PowerEdge XR4000

Experience ultimate flexibility with Dell’s shortest depth edge server

Dell Technology’s shortest-depth edge server

The new Dell 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.
## Feature

### Technical Specifications for XR4000r and XR4000z with XR4510c and XR4520c

<table>
<thead>
<tr>
<th>Feature</th>
<th>Technical Specifications</th>
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<tbody>
<tr>
<td>Processor</td>
<td>1 x 3rd Generation Intel Xeon D Scalable processor with up to 20 cores</td>
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</tbody>
</table>
| 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**  
• Height — 87.05 mm (3.42 inches)  
• Width — 434 mm (17.08 inches)  
• Depth — 375.28 mm (14.77 inches) without bezel  
• Weight — 19.14 kg (42.20 pound)  

**XR4000z**  
• Height — 87.05 mm (3.42 inches)  
• Width — 434 mm (17.08 inches)  
• Depth — 375.28 mm (14.77 inches) without bezel  
• Weight — 12.16 kg (26.80 pound) |
| Form Factor | **XR4510c**  
• 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  

**XR4520c**  
• 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 |
| 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  
• 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  

Internal port  
• 1 x USB 3.0 (optional) |
| PCIe | • 2 PCIe slots: 2 x 16 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](https://www.dell.com/OSsupport).
### Technical Specifications for XR4000w

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Processors</td>
<td>1 Intel Atom 3508 series processor with 4 cores</td>
</tr>
<tr>
<td>Memory</td>
<td>DDR4 Memory with ECC (Soldered on system board) 16 GB Max, with speeds upto 1800 MT/s</td>
</tr>
<tr>
<td>Storage</td>
<td>1 x M.2 SSD 480 GB or 960 GB</td>
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<tr>
<td>Cooling options</td>
<td>Air cooling</td>
</tr>
<tr>
<td>Fans</td>
<td>1 standard cable fan installed in XR4000r or XR4000z chassis</td>
</tr>
<tr>
<td>Dimension and Weight</td>
<td>• Height — 83.25 mm (3.27 inches)</td>
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<tr>
<td></td>
<td>• Width — 21.60 mm (0.85 inches)</td>
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<tr>
<td></td>
<td>• Depth — 249.43 mm (9.82 inches)</td>
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<tr>
<td></td>
<td>• Weight — 0.44 kg (0.97 pound)</td>
</tr>
<tr>
<td>Embedded NIC</td>
<td>2 x 1 GbE Intel I210 RJ45 ports</td>
</tr>
<tr>
<td>Ports</td>
<td>1 x USB 3.0 port</td>
</tr>
<tr>
<td></td>
<td>1 x MicroUSB System console port</td>
</tr>
<tr>
<td>Operating System and Hypervisors</td>
<td>VMware ESXi</td>
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<tr>
<td></td>
<td>Note: For specifications and interoperability details, see Dell.com/OSsupport</td>
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<tr>
<td>OEM-ready version available</td>
<td>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.</td>
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### APEX on Demand

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 www.delltechnologies.com/en-us/payment-solutions/}flexible-consumption/flex-on-demand.htm.