Cisco Compute-Only C220 M7 Node Family



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Cisco and Nutanix have partnered to introduce the IT industry's most complete hyperconverged solution by integrating and validating Cisco® servers, storage, networking, and SaaS operations with the Nutanix hybrid multi cloud platform. Cisco Compute Hyperconverged with Nutanix is built, managed, and supported holistically to deliver a more seamless experience, foster innovation, and accelerate customers' hybrid-cloud journeys. Modern workloads require modern flexibility. Traditional hyperconverged solutions require scaling compute and storage together. When you need to scale compute capacity without adding storage, Cisco Compute-Only (CO) nodes provide that critical capability—empowering you to design clusters that match your exact requirements.

Product overview

Cisco Compute-Only C220 M7 Node family

A. Expanding Cisco Compute Hyperconverged node cluster with Cisco Compute-Only node:

The Cisco Compute-Only node solution enables you to expand the compute resources of Cisco hyperconverged clusters running Nutanix by adding Cisco UCS®-certified servers without additional storage. These storage-less, Compute-Only (CO) servers certified by Cisco integrate seamlessly into your existing or new hyperconverged Nutanix cluster, allowing organizations to efficiently support compute intensive applications by scaling compute resources independently of storage infrastructure.

Key benefits

- Cost-effective scaling for compute-heavy workloads
- Flexibility in cluster design

Table 1. Minimum cluster requirements for Cisco Compute-Only nodes

Cluster attributes	Hyperconverged (HCI) node with Cisco Compute-Only node
Number of nodes	Minimum of 3 HCI nodes and minimum of 2 CO nodes
Nodes ratio	Nutanix recommends the following nodes ratio: 1 CO: 2 HCI-Default. 1 CO: 1 HCI (This is supported only when the total number of VMs is less than or equal to 128 times the number of HCI nodes).
Hypervisor	Hyperconverged node: Nutanix Acropolis Hypervisor (AHV) only Compute-Only node: Nutanix Acropolis Hypervisor (AHV) only
Management	Cisco Intersight® Managed Mode (IMM) Cisco Intersight® Standalone Mode (ISM)

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Cluster attributes	Hyperconverged (HCI) node with Cisco Compute-Only node
Licensing	NCI licenses on a per-core basis. For more information about NCI licenses, see NCI section in Nutanix Cloud Platform Software Options
Nutanix Cloud Platform software	Same as Cisco Compute Hyperconverged with Nutanix

B. Cisco Compute-Only node connected to Everpure Flash Array (FlashStack with Nutanix)

Everpure FlashArray//X and FlashArray//XL delivers mission-critical performance with the efficiency and resiliency that's missing from legacy arrays. FlashArray //X and FlashArray//XL packs more IOPS, ultra- consistent latency, and greater scale into a smaller footprint. Nondisruptive upgrades, always-on availability, and built-in data protection ensure workloads are always running while cutting risk. FlashArray//XL is designed to provide the highest performance density with a level of operational and management simplicity. FlashArray//C™ delivers a balanced all-flash storage solution optimized for file services and general-purpose workloads. With predictable performance, streamlined operations, and built-in cyber resiliency, it keeps applications consistently secure and positions organizations to outperform capacity-optimized, all-flash, and hybrid storage alternatives.

Nutanix Cloud Platform (NCP) consolidates computing, storage, and networking into a unified pool. It uses Nutanix Acropolis Operating System (AOS) for storage, Nutanix (Acropolis Hypervisor (AHV) for virtualization, and Prism Central for centralized management across environments.

The Cisco Compute-Only node with Nutanix Cloud Platform (NCP) and Everpure FlashArray solution delivers a disaggregated infrastructure architecture that enables independent scaling of compute and storage resources. This solution combines industry-standard Cisco Compute-Only node servers running Nutanix AHV and AOS connected to external Everpure FlashArray. This architecture leverages Everpure software-defined storage environment optimized for enterprise workloads. The FlashStack solution with Nutanix integration provides organizations with the agility to adapt infrastructure resources dynamically while maintaining enterprise-level reliability and performance.

