



Overview

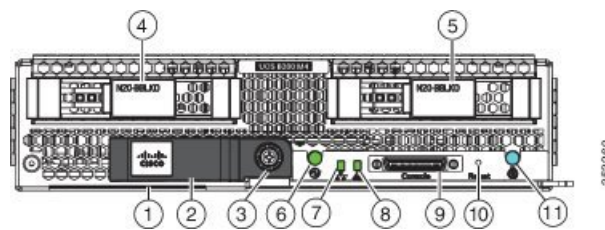
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Cisco UCS B200 M4 Blade Server

The Cisco UCS B200 M4 is a density-optimized, half-width blade server that supports two CPU sockets for Intel E5-2600 v4 and v3 series CPUs and up to 24 DDR4 DIMMs. It supports one modular LOM (dedicated slot for Cisco's Virtual Interface Card) and one mezzanine adapter. In addition, the UCS B200 M4 supports an optional FlexStorage module that supports up to 2 SAS or SATA hard drives or solid state disks (SSDs). The UCS B200 M4 also supports PCIe NVMe SSDs. You can install up to eight UCS B200 blade servers in a UCS chassis, mixing with other models of Cisco UCS blade servers in the chassis if desired.

Figure 1: Cisco UCS B200 M4 Front Panel



1	Asset pull tag Each server has a blank plastic tag that pulls out of the front panel which is provided so that you can add your own asset tracking label without interfering with the intended air flow.	2	Blade ejector handle
3	Ejector captive screw	4	Hard drive bay 1

5	Hard drive bay 2	6	Power button and LED
7	Network link status LED	8	Blade health LED
9	Local console connector	10	Reset button access
11	Locator button and LED		

External Features Overview




The features of the blade server that are externally accessible are described in this section.




LEDs

Server LEDs indicate whether the blade server is in active or standby mode, the status of the network link, the overall health of the blade server, and whether the server is set to give a blinking blue locator light from the locator button.

The removable drives also have LEDs indicating hard disk access activity and disk health.

Table 1: Blade Server LEDs

LED	Color	Description
Power 	Off	Power off.
	Green	Main power state. Power is supplied to all server components and the server is operating normally.
	Amber	Standby power state. Power is supplied only to the service processor of the server so that the server can still be managed. Note The front-panel power button is disabled by default. It can be re-enabled through Cisco UCS Manager. After it's enabled, if you press and release the front-panel power button, the server performs an orderly shutdown of the 12 V main power and goes to standby power state. You cannot shut down standby power from the front-panel power button. See the Cisco UCS Manager Configuration Guides for information about completely powering off the server from the software interface.
Link 	Off	None of the network links are up.
	Green	At least one network link is up.
Health 	Off	Power off.
	Green	Normal operation.
	Amber	Minor error.
	Blinking Amber	Critical error.

LED	Color	Description
Blue locator button and LED 	Off	Blinking is not enabled.
	Blinking blue 1 Hz	Blinking to locate a selected blade—If the LED is not blinking, the blade is not selected. You can control the blinking in UCS Manager or by using the blue locator button/LED.
Activity (Disk Drive) 	Off	Inactive.
	Green	Outstanding I/O to disk drive.
Health (Disk Drive) 	Off	Can mean either no fault detected or the drive is not installed.
	Flashing Amber 4 hz	Rebuild drive active. If the Activity LED is also flashing green, a drive rebuild is in progress.
	Amber	Fault detected.

Buttons

The Reset button is recessed in the front panel of the server. You can press the button with the tip of a paper clip or a similar item. Hold the button down for five seconds, and then release it to restart the server if other methods of restarting do not work.

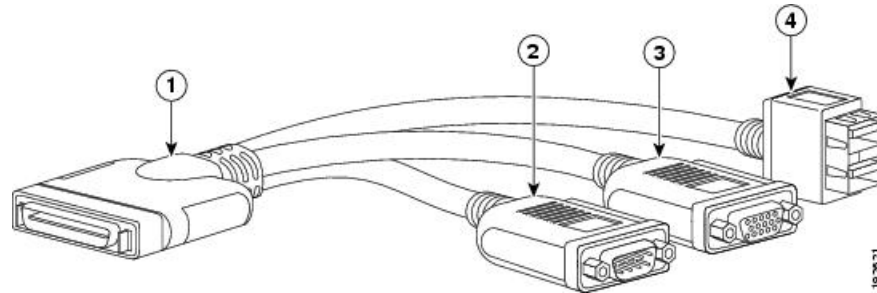
The locator function for an individual server may get turned on or off by pressing the locator button/LED.

