

Cisco UCS C245 M8 Rack Server

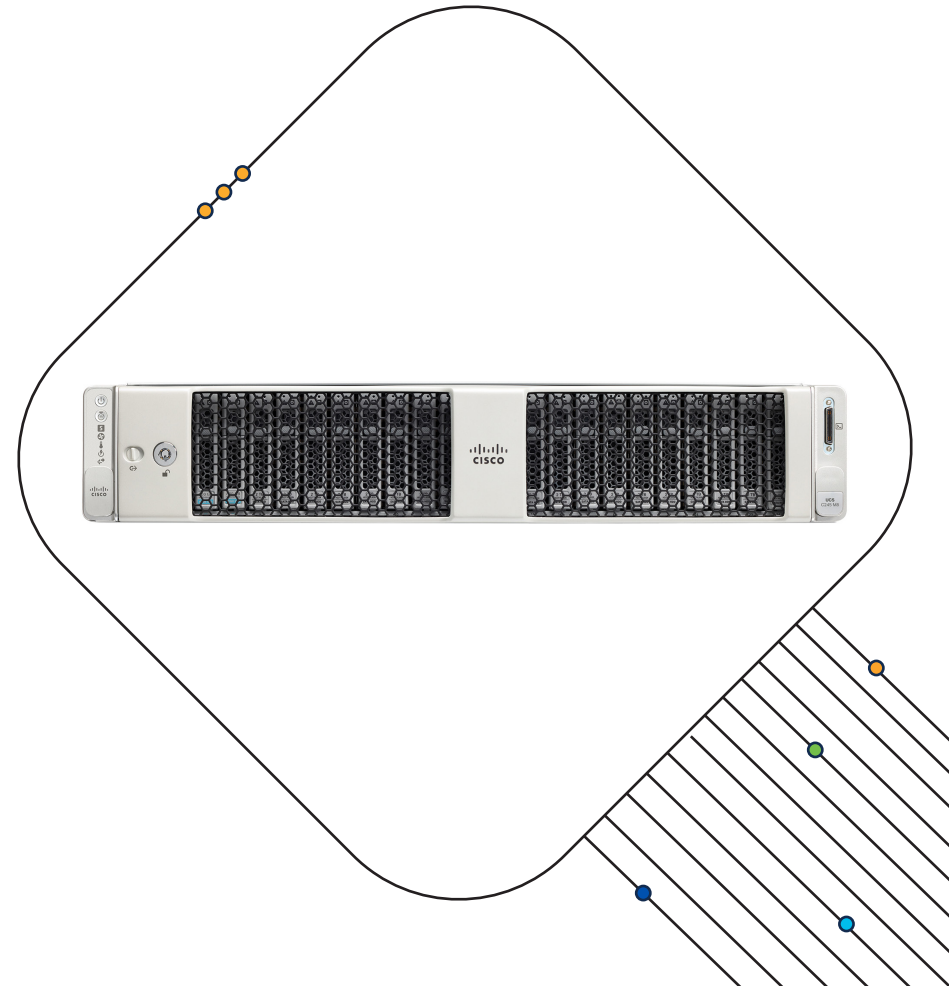
High performance for data-intensive applications

The Cisco UCS C245 M8 Rack Server is well suited for a versatile range of storage and I/O-intensive applications such as big data analytics, databases, collaboration, and virtualization. In addition, it is an excellent choice when modernizing your infrastructure and consolidating from older servers.

The Cisco UCS C245 M8 Rack Server uses 4th Gen AMD EPYC CPUs for the most cores per socket. Combined with PCIe Gen 5.0 for peripherals and 4800 MT/s DDR5 memory, you can have significant performance and efficiency gains that will improve your application performance. AMD EPYC 9004 Series CPUs now support AVX-512, which can improve performance for simulations, financial analytics, AI/deep learning, 3D modeling, image and audio processing, cryptography, and data compression workloads. These improvements enable significant performance and efficiency gains that will improve your application performance.

You can deploy the Cisco UCS C-Series rack servers as standalone servers or as part of the Cisco® Unified Computing System with the Cisco Intersight cloud-based management platform. These computing innovations help reduce Total Cost of Ownership (TCO) and increase business agility.

Cisco technologies can help to reduce Greenhouse Gas (GHG) emissions and waste, improve energy efficiency, and enable more circular business models.



Benefits

- Modernize your data center and transform your business with up to 128 cores per CPU in 4th Gen AMD EPYC™ processors and fast memory performance.
- Industry-leading I/O speeds for high-bandwidth applications with PCIe Gen 5.0.
- Decrease your server operating (OpEx) and capital (CapEx) expenses for power and cooling, management, and maintenance by consolidating older servers onto the latest generation of Cisco UCS® AMD 4th Gen EPYC Rack servers.
- Reduce management complexity with [Cisco Intersight™](#).
- Designed with sustainability and energy efficiency operations in mind.

What it does

The Cisco UCS C245 M8 Rack Server is designed to deliver exceptional performance, expandability, and efficiency. It offers:

- One or two 4th Gen AMD EPYC CPUs, with up to 128 cores per socket. Based on AMD Infinity Architecture, these processors deliver a full feature set across the entire CPU stack. You choose the core count and frequency; the memory capabilities, advanced security features, and I/O capacity are all included at no additional cost.
 - For per-core, license-constrained applications, high-frequency AMD EPYC processors (EPYC 9x74F) give you an exceptional per-core performance so you can get the most value from software licensing costs.
 - Up to 128 PCIe 5.0 lanes of I/O connectivity for faster data access.
- Memory
 - 24 DIMM slots (12 DIMMs per CPU socket), up to 4800 MT/s DDR5.
 - Up to 6 TB of capacity.
- Up to 24 Small-Form-Factor (SFF) front-loading hot-pluggable drives – NVMe/SAS/SATA – and up to four additional rear drives.
 - RAID controller options available.
- Up to 4 PCIe 5.0 slots or up to 8 PCIe 4.0 slots plus a hybrid modular LAN-on-Motherboard (mLOM)/OCP slot.
- Support for Cisco UCS VIC 15000 Series and 3rd party NIC cards.
- Up to 8 GPUs supported.
- Internal dual M.2 drive options.

Learn more

For more information about modernizing or consolidating your current infrastructure using the Cisco UCS C245 M8 Rack Server, refer to the data sheet or spec sheet. For more information about all Cisco UCS Servers, please visit <https://www.cisco.com/go/ucs>.