Key benefits

- **Independent scalability:** scale compute and storage resources separately based on workload demands
- **Enterprise-grade protection:** built-in data protection and disaster recovery capabilities
- **Hybrid-cloud readiness:** seamlessly extend operations across on-premises and cloud environments
- **Investment protection:** use Nutanix Cloud Platform with existing external storage

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Table 1.1. Requirements for Connecting to Everpure FlashArray

Attributes	Cisco Compute-Only (CO) node connected to Everpure FlashArray
Cisco Compute-Only nodes	Nutanix Foundation allocates the following minimum resources to the CVM: (Dependent on AOS version) • CVM logical cores: 12 • CPU physical cores per Socket: 12 **Note:** For AOS releases earlier than version 7.6: CVM logical cores: 16, CPU physical cores per socket: 16 vRAM (in GiB): 32 (Please leverage Nutanix Sizer for all customer workload sizing) M.2 boot drives with M.2 RAID controller (minimum 480GB is recommended) Storage protocol: NVMe over Fabric (NVMeoF) over TCP 25Gb Ethernet network connection recommended between Cisco Nutanix Compute cluster and external storage (10Gb will be supported.) Minimum 3 CO nodes
Hypervisor	Nutanix AHV only
Management	Cisco Intersight Managed Mode (IMM) (or) Cisco Intersight Standalone Mode (ISM)
Everpure	FlashArray//, FlashArray//XL, FlashArray //C
Nutanix Cloud Platform software	Supported Nutanix software: • Nutanix Cloud Infrastructure (NCI) • Nutanix Cloud Manager (NCM) • Nutanix Cloud Platform (NCP) • Nutanix Kubernetes Platform (NKP)
Licensing	Nutanix Cloud Infrastructure (NCI) licenses on a per-core basis Nutanix Cloud Infrastructure: Compute (NCI-C) (2000 cores minimum) For more information about NCI licenses, see NCI section in Nutanix Cloud Platform Software Options.

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The Cisco Compute-Only C220 M7 Node family incorporates the 4th or 5th Gen Intel® Xeon® Scalable Processors with 60 percent more cores per socket and such advanced features as Intel Advanced Matrix Extensions (AMX), Data Streaming Accelerator (DSA), In-Memory Analytics Accelerator (IAA), and QuickAssist Technology (QAT). As a result, many applications will see significant performance improvements.

The Cisco Compute-Only C220 M7 Node can be repurposed as HCI node by adding drive controller and drives. For more information, please refer to Cisco Compute Hyperconverged with Nutanix-HCIAF220 M7 All-NVMe/All-Flash Server specification document.

These servers can be interconnected and managed in:

- **Intersight Managed Mode:** The nodes are connected to a pair of Cisco UCS 6400 Series, a pair of Cisco UCS 6500 Series, or a pair of Cisco UCS 6600 fabric interconnects that are entirely managed from Intersight (SaaS, PVA, or CVA). All servers are connected to the same pair of fabric interconnects.

Features

Table 2. Summary of features of Cisco Compute-Only C220 M7 Node

Feature	Benefits	
Memory	• High memory capacity • Up to 4 TB memory (32 x 128 GB DDR5 DIMMs)	
Processors	5th Generation Intel Xeon Scalable Processors (Emerald Rapids) • Massive processing power with up to 64 cores per socket • 5 MB of L3 cache per core • Speed-select technology that supports high- and low-priority cores. • Up to 80 PCI Express 5.0 lanes • High-speed DDR5 memory technology for up to 5600 MT/s • Multiple built-in accelerators for new functional capabilities across AI, analytics, security, and storage	4th Generation Intel Xeon Scalable Processors (Saphire Rapids) • 10-nanometer (nm) processor technology • Processing power with up to 60 cores per socket • Larger L2 and L3 cache • High-speed DDR5 memory technology for up to 4800 MT/s

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Feature	Benefits	
Unified network fabric	• Wire-once deployment model, eliminating the need to install adapters and re-cable racks and switches when changing I/O configurations • Fewer interface cards, cables, and upstream network ports to purchase, power, configure, and maintain	
Cloud-based services and management	Cisco Intersight simplifies infrastructure operations across on-premises data centers, edge sites, and public clouds • Use a software-as-a-service platform that bridges applications with infrastructure • Correlate visibility and management across bare-metal servers, hypervisors, and application components • Transform operations with artificial intelligence to reach needed scale and velocity	Nutanix Cloud Platform (NCP) includes Nutanix Cloud Infrastructure (NCI or NCI-C), Nutanix Cloud Management (NCM), and desktop services: • NCI unifies compute, storage, and network, hypervisors, and containers, in public or enterprise clouds • NCM offers customers simplicity and ease of use to build and grow their cloud deployments and realize rapid ROI, by providing intelligent operations, self- service and orchestration, visibility, and governance
Security	• Trusted Platform Module (TPM), a chip (microcontroller) that can securely store artifacts, including passwords, certificates, and encryption keys, which are used to authenticate the platform (node). Supports TPM 2.0 • Software based data-at-rest encryption and microsegmentation	

