Cisco UCS C225 M8 Rack Server

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The Cisco UCS® C225 M8 Rack Server delivers record-breaking performance for space-constrained environments.

Product overview

The Cisco UCS C225 M8 Rack Server is a versatile general-purpose infrastructure and application server. This high-density, 1RU, single-socket rack server delivers industry-leading performance and efficiency for a wide range of workloads, including virtualization, collaboration, and bare-metal applications.



The Cisco UCS C225 M8 Rack Server extends the capabilities of the Cisco UCS rack server portfolio. It powers 5th Gen and 4th Gen AMD EPYC™ Processors with 150 percent more cores per socket designed using AMD's chiplet architecture. With advanced features such as AMD Infinity Guard, compute-intensive applications will see significant performance improvements and reap other benefits such as power and cost efficiencies.

You can deploy the Cisco UCS C-Series rack servers as standalone servers or as part of the Cisco Unified Computing System™ managed by Cisco Intersight® or Cisco UCS Manager to take advantage of Cisco® standards-based unified computing innovations that can help reduce your Total Cost of Ownership (TCO) and increase your business agility.

The C225 M8 rack server brings many new innovations to the Cisco UCS AMD rack server portfolio. With the introduction of PCIe Gen 5.0 for high-speed I/O, a DDR5 memory bus, and expanded storage capabilities, the server delivers significant performance and efficiency gains that will improve your application performance.

- Supports one 5th Gen or one 4th Gen AMD EPYC CPU, with up to 160 cores per socket
- Up to 12 DDR5 DIMMs for up to 3 TB of capacity using 256 GB DIMMs
- Up to 6000 MT/s DDR5 memory plus other speeds depending on the CPU installed
- Up to 3 PCIe 4.0 slots or up to 2 PCIe 5.0 slots, plus a modular LAN on motherboard (mLOM) / OCP slot
- Support for Cisco's virtual interface card, the Cisco UCS VIC 15000 Series adapters, as well as third-party NIC options
- UCS C225 M8S chassis: up to 10 SAS/SATA or NVMe disk drives
    - New tri-mode RAID controller supports SAS4 or NVMe hardware RAID
    - Option for up to 4 direct-attach NVMe SSDs
- UCS C225 M8N chassis: up to 10 direct attach NVMe SSDs
    - All 10 NVMe drives connected at PCIe Gen4 x4
- M.2 boot options
    - Up to two 960GB SATA M.2 drives with hardware RAID, or

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    - Up to two 960GB NVMe M.2 drives with NVMe hardware RAID
- Up to three GPUs supported
- Hybrid modular LOM/OCP 3.0
    - One dedicated Gen 4.0 x16 slot that can be used to add an mLOM or OCP 3.0 card for additional rear-panel connectivity
    - mLOM allows for Cisco UCS Virtual Interface Cards (VICs) without consuming a PCIe slot, supporting quad-port 10/25/50 Gbps or dual-port 40/100/200 Gbps network connectivity
    - OCP 3.0 slot features full out-of-band management for select adapters

Powering next-generation applications

The Cisco UCS C225 M8 Rack Server is well suited for a wide range of workloads, including:

- IT and web infrastructure
- High-performance virtual desktops
- Small and medium-sized and distributed databases
- AI inferencing
- Collaboration
- Enterprise high-performance applications

Cisco UCS C225 M8 Rack Servers can be deployed as standalone servers, part of a Cisco UCS–managed environment, or through Cisco Intersight. When used in combination with Cisco Intersight, the UCS C225 M8 brings the power and automation of unified computing to enterprise applications, including Cisco SingleConnect technology, drastically reducing switching and cabling requirements.

Cisco Intersight leverages the familiar capabilities of UCS Manager with service profiles, templates, and policy-based management to enable rapid deployment and help ensure deployment consistency. It also enables end-to-end server visibility, management, and control in both virtualized and bare-metal environments.

The Cisco Integrated Management Controller (IMC) delivers comprehensive out-of-band server management with support for many industry standards, including:

- Redfish Version 1.13.0 (2021.1 schema0)
- Intelligent Platform Management Interface (IPMI) v2.0
- Simple Network Management Protocol (SNMP) v2 and v3
- Syslog
- Simple Mail Transfer Protocol (SMTP)
- Key Management Interoperability Protocol (KMIP)
- cKVM (all-new Cisco KVM)
- Command-Line Interface (CLI)
- XML API

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Management Software Development Kits (SDKs) and DevOps integrations exist for Python, Microsoft PowerShell, Ansible, Puppet, Chef, and more. For more information about integrations, see Cisco DevNet (https://developer.cisco.com/site/ucs-dev-center/).

