DELL Technologies

Spec Sheet

PowerEdge XR8000

Purpose Built

- Rugged, short-depth design withstands shock, dust, vibration, and extreme temperatures.
- 7:1 Consolidation capable*
- Up to 73% Boost in power efficiency*

Intelligent

- Up to $50k Savings through power and management optimization*[1]
- 80% of PowerEdge servers achieve EPEAT Climate+ designation*[1]
- Up to 150min Less time to manage per 100 servers*[1]
- Industry leading intelligent management
  - iDRAC integrated controller and
  - OpenManage Enterprise

Cyber Resilient

- **3.5x** More security features than competitor*[1]
- **Zero Trust** Adoption Capable
- Factory-to-Site Assurance with Secured Component Verification

Sustainability

- **Engineered for Efficiency** PowerEdge servers have reduced Energy Intensity (EI) by 83% over the past 8 years
- **Efficient** Up to 73% boost in power efficiency

PowerEdge XR-Series

Deliver AI and data insights wherever you need them with the rugged, short-depth Dell PowerEdge XR servers.

A suite of servers designed to address the complexities of edge computing.

Exceptional Performance in Harsh Environments

With short-depth designs and industry-leading components, Dell PowerEdge XR servers are purpose-built to thrive in challenging environments, outside traditional data centers. Equipped with AI-ready computing power for data-intensive workloads, these rugged servers deliver exceptional performance in extreme conditions, enabling real-time insights and seamless operations where it matters most.

Whether it's AI inferencing on a factory floor, managing remote telecom operations, or supporting mission-critical applications, the PowerEdge XR-Series offers the rugged durability and advanced processing power businesses require to achieve peak performance at the edge.

PowerEdge XR5610

PowerEdge XR7260

PowerEdge XR4000

- Operates efficiently in temperatures from -5°C to 55°C (with extended ranges from -20°C to 65°C on select XR8000 configurations)
- MIL-STD tested and NEBS Level 3 and IEC 61850-3 certified for durability.
- Flexible sled-based architectures for specialized edge applications
- Supports GPUs for AI and machine learning at the edge
- Enables real-time decisions with low latency and high performance
- Simplify deployment and drive efficiency with a single-server Cloud RAN solution

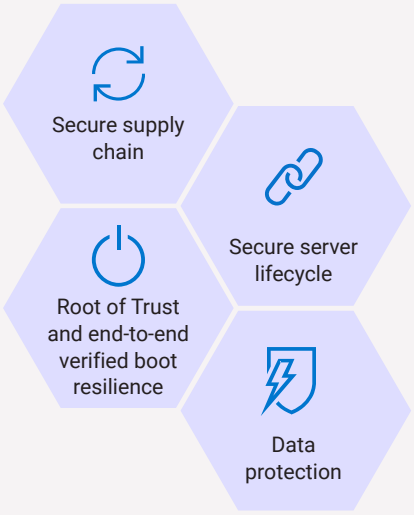
Cyber Resilient Architecture for Zero Trust IT environment & operations

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.

Learn more

Security

Integrated into every phase of the life cycle



Boost Productivity with Dell system management solutions

Simplify infrastructure management with iDRAC for secure, remote server administration, OpenManage Enterprise to streamline lifecycle management, and AI-enabled AIOps to optimize infrastructure and applications. Automate tasks, get real-time alerts, and scale effortlessly to boost productivity, performance, and uptime.

Dell Power and Cooling

Address growing data center challenges caused by AI and dense computing workloads using a range of solutions that enhance data center cooling strategies, optimize system performance, and empower organizations to balance efficiency, performance, and sustainability.

