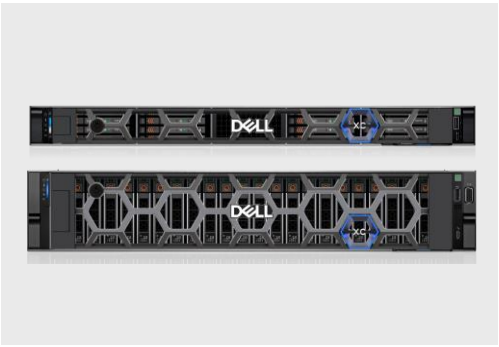
DELL Technologies

Data Sheet / Specification Sheet



Dell XC Family

Hyperconverged Infrastructure Solutions

The Dell Technologies™ XC Family of hyperconverged appliances integrates our PowerEdge server platform and Nutanix software to provide enterprise-class infrastructure solutions for virtualized environments. Backed by Dell's Global Service and Support organization, these 1U and 2U appliances with Intel and AMD processor options consolidate compute and storage into a single platform enabling application and virtualization teams to quickly and simply deploy new workloads. This solution enables data center capacity and performance to be easily expanded — one node at a time — delivering linear and predictable scale-out expansion with pay-as-you-grow flexibility. The XC Family consists of XC Core Systems. XC Core offers customers an additional method to acquire Nutanix software licensing while leveraging the benefits of the Dell XC platform. XC Core uses the same PowerEdge hardware, however, the HCI software is licensed separately and supported directly by Nutanix. Support and service for Dell hardware and system integration software are provided through our ProSupport centers and teams located in 167 countries around the world.

This alternative lets customers buy Nutanix software licenses from authorized partners, and then add the licenses to pre-validated.

XC Core systems are configured, built and tested by Dell. It enables license portability across infrastructure components and separate management and support of hardware and Nutanix software lifecycles. Customers also can update the Dell Technologies hardware and Nutanix software independently to take full advantage of the latest technology enhancements to the XC Family.

Ideal for virtualized workloads

XC Family solutions are ideal for all enterprise workloads and applications running in virtual environments. Preconfigured options with flexible ratios of compute and storage including all flash configurations, coupled with support for Nutanix AHV and VMware® ESXi™, make them ideal for running different applications on the same platform in your data center. They can be easily deployed and support multiple virtualized, business- critical workloads including VDI, private cloud, database, OLTP and data warehouse as well as virtualized big data deployments.

Intuitive and powerful management interface

The Nutanix Prism Central management framework provides a highly intuitive, easy-to-use graphical user interface (GUI). All information is organized and presented through elegant touch points to facilitate easy consumption of operational data. Prism provides the ability to define and manage a complete hyper-converged infrastructure 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.

Adding value to Nutanix software

Dell Technologies has over 14 years of experience integrating hardware and software for appliances built with PowerEdge servers. That expertise helps us design, validate and test the optimal processor, memory, and storage configurations for Nutanix software. It also enables us to develop technologies that simplify and streamline common workflows performed throughout the appliance's lifecycle. This starts with factory installation of the hypervisor of choice and pre-configuration of system settings to maximize performance of the Nutanix software. Other examples include one-click BIOS, firmware and software updates, software modules that deliver fast and seamless deployment, rapid factory restore and bare metal recovery, rich in-band hardware monitoring and management capabilities, and components developed specifically for HCI to simplify workflow orchestration across a cluster.

Built-in Security

Every XC system is based on a cyber-resilient architecture, with security built into all parts of the server's life cycle. XC uses these security features so you can reliably and securely deliver the right data wherever it's needed. Dell Technologies considers each part of system security, from design to end-of-life, to ensure trust and provide worry-free systems that enable you to:

- Rely on a secure component supply chain to ensure protection from the factory to the data center
- Maintain data safety with cryptographically signed firmware packages and Secure Boot
- Prevent unauthorized or malicious change with Server Lock down
- Wipe all data from storage media including drives and system memory quickly and securely with System Erase

