Cisco UCS B200 M6 Blade Server

Contents

For remote sites or data centers, the enterprise-class Cisco UCS® B200 M6 Blade Server delivers market-leading performance, versatility, and density without compromise for workloads ranging from web infrastructure to distributed databases.

Product overview

The Cisco UCS B200 M6 Blade Server delivers performance, flexibility, and optimization for deployments in data centers, in the cloud, and at remote sites. This enterprise-class server offers market-leading performance, versatility, and density without compromise for workloads, including Virtual Desktop Infrastructure (VDI), web infrastructure, distributed databases, converged infrastructure, and enterprise applications such as Oracle and SAP HANA. The B200 M6 server can quickly deploy stateless physical and virtual workloads through programmable, easy-to-use Cisco UCS Manager and Cisco Intersight™ and simplified server access through Cisco® SingleConnect technology. It includes:

- 3rd Gen Intel® Xeon® Scalable and processors with up to 40 cores per socket

- Up to 32 DDR4 DIMMs for improved performance with up to 16 DIMM slots ready for Intel Optane™ PMem

- Up to 2 Small Form-Factor (SFF) drives or up to 4 M.2 SATA drives

- Up to 80 Gbps of I/O throughput

Features and benefits

Main features

The Cisco UCS B200 M6 Blade Server is a half-width blade. Up to eight servers can reside in the 6-Rack-Unit (6RU) Cisco UCS 5108 Blade Server Chassis, offering one of the highest densities of servers per rack unit of blade chassis in the industry. You can configure the B200 M6 to meet your local storage requirements without having to buy, power, and cooling components that you do not need.

The Cisco UCS B200 M6 provides these main features:

- Up to two 3rd Gen Intel Xeon Scalable processors with up to 40 cores per CPU

- 32 DIMM slots for industry-standard DDR4 memory at speeds up to 3200 MHz, with up to 8 TB of total memory when using 512-GB DIMMs. Up to 16 DIMM slots ready for Intel Optane DC PMem to accommodate up to 12 TB of Intel Optane DC persistent memory

- Modular LAN on Motherboard (mLOM) card with Cisco UCS Virtual Interface Card (VIC) 1440, a 2-port, 40-gigabit Ethernet (GE), Fibre Channel over Ethernet (FCoE)–capable mLOM mezzanine adapter

- Optional rear mezzanine VIC with two 40-Gbps unified I/O ports or two sets of 4 x 10-Gbps unified I/O ports, delivering 80 Gbps to the server; adapts to either 10- or 40-Gbps fabric connections

- Two optional, hot-pluggable, Solid-State Drives (SSDs), or Non-Volatile Memory Express (NVMe) 2.5-inch drives with a choice of enterprise-class Redundant Array of Independent Disks (RAIDs) or pass-through controllers or 4 M.2 SATA drives for flexible boot and local storage capabilities

- Support for one rear storage mezzanine card

Product specifications

Table 1.   Product specifications

Item	Specifications
Processors	Up to 2 3rd Gen Intel Xeon Scalable processors (1 or 2)
Memory	32 DDR4 DIMM slots: 16, 32, 64, 128 at up to 3200 MHz
Intel Optane DC persistent memory	16 DIMM slots: 128, 256, and 512 GB at up to 3200 MHz
mLOM	mLOM slot for Cisco UCS VIC 1440
Mezzanine adapter (rear)	1 rear mezzanine adapter for: • Cisco UCS VIC 1480 mezzanine card • Cisco port expander mezzanine card
Mezzanine adapter (front)	1 front mezzanine adapter for: • Cisco FlexStorage 12-Gbps SAS RAID Controller • Cisco FlexStorage 12-Gbps SAS RAID Controller with 2-GB cache • Cisco FlexStorage M.2 Boot RAID Controller
Internal storage	2 hot-pluggable front-access 7 mm form factor drives: • **SSD:** Enterprise performance and value SSDs with up to 7.6 TB per drive • **NVMe:** Up to 7.7 TB per drive **Or 4** • **M.2:** Upto 960GB per drive **Note:** Drives require a RAID or pass-through controller in the front mezzanine adapter slot.
Management	Cisco Intersight software Cisco UCS Manager Release 4.2(1) Cisco UCS Central Software Cisco UCS Director Cisco UCS Performance Manager
Temperature: operating	50° to 95°F (10° to 35°C)
Temperature: nonoperating	-40° to 149°F (-40° to 65°C)
Humidity: operating	5% to 93% noncondensing
Humidity: nonoperating	5% to 93% noncondensing
Altitude: operating	0 to 10,000 ft (0 to 3000m); maximum ambient temperature decreases by 1°C per 300m
Altitude: nonoperating	40,000 ft (12,000m)