Expert assistance from Dell Technologies Services

Optimize performance every step of the way with services ranging from quick, seamless deployment with ProDeploy Infrastructure Suite, including AI-specific setups, to proactive, around-the-clock support with ProSupport Plus. Additionally, our consulting and managed services bring even more value by offering tailored strategies designed to streamline operations, improve efficiency, and help you achieve your unique business objectives with confidence. Learn more

Discover how PowerEdge XR servers deliver exceptional performance, scalability, and rugged reliability. Perfectly designed for edge computing and unpredictable environments, they integrate seamlessly into diverse infrastructures, empowering you to meet the demands of today's most challenging operations efficiently and confidently. Learn more

Dell Products that work better together

Dell PowerSwitch E3200 Series (TBU) - High-density Ethernet fabric switch for powering AI/ML training and inferencing clusters.

Dell PowerStore - delivers intelligent, scalable storage, unified architecture, and seamless adaptability

Feature	XR4000	XR8000r	
Systems			
Chassis	XR4000r and XR4000z	XR8000r	
Sleds	XR4510c, XR4520c and optional XR4000w	XR8610t and XR8620t	XR8720t
Processors	XR4510c and XR4520c: 1 x 3rd Generation Intel® Xeon® D Scalable processor with up to 20 cores XR4000w: 1 Intel Atom 3508 series processor with 4 cores	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	1 x Intel® Xeon® 6 HCC or XCC* processor up to 72* cores
Memory	XR4510c and XR4520c: • 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 XR4000w: • DDR4 Memory with ECC (Soldered on system board) 16 GB Max, with speeds upto 1800 MT/s	• 8 x DDR5 DIMM slots, supports RDIMM total 512 GB with max speeds up to 5600 MT/s • Supports registered ECC DDR5 DIMMs only	Up to 8* x DDR5 DIMM slots, supports RDIMM total 768* GB with max speeds up to 6400 MT/s Note: HCC processors can support maximum 4 DIMMs
GPUs	Up to 2 x 150W single-width GPUs or 1 x 250W double-width GPU in XR4520c	Up to 3 x NVIDIA 70W L4 GPUs	N/A
Storage	• 8 x M.2 NVMe SSDs on PCIe Add-in card (XR4520c) • 4 x M.2 NVMe SSDs on M.2 riser module • 1 x M.2 SSD 480 GB or 960 GB (XR4000w)	• 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 • 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	• 1 x M.2 NVMe drive on the HPM • 2 x M.2 NVMe drives on the Dual M.2 riser module (non-RAID)
Internal boot	Boot Optimized Storage Subsystem (BOSS-N1): 2 x M.2 SSDs 480 GB or 960 GB, USB	Boot Optimized Storage Subsystem (BOSS-N1): 2 x 2280 NVMe SSDs in XR8620t and XR8610t	N/A
Power Supplies, redundant, hot swap	• 1800W Platinum 200-240 VAC or 240 HVDC • 1400W Platinum 100-240 VAC or 240 HVDC • 1100W Platinum 100-240 VAC or 240 HVDC (for XR4000r only) 1 • 100W Titanium 100-240 VAC or 240 HVDC (for XR4000r only) • 1100W DC/ -48-(-60) V	• 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	• 1400W DC/ -48 — (-60) V
Heating and Cooling options	• Air cooling	• Air cooling • Optional Heater Manager	• Air cooling • Heater Manager