Configurations and features	XC660xs-4/ XC660xs-4s[1]	XC660-10/12N[1]	XC760-14	XC760-24	XC760-24N
Form factor	1U, single socket for 660xs-4s, 1U, 2 socket for 660xs-4	1U, 2 socket	2U, 2 socket		
Workload	Simple HCI workloads in ROBO and small office settings.	VDI, test/dev, private cloud, virtualized apps. GPU and VMD support	Storage heavy Exchange, SharePoint, big data. No GPU support, no VMD	High Performance MSSQL, Oracle, AI	All NVMe w/VDI support, AI
Dell PowerEdge Servers	R660xs	R660	R760		
Hypervisor boot	Boot Optimized Storage Solution - 2 x M.2 internal with Internal BOSS card				
Hypervisor options	Nutanix AHV VMware® ESXi™ 7.0u3				
Support	Hardware: 1 - 7 year Dell ProSupport or ProSupport One Software: support provided by Nutanix				
Intel® Xeon® processors (dual only per node except XC660xs-4s (single))	Min: 8 cores Max: 32 cores 205W max TDP **24 core limit w/hybrid configs** **4s:** 3408U, 5412U, 6414U **Both** 4410T, 4410Y, 4416+, 5415+, 5416S, 5418Y, 5420+, 6426Y, 6438Y+	Min: 8 cores Max: 52 cores Dual only: 4410Y, 4416+, 5415+, 5416S, 5418N, 5418Y, 5420+, 6426Y, 6428N, 6430, 6434, 6438M, 6438N, 6438+, 6442Y, 6544Y, 6448Y, 6454S, Only available on -10 8452Y, 8460Y+, 8462Y+, 8470N, 8471N	Min: 8 cores Max: 56 cores Dual only: 4410Y, 4416+, 5415+, 5416S, 5418N, 5418Y, 5420+, 6426Y, 6428N, 6434, 6428M, 6438N, 6438Y+, 6442Y, 6448Y Only available on the XC760-24 and -24N 6430, 6444Y, 6454S, 8452Y, 8460Y+, 8462Y+, 8468, 8470,8470N, 8480+		
Data storage controller	HBA355		HBA355i	HBA355i	No Controller

1. The release of XC660xsc XC660-12N and XC760-24N to be announced and made available later

Configurations and features	XC660xs-4/ XC660xs-4s[1]	XC660-10/12N[1]	XC760-14	XC760-24	XC760-24N
Drive type	4 x 3.5” drives	10/12 x 2.5” drives	12 x 3.5” drives (front) and 2 x 2.5” (rear)	24 x 2.5” drives	24 x 2.5” drives
SSD Capacities	SAS/SATA SSDs: 1.6TB, 1.9TB, 3,8TB, 7.68 Min/Max: 2 for hybrid configurations All flash SAS/SATA configurations available Qty 2 or 4 drives	SAS/SATA SSDs:1.6TB,1.9TB, 3,8TB, 7.68TB Min: 4 all flash SAS/ SATA NVMe only configurations available on 12N 4-12x NVMe NVMe: 1.6TB, 3.2TB, 6.4TB, 7.6TB, 15.36	SAS/SATA SSDs: 1.6TB, 1.9TB, 3,8TB, 7.68TB Min: 2, Max: 4 for hybrid configurations All flash SAS/SATA configurations available Min: 4 for all flash	SAS/SATA SSDs: 1.6TB,1.9TB, 3,8TB, 7.6TB All flash SAS/ SATA Min: 4, Max: 24	NVMe SSDs: 1.6TB,3.2TB, 6.4TB, 7.6TB, 15.36 Min: 4 (increments of 2)
HDD capacities	8TB, 12TB, 16TB, 20TB	N/A	8TB, 12TB, 16TB, 20TB, 22TB 12Gb	N/A	N/A
Self-encrypting drives (SED)	SSD:1.92TB, 3.84TB, 7.68TB HDD: 8TB, 12TB	SSD: 1.92TB, 3.84TB, 7.68TB	SSD: 1.92TB, 3.84TB, 7.68TB HDD:8TB, 12TB, 16TB	SSD: 1.92TB 3.84TB, 7.68TB	N/A
DIMMs	RDIMMS (16GB, 32GB, 64GB) installed in pairs	RDIMMs (32GB, 64GB, 128GB) installed in pairs			RDIMMs (32GB, 64GB, 128GB) installed in pairs
Memory configs	Min: 64GB (16x4), Max: 1024GB Up to 16 RDIMM	Min: 128GB (32x4), Max: 4096GB - 32 DIMM slots Up to 32 RDIMMs			128GB (min) to 4096GB (max). Up to 32 RDIMMs
GPU	N/A	Up to 3x Nvidia L4 Up to 2x A2	N/A	Up to 2x DW (A16, A30, A40, A100, A800(China only), H100, L40) Up to 2x SW (L4) Up to 6x SW (A2)	Up to 2x Nvidia A2
Networking options	OCP cards: Intel 10 and 25Gb; Mellanox 25Gb; Broadcom 10 and 25Gb Optional Network Interface Cards: Intel 10, 25 and 100Gb; Mellanox 25 and 100Gb; Broadcom 10, 25 and 100Gb Note: 1) Foundation imaging requires 1x 10GbE interface 2) Network interface cards are for management and non-CVM traffic only and cannot be used for Foundation imaging.				

