

Cisco UCS C240 SD M5

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The Cisco UCS C240 SD M5 is a high-performance compute solution in a dense 22” form-factor to handle the most critical real-time compute applications. This front-access server can be deployed as standalone servers or as part of a Cisco Unified Computing™ system (Cisco UCS) to deliver an exceptional management experience for a variety of applications.

Product overview

In response to ever-increasing computing and data-intensive real-time workloads, the enterprise-class Cisco UCS C240 SD M5 server extends the capabilities of the Cisco UCS portfolio in a dense (22” chassis depth) 2RU form factor. It incorporates the 2nd generation of Intel® Xeon® Scalable processors, Intel® Optane™ Memory, and various drive options including All-NVMe, SAS and SATA drives.

The Cisco UCS C240 SD M5 Server is a 2-socket, 2-Rack-Unit (2RU) Rack server that has been density optimized to accommodate space constrained environments while still offering industry-leading performance and expandability. It supports a wide range of workloads from enterprise to edge applications such as Multi-access Edge Compute (MEC). Cisco UCS C-Series Rack Servers can be deployed as standalone servers or as part of a Cisco Unified Computing System™ (Cisco UCS) managed environment to take advantage of Cisco’s standards-based unified computing innovations that help reduce customers’ Total Cost of Ownership (TCO) and increase their business agility.



Figure 1.
Cisco UCS C240 SD M5: Short Depth Front Access Rack Server

The C240 SD M5 delivers outstanding levels of expandability and exceptional performance, with:

- The latest second-generation Intel Xeon Scalable CPUs, with up to 28 cores per socket
- Support for the Intel® Optane™ persistent memory (128G, 256G, 512G)[1]
- Up to 24 DDR4 DIMMs for improved performance including higher density DDR4 DIMMs
- Up to 6 hot-swappable Small-Form-Factor (SFF) 2.5-inch drives
- Modular LAN-On-Motherboard (mLOM) slot that can be used to install a Cisco UCS Virtual Interface Card (VIC) without consuming a PCIe slot, supporting dual 10- or 40-Gbps network connectivity
- Modular M.2 cards that can be used for boot

Features and benefits

Feature	Benefit
22" Chassis Depth	Deployment in an environment where space is at a premium
Dual intel Xeon Class processors	Exceptional processing power in a compact form-factor
Support for Intel Optane DCPMM	Latest Memory support for efficient scaling of your applications
All NVMe drive support	Performance and Efficiency gains to improve application performance
Modular LAN-on-Motherboard	Install a Cisco UCS Virtual Interface Card (VIC) without consuming a PCIe slot, supporting dual 10- or 40-Gbps network connectivity

Exceptional performance in a dense form factor

The Cisco UCS C240 SD M5 Rack Server is a 2-socket, 2-Rack-Unit (2RU) rack server with a reduced chassis depth of 22" offering industry-leading performance and reliability. It supports a wide range of workloads, from edge computing to collaboration. Cisco UCS C-Series Rack Servers can be deployed as standalone servers or as part of a Cisco Unified Computing System™ (Cisco UCS) managed environment to take advantage of Cisco's standards-based unified computing innovations that help reduce customers' Total Cost of Ownership (TCO) and increase their business agility.

Product specifications

Form factor	2RU rack server
Processors	Intel® Xeon® Scalable processors (Second Generation)
Memory	24 DDR4 DIMM slots: 8, 16, 32, 64, and 128 GB and up to 2933 MHz Support for the Intel® Optane™ PMem (128G, 256G, 512G)
PCIe expansion	6 PCIe 3.0 slots plus 1 dedicated 12-Gbps RAID controller slot and 1 dedicated mLOM slot
RAID controllers	<ul style="list-style-type: none"> Internal controllers: Cisco 12-Gbps Modular RAID Controller (PCIe 3.0) with 2- or 4-GB Flash-Backed Write Cache (FBWC), providing enterprise-class data protection for up to 6 SAS or SATA Hard Disk Drives (HDDs), SSDs, or NVMe PCIe SSDs;
Internal storage	Backplane options: <ul style="list-style-type: none"> Up to 6 x 2.5-inch NVMe, SAS, or SATA drives
Embedded Network Interface Cards (NICs)	Dual 10GBASE-T Intel x550 Ethernet ports
mLOM	Dedicated mLOM slot that can flexibly accommodate 1-, 10-, 25-, 40-, and 100-Gbps adapters
Power supplies	Hot-pluggable, redundant 1050W AC power supplies

Form factor	2RU rack server
Other storage	<ul style="list-style-type: none"> • Dual internal Cisco FlexFlash SD cards (32, 64, and 128 GB) for installing an operating system or hypervisor • Support for RAID 0 mirroring between SD cards • Dedicated Baseboard Management Controller (BMC) MicroSD card (32 GB) for server utilities • Dual M.2 SATA SSD or NVMe
Management	<ul style="list-style-type: none"> • Cisco® Intersight™ • Cisco Integrated Management Controller (IMC) • Cisco Integrated Management Controller (IMC) Supervisor • Cisco UCS Manager • Cisco UCS Central Software • Cisco UCS Director
Rack options	Cisco ball-bearing rail kit and 2-Post Rack Adapter Kit
Hardware and software interoperability	See the Cisco Hardware and Software Interoperability List for a complete listing of supported operating systems and peripheral options.

Form factor	2RU rack server
Processors	Second-generation Intel Xeon Scalable processors
Memory	24 DDR4 DIMM slots: 8, 16, 32, 64, and 128 GB and up to 2933 MHz Support for the Intel® Optane™ persistent memory (128G, 256G, 512G)
RAID controllers	<ul style="list-style-type: none"> • Internal controllers: Cisco 12-Gbps Modular RAID Controller (PCIe 3.0) with 2- or 4-GB Flash-Backed Write Cache (FBWC), providing enterprise-class data protection for up to 6 SAS and SATA Hard Disk Drives (HDDs), SSDs, or NVMe PCIe SSDs; or Cisco 12-Gbps Modular SAS Host Bus Adapter (HBA)
Embedded	Dual 10GBASE-T Intel x550 Ethernet ports
mLOM	Dedicated mLOM slot that can flexibly accommodate 10-, 25-, 40-, and 100-Gbps adapters
Power supplies	Hot-pluggable, redundant (2x) 1050W AC
Management	<ul style="list-style-type: none"> • Cisco® Intersight™ • Cisco Integrated Management Controller (IMC) • Cisco Integrated Management Controller (IMC) Supervisor • Cisco UCS Manager • Cisco UCS Central Software • Cisco UCS Director
Rack options	Cisco ball-bearing rail kit and 2-Post Rack Adapter Kit
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

Cisco UCS Manager	Release 4.1(2) or later
Cisco IMC	Release 4.1(2) or later

Ordering information

Part #	Product Description
UCSC-C240M5SD	https://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/ucs-c-series-rack-servers/c240-sd-m5-specsheet.pdf Hardware Installation Guide: https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/c/hw/c240sdm5/install/c240sdm5.html

Warranty information

Cisco UCS C240 SD M5 Rack Servers have a 3-year Next-Business-Day (NBD) hardware warranty and 90-day software warranty.

Augmenting the 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>.

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. 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 you've deployed in your ecosystem. Whether there is an issue with a Cisco or 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>.

Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's [Corporate Social Responsibility](#) (CSR) Report.

Reference links to **information about key environmental sustainability topics** (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

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Call to action

Deploy and manage your Cisco UCS C-series rack server in space-constrained environments to benefit from the Cisco UCS manageability and reduced TCO.

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