

# Cisco UCS C225 M8 Rack Server



## Benefits

- Highest core density in a 1RU, single-socket design server, with up to 128 cores to accelerate your most demanding applications.
- Industry-leading I/O speeds for high-bandwidth applications with PCIe Gen 5.0.
- Reduce management complexity with Cisco Intersight Infrastructure Service.
- Design with sustainability and energy efficient operations in mind.

## Outstanding performance and efficiency in a slim form factor

The Cisco UCS® C225 M8 Rack Server is the best choice for modernization of your infrastructure and application servers. This high-density, 1RU, single socket rack server delivers industry-leading performance and efficiency for a diverse range of use cases, including virtualization, EDA, SDS, big data, and edge-centric workloads. The single socket base can reduce software licensing fees, lowering your cost of ownership. 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 Infrastructure Service cloud-based management platform.

The Cisco UCS C225 M8 Rack Server uses 4th Gen AMD EPYC™ CPUs, which provide up to 128 cores per socket. Single-socket servers are not constrained by Non-Uniform Memory Access (NUMA). This makes some low-latency solutions much more effective.

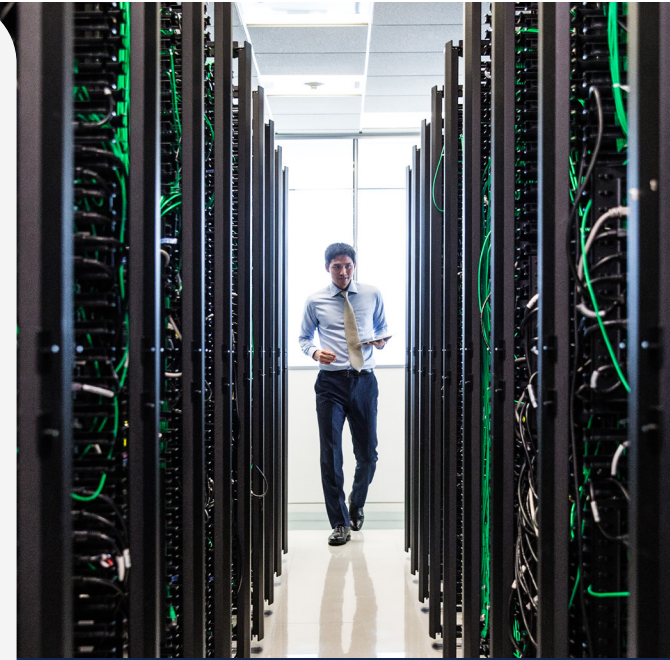
A single socket can resolve some complex issues in virtualized environments where there is a need to isolate an application on a single CPU. Combined with up to 128 PCIe Gen 5.0 lanes for fast I/O throughput and 4800 MT/s DDR5 memory, you can have significant performance and efficiency gains that will improve your application performance. AMD EPYC 9004 Series CPUs now support AVX-512, which increases the size of the CPU's register to crunch numbers faster and can improve performance for simulations, financial analytics, AI/deep learning, 3D modeling, image and audio processing, cryptography, and data-compression workloads.

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

## What it does

The Cisco UCS C225 M8 Rack Server is designed to deliver exceptional performance, expandability, and efficiency for your modern workloads. It offers:

- One 4th Gen AMD EPYC CPU, 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 high-performance computing, AMD EPYC 9004 Series Processors with AMD 3D V-Cache technology deliver up to 768 MB L3 of cache per processor. AMD 3D V-Cache is built on AMD's groundbreaking 3D Chiplet architecture, using 5-nm process technology.
  - For per-core, license-constrained applications, high-frequency AMD EPYC processors (EPYC 9x74F) give you exceptional per-core performance so you can get the most value from software licensing costs.
- Up to 128 PCIe Gen 5.0 lanes of I/O connectivity for fast data access.
- Memory:
  - 12 DIMM slots, 4800 MT/s DDR5.
  - Up to 1.5TB of capacity.
- Up to 10 Small-Form-Factor (SFF) front-loading hot-pluggable drives – NVMe/SAS/SATA.
- Up to three PCIe Gen 5.0 slots.
- Support for Cisco UCS VIC 15000 Series and OCP 3.0 network cards.
- RAID controller and GPU options are available.



## Learn more

For more information about modernizing your infrastructure with the Cisco UCS C225 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>.