



The bridge to possible

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Cisco UCS X210c M6 Compute Node

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Un/Box the future with Cisco UCS® X-Series Modular System and Cisco Intersight™. Embrace an adaptable, future-ready, and cloud-operated system to simplify IT and innovate at the speed of software.



Product 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 IT focus from administrative details to business outcomes—with hybrid cloud infrastructure that is assembled from the cloud, shaped to your workloads, and continuously optimized.

Features and benefits

Main features

The Cisco UCS X210c M6 Compute Node is the first computing device to integrate into the Cisco UCS X-Series Modular System. 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 M6 provides these main features:

- CPU: Up to 2x 3rd Gen Intel® Xeon® Scalable Processors with up to 40 cores per processor and 1.5 MB Level 3 cache per core.
- Memory: Up to 32x 256 GB DDR4-3200 DIMMs for up to 8 TB of main memory. Configuring up to 16x 512-GB Intel Optane™ persistent memory DIMMs can yield up to 12 TB of memory.
- Storage: Up to six hot-pluggable, Solid-State Drives (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 4 connectivity and up to 2 M.2 SATA drives for flexible boot and local storage capabilities.

- mLOM virtual interface card: The Cisco UCS Virtual Interface Card (VIC) 14425 can occupy the server's modular LAN on motherboard (mLOM) slot, enabling up to 50 Gbps of unified fabric connectivity to each of the chassis Intelligent Fabric Modules (IFMs) for 100 Gbps connectivity per server.
- Optional mezzanine virtual interface card: Cisco UCS Virtual Interface Card (VIC) 14825 can occupy the server's mezzanine slot at the bottom of the chassis. This card's I/O connectors link to Cisco UCS X-Fabric Technology that is planned for future I/O expansion. An included bridge card extends this VIC's 2x 50 Gbps of network connections through IFM connectors, bringing the total bandwidth to 100 Gbps per fabric—a total of 200 Gbps per server.
- Security: The server supports an optional Trusted Platform Module (TPM). Additional features include a secure boot FPGA and ACT2 anti-counterfeit provisions.

Product specifications

Table 1. Product specifications

Item	Specifications
Processors	Up to 2 3rd Gen Intel Xeon Scalable Processors (1 or 2)
Memory	32 DDR4 DIMM slots (16 DIMMS per CPU): 16, 32, 64, 128 at up to 3200 MHz
Intel Optane DC persistent memory	16 DIMM slots: 128, 256, and 512 GB at up to 3200 MHz
mLOM	mLOM slot for Cisco UCS VIC 14425
Mezzanine adapter (rear)	Cisco UCS VIC 14825 mezzanine card with bridge connector
Mezzanine module (front)	Front mezzanine module options: <ul style="list-style-type: none"> • NVMe passthrough controller (for NVMe drives only) • RAID controller with 4GB cache (for SSD and mix of SSD and NVMe drives) • No front mezzanine module
Internal storage	Front mezzanine storage options: <ul style="list-style-type: none"> • Up to 6 x 2.5-inch SAS and SATA RAID-compatible SSDs • Up to 6 x 2.5-inch NVMe PCIe drives • A mixture of up to six SAS/SATA or NVMe drives <p>Note: Drives require a RAID or passthrough controller in the front mezzanine module slot.</p> <p>Boot drive options:</p> <ul style="list-style-type: none"> • Mini storage module with 2x M.2 (up to 960GB per drive) with hardware RAID
Management	Cisco Intersight software (SaaS, virtual appliance, and private virtual appliance)
Temperature: operating	50° to 95° F (10° to 35° C)
Temperature: nonoperating	-40° to 149° F (-40° to 65° C)

Item	Specifications
Humidity: operating	5% to 93% noncondensing
Humidity: nonoperating	5% to 93% noncondensing
Altitude: operating	0 to 10,000 ft (0 to 3000m); maximum ambient temperature decreases by 1° C per 300m
Altitude: nonoperating	40,000 ft (12,000m)

System requirements

Table 2. System requirements

Item	Requirements
X-Series chassis	Cisco UCS X9508 Chassis
Fabric interconnect	Cisco UCS 6454 and 64108 fabric interconnects
Cisco Intersight	Intersight Managed Mode (minimum of one Essentials license per server)

Ordering information

Table 3 provides ordering information for the Cisco UCS X210c M6 Compute Node.

Table 3. Ordering information

For information about installing or upgrading your server, see the Hardware Installation Guide. For ordering information, see the [Cisco UCS X210c M6 Compute Node specifications sheet](#).

Part number	Description
UCSX-M6-MLB	UCSX M6 Modular Server and CHASSIS MLB
UCSX-210C-M6	Cisco UCS 210c M6 Compute Node w/o CPU, memory, storage, mezzanine
UCSX-210C-M6-U	Cisco UCS 210c M6 Compute Node UPG w/o CPU, memory, storage, mezzanine
UCSX-210C-M6-CH	DISTI: Cisco UCS 210c M6 Compute Node w/o CPU, memory, storage, mezzanine

Warranty information

The Cisco UCS X210c Compute Node has a three-year Next-Business-Day (NBD) hardware warranty and a 90-day software warranty.

Augmenting the Cisco Unified Computing System™ (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>

Cisco 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. Cisco 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 that you have deployed in your ecosystem. Whether there is an issue with a Cisco product or with a 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>.

Product sustainability

Information about Cisco's Environmental, Social, and Governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability [reporting](#).

Table 4. Cisco environmental sustainability information

Sustainability topic		Reference
General	Information on product-material-content laws and regulations	Materials
	Information on electronic waste laws and regulations, including our products, batteries, and packaging	WEEE Compliance
	Information on product takeback and reuse program	Cisco Takeback and Reuse Program
	Sustainability inquiries	Contact: csr_inquiries@cisco.com
	Operating and nonoperating conditions	Table 1. Product specifications
Material	Product packaging weight and materials	Contact: environment@cisco.com

Cisco and partner services

Cisco and our industry-leading partners deliver services that accelerate your transition to a Cisco UCS X-Series Modular System solution. Cisco Unified Computing Systems Services can help you create an agile infrastructure, accelerate time to value, reduce costs and risks, and maintain availability during deployment and migration. After deployment, our services can help you improve performance, availability, and resiliency as your business needs evolve and help you further mitigate risk. For more information, visit <https://www.cisco.com/go/unifiedcomputingservices>.

Cisco Capital

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more](#).

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