

Dell XC Core



The Dell XC Core, hyperconverged appliance for Nutanix Cloud Platform, integrates Dell's PowerEdge server platforms to deliver enterprise-grade infrastructure solutions tailored for virtualized environments. These 1U and 2U appliances consolidate compute and storage into a single platform, enabling organizations to deploy new workloads quickly and easily while scaling performance and capacity one node at a time.

Built on Dell PowerEdge servers powered by Intel® Xeon® processors, XC core offers multiple configurations for compute, memory, storage, network, and accelerators. With the ability to scale capacity and performance linearly and predictably—one node at a time—XC Core delivers pay-as-you-grow flexibility, empowering IT teams to innovate and accelerate application delivery across hybrid clouds. Eliminate the complexity of hybrid cloud environments with a single platform powered by Nutanix for on-premises, public cloud, and edge locations.



Streamline operations with a powerful single management plane

The Nutanix Prism management framework provides a highly intuitive, easy-to-use graphical user interface (GUI). Prism provides the ability to define and manage the XC Core from nearly any device and includes REST APIs for integration with third-party cloud management systems. It also gives administrators a bird's eye view of resources across multiple clusters running different hypervisors and enables them to manage individual clusters using the GUI or a Windows PowerShell command-line interface. The enhanced Nutanix lifecycle management works with XC iDRAC for faster, streamlined updates, while automated app-aware data management boosts resiliency, application performance, and read consistency.



Optimize performance for traditional and modern workloads

Dell Technologies' 14+ years of experience in integrating hardware and Nutanix software helps design, validate and test the optimal processor, memory, and storage configurations for XC Core. This experience simplifies common workflows throughout the lifecycle, starting with factory-installed hypervisors and pre-configured system settings for maximum performance. With built-in Nutanix intelligence that utilizes AI and adaptive machine learning, XC Core ensures optimal application performance, data-driven resource planning, and automatic detection and resolution of slowdowns and security events. Pre-configured options with flexible compute and storage ratios, including all-flash configurations and support for Nutanix AHV, making them ideal for running diverse applications on a single platform. This versatility supports a wide array of applications and requirements that includes VDI, databases, server virtualization, and AI workloads. Accelerate your digital transformation with a modern, container-ready infrastructure that powers both traditional and cloud-native applications on a single platform, maximizing business continuity.

Dell XC HW platforms

Node	XC660xs	XC660	XC760	XC760xa	XC7625	XC4000
Chassis	4 x 3.5" drives	10 x 2.5" SSD, 12 x 2.5" NVMe	12 x 3.5" drives + 2x2.5" rear 24 x 2.5" drives (All SSD and All NVMe)	6 x 2.5" drives NVMe	24 x 2.5" drives (w/NVMe)	4 or 8 x M.2 drives
Form Factor	1U Single socket or Dual socket	1U Dual socket	2U Dual socket	2U Dual socket	2U Dual socket	2U Up to 4 nodes for 4000r, 2 nodes for 4000z
CPU	Single or Dual Intel Xeon Scalable Gen Up to 32 Cores per processor	Dual Intel Xeon Scalable Gen Up to 52 Cores per processor	Dual Intel Xeon Scalable Gen Up to 56 Cores per processor	Dual Intel Xeon Scalable Gen Up to 56 Cores per processor	Dual AMD EPYC Up to 128 cores per processor	Single Intel Xeon-D Up to 20 core
Memory	Dual proc: Min 64GB to Max 1024GB Single proc: Min 32GB to Max 512GB	Min 128GB to Max 4096GB	Min 128GB to Max 4096GB	Min 128GB to Max 8192GB	Min 128GB to Max 3072GB	Min 64GB, Max 512GB
Storage Capability	Up to 55.36 TB All SSD, SSD+HDD	Up to 184.32 TB All SSD, All NVMe	Up to 368.64 TB All SSD, SSD/HDD, All NVME	Up to 92.16 TB All NVMe	Up to 368.64 TB NVMe+SSD, All SSD, All NVMe	Up to 30.72TB All NVMe
Data Storage controller	HBA355	HBA355	HBA355i*	N/A	HBA355i	N/A
GPU	N/A	Up to 3x Nvidia L4	Up to 2x DW (A16, A30, A40, A800 China only), L40, L40s) Up to 2x SW (L4) **	Up to 4x DW (A16, A30, A40, A800 (China only), L40, L40s) Up to 8x SW (L4)	Up to 2x DW (A16, A30, A40, A800 (China only), L40s, L40, Up to 2x SW (L4)	Up to 2 A2, and up to 1 L4, A30 (2U only)
Workload	Simple HCI workloads in ROBO	VDI, test/dev, private cloud, virtualized apps	Storage heavy, high performance, AI, Exchange, SharePoint, big data, MSSQL, Oracle	High Density with GPU, AI ML	High performance, multi-thread architecture workloads (VDI, database), AI/ML	Harsh edge environments requiring rugged nodes - Industrial Automation, Transportation, Military & Defense, Marine, and Telecom industries
Networking	OCP cards: Intel 10 and 25Gb; Mellanox 25 and 100Gb; Broadcom 10, 25 and 100Gb (not available on XC4000) Optional Network Interface Cards: Intel 10, 25 and 100Gb; Mellanox 25 and 100Gb; Broadcom 10, 25 and 100Gb Note: Foundation imaging requires min 10GbE interface					

*No Controller for XC760-24N

**XC760-14 configuration does not support GPU options

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Built-in security

The XC is built on a cyber-resilient architecture with security integrated throughout the product lifecycle. Dell Technologies ensures system security from design to disposal.

Key features include:

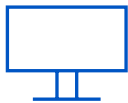
- Secure component supply chain: Protects data from the factory to data center.
- Cryptographically signed firmware and Secure Boot: Safeguard data integrity.
- Server Lockdown: Prevents unauthorized system changes.



Dell support and deployment services

Dell XC nodes are expertly installed by certified engineers, ensuring a smooth deployment process. Dell and Nutanix offer joint support, with Dell handling hardware and integration, and Nutanix focusing on software. For complex issues spanning both hardware and software, both companies work seamlessly together to deliver rapid resolutions.

Proactive tools that include iDRAC and SupportAssist predict and prevent hardware issues, minimizing downtime. Dell's 24/7 global support team across 167 countries offers assistance in multiple languages, providing unparalleled support and rapid resolutions.



Learn more about
Dell XC family ›



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