Data sheet
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Cisco UCS C220 M8 Rack Server

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The Cisco UCS® C220 M8 Rack Server delivers record-breaking performance for space-constrained environments.





Product overview

The 1RU, 2-socket Cisco UCS C220 M8 Rack Server is designed to meet the needs of customers that choose to deploy high density rack-mount servers. It combines the latest Intel® processors and is a versatile general-purpose application and infrastructure server delivering leading performance and efficiency for a wide range of workloads, including virtualization, collaboration, and bare-metal applications.

The Cisco UCS C220 M8 Rack Server extends the capabilities of the Cisco UCS rack server portfolio incorporating Intel Xeon® 6 CPUs. It improves security, performance, and efficiency while helping achieve sustainability goals with built-in accelerators the such as Intel Trust Domain Extensions (TDX), Intel Data Streaming Accelerator (DSA), Intel QuickAssist Technology (QAT), Intel Advanced Matrix Extensions (AMX), and Intel In-Memory Analytics Accelerator (IAA).

You can deploy the Cisco UCS C-Series rack servers as standalone servers or with Cisco Intersight® to simplify administration and management of your server infrastructure, thus freeing your IT staff to focus on mission-critical and value-added projects.

Operating Expenses (OpEx) for power and cooling, management, and maintenance can be decreased by consolidating older servers onto the latest generation of Cisco UCS C220 M8 Rack Servers.

The Cisco UCS C220 M8 Rack Server is a dense, fault-tolerant server that provides value, performance, and flexibility for both commercial and enterprise customers.

Features and benefits

Table 1. Features and benefits

Feature	Benefit
Intel Xeon 6 processors	Improved performance with AI-accelerated features and new virtual machine security features
All PCIe Gen5 slots	High-speed I/O
E3.S 1T drive drives	Increased storage capacity at higher speed
Hot-swappable M.2 SATA SSDs	Improved serviceability for boot drives

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Product specifications

Table 2. Cisco UCS C220 M8 Rack Server specifications

Item	Specifications
Form factor	1RU rack server
Processors	Up to 2x Intel Xeon 6700P or 6500P processors (1 or 2)
Memory	32 DIMM slots (16 DIMMS per CPU): • 16, 32, 48, 64, 96,128GB DDR5 at up to 6400 MT/s for up to 4TB of memory • 32, 64GB MRDIMMs at up to 8000 MT/s
PCIe expansion	Up to 3 PCIe 5.0 half-height slots or up to 2 PCIe 5.0 full-height slots plus 1 dedicated 24-Gbps RAID controller slot and 1 dedicated mLOM/OCP 3.0 slot
RAID controllers	• Cisco® 24-Gbps modular tri-mode RAID controller supports SAS 4 or NVMe hardware RAID • Cisco 24-Gbps modular tri-mode SAS Host Bus Adapter (HBA)
Internal storage	Backplane options: • Up to 10 SFF SAS/SATA/U.3 NVMe drives through SAS4 tri-mode RAID or HBA controller, with optional up to eight direct-attach U.2/U.3 NVMe drives • Up to 16 E3.S 1T direct-attach NVMe drives at PCIe Gen5 x4 each
mLOM/OCP 3.0	• One dedicated PCIe Gen5x16 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 through mLOM interposer
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 SSDs (internal or hot-swappable) with HW RAID support
GPU	• Up to three single-wide GPUs supported
Management	• Cisco Intersight • Cisco Integrated Management Controller (IMC)
Rack options	Cisco ball-bearing rail kit with optional reversible cable management arm
Hardware and software interoperability	See the Cisco Hardware and Software Interoperability lists for a complete listing of supported operating systems and peripheral options

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System requirements

Table 3. System requirements for the Cisco UCS C220 M8 Rack Server

Feature	Description
Cisco IMC	Release 4.3(6) or later

Ordering information

Table 4. Ordering information

Part #	Product description
UCSC-C220-M8S	C220 M8 1RU standard server with up to 10x SFF drive bays
UCSC-C220-M8E3S	C220 M8 1RU NVMe optimized server with up to 16x E3.S NVMe drive bays

For information about installing or upgrading your server, see the Cisco UCS C220 M8 Server Installation and Service Guide.

For ordering information, see Cisco UCS C220 M8 rack server specifications sheet.

Warranty information

The Cisco UCS C220 M8 Rack Server has a three-year, Next-Business-Day (NBD) hardware warranty and a 90-day software warranty.

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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Product sustainability

Information about Cisco's Environmental, Social, and Governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability reporting.

Table 5. 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/25696190.pdf

https://www.cisco.com/web/dofc/25696191.pdf

Cisco and partner services

Cisco and our industry-leading partners deliver services that can accelerate your transition to Cisco Unified Computing System™. 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.

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Learn more

For more information about modernizing your infrastructure with the Cisco UCS C220 M8 Rack Server, refer to the specifications sheet. For more information about all Cisco UCS servers, please visit. https://www.cisco.com/go/ucs.

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Printed in USA C78-4880492-02 06/26

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