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# Cisco UCS X410c M7 Compute Node

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The enterprise-class Cisco UCS® X410c M7 Compute Node delivers market-leading performance, versatility, and density without compromise.

#### Product overview

The enterprise-class Cisco UCS X410c M7 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 M7 Compute Node is the first 4-socket 4th Gen Intel® Xeon® Scalable Processors computing device to integrate into the Cisco UCS X-Series Modular System. Up to four compute nodes or two compute nodes and two GPU nodes can reside in the 7-rack-unit (7RU) Cisco UCS X9508 Server Chassis, offering high performance and efficiency gains for a wide range of mission-critical enterprise applications, memory-intensive applications and bare-metal and virtualized workloads.

- The Cisco UCS X410c M7 provides these main features:
  - CPU: Four 4th Gen Intel Xeon Scalable Processors with up to 60 cores per processor
  - Memory: Up to 16TB of main memory with 64x 256 GB DDR5-4800 Memory DIMMs
  - 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 RAID or passthrough controllers, up to two
     M.2 SATA drives with optional hardware RAID
- mLOM virtual interface cards:
  - Cisco UCS VIC 15420 occupies the server's modular LAN on motherboard (mLOM) slot, enabling up to 50 Gbps of unified fabric connectivity to each of the chassis's intelligent fabric modules (IFMs) for 100 Gbps connectivity per server.
  - Cisco UCS VIC 15231 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.

- · Optional mezzanine card:
  - Cisco UCS 5th Gen VIC 15422 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 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).
  - Cisco UCS PCI Mezz 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 X440p PCIe Node.
  - All VIC mezzanine cards also provide I/O connections from the X410c M7 compute node to the X440p
     PCIe node.
- 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

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Item	Specifications		
Processors	4x 4 <sup>th</sup> Gen Intel Xeon Scalable Processors		
Memory	64 DDR5 DIMM slots (16 DIMMs per CPU): 16, 32, 64, 128, 256 GB at up to 4800 MT/s for up to 16TB of total memory		
mLOM	mLOM slot for Cisco UCS VIC 15420 or Cisco UCS VIC 15231		
Mezzanine adapter (rear)	Cisco UCS 15422 mezzanine card with UCS VIC 15000 bridge connector with Cisco UCS VIC 15420		
Mezzanine module (front)	Front mezzanine module options:  • Cisco FlexStorage NVMe passthrough controller (for NVMe drives only)  • Cisco FlexStorage RAID controller with 4GB cache (for SSD and mix of SSD and NVMe)  • No front mezzanine		
Internal storage	Front mezzanine storage options:  • Up to 6x 2.5-inch SAS/SATA or NVMe RAID-compatible 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		
Management	Cisco Intersight software (SaaS, virtual appliance, and private virtual appliance)		
Temperature: operating	50° to 95°F (10° to 35°C)		

Item	Specifications
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)

# System requirements

 Table 2.
 System requirements

Item	Requirements
X-Series chassis	Cisco UCS X9508 Server Chassis
Fabric interconnect	<ul> <li>Cisco UCS 6454 and 64108 fabric interconnects</li> <li>Cisco UCS 6536 Fabric Interconnect</li> </ul>
Cisco Intersight	Intersight Managed Mode (minimum Essentials license per server)

# Ordering information

Table 3 provides ordering information for the Cisco UCS X410c M7 Compute Node.

 Table 3.
 Ordering information

Part number	Description
UCSX-410C-M7	Cisco UCS 410c M7 Compute Node w/o CPU, memory, storage, mezzanine
UCSX-410C-M7-U	Cisco UCS 410c M7 Compute Node UPG w/o CPU, memory, storage, mezzanine
UCSX-410C-M7-CH	DISTI: Cisco UCS 410c M7 Compute Node w/o CPU, memory, storage, mezzanine

For information about installing or upgrading your server, see the <u>hardware installation</u> guide. For ordering information, see the Cisco UCS X410c M7 Compute Node spec sheet.

## Warranty information

The Cisco UCS X410c M7 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 issues 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 <a href="https://www.cisco.com/c/en/us/services/technical/solution-support.html">https://www.cisco.com/c/en/us/services/technical/solution-support.html</a>.

# Product sustainability

Information about Cisco's environmental, social, and governance (ESG) initiatives and performance is provided in Cisco's CSR and sustainability <u>reporting</u>.

Table 4. Cisco environmental sustainability information

Sustainability topic		Reference
General	Information on product-material-content laws and regulations	<u>Materials</u>
	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

### Product environmental information

Product environmental information for users per Commission Regulation (EU) 2019/424 <a href="https://www.cisco.com/web/dofc/24098842.pdf">https://www.cisco.com/web/dofc/24098842.pdf</a>

### 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 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 <a href="https://www.cisco.com/go/unifiedcomputingservices">https://www.cisco.com/go/unifiedcomputingservices</a>.

## Cisco Capital

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# **Document history**

New or revised topic	Described in	Date

Americas Headquarters Cisco Systems, Inc. San Jose, CA Asia Pacific Headquarters Cisco Systems (USA) Pte. Ltd. Singapore **Europe Headquarters**Cisco Systems International BV Amsterdam,
The Netherlands

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