Cisco UCS X410c M8 Compute Node

The enterprise-class Cisco UCS® X410c M8 Compute Node delivers market-leading performance, versatility, and density without compromise.



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Product overview

The enterprise-class Cisco UCS X410c M8 Compute Node delivers market-leading performance, versatility, and density for a wide range of mission-critical enterprise applications, memory-intensive applications, and bare-metal and virtualized workloads. Powered by the Cisco Intersight® cloud- operations platform, it is an adaptable system that can support enterprise workloads and provide a consolidation platform that provides improved performance, automation, and efficiency. It is a system engineered for the future so you can embrace emerging technologies while reducing the risk of obsolescence.

Features and benefits

Main features

The Cisco UCS X410c M8 Compute Node is the second-generation of 4-socket compute node purpose-built for the Cisco UCS X-Series Modular System. Powered by Intel® Xeon® 6 Processors, it delivers outstanding performance and efficiency for a wide range of mission-critical enterprise applications, memory-intensive workloads, and both bare-metal and virtualized environments. Up to four X410c M8 compute nodes can reside in the 7-Rack-Unit (7RU) Cisco UCS X9508 server chassis, offering you the flexibility to adapt to diverse workloads.

The Cisco UCS X410c M8 Compute Node provides these main features:

- **CPU:** Four Intel Xeon 6 Processors with up to 86 cores per processor
- **Memory:** Up to 16 TB of main memory with 64x 256 GB DDR5-6400 memory DIMMs
- **Storage:**
  - Up to nine hot-pluggable EDSFF E3.S NVMe drives with a new passthrough front mezzanine controller option that is new in the Cisco UCS X410c M8.
  - 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).
  - Up to two M.2 SATA drives or two M.2 NVMe drives for flexible boot and local storage capabilities.
- **mLOM Virtual Interface Cards (VICs):**
  - 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' 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' Intelligent Fabric Modules (IFMs) for 100 Gbps connectivity per server with secure boot technology.

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- **Optional mezzanine card:**
  - The 5th-Gen Cisco UCS VIC 15422 can occupy the server's mezzanine slot at the bottom rear of the chassis. 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 (for a total of 200 Gbps per server), with secure boot capability.
- **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	4x Intel Xeon 6 Processors
Memory	64 DDR5 DIMM slots (16 DIMMs per CPU): 64, 96, 128, 256GB RDIMM at up to 6400 MT/s
mLOM	mLOM slot for Cisco UCS VIC 15420 or Cisco VIC 15230
Mezzanine adapter (rear)	Cisco UCS 15422 mezzanine card with Cisco UCS VIC 15000 bridge connector, for connecting to Cisco UCS VIC 15420
Mezzanine module (front)	**Front mezzanine module options:** • EDSFF E3.S NVMe passthrough controller • NVMe passthrough controller • RAID controller with 4GB cache (for SSD and mix of SSD and NVMe) • No front mezzanine

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Item	Specifications
Internal storage	**Front mezzanine storage options:** • Up to 9x EDSFF E3.S NVMe drives • Up to 6x 2.5-inch SAS and SATA RAID-compatible SSDs • Up to 6x 2.5-inch NVMe PCIe drives • A mixture of up to six SAS/SATA or NVMe drives **Note:** Drives require a RAID or passthrough controller in the front mezzanine module slot. **Boot drive options:** • Mini storage module with 2x M.2 (up to 960GB per drive) SATA drives with hardware RAID • Mini storage module with 2x M.2 (up to 960GB per drive) NVMe drives in passthrough mode
Management	• Cisco Intersight software (SaaS, Virtual Appliance, and Private Virtual Appliance) • Cisco UCS Manager
Temperature: operating	50° to 95°F (10° to 35°C)
Temperature: nonoperating	-40° to 149°F (-40° to 65°C)
Humidity: operating	5% to 90% noncondensing
Humidity: nonoperating	5% to 90% 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)

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System requirements

Table 2. System requirements

Item	Requirements
X-Series chassis	Cisco UCS X9508 Chassis
Fabric interconnects	• Cisco UCS 6454, 64108, 6536, and 6664 fabric interconnects • Cisco UCS Fabric Interconnect 9108 100G
Cisco Intersight	Intersight Managed Mode (minimum Essentials license per server)

Table 3 provides ordering information for the Cisco UCS X410c M8 Compute Node.

Table 3. Ordering information

Part number	Description
UCSX-410c-M8	Cisco UCS X410c M8 Compute Node w/o CPU, memory, storage, mezzanine
UCSX-410C-M8-U	Cisco UCS X410c M8 Compute Node UPG w/o CPU, memory, storage, mezzanine
UCSX-410c-M8-CH	DISTI: Cisco UCS X410c M8 Compute Node w/o CPU, memory, storage, mezzanine

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Warranty services

The Cisco UCS X410c M8 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
Material	Product packaging weight and materials	Contact: environment@cisco.com

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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 Services for Unified Computing 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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