System requirements

Table 2. System requirements

Item	Requirements
Blade chassis	Cisco UCS 5108 Blade Server Chassis
Fabric interconnect	Cisco UCS, 6332- 16UP, 6332, 6324, and 6454 fabric interconnects
Fabric extender	Cisco UCS 2204, 2208, 2304, 2408 fabric extenders
Cisco UCS Manager software	Current: Release 4.2(1) or later; refer to the Release Notes for supported releases for this platform.

Ordering information

Table 3 provides ordering information for the Cisco UCS B200 M6.

Table 3. Ordering information

Part number	Description
UCSB-B200-M6	Cisco UCS B200 M6 Blade w/o CPU, memory, HDD, mezzanine
UCSB-B200-M6-U	Cisco UCS B200 M6 Blade w/o CPU, memory, HDD, mezzanine (UPG)
UCSB-B200-M6-CH	DISTI: Cisco UCS B200 M6 w/o CPU, memory, drive bays, HDD, mezzanine For information about installing or upgrading your server, see the Hardware Installation Guide. For ordering information, see the B200 M6 spec sheet.

Warranty information

Cisco UCS B200 M6 Blade Servers have a three-year next-business-day (NBD) hardware warranty and a 90-day software warranty.

Augmenting the Cisco Unified Computing System™ (Cisco UCS) warranty, Cisco Smart Net Total Care® and Cisco Solution Support services are part of Cisco's technical services portfolio. Cisco Smart Net Total Care combines Cisco's industry-leading and award-winning foundational technical services with an extra level of actionable business intelligence that is delivered to you through the smart capabilities in the Cisco Smart Net Total Care portal. For more information, please refer to:
https://www.cisco.com/c/en/us/support/services/smart-net-total-care/index.html.

Cisco Solution Support includes both Cisco product support and solution-level support, resolving complex issues in multivendor environments on average 43 percent more quickly than with product support alone. Cisco Solution Support is a critical element in data center administration, helping rapidly resolve any issue encountered while maintaining performance, reliability, and return on investment.

This service centralizes support across your multivendor Cisco environment for both our products and solution partner products that you have deployed in your ecosystem. Whether there is an issue with a Cisco product or with a solution partner product, just call us. Our experts are the primary point of contact and own the case from first call to resolution. For more information, please refer to https://www.cisco.com/c/en/us/services/technical/solution-support.html.

Product sustainability

Information about Cisco's environmental, social, and governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability reporting.

Table 4.   Cisco environmental sustainability information

Sustainability topic		Reference
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries, and packaging	WEEE Compliance
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Sustainability Inquiries	Contact: csr_inquiries@cisco.com
Material	Product packaging weight and materials	Contact: environment@cisco.com

Product environmental information

Product environmental information for users per Commission Regulation (EU) 2019/424 https://www.cisco.com/web/dofc/22052832.pdf

Cisco and Partner Services

Cisco and our industry-leading partners deliver services that accelerate your transition to a Cisco UCS B-Series Blade Servers solution. Cisco Unified Computing Services can help you create an agile infrastructure, accelerate time to value, reduce costs and risks, and maintain availability during deployment and migration. After deployment, our services can help you improve performance, availability, and resiliency as your business needs evolve and help you further mitigate risk. For more information, visit https://www.cisco.com/go/unifiedcomputingservices.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital® financing makes it easier to get the right technology to achieve your objectives, enable business transformation, and help you stay competitive. We can help you reduce total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services, and complementary third-party equipment in easy, predictable payments. Learn more.

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