Feature	XR4000	XR8000r	
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 XR4000w: • One XR4000w (optional) per XR4000r or XR4000z chassis	2U chassis and 1U and 2U half-width sleds	2U half-width sled compatible with XR8000r chassis
PCIe slots	2 PCIe slots: 2 x16 Gen4 (x16 connector) full height, full length in XR4520c	• 1 CPU configuration: Up to 3 PCIe slots: in XR8620t • 1 CPU configuration: 1 PCIe slot: (1 x16 Gen5) in XR8610t	Flexible configuration: Up to 3 PCIe slots (2 x8 Gen5 + 1 x16 Gen5)
Embedded NIC	2 x 1 GbE Intel I210 RJ45 ports	2 x 25 GbE SFP 28 LOM connectors (optional)	Flexible configuration: 2 x QSFP 100GbE ports Network Optimized configuration: 8 x SFP 25GbE ports
Network I/O board	• 4 x 10GbE SFP (max 50 Gb) • 4 x 25GbE SFP (max 100 Gb)	Not supported	Network Optimized configuration: Up to 2 DSFF OCP slots Intel DSFF OCP card: 8x 25GbE SFP
Hot-swappable fans	• Up to 3 Standard (STD) cabled cooling fans with reverse and normal air-flow in XR4510c and XR4520c sleds • 1 standard cable fan installed in XR4000w sled	• 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	Two sets of cabled 4 x STD fan modules. Note: Fans are not hot-swappable
Height	XR4000r — 87.05 mm (3.42 inches) XR4000z — 97.05 mm (3.82 inches) with sidepanel — 87.05 mm (3.42 inches) without sidepanel XR4510c — 41.25 mm (1.62 inches) XR4520c — 83.25 mm (3.27 inches) XR4000w — 83.25 mm (3.27 inches)	XR8000r — 87.05 mm (3.42 inches) XR8610t — 41.25 mm (1.62 inches) XR8620t — 83.28 mm (3.27 inches)	XR8720t — 82.95 mm (3.26 inches)
Width	XR4000r — 434 mm (17.08 inches) XR4000z — 307 mm (12.08 inches) with sidepanel and bezel — 266 mm (10.47 inches) without sidepanel and bezel XR4510c — 167.2 mm (6.58 inches) XR4520c — 167.2 mm (6.58 inches) XR4000w — 21.60 mm (0.85 inches)	XR8000r — 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 XR8610t — 184.8 mm (7.27 inches) XR8620t — 184.8 mm (7.27 inches)	XR8720t —184.8 mm (7.27 inches)
Depth	XR4000r — 455.05 mm (17.91 inches) with bezel — 375.28 mm (14.77 inches) without bezel XR4000z — 455 mm (17.91 inches) with bezel — 375.2 mm (14.77 inches) without bezel XR4510c — 342.5 mm (13.48 inches) XR4520c — 342.5 mm (13.48 inches) XR4000w — 249.43 mm (9.82 inches)	XR8000r — 430 mm (16.92 inches) cable management to rear wall — 350 mm (13.77 inches) mounting surface to rear wall XR8610t — 433.5 mm (17.06 inches) XR8620t — 433.5 mm (17.06 inches)	XR8720t —431.13 mm (16.97 inches)
Maximum Weight	XR4000r — 19.14 kg (42.20 pound) XR4000z — 12.16 kg (26.80 pound) XR4510c — 2.46 kg (5.42 pound) XR4520c — 4.69 kg (10.34 pound) XR4000w — 0.44 kg (0.97 pound)	XR8000r — 18.52 kg (40.84 pound) XR8610t — 5.36 kg (11.83 pound) XR8620t — 6.02 kg (13.27 pound)	XR8720t —7.78 kg (17.15 pound)

Feature	XR4000	XR8000r	
Bezel	Security bezel on XR4000r and XR4000z	Optional filter bezel for the XR8000r chassis	Optional filter bezel for the XR8000r chassis
Embedded Management	iDRAC9, iDRAC Direct, iDRAC RESTful API with Redfish, iDRAC Service Module, NativeEdge Endpoint Orchestrator	iDRAC, iDRAC Direct, iDRAC RESTful API with Redfish, iDRAC Service Module	iDRAC10, iDRAC Direct, iDRAC RESTful API with Redfish, iDRAC Service Module
OpenManage Software	OpenManage Enterprise, OpenManage Power Manager plugin, OpenManage Service plugin, OpenManage Update Manager plugin	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	CloudIQ for PowerEdge plug in, OpenManage Enterprise, OpenManage Enterprise Integration for VMware vCenter, 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		BMC Truesight, 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 Data Center), TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ	Cryptographically signed firmware, Secure Boot, Secure Erase, Secured Component Verification (Hardware integrity check), Silicon Root of Trust, System Lockdown (requires iDRAC Enterprise or Data Center), TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ	Cryptographically signed firmware, Secure Boot, Secure Erase, Secured Component Verification (Hardware integrity check), Silicon Root of Trust, System Lockdown (requires iDRAC10 Enterprise or Data Center), TPM 2.0 FIPS, CC-TCG certified.
Front Ports	XR4510c and XR4520c: 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 XR4000w: 1 x USB 3.0 port, 1 x MicroUSB System console port	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	1 x iDRAC Direct (USB-C) port, 1 x USB 3.0, 1 x Mini-DisplayPort, 1 x RJ45 iDRAC10 ethernet port, 1 x RJ45 Alert/Dry contact input connector, 2 x SMA for ePPS input/output 1 x SMA for GNSS antena
Operating Systems	Canonical Ubuntu Server LTS, Microsoft Windows Server with Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi, Dell NativeEdge OS	Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi, Wind River	SUSE Linux Enterprise Server/RT, Canonical Ubuntu Server LTS, Red Hat Enterprise Linux/RT, Wind River (OSV only)
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 > Solutions > OEM Solutions.	Not Supported	Not Supported

