Overview

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Overview

This document includes information of components that may not be included in the Cloud Services Platform (CSP) 5200 such as, DC Power supplies, and NVMe drives.

The CSP 5200 platform currently supports:

Small form-factor (SFF) drives, with 10-drive backplane. Supports up to 10 2.5 in. (6.35 cm) SAS/SATA drives. Although there are ten disk drive-bays, only eight are used. This usage is because the CSP platform uses RAID 10, which uses disks in multiple of fours.

External Features

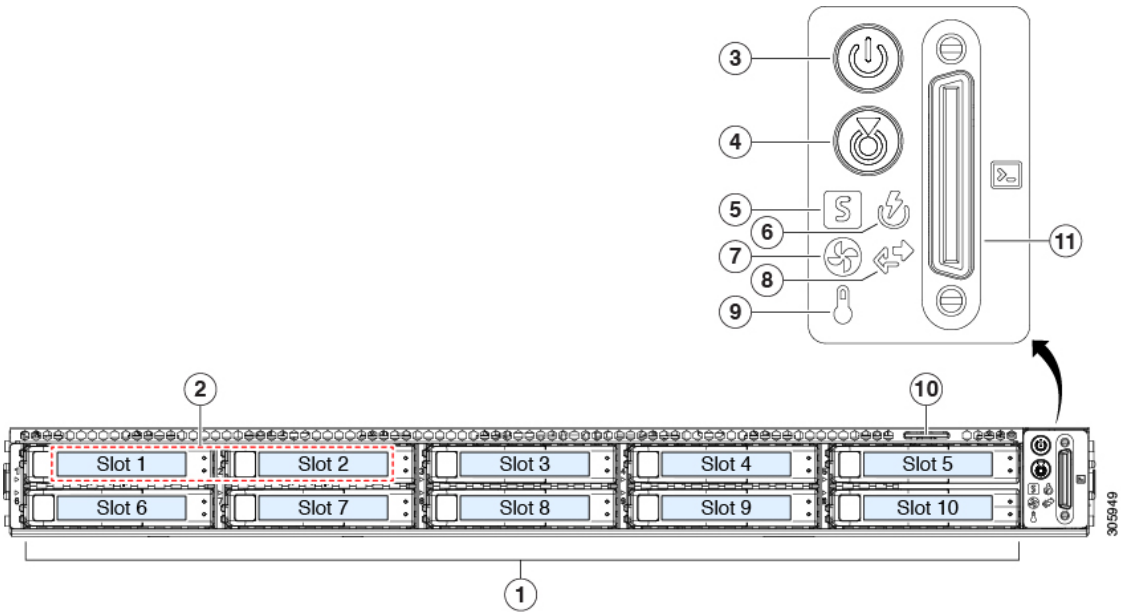
This topic shows the external features of the server versions.

Cisco CSP 5200 Server (SFF Drives) 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 CSP 5200 Server (SFF Drives) Front Panel



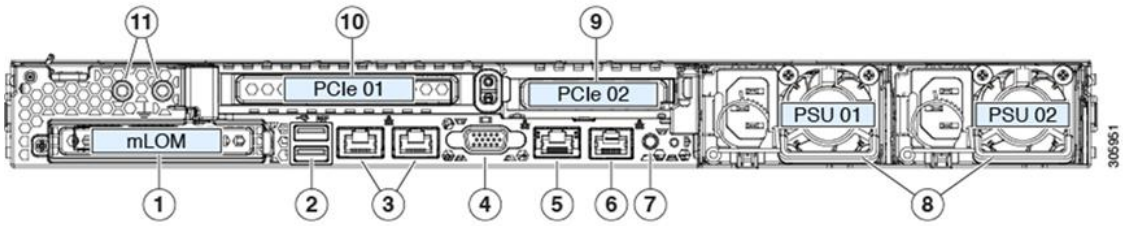
1	Drive bays 1 – 10 support SAS/SATA hard disk drives (HDDs) and solid state drives (SSDs)	**7**	Fan status LED
2	Disk drive bays	**8**	Network link activity LED
3	Power button/power status LED	**9**	Temperature status LED
4	Unit identification button/LED	**10**	Pull-out asset tag
5	System status LED	**11**	KVM connector (used with KVM cable that provides one DB-15 VGA, one DB-9 serial, and two USB connectors)
6	Power supply status LED	-	

Cisco CSP 5200 Server Rear Panel Features

The rear panel features are the same for all versions of the server.

