

Figure 1-2 shows the front panel features of the LFF drives version of the server.

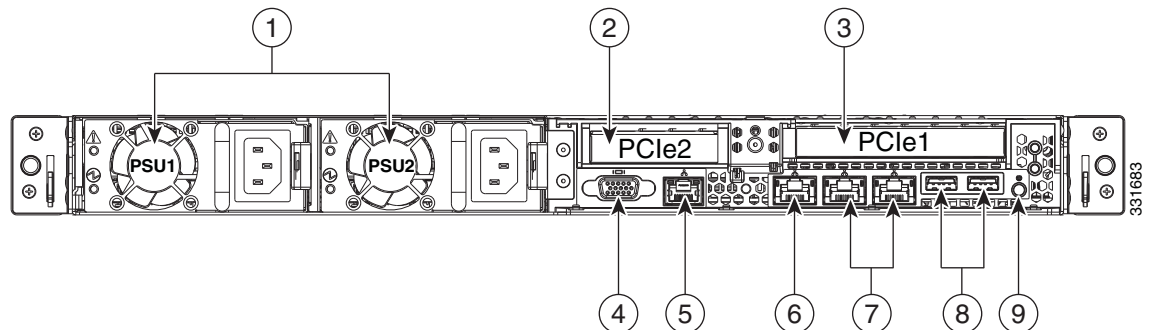
**Figure 1-2 Cisco UCS C220 Server (Large Form Factor Drives) Front Panel Features**



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

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

**Figure 1-3 Rear Panel Features**



1	Power supplies (two)	6	1-Gb Ethernet dedicated management port
2	Low-profile PCIe slot 2 on riser (half-height, half-length, x8 lane)	7	Dual 1-Gb Ethernet ports (LAN1 and LAN2)
3	Standard-profile PCIe slot on riser (full-height, half-length, x16 lane)	8	USB ports
4	VGA video connector	9	Rear Identification button/LED
5	Serial port (RJ-45 connector)		–

## Summary of Server Features

Table 1-1 lists the features of the server.

**Table 1-1 Cisco UCS C220 Server Features**

Chassis	One rack-unit (1RU) chassis.
Processors	Two Intel Xeon E5-2600 Series processors.
Memory	The server provides 16 DIMM <sup>1</sup> sockets on the motherboard. This provides a possible total of up to 512 GB of industry-standard DDR3 <sup>2</sup> 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 dual 1-Gb Ethernet LOM ports, or a Cisco virtual interface card.
Cooling	Five hot-swappable fan modules for front-to-rear cooling.
PCIe I/O	Two horizontal PCIe <sup>3</sup> expansion slots on risers. See <a href="#">Replacing a PCIe Card</a> , page 3-36 for slot specifications.
InfiniBand	The bus slots in this server support the InfiniBand architecture.

**Table 1-1 Cisco UCS C220 Server Features (continued)**

Network and management I/O	<p>The server provides these rear-panel connectors:</p> <ul style="list-style-type: none"> <li>• One 1-Gb Ethernet dedicated management port</li> <li>• Two 1-Gb Base-T Ethernet ports</li> <li>• One RS-232 serial port (RJ-45 connector)</li> <li>• One 15-pin VGA<sup>4</sup> connector</li> <li>• Two USB<sup>5</sup> 2.0 connectors</li> <li>• One front-panel KVM connector that is used with the included KVM cable, which provides two USB, one VGA, and one serial connector.</li> </ul>
WoL	The 1-Gb Base-T Ethernet LAN ports support the wake-on-LAN (WoL) standard.
Power	<p>Up to two power supplies, both either 450W or 650W each. Redundant as 1+1. Do not mix power supply types in the server.</p> <p>See <a href="#">Power Specifications, page A-3</a> for more information on power supplies.</p>
ACPI	This server supports the advanced configuration and power interface (ACPI) 4.0 standard.
Storage	<p>Drives are installed into front-panel drive bays that provide hot-pluggable access. There are two versions of the server front panel and backplane:</p> <ul style="list-style-type: none"> <li>• Small Form Factor—The server can hold up to eight 2.5-inch SAS<sup>6</sup> or SATA<sup>7</sup> hard drives or solid state drives.</li> <li>• Large Form Factor—The server can hold up to four 3.5-inch SAS or SATA hard drives.</li> </ul> <p>The server also contains one internal USB 2.0 port on the motherboard that you can use with a USB thumb drive for additional storage.</p> <p>The server also contains two internal bays for SD cards.</p>
Disk Management (RAID)	For a list of supported RAID controller options, see <a href="#">RAID Controller Considerations, page C-1</a> .
RAID Backup	<p>There is one mounting point inside the chassis that can be used for a RAID backup unit when using an LSI MegaRAID card. This unit can be either of the following:</p> <ul style="list-style-type: none"> <li>• The optional LSI BBU that can be used with LSI MegaRAID cards.</li> <li>• The SuperCap Power Module that can be used with LSI MegaRAID-CV cards.</li> </ul>
Video	Resolution up to 1600x1200, 16bpp at 60 Hz. Up to 256 MB of video memory.

1. DIMM = dual inline memory module
2. DDR3 = double data rate, type 3
3. PCIe = peripheral component interconnect express
4. VGA = video graphics array
5. USB = universal serial bus
6. SAS = serial attached SCSI
7. SATA = serial advanced technology attachment