For specifications and interoperability details, see Dell.com/OSsupport.
Note: *Feature not available at initial product launch. Refer to the product configurator page on Dell.com to confirm feature availability.

Feature	XR5610	XR7620
Systems		
Processors	• One 5th Generation Intel® Xeon® Scalable and Edge-Enhanced processor with up to 16 cores per processor or • One 4th Generation Intel® Xeon® Scalable and Edge-Enhanced processor with up to 32 cores per processor	• Two 5th Generation Intel® Xeon® Scalable processors with up to 16 cores per processor or • Two 4th Generation Intel® Xeon® Scalable processors with up to 32 cores per processor
Memory	• 8 DDR5 DIMM slots, supports RDIMM 1 TB max, speeds up to 5600 MT/s. • Supports registered ECC DDR5 DIMMs only	• 16 DDR5 DIMM slots, supports RDIMM 2 TB max, speeds up to 5200 MT/s. • Supports registered ECC DDR5 DIMMs only
GPUs	• Up to 2 x 75 W GPUs (single-width, full-height, half-length)	• Up to four 75 W single-width full-height/half-length + one 75 W low-profile, or • Up to two 350 W double-width full-height/full-length
Storage controllers	• Internal Controllers: PERC H965i, PERC H965e, PERC H755, PERC H355, HBA355i • Internal Boot: Boot Optimized Storage Subsystem • (BOSS-N1): HWRAID 1, 2 x M.2 NVMe SSDs • External HBA (non-RAID): HBA355e • Software RAID: S160	• Internal Controllers: PERC H965i, PERC H755, PERC H355, HBA355i • Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 1, 2 x M.2 NVMe SSDs (cold swap) or USB • Software RAID: S160
Front bays:	Up to 4 x 2.5-inch SATA, SAS, or NVMe SSDs max 30.72 TB	Up to 4 x 2.5-inch SAS/SATA/NVMe SSD drives, 61.44 TB max, Up to 8 x E3.S NVMe direct drives, 51.2 TB max
Power Supplies, redundant, hot swap	• 1800 W Titanium 200—240 VAC or 240 HVDC • 1400 W Platinum 100—240 VAC or 240 HVDC • 1100 W Titanium 100—240 VAC or 240 HVDC • 1100 W -48 — (-60) VDC • 800 W Platinum 100—240 VAC or 240 HVD	• 1800 W Titanium 200—240 VAC or 240 HVDC • 1400 W Platinum 100—240 VAC or 240 HVDC • 1100 W Titanium 100—240 VAC or 240 HVDC • 1400 W Titanium 277 VAC or 336 VDC • 1100 W -48 — (-60) VDC
Cooling options	Air cooling	Air cooling
Form Factor	1U rack server	2U rack server
PCIe slots	1 CPU configuration: Up to 2 PCIe slots (2 x16 Gen5)	2 CPU configuration: Up to 5 PCIe slots (4 x16 Gen4/5, 1 x16 LP Gen4)
Embedded NIC	4 x 25 GbE SFP+ LOM	2 x 1 GbE LOM
Network options	• 1 x OCP card 3.0 (optional) • 2 x RAN DPU (optional)	• 1 x OCP card 3.0 (optional)
Fans	Six standard cold swap cooling fans	Six cold swap cooling fans
Dimensions and Weight	Rear Accessed configuration:	
	• Height: 42.8 mm (1.68 inches) • Width: 482.6 mm (19 inches) • Depth: 400 mm (15.74 inches) ear to rear wall 487.7 mm (19.20 inches) with bezel 463 mm (18.22 inches) without bezel • Weight: 11.27 kg (24.84 pounds)	• Height: 86.8 mm (3.41 inches) • Width: 482.6 mm (19 inches) • Depth: 448.8 mm (17.6 inches) Ear to rear wall 496.3 mm (19.53 inches) with bezel 471.8 mm (18.57 inches) without bezel • Weight: 11.27 kg (24.84 pounds)
	Front Accessed configuration:	
	• Height: 42.8 mm (1.68 inches) • Width: 482.6 mm (19 inches) • Depth: 400 mm (15.74 inches) ear to rear wall 566.05 mm (22.28 inches) with bezel 472.7 mm (18.61 inches) without bezel • Weight: 11.37 kg (25.06 pounds)	• Height: 86.8 mm (3.41 inches) • Width: 482.6 mm (19 inches) • Depth: 572 mm (22.51 inches) with bezel 471.8 mm (18.57 inches) without bezel • Weight: 11.27 kg (24.84 pounds)
Bezel	Optional bezel or security bezel with dust filter	Optional security bezel with dust filter (dust sensor available only for Front Accessed configuration systems)
Embedded Management	iDRAC9, iDRAC Direct, iDRAC RESTful API with Redfish, iDRAC Service Module, NativeEdge Endpoint Orchestrator	iDRAC9, iDRAC Direct, iDRAC RESTful API with Redfish, iDRAC Service Module, NativeEdge Endpoint Orchestrator
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	

Feature	XR5610	XR7620
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, Data at Rest Encryption (SEDs with local or external key mgmt), Secure Boot, Secure Erase, Secured Component Verification (Hardware integrity check), Silicon Root of Trust, System Lockdown (requires iDRAC9 Enterprise or Data Center), TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ	
Ports	Rear Accessed configuration:	
	Front Ports: • 1 x iDRAC Direct (Micro-AB USB 2.0) port, 1 x USB 2.0 Rear Ports: • 1 x iDRAC dedicated port, 1 x USB 3.0, 1 x Serial (MicroAB USB 2.0) port, 1 x Mini-DisplayPort, 1 x RJ45 for dry contact, 4 x 25 GbE SFP+ LOM	Front Ports: • 1 x iDRAC Direct (Micro-AB USB) port, 1 x USB 2.0 Internal Ports: • 1 x USB 3.0 (optional) Rear Ports: • 1 x USB 2.0, 1 x iDRAC dedicated port, 1 x USB 3.0, 1 x Serial port (optional on slot 5), 1 x VGA
	Front Accessed configuration:	
	Front Ports • 1 x iDRAC Direct (Micro-AB USB 2.0) port, 1 x iDRAC dedicated port, 1 x USB 3.0, 1 x Serial (Micro-AB USB 2.0) port • 1 x Mini-DisplayPort, 4 x 25 GbE SFP+ LOM, 1 x RJ45 for dry contact Rear Ports: N/A	Front Ports: • 1 x USB 2.0, 1 x iDRAC dedicated port, 1 x USB 3.0, 1 x Serial port (optional on slot 5), 1 x VGA, 1 x iDRAC Direct (Micro-AB USB) port Internal Ports: • 1 x USB 3.0 (optional) Rear Ports: NA
Operating Systems	Canonical Ubuntu Server LTS, Microsoft Windows Server with Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESX, Dell NativeEdge OS	
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 > Solutions > OEM Solutions.	

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

To shop for Dell PowerEdge Servers, see Dell.
For more information on platform-specific specifications and additional details, refer to the Technical Guide on Dell.com.

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.

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