The front-panel power button is disabled by default. It can re-enabled through Cisco UCS Manager. After it's enabled, The power button allows you to manually take a server temporarily out of service but leave it in a state where it can be restarted quickly. If the desired power state for a service profile associated with a blade server is set to "off," using the power button or Cisco UCS Manager to reset the server will cause the desired power state of the server to become out of sync with the actual power state and the server may unexpectedly shut down at a later time. To safely reboot a server from a power-down state, use the Boot Server action in Cisco UCS Manager.

Local Console Connection

The local console connector allows a direct connection to a blade server to allow operating system installation and other management tasks to be done directly rather than remotely. The port uses the KVM dongle cable that provides a connection into a Cisco UCS blade server; it has a DB9 serial connector, a VGA connector for a monitor, and dual USB ports for a keyboard and mouse. With this cable, you can create a direct connection to the operating system and the BIOS running on a blade server. A KVM cable ships standard with each blade chassis accessory kit.

Figure 2: KVM Cable for Blade Servers



1	Connector to blade server local console connection	2	DB9 serial connector
3	VGA connector for a monitor	4	2-port USB connector for a mouse and keyboard

Secure Digital Cards

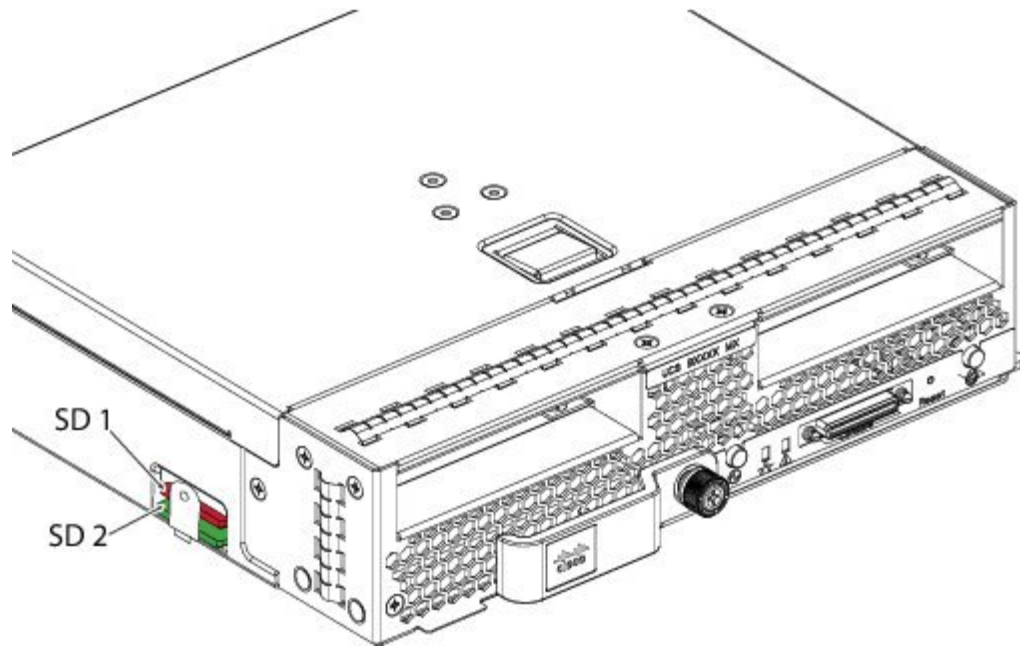
Secure Digital (SD) card slots are provided and one or more SD cards can be populated. If two SD cards are populated, they can be used in a mirrored mode.



Note Do not mix different capacity cards in the same server.

The SD cards can be used to store operating system boot images or other information. Once the server has been removed from the chassis, you can access the SD card slots by rotating the latch up so that it does not cover the slots. Remove or insert the SD cards as needed. Either or both slots may be used. Rotate the latch down to cover the slots before installing the server in the chassis.

Figure 3: SD Card Slots



Storage Module

The Cisco UCS B200 M4 blade server has an optional storage module that can be configured with SAS or SATA hard drives or solid state disks (SSDs). Because the UCS B200 M4 can be used without disk drives, it does not necessarily come with the storage module installed. A blanking panel (UCSB-LSTOR-BK) can be used to cover an empty drive bay. Order the same number of blanking panels as there are empty drive bays.

For information on installing the storage module, see [Installing the FlexStorage Module](#).