Product specifications

Table 1 lists the specifications for the Cisco UCS C225 M8 Rack Server.

Table 1. Specifications

Item	Specifications
Form factor	1RU rack server
Processors	1 x 5th Gen AMD EPYC™ processor or 1 x 4th Gen AMD EPYC™ processor
Memory	12 DDR5-6000 DIMM slots (12 DIMMS per CPU): 16, 32, 64, 96, 128, 256 GB at up to 6000 MT/s providing a memory density of up to 3 TB of memory with 5th Gen AMD EPYC™ processors or 12 DDR5-4800 DIMM slots (12 DIMMS per CPU): 16, 32, 64, 96, 128 GB at up to 4800 MT/s providing a memory density of up to 1.5 TB of memory with 4th Gen AMD EPYC™ processors.
PCIe expansion	Up to 3 PCIe 4.0 slots or up to 2 PCIe 5.0 slots plus 1 dedicated 24-Gbps RAID controller slot and 1 dedicated mLOM/OCP 3.0 slot
RAID controllers	• Internal controllers: ◦ Cisco 24-Gbps modular tri-mode controller supports SAS 4 or NVMe hardware RAID ◦ Cisco 24-Gbps modular tri-mode Host Bus Adapter (HBA) • External controller: Cisco 12-Gbps 9500-8e SAS HBA
Internal storage	• Backplane options: ◦ Up to 10 x 2.5-inch SAS and SATA HDDs, SSD, with the option of up to 4 direct-attach NVMe drives ◦ Up to 10 x 2.5-inch NVMe PCIe SSDs (all direct-attach PCIe Gen4 x4)
mLOM/OCP 3.0	• One dedicated PCIe Gen4 x16 slot that can be used to add an mLOM or OCP 3.0 card for additional rear-panel connectivity • mLOM slot can flexibly accommodate 10/25/5010/25/40, and 40/100/200 100-Gbps Cisco VIC adapters. • OCP 3.0 slot features full out-of-band manageability that supports Intel X710 OCP Dual 10GBase-T via mLOM interposer.

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Item	Specifications
Power supplies	Hot-pluggable, redundant platinum and titanium options: • Platinum: 1050W DC, and 1600W AC • Titanium: 1200W AC, and 2300W AC
Other storage	• Dedicated Baseboard Management Controller (BMC) FlexMMC for utilities (on board) • Dual M.2 SATA/NVMe SSDs with HW RAID support
Management	• Cisco Intersight • Cisco Integrated Management Controller (IMC) • Cisco UCS Manager
Rack options	• Cisco ball-bearing rail kit with optional reversible cable management arm
Hardware and software interoperability	See the Cisco Hardware and Software Interoperability list for a complete listing of supported operating systems and peripheral options.

System requirements

Table 2 lists system requirements for the server.

Table 2. System requirements

Item	Requirements
Cisco IMC	Release 4.3(4b)

Ordering information

Table 3. Ordering information

Part #	Product description
UCSC-C225-M8S	C225 M8 1RU standard server with up to 10x SFF drive bays
UCSC-C225-M8N	C225 M8 1RU NVMe optimized server with up to 10x NVMe drive capability

Warranty information

The Cisco UCS C225 M8 Rack Server has a three-year, Next-Business-Day (NBD) hardware warranty, and a 90-day software warranty.

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Product sustainability

Information about Cisco's Environmental, Social, and Governance (ESG) initiatives and performance is provided in Cisco's Corporate Social Responsibility (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 our product takeback and reuse program	Cisco Takeback and Reuse Program
	Sustainability inquiries	Contact: csr_inquiries@cisco.com
	Operating and nonoperating conditions	Product specifications
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/25627213.pdf

Cisco support

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. 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 Smart Net Total Care portal. Learn more about Smart Net Total Care.

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 to 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. Learn more about Cisco Solution Support.

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Cisco and partner services

Cisco and our industry-leading partners deliver services that can accelerate your transition to a Cisco UCS X-Series Modular System solution. Cisco Unified Computing Systems 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® 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 the 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.

Document history

New or revised topic	Described In	Date
Product specifications	Page 5	October 10, 2024
Product overview	Page 3	May 21, 2025
Product specifications	Page 5	May 21, 2025

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Printed in USA C78-4343165-04 06/26

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