DELL Technologies

Specification Sheet

PowerEdge R760xd2

Faster storage, retrieval, and scalability

More capable and agile storage solution

Meet your growing unstructured data needs with object storage technology designed to be easily configurable, serviceable, and scalable. This 2U, 2 socket server is ideal for file and object storage, video capture/retrieval, and content delivery networks.

Storage tiering performance and capacity

Be confident knowing that with seven percent more drives and a capacity of up to 22 TB, the R760xd2 can manage the explosive growth of data. And, latency has been reduced using storage tiering and accelerators supported by PCIe Gen4. The system also offers a larger number of available PCIe slots with multiple configurations based on your requirements.

- Maximize storage with seven percent more 3.5-inch drive space with up to 28 drives for a total capacity of 616 TB
- Significantly reduce latency and improve performance using NVMe drives and NVIDIA accelerators
- Reduce services cost when changing hot-plug drives and PCIe cards with the new external rail feature
- Stay air-cooled with Smart Cooling technology including optimized chassis, fans, and baffles managed by Power Manager, the intelligent management software

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

PowerEdge is revolutionizing energy efficiency with innovations in smart cooling and optimized performance per watt. Combined with OpenManage Enterprise Power Manager, which gives you actionable energy use insights, you can reduce your carbon footprint and lower operational costs.

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 R760xd2

Meet your growing unstructured data needs with object storage technology

- More powerful processors and available GPUs
- 7% more storage space for more data per rack
- Lower service costs save on overhead
- Air-cooled to fit in your current infrastructure

Feature	Technical Specifications
Processor	Up to two 4th Generation Intel Xeon Scalable processors, with up to 32 cores per processor or Up to two 5th Generation Intel Xeon Scalable processors, with up to 28 cores per processor and optional Intel® QuickAssist Technology
Memory	• 16 DDR5 DIMM slots, supports RDIMM 1.5 TB max, speeds up to 5600 MT/s • Supports registered ECC DDR5 DIMMs only Note: The maximum memory speed the system will support is 4800 MT/s due to the limitation of the processor. Note: 5600 MT/s RDIMMs are applicable for 5th Gen Intel Xeon Scalable Processors.
Storage controllers	• Internal Controllers (RAID): PERC H755, PERC H965i, PERC H355 • Internal Controllers (non-RAID): HBA355i • Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 2 x M.2 NVMe SSD drives (hot swappable), or USB • External HBAs (non-RAID): HBA355e • External Controllers (RAID): H965e
Drive Bays	Front bays: • Up to 12 x 3.5-inch SAS/SATA max 264 TB Mid bays: • Up to 12 x 3.5-inch SAS/SATA max 264 TB Rear bays: • Up to 4 x 3.5-inch SAS/SATA max 88 TB • Up to 4 x 2.5-inch NVMe with 3.5-inch carrier max 30.72 TB • Up to 2 x 2.5-inch NVMe max 15.36 TB • