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 16 and 32 cores respec
• 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.

*with optional Heater Manager and 65°C in certain configurations
## Technical Specifications for XR8000r XR8610t and XR8620t

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<th>Feature</th>
<th>Specification</th>
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<tr>
<td><strong>Processor</strong></td>
<td>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</td>
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| **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  
  • BOSS N1 with 2 x 2280 NVMe SSDs in XR8620t and XR8610t  
  • 2 x M.2 2280 on ROR-N1 (RAISER) with RAID 0/1 |
| **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 XR8620t sled |

### XR8000r Specifications
- **Height**: 87.05 mm (3.42 inches)
- **Width**: 482 mm (18.97 inches) with mount ear  
  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 Specifications
- **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 pounds)

### XR8620t Specifications
- **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 pounds)

### 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  
  NativeEdge Endpoint Orchestrator

### 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 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  
  Dell NativeEdge OS

For specifications and interoperability details, see Dell.com/OSsupport.

### APEX Flex on Demand

Acquire the technology you need to support your changing business with payments that scale to match actual usage. For more information, visit https://www.delltechnologies.com/en-us/payment-solutions/ flexible-consumption/flex-on-demand.htm.

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