

# Cisco UCS C225 M8 Rack Server



## Benefits

- Highest core density in a 1RU, single-socket design server, with up to 160 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.
- 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 5th and 4th Gen AMD EPYC™ CPUs, which provide up to 160 cores per socket. Single-socket servers are not constrained by Non-Uniform Memory Access (NUMA). This makes some low-latency solutions much more effective.

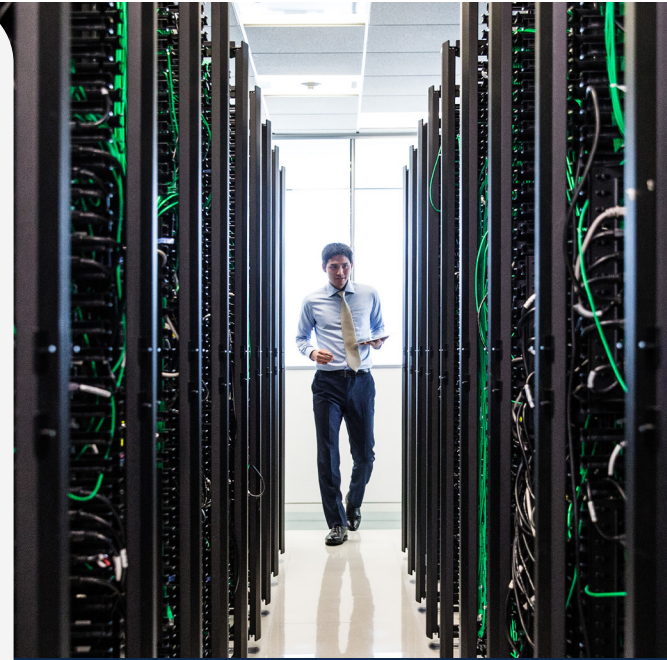
A single socket can resolve some complex issues in virtualized environments where there is a need to isolate an application on a single CPU. Combined with up to 128 PCIe Gen 5.0 lanes for fast I/O throughput and up to 6000 MT/s DDR5 memory, you can have significant performance and efficiency gains that will improve your application performance. AMD EPYC CPUs 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 5th or 4th Gen AMD EPYC CPU, with up to 160 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.
- Up to 128 PCIe Gen 5.0 lanes of I/O connectivity for fast data access.
- Memory:
  - 12 DIMM slots, up to 6000 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>.