DELL Technologies

Specification Sheet

PowerEdge XR5610

All-purpose short-depth 1U server purpose-built for Telecom, Defense, Retail, and other demanding edge deployments

Dell Technology's Most Versatile 1U Edge Server

The new Dell PowerEdge XR5610 is a powerful short-depth 1U server that is purpose-built for the edge. XR5610 is the upgraded successor to the popular XR11 and features generational enhancements that are designed to deliver high-performance compute and ruggedized deployment capability in a 463mm chassis. Well suited for 5G vRAN and ORAN telecom workloads, as well as military and defense deployments and retail AI including video monitoring, IoT device aggregation and PoS analytics

All-Purpose 1U Featuring Latest Tech

- High performance 1U designed for a variety of demanding workloads including Telecom, Retail, and Military
- One Intel® Xeon Scalable Processor® with vRAN Boost® supporting up to 32 cores for ultimate edge performance
- Up to 8 DDR5 DIMMs 4800MT/s for 50% increase from previous generation in memory bandwidth

Excels with a Variety of Demanding Edge Workloads

- Excels in telecom deployments such as vRAN, ORAN, and others by offering PTP, SyncE via add-in NICs, Intel CPUs with vRAN Boost® featuring Integrated FEC, and NEBS Level 3 (SR3580) testing
- Designed to support retail and manufacturing applications, including video monitoring, PoS analytics, and IoT device aggregation and analytics
- Field ready for military and defense applications including remote support for field operations and reconnaissance, MIL tested

Purpose-built for the Edge

- Built rugged to operate in temperatures from -5C to 55C; MIL 810H* and NEBS Level 3* (SR3580) tested
- Offers easy serviceability with reverse I/O & power
- Short-depth chassis to fit in space constrained environments
- Withstand dusty and harsh environments with an optional lockable smart filtered bezel for extra physical security

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 autonomous collaboration

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.

NOTE: * indicates for limited configurations

PowerEdge XR5610

The Dell PowerEdge XR5610 is a high-performance server designed and optimized for edge use cases like

- Telco/5G, vRAN, ORAN
- Retail and Manufacturing
- Video Monotoring
- IoT Device Aggregation
- Military and Defense

Feature	Technical Specifications	
Processor	One 4th Generation Intel Xeon Scalable processor with up to 32 cores per processor	
Memory	8 DDR5 DIMM slots, supports RDIMM 1 TB max, speeds up to 4800 MT/s. Supports registered ECC DDR5 DIMMs only	
Storage controllers	• 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	• External HBA (non-RAID): HBA355e • Software RAID: S160
Drive Bays	Front bays: Up to 4 x 2.5-inch SATA, SAS, or NVMe SSDs max 30.72 TB	
Hot swap redundant Power Supplies	• 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 • 800 W -48 — (-60) VDC
Cooling Options	Air cooling	
Fans	6 Standard cold swap 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)	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)
Form Factor	1U rack server	
Embedded Management	iDRAC9, iDRAC Direct, iDRAC RESTful API with Redfish, iDRAC Service Module	
Bezel	Optional bezel or security bezel with dust filter	
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 • Data at Rest Encryption (SEDs with local or external key mgmt) • Secure Boot • Secured Component Verification (Hardware integrity check)	• 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
Embedded NIC	• 4 x 25 GbE SFP+ LOM	
Network options	• 1 x OCP card 3.0 (optional)	
Ports	For 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 (Micro-AB USB 2.0) port, 1 x Mini-DisplayPort, 1 x RJ45 for dry contact, 4 x 25 GbE SFP+ LOM	For 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
PCIe	1 CPU configuration: Up to 2 PCIe slots (2 x16 Gen5)	
GPU	Up to 2 x 75 W GPUs (single-width, full-height, half-length)	
Operating System and Hypervisors	• 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.
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.	

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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