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Product specifications

Table 3. Specifications for Cisco Compute-Only C220 M7 Node

Feature	Common specifications across the Cisco Compute-Only C220 M7 Node family
Chassis	1RU of rack space per node
Processors	**Either:** One or two 5th Gen Intel Xeon Scalable Processors (Emerald Rapids) **Or:** One or two 4th Gen Intel Xeon Scalable Processors (Sapphire Rapids)
Memory	**Either:** 32 DDR5-5600 DIMM slots (16 DIMMS per CPU): 16, 32, 48, 64, 96, 128GB at up to 5600 MT/s for up to 4TB of memory with 5th Gen Intel Xeon Scalable processors **Or:** 32 DDR5-4800 DIMM slots (16 DIMMS per CPU): 16, 32, 64, 128GB at up to 4800 MT/s for up to 4TB of memory with 4th Gen Intel Xeon Scalable processors
Boot drives	• Dual M.2 SATA SSDs with HW RAID support • 240GB M.2 SATA SSD, 480GB M.2 SATA SSD (480GB is recommended.)
PCIe	• 3 PCIe 4.0 slots or up to 2 PCIe 5.0 slots plus 1 dedicated 12-Gbps RAID controller slot and 1 dedicated mLOM slot
Graphics Processing Units (GPUs)	• NVIDIA L4 GPU card (optional)
Network	• Cisco UCS Virtual Interface Card 15428, 15238, 15427, or 15237 (modular LAN on motherboard) • Quad 10/25/50 G or Dual 40/100 G Ethernet VIC (Cisco UCS Virtual Interface Card 15425 or 15235) (optional)
Management	• Cisco Intersight • Cisco Integrated Management Controller (CIMC)

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Feature	Common specifications across the Cisco Compute-Only C220 M7 Node family
Advanced Reliability, Availability, and Serviceability (RAS) features	• Robust reporting and analytics • Dual-redundant fans and hot-swappable, redundant power supplies for enterprise-class reliability and a convenient latching lid for easy access to internal server • Tool-free CPU insertion, enabling processor upgrades and replacements with less risk of damage • Tool-free access to all serviceable items, and color-coded indicators to guide users to hot-pluggable and serviceable items • Nondisruptive rolling upgrades using Nutanix Life-Cycle Manager (LCM)
Front-panel connector	• 1 KVM console connector per node (each connector supplies 2 USB connectors, 1 VGA connector, and 1 serial connector)
Front-panel locator LED	• Helps direct administrators to specific servers in large data-center environments
Additional rear connectors	• 1 Gigabit Ethernet management port • 1 RS-232 serial port (RJ45 connector) • 1 Video Graphics Array (VGA) video port (DB15 connector) • 2 USB 3.0 ports
Power and cooling	• One or two hot-pluggable power supplies • Second power supply provides 1+1 redundancy • 770W, 1200W, 1600W, or 2300W AC power supplies or 1050 DC power supply • 8 hot-swappable fans for front to rear cooling
Rail-kit options	• Cisco ball-bearing rail kit with optional reversible cable-management arm

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Ordering information

For a complete list of part numbers, refer to the Cisco Compute Hyperconverged and Compute-Only (CO) Node Server with Nutanix sheet.

Table 4. Ordering information

Part number	Description
HCI-M7-MLB	Cisco Compute Hyperconverged and Compute-Only M7 with Nutanix MLB
HCIAF220C-M7SN	Cisco Compute Hyperconverged 220cM7 All NVMe Nutanix Node
HCIAF220C-M7S	Cisco Compute Hyperconverged 220cM7 All Flash Nutanix Nod
HCOAF220C-M7SN	Cisco Compute-Only 220cM7 All NVMe Nutanix Node
HCOAF220C-M7S	Cisco Compute-Only 220cM7 All Flash Nutanix Node

Cisco Services

Cisco, Nutanix, and our industry-leading partners deliver services that accelerate your transition to Cisco Compute Hyperconverged systems. Professional services can help you create an agile infrastructure, accelerate time to value, reduce costs and risks, and maintain availability during deployment and migration. After you have deployed your system, our services can help you improve performance, availability, and resiliency as your business needs evolve.

Product sustainability

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

Table 5. 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

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Document history

New or revised topic	Described in	Date
Cisco Compute-Only (CO) C220 M7 Node	Data sheet	December 2025
Minimum cluster requirements for Cisco Compute-Only nodes.	Table 1, Management 1.1 Requirements for Connecting to External Storage	August 2026
Nutanix Foundation	Table 2	September 2026

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