

# Cisco UCS X215c M8 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 thinking 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 X215c M8 Compute Node is the first generation of AMD compute node to integrate into the Cisco UCS X-Series Modular System. It delivers performance, flexibility, and optimization for deployments in data centers, in the cloud, 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 Server Chassis, offering one of the highest densities of compute, I/O, and storage per rack unit in the industry.

The Cisco UCS X215c M8 provides these main features:

- **CPU:** Up to 2x 4<sup>th</sup> Gen AMD EPYC™ Processors with up to 96 cores per processor and up to 384 MB of Level 3 cache per CPU.
- **Memory:** Up to 6TB of main memory with 24x 256 GB DDR5 5600 MT/s or DDR5 4800 MT/s DIMMs depending on the CPU installed.
- **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, up to two M.2 SATA drives with optional hardware RAID or up to two M.2 NVMe drives in pass-through mode.
- **Optional front mezzanine GPU module:** The Cisco UCS front mezzanine GPU module is a passive PCIe Gen 4.0 front mezzanine option with support for up to two NVMe drives and two HHHL GPUs.
- **mLOM Virtual Interface Cards (VICs):**
  - 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 Intelligent Fabric Modules (IFMs) for 100 Gbps connectivity per server.
  - 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.

- **Optional mezzanine card:**

- Cisco UCS 5<sup>th</sup> Gen Virtual Interface Card (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) with secure boot technology.
- Cisco UCS PCI Mezz card for 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 X210c 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

Item	Specifications
<b>Processors</b>	Up to 2x 4 <sup>th</sup> Gen AMD EPYC™ processors (1 or 2)
<b>Memory</b>	24 DDR5-5600 DIMM slots (12 DIMMS per CPU): 16, 32, 48, 64, 96, 128, 256 GB at up to 5600 MT/s for up to 6TB of memory with 4 <sup>th</sup> Gen AMD EPYC™ processors
<b>mLOM</b>	mLOM slot for Cisco UCS VIC 15420 or Cisco UCS VIC 15230
<b>Mezzanine adapter (rear)</b>	Cisco UCS 15422 mezzanine card with UCS VIC 15000 bridge connector compatible with Cisco UCS VIC 15420
<b>Mezzanine module (front)</b>	<p>Front mezzanine module options:</p> <ul style="list-style-type: none"> <li>• Cisco FlexStorage NVMe passthrough controller (for NVMe drives only)</li> <li>• Cisco FlexStorage RAID controller with 4GB cache (for SSD and mix of SSD and NVMe)</li> <li>• GPU front mezzanine</li> <li>• No front mezzanine</li> </ul>
<b>Internal storage &amp; GPU</b>	<p>Front mezzanine storage options:</p> <ul style="list-style-type: none"> <li>• Up to 6x 2.5-inch SAS, SATA and NVMe RAID-compatible SSDs</li> <li>• A mixture of up to six SAS/SATA or NVMe drives</li> </ul> <p><b>Note:</b> 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"> <li>• Mini storage module with 2x M.2 (up to 960GB per drive) SATA drives with hardware RAID or 2x M.2 (up to 960GB per drive) NVMe drives</li> </ul> <p>GPU options:</p> <ul style="list-style-type: none"> <li>• GPU front mezzanine module with 2x 2.5-inch NVMe drives and 2x GPUs</li> </ul>

Item	Specifications
<b>Management</b>	<ul style="list-style-type: none"> <li>• <a href="#">Cisco Intersight software</a> (SaaS, virtual appliance, and private virtual appliance)</li> <li>• Cisco UCS Manager (UCSM) 4.3(2) or later</li> </ul>
<b>Temperature: operating</b>	50° to 95° F (10° to 35° C)
<b>Temperature: nonoperating</b>	-40° to 149° F (-40° to 65° C)
<b>Humidity: operating</b>	5% to 90% noncondensing
<b>Humidity: nonoperating</b>	5% to 90% noncondensing
<b>Altitude: operating</b>	0 to 10,000 ft (0 to 3000m); maximum ambient temperature decreases by 1° C per 300m
<b>Altitude: nonoperating</b>	40,000 ft (12,000m)

## System requirements

**Table 2.** System requirements

Item	Requirements
<b>X-Series chassis</b>	Cisco UCS X9508 Server Chassis
<b>Fabric interconnect</b>	Cisco UCS 6454, 64108, and 6536 fabric interconnects
<b>Cisco Intersight</b>	<ul style="list-style-type: none"> <li>• Intersight Managed Mode (minimum Essentials license per server)</li> <li>• UCSM Managed Mode (UMM) with Intersight</li> </ul>

## Ordering information

Table 3 provides ordering information for the Cisco UCS X215c M8 Compute Node.

**Table 3.** Ordering information

Part number	Description
<b>UCSX-215C-M8</b>	Cisco UCS 215c M8 Compute Node w/o CPU, memory, storage, mezzanine
<b>UCSX-215C-M8-U</b>	Cisco UCS 215c M8 Compute Node UPG w/o CPU, memory, storage, mezzanine
<b>UCSX-215C-M8-CH</b>	DISTI: Cisco UCS 215c M8 Compute Node w/o CPU, memory, storage, mezzanine

For information about installing or upgrading your server, see the [Hardware Installation](#) Guide. For ordering information, see the Cisco UCS X215c M8 Compute Node spec sheet.

## Warranty information

The Cisco UCS X215c 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

<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	<a href="#">Materials</a>
	Information on electronic waste laws and regulations, including our products, batteries, and packaging	<a href="#">WEEE Compliance</a>
	Information on product takeback and reuse program	<a href="#">Cisco Takeback and Reuse Program</a>
	Sustainability Inquiries	Contact: <a href="mailto:csr_inquiries@cisco.com">csr_inquiries@cisco.com</a>
Material	Product packaging weight and materials	Contact: <a href="mailto:environment@cisco.com">environment@cisco.com</a>

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## Product environmental information

Product environmental information for users per Commission Regulation (EU) 2019/424

<https://www.cisco.com/web/dofc/23906228.pdf>.

## 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

<https://www.cisco.com/go/unifiedcomputingservices>.

## Cisco Capital

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