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

Figure 2: Cisco CSP 5200 Server Rear Panel

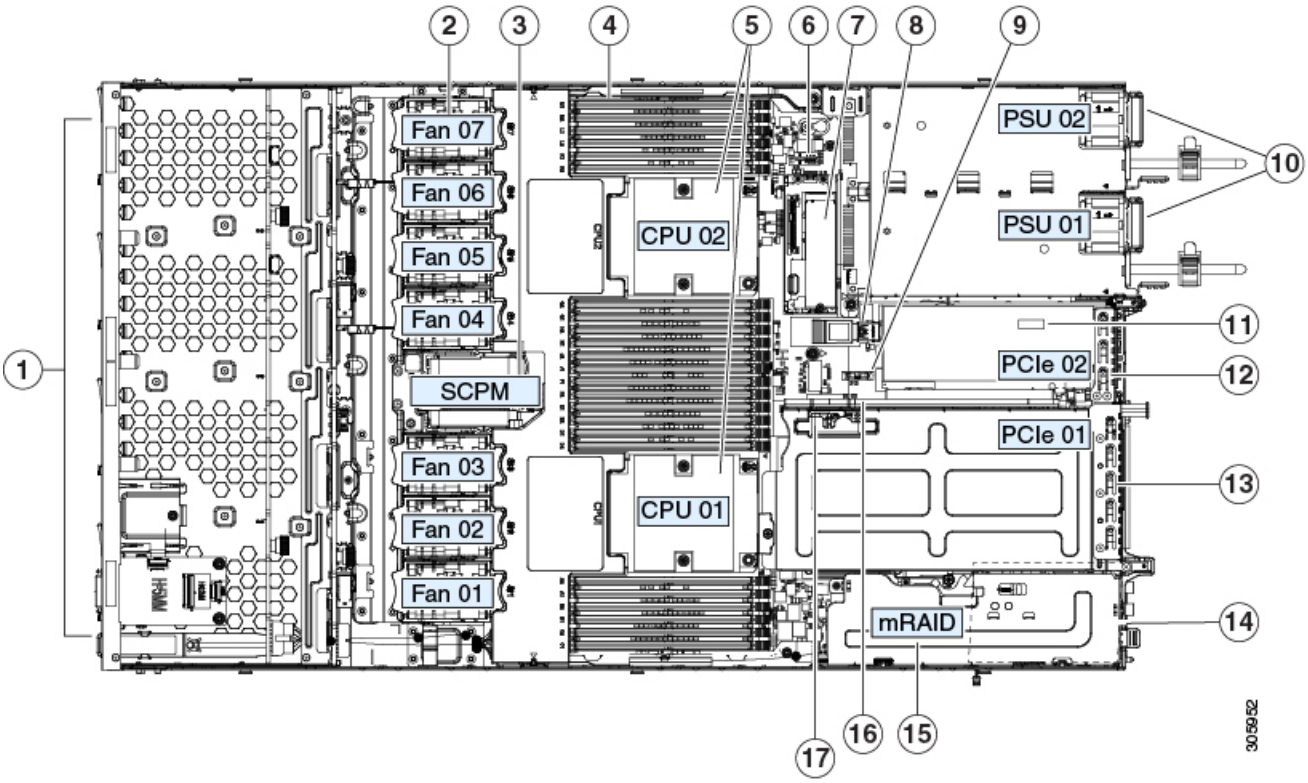


1	Modular LAN-on-motherboard (mLOM) card bay (x16 PCIe lane)	**7**	Rear unit identification button/LED
2	USB 3.0 ports (two)	**8**	Power supplies (two, redundant as 1+1)
3	Dual 1-Gb/10-Gb Ethernet ports (LAN1 and LAN2) The dual LAN ports can support 1 Gbps and 10 Gbps, depending on the link partner capability.	**9**	PCIe riser 2/slot 2 (x16 lane) Includes PCIe cable connectors for front-loading NVMe SSDs (x8 lane)
4	VGA video port (DB-15 connector)	**10**	PCIe riser 1/slot 1 (x16 lane)
5	1-Gb Ethernet dedicated management port	**11**	Threaded holes for dual-hole grounding lug
6	Serial 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 Cisco CSP 5200 with the top cover removed.

Figure 3: Cisco CSP 5200, Serviceable Component Locations



1	Front-loading drive bays 1–10 support SAS/SATA drives.	**10**	Power supplies (hot-swappable when redundant as 1+1)
2	Cooling fan modules (seven, hot-swappable)	**11**	Trusted platform module (TPM) socket on motherboard (not visible in this view)
3	Supercap unit mounting bracket (RAID backup)	**12**	PCIe riser 2/slot 2 (half-height, x16 lane)
4	DIMM sockets on motherboard (12 per CPU)	**13**	PCIe riser 1/slot 1 (full-height, x16 lane) Includes socket for Micro-SD card
5	CPUs and heatsinks (up to two)	**14**	Modular LOM (mLOM) card bay on chassis floor (x16 PCIe lane), not visible in this view
6	Mini storage module socket Supports an SD card module with two SD card slots.	**15**	Modular RAID (mRAID) riser supports: Hardware RAID controller card
7	Chassis intrusion switch (optional)	**16**	PCIe cable connectors for front-loading NVMe SSDs on PCIe riser 2
8	Internal USB 3.0 port on motherboard	**17**	Micro-SD card socket on PCIe riser 1
9	RTC battery, vertical socket	**-**	

The Technical Specifications Sheets for all versions of this server, which include supported component part numbers, are at Cisco CSP 5000 Servers Technical Specifications Sheets (scroll down to *Technical Specifications*).

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 CPUs from the Intel Xeon Processor Scalable Family. This includes CPUs from the following series: • Intel Xeon Silver 4XXX Processors • Intel Xeon Gold 5XXX Processors • Intel Xeon Gold 6XXX Processors • Intel Xeon Platinum 8XXX Processors
Memory	24 DDR4 DIMM sockets on the motherboard (12 each CPU)
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.

Feature	Description
Modular LOM	One dedicated socket (x16 PCIe lane) that can be used to add an mLOM card for additional rear-panel connectivity.
WoL	The two 1-Gb/10-Gb BASE-T Ethernet LAN ports support the wake-on-LAN (WoL) standard.
Power	Two power supplies, redundant as 1+1: AC power supplies 770 W AC each
ACPI	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. See PCIe Slot Specifications for specifications of the slots.
Storage, front-panel	The server is orderable in the following version: Cisco CSP 5200—Small form-factor (SFF) drives, with 10-drive backplane. Supports up to 10 2.5-inch SAS/SATA drives.
Storage management	The server has a dedicated internal mRAID riser that supports the following storage-controller option: A PCIe-style Cisco modular RAID controller card (SAS/SATA). For a detailed list of storage controller options, see Supported Storage Controllers and Cables.
RAID backup	The server has a mounting bracket near the cooling fans for the supercap unit that is used with the Cisco modular RAID controller card.
Integrated video	Integrated VGA video.