1. The release of XC660xs, XC660-12N and XC760-24N to be announced and made available later

Configurations and features	XC760xa[1]	XC7625-24	XC4000 (4000r and z, 4510c, 4520c)
Form factor	2U, 2 socket	2U, 2 socket	2U, up to 4 nodes for 4000r, 2 nodes for 4000z
Workload	High Density with GPU, AI ML	High performance, multithread architecture workloads (VDI, database), AI ML	Harsh environments requiring rugged nodes in Oil & Gas, Industrial Automation, Transportation, Military & Defense, Marine, and Telecom industries
Dell PowerEdge Servers	R760xa	R7625	XR4000
Hypervisor boot	Boot Optimized Storage Solution - 2 x M.2 internal with Internal BOSS card		
Hypervisor options	Nutanix AHV VMware® ESXi™ 7.0u3		
Support	Hardware: 1 - 7 year Dell ProSupport or ProSupport One Software support provided by Nutanix		
Intel® Xeon® processors (dual only per node except XC4000 which is single only) XC7625 is based on AMD EPYC™ architecture	Min: 12 cores, Max: 40 cores Dual only: 4410Y, 4416+, 5416S, 5418Y, 5420+, 6426Y, 6438M, 6438Y+, 6442Y, 6448Y, 8452Y, 8458P, 8460Y+, 8462Y+, 8468, 8470, 8480+	AMD EPYC: 9124, 9174F, 9224, 9254, 9274F, 9334, 9354, 9274F, 9454, 9474F, 9534, 9554, 9634, 9654, 9734, 9754	Intel Xeon-D 2733NT, 2753NT, 2776NT, 2796NT
Data storage controller	N/A	HBA355i	N/A
GPU	Up to 4x DW (A16, A30, A40, A100, A800(China only), H100, L40) Up to 12x SW (A2) Up to 8x SW (L4)	Up to 2x DW (A16, A30, A40, A100, A800(China only), H100, L40) Up to 6x SW (A2) Up to 2x SW (L4)	Qty 2 L4 and Qty 1 A30
Drive type	6 x 2.5” drives	24 x 2.5” drives(w/NVMe)	4 x M.2 drives
SSD capacities	NVMe SSDs: 1.6TB, 3.2TB, 6.4TB, 7.6TB, 15.36	SAS/SATA SSD’s:1.92TB, 3.84TB, 7.68TB NVMe SSDs: 1.6TB, 3.2TB, 6.4TB, 7.6TB, 15.36TB (max 8 only in 24 drive)	M.2 NVMEs: 960GB, 1.92TB, 3,84TB (Min/Max: 4)
HDD	N/A	N/A	N/A
Self-encrypting drives (SED)	N/A	SSD: 1.9TB, 7.68TB, 3.84TB	N/A
DIMMs	RDIMMs (32GB, 64GB, 128GB, 256GB) installed in pairs	RDIMMs (32GB, 64GB) LRDIMMs 128GB installed in pairs	4 per node x 16GB, 32GB, 64GB or 128GB RDIMMs installed in pairs
Memory configs	128GB (min) to 8192GB (max) Support up to 16 DIMMs per processor	Min: 128GB (32x4), Max: 3072GB Up to 24 DIMMs	Up to 4x DDR4. Min: 64GB
Networking Options	OCP cards: Intel 10 and 25Gb; Mellanox 25Gb; Broadcom 10 and 25Gb (not available on XC4000) Optional Network Interface Cards: Intel 10, 25 and 100Gb; Mellanox 25 and 100Gb; Broadcom 10, 25 and 100Gb Note: 1) Foundation imaging requires 1x 10GbE interface 2) Network interface cards are for management and non-CVM traffic only and cannot be used for Foundation imaging		

1. The release of XC760xa, XC7625 and XC4000 to be announced and made available later

Hypervisor and AOS Support	VMware ESXi 7.0u3	Nutanix AHV (all versions)	AOS LTS 6.5.3.5 and above	AOS 6.7 and above
XC660xs	X	X	N/A	X
XC660-10/12N	X	X	X(10)	X(12n)
XC760-14	X	X	X	N/A
XC760-24	X	X	X	N/A
XC760-24N	X	X	N/A	X
XC760xa	X	X	N/A	X
XC7625	X	X	N/A	X
XC4000	X	X	N/A	X

Dell Technologies XC Core support and deployment services

XC Core nodes are installed in the customer's data center by certified XC Family deployment engineers. Once deployed, XC Core customers will receive collaborative support from Dell and Nutanix. Hardware and system integration software issues are managed through Dell ProSupport while software-related assistance is provided by Nutanix. If the source is unknown, customers can either call Dell or Nutanix first and both companies will work together through an established process to quickly resolve the issue.

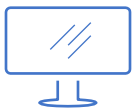
In addition, our automated proactive and predictive tools and technologies, including iDRAC and SupportAssist, help avoid hardware-related issues and enable faster resolution. Our ProSupport experts are always accessible 24x7x365 by phone, email, chat and social media across 167 countries and 55 languages served by more than 1,000 parts distribution centers.

End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell Technologies for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Technologies Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational

efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.

Simplify Your Storage at Dell.com/XCCore



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