OEM PowerEdge XR4000

Experience utlimate flexibility with Dell's shortest depth edge server

Dell Technology's shortest-depth edge server

The new Dell OEM PowerEdge XR4000 is a 2U server with an innovative sled-based design. Dell's shortest depth server to date is purpose-built for the edge; delivering high-performance compute and ultimate deployment flexibility in two new chassis form factors.Process and analyze data at the point of capture. Designed for workloads at the Edge including virtual desktop integration (VDI), Machine vision, Video surveillance, vSAN/VM, Point-of-sale and Data compression.

New Nano Server

- Create a self-contained 2-node VM cluster in a footprint not much larger than a shoebox with dell Nano Witness Server included in-chassis
- Rackable chassis supports up to 4 separate server nodes in a single 2U chassis
- Storage up to 12 x M.2 NVMe for total capacity of 45Tb per sled

Multi-node design

- Uses Intel® Xeon D® with up to 20 cores per node for ultimate edge performance
- Reduce service complexity with a sled-based chassis that allows for a 'pull-replace-repair' model
- Scale when you need it by adding sleds as your operation demands grow

Purpose built for the edge.

- Can operate in temp ranges from -5C to 55C and is rated to MIL 810H and NEBS Level 3
- Gain ultimate deployment flexibility with optional 'stackable' and 'rackable' chassis with options to mount on walls or place on shelves when space is at a premium
- Withstand dusty and harsh environments while providing extra physical security with an optional lockable intelligent filtered bezel

Cyber Resilient Architecture for Zero Trust IT environment & operations

Security is integrated into every phase of the PowerEdge lifecycle, including protected supply chain and factory-to-site integrity assurance. Silicon-based root of trust anchors end-to-end boot resilience while Multi-Factor Authentication (MFA) and role-based access controls ensure trusted operations.

Increase efficiency and accelerate operations with an autonomous infrastructure

The Dell OpenManage™ systems management portfolio delivers a secure, efficient, and comprehensive solution for PowerEdge servers. Simplify, automate and centralize one-to-many management with the OpenManage Enterprise console and iDRAC.

Sustainability

From recycled materials in our products and packaging, to thoughtful, innovative options for energy efficiency, the PowerEdge portfolio is designed to make, deliver, and recycle products to help reduce the carbon footprint and lower your operation costs. We even make it easy to retire legacy systems responsibly with Dell Technologies Services.

Rest easier with Dell Technologies Services

Maximize your PowerEdge Servers with comprehensive services ranging from Consulting, to ProDeploy and ProSupport suites, Data Migration and more – available across 170 countries and backed by our 60K+ employees and partners.

PowerEdge XR4000

The Dell PowerEdge XR4000 is a high-performance server designed and optimized for edge use cases like

- Virtualization Desktop Infrastructure (VDI)
- Virtual Machines
- Video surveillance
- vSAN/VM
- Point of sale
- Data communication

Feature	Technical Specifications for XR4000r and XR4000z with XR4510c and XR4520c
Processor	1 x 3rd Generation Intel Xeon D Scalable processor with up to 20 cores
Memory	• 4 x DDR4 DIMM slots, supports RDIMM 256 GB max and LRDIMM 512 GB max, with speeds up to 2933 MT/s • Supports registered ECC DDR4 DIMMs only
Storage controllers	Internal boot: Boot Optimized Storage Subsystem (BOSS-N1): 2 x M.2 SSDs 480 GB or 960 GB, USB
Storage	• 8 x M.2 NVMe SSDs on PCIe Add-in card (XR4520c) • 4 x M.2 NVMe SSDs on M.2 riser module
Chassis	XR4000r and XR4000z
Sleds	XR4510c, XR4520c and optional XR4000w
Power Supplies	• 1800W Platinum 200-240 VAC or 240 HVDC, hot swap redundant • 1400W Platinum 100-240 VAC or 240 HVDC, hot swap redundant • 1100W Platinum 100-240 VAC or 240 HVDC, hot swap redundant (for XR4000r only) • 1100W DC/ -48-(-60) V
Fans	Up to 3 Standard (STD) cabled cooling fans with reverse and normal air-flow in XR4510c and XR4520c sleds

Dimensions and weight

XR4000r	XR4000z

• Height — 87.05 mm (3.42 inches)
• Width — 434 mm (17.08 inches)
• Depth — 455.05 mm (17.91 inches) with bezel
    — 375.28 mm (14.77 inches) without bezel
• Weight —19.14 kg (42.20 pound)
	• Height — 97.05 mm (3.82 inches) with sidepanel
	    — 87.05 mm (3.42 inches) without sidepanel
	• Width — 307 mm (12.08 inches) with sidepanel and bezel
	    — 266 mm (10.47 inches) without sidepanel and bezel
	• Depth — 455 mm (17.91 inches) with bezel
	    — 375.2 mm (14.77 inches) without bezel
	• Weight — 12.16 kg (26.80 pound)

XR4510c	XR4520c
• Height — 41.25 mm (1.62 inches) • Width — 167.2 mm (6.58 inches) • Depth — 342.5 mm (13.48 inches) • Weight — 2.46 kg (5.42 pound)	• Height — 83.25 mm (3.27 inches) • Width — 167.2 mm (6.58 inches) • Depth — 342.5 mm (13.48 inches) • Weight — 4.69 kg (10.34 pound)

Form Factor

XR4510c	XR4520c
• Up to four independent, 2U single-width, 1-processor server sled in a XR4000r chassis • Up to two independent, 2U single-width, 1-processor server sled in a XR4000z chassis XR4000w • One XR4000w (optional) per XR4000r or XR4000z chassis	• Up to two independent, 2U single-width, 1-processor server sled in a XR4000r chassis • One independent, 2U single-width, 1-processor server sled in a XR4000z chassis

Feature	Technical Specifications
Embedded Management	• iDRAC9 • iDRAC Direct • iDRAC RESTful API with Redfish • iDRAC Service Module
Bezel	Security bezel on XR4000r and XR4000z
OpenManage Software	• OpenManage Enterprise • OpenManage Power Manager plugin • OpenManage Service plugin • OpenManage Update Manager plugin
OpenManage Integrations	• BMC Truesight • Microsoft System Center • OpenManage Integration with ServiceNow • Red Hat Ansible Modules • Terraform Providers • VMware vCenter and vRealize Operations Manager
Security	• Cryptographically signed firmware • Secure Boot • Secure Erase • Silicon Root of Trust • System Lockdown (requires iDRAC9 Enterprise or Datacenter) • TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ
Network I/O board	• 4 x 10GbE SFP (max 50 Gb) • 4 x 25GbE SFP (max 100 Gb)
GPU	Up to 2 x 150W single-width GPUs or 1 x 250W double-width GPU in XR4520c

Ports

Front ports	Internal port
• 1 x iDRAC Direct (Micro-AB USB) port • 2 x USB 3.0 • 1 x Serial port • 1 x Mini-DisplayPort • 1 x RJ45 iDRAC9 ethernet port	• 1 x USB 3.0 (optional)

Feature	Technical Specifications
PCIe	• 2 PCIe slots: 2 x16 Gen4 (x16 connector) full height, full length in XR4520c
Operating Systems and Hypervisors	• Azure Stack HCI • Canonical Ubuntu Server LTS • Microsoft Windows Server with Hyper-V • Red Hat Enterprise Linux • SUSE Linux Enterprise Server • VMware ESXi For specifications and interoperability details, see Dell.com/OSsupport.

Feature	Technical Specifications for XR4000w
Processors	1 Intel Atom 3508 series processor with 4 cores
Memory	DDR4 Memory with ECC (Soldered on system board) 16 GB Max, with speeds upto 1800 MT/s
Storage	1 x M.2 SSD 480 GB or 960 GB
Cooling options	Air cooling
Fans	1 standard cable fan installed in XR4000r or XR4000z chassis
Dimension and Weight	• Height — 83.25 mm (3.27 inches) • Width — 21.60 mm (0.85 inches) • Depth — 249.43 mm (9.82 inches) • Weight — 0.44 kg (0.97 pound)
Embedded NIC	2 x 1 GbE Intel I210 RJ45 ports
Ports	1 x USB 3.0 port 1 x MicroUSB System console port
Operating System and Hypervisors	VMware ESXi Note: For specifications and interoperability details, see Dell.com/OSsupport
OEM-ready version available	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit Dell.com/OEM.

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