PowerEdge XR8000

Sled based, Flexible, Rugged Compute

Dell Technology's multi-node, short depth, dense compute for the edge

Experience ultimate flexibility at the edge with Dell's purpose-built server featuring an innovative sled-based architecture positioned to take us farther than any other Edge product. Designed for a broad range of workloads with the flexibility to extend from RAN at the cell site to AI/ML on a factory floor. This short-depth Class 1 server delivers high-performance compute in the harshest of environments with TCO at the center of every design decision.

Ultimate Flexibility for Scalability

Choose from multiple sled configurations with up to 4 nodes per chassis to meet all your growing and changing workloads

- 1U and 2U sled options for optimum compute configurations enabling common platforms across Core, Edge, Far-edge, and RAN
- 5th and 4th generation Intel® Xeon® Scalable Processors up with optional vRAN boost upto 32 cores
- Both DC and AC power supply options

TCO Optimized Design

Reduce support and maintenance costs, decrease service outages, and capitalize on energy savings

- Advanced system power design enables dual PSUs to support up to 4 sleds
- Integrated fan infrastructure to support higher efficiency cooling
- Compute, power, sleds and chassis are serviceable separately simplifying field maintenance

Purpose built for the edge

Achieve high-performance compute in any environment

- Built rugged to operate in temperatures from -20°C to 65°C*
- Offers easy serviceability with front I/O and power
- Short-depth (430 mm) chassis to fit in space constrained environments

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 locations and backed by our 60K+employees and partners.

> ## PowerEdge XR8000
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> The Dell PowerEdge XR8000 is a high-performance server designed and optimized for telecom and edge use cases like
>
> - Centralized RAN
> - Distributed RAN
> - Network Edge
> - Manufacturing
> - Retail
> - Military & Defense

*with optional Heater Manager and 65°C in certain configurations

Feature	Technical Specifications for XR8000r XR8610t and, XR8620t		
Processor	1 x 4th Generation Intel® Xeon® Scalable processor with optional vRAN boost up to 32 cores or 1 x 5th Generation Intel® Xeon® Scalable processor up to 16 cores		
Memory	• 8 x DDR5 DIMM slots, supports RDIMM total 512 GB with max speeds up to 5600 MT/s • Supports registered ECC DDR5 DIMMs only		
Storage	• 2 x M.2 2280 or 22110 direct connect NVMe drives with dual M.2 NVMe direct riser module (non-RAID) in XR8620t • 2 x M.2 2280 SSDs on ROR-N1 (RAISER) with RAID 0/1 in XR8620t • BOSS N1 with 2 x 2280 NVMe SSDs in XR8620t and XR8610t • Single M.2 riser with 1 x 2280 M.2 SSD in XR8610t and XR8620t • Dual M.2 riser (non-RAID) with 2 x M.2 2280 or 22110 M.2 SSDs in XR8610t		
Chassis	• XR8000r		
Sleds	• XR8610t and XR8620t		
Hot swap Redundant Power Supplies	• 1800 W Titanium 200—240 VAC or 240 HVDC • 1400 W Platinum 100—240 VAC or 240 HVDC	• 1400W DC/ -48 — (-60) V • 1100W DC/ -48 — (-60) V • 800W DC/ -48 — (-60) V	
Heating and Cooling Options	• Air cooling • Optional Heater Manager		
Fans	Up to 4 standard cabled cooling fans with reverse air-flow installed in XR8610t sled and up to 8 Standard (STD) cabled cooling fans with reverse air-flow installed in XR86620t sled		
Dimensions and Weight	XR8000r • Height — 87.05 mm (3.42 inches) • Width — 482.6 mm (19 inches) with bezel • — 482 mm (18.97 inches) with mount ear without bezel • — 448 mm (17.63 inches) without mount ear • Depth — 430 mm (16.92 inches) cable management to rear wall • — 350 mm (13.77 inches) mounting surface to rear wall • Weight — 18.52 kg (40.84 pounds)	XR8610t • Height — 41.25 mm (1.62 inches) • Width — 184.8 mm (7.27 inches) • Depth — 433.5 mm (17.06 inches) • Weight — 5.36 kg (11.83 pound)	XR8620t • Height — 83.28 mm (3.27 inches) • Width — 184.8 mm (7.27 inches) • Depth — 433.5 mm (17.06 inches) • Weight — 6.02 kg (13.27 pound)
Form Factor	2U chassis and 1U and 2U half-width sleds		
GPU	Up to 3 x NVIDIA 70W L4 GPU		
Embedded Management	• iDRAC9 • iDRAC Direct	• iDRAC RESTful API with Redfish • iDRAC Service Module	
Bezel	Not supported		
OpenManage Software	• CloudIQ for PowerEdge plug in • OpenManage Enterprise • OpenManage Enterprise Integration for VMware vCenter • OpenManage Integration for Microsoft System Center	• OpenManage Integration with Windows Admin Center • OpenManage Power Manager plugin • OpenManage Service plugin • OpenManage Update Manager plugin	
Mobility	OpenManage Mobile		
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 • Secured Component Verification (Hardware integrity check)	• Silicon Root of Trust • System Lockdown (requires iDRAC9 Enterprise or Datacenter) • TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ	
Embedded NIC	• 2 x 25 GbE SFP 28 LOM connectors (optional)		
Front Ports	• 1 x iDRAC Direct (Micro-AB USB) port • 1 x USB 3.0 • 1 x Micro USB serial port	• 1 x Mini-DisplayPort • 1 x RJ45 iDRAC9 ethernet port • 1 x RJ45 Alert\Dry contact input connector	
PCIe	• 1 CPU configuration: Up to 3 PCIe slots: (3 x16 Gen5) in XR8620t • 1 CPU configuration: 1 PCIe slot: (1 x16 Gen5) in XR8610t		
Operating System and Hypervisors	• Red Hat Enterprise Linux • SUSE Linux Enterprise Server • VMware ESXi	• Wind River For specifications and interoperability details, see Dell.com/OSsupport.	

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