Spec Sheet

Cisco UCS X210c M8 Compute Node

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https://www.cisco.com/c/en/us/products/servers-unified-computing/ucs-x-series-modular-system/datasheet-listing.html

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OVERVIEW

The Cisco UCS X-Series Modular System simplifies your data center, adapting to the unpredictable needs of modern applications while also providing for traditional scale-out and enterprise workloads. It reduces the number of server types to maintain, helping to improve operational efficiency and agility as it helps reduce complexity. Powered by the Cisco Intersight™ cloud operations platform, it shifts your thinking from administrative details to business outcomes with hybrid cloud infrastructure that is assembled from the cloud, shaped to your workloads, and continuously optimized.

The Cisco UCS X210c M8 Compute Node is the third generation of compute node to integrate into the Cisco UCS X-Series Modular System. It delivers performance, flexibility, and optimization for deployments in data centers, and at remote sites.

This enterprise-class server offers market-leading performance, versatility, and density without compromise for workloads. Up to eight compute nodes can reside in the 7-Rack-Unit (7RU) Cisco UCS X9508 Chassis, offering one of the highest densities of compute, I/O, and storage per rack unit in the industry.

The Cisco UCS X210c M8 Compute Node harnesses the power of the latest Intel® Xeon® Scalable Processors, and offers the following:

- **CPU**: Up to 2x Intel® Xeon® 6 Scalable Processors with up to 86 cores per processor and and up to 336MB of Level 3 cache per CPU.
- **Memory:** Up to 8TB with 32 x 256GB DDR5-6400 DIMMs, in a 2-socket configuration with Intel® Xeon® 6 Scalable Processors.
- **Storage**:
  - Up to nine hot-pluggable EDSFF E3.S NVMe drives with a new passthrough front mezzanine controller option new to the Cisco UCS X210c M8 **or**
  - Up to six hot-pluggable , solid-state rives (SSDs), or non-volatile memory express (NVMe) 2.5-inch drives with a choice of enterprise-class redundant array of independent disks (RAIDs) or passthrough controllers with four lanes each of PCIe Gen 5 connectivity.
  - Up to two M.2 SATA drives or two M.2 NVMe drives for flexible boot and local storage. capabilities
- **Optional Front Mezzanine GPU module:** The Cisco UCS Front Mezzanine GPU module GPU module is a passive PCIe Gen 4 front mezzanine option with support for up to two U.2 or U.3 NVMe drives and two HHHL GPUs.
- **mLOM virtual interface cards:**
  - Cisco UCS VIC (Virtual Interface Card) 15420 occupies the server's modular LAN on motherboard (mLOM) slot, enabling up to 50 Gbps (2x 25Gbps) of unified fabric connectivity to each of the chassis's intelligent fabric modules (IFMs) for 100 Gbps connectivity per server with secure boot technology.
  - Cisco UCS VIC 15230 occupies the server's modular LAN on motherboard (mLOM) slot, enabling up to 100 Gbps of unified fabric connectivity to each of the chassis's intelligent fabric modules (IFMs) for 100 Gbps connectivity per server with secure boot technology.
- **Optional Mezzanine card:**
  - Cisco UCS VIC 15422, a 5th Gen virtual interface card, can occupy the server's mezzanine slot at the bottom rear of the chassis. This card's I/O connectors link to Cisco UCS X-Fabric technology. An included bridge card extends this VIC's 4x 25 Gbps of network connections

through IFM connectors, bringing the total bandwidth to 100 Gbps per fabric (for a total of 200 Gbps per server).

- Cisco UCS PCI mezzanine card for Cisco UCS X-Fabric can occupy the server's mezzanine slot at the bottom rear of the chassis. This card's I/O connectors link to Cisco UCS X-Fabric modules and enable connectivity to the Cisco UCS X-Series PCIe Nodes.
- All VIC mezzanine cards also provide I/O connections from the Cisco UCS X210c Compute Node to the Cisco UCS X-Series PCIe Nodes.

- **Security**: The server supports an optional trusted platform module (TPM). Additional features include a secure boot FPGA and ACT2 anti-counterfeit provisions.

NOTE: All options listed in the Spec Sheet are compatible with Intersight Managed Mode and UCSM Managed Mode configurations. For firmware requirements for all components in Intersight Managed Mode see Supported Systems.

Figure 1 on page 5 shows a front view of the Cisco UCS X210c M8 Compute Node.

Figure 1 Cisco UCS X210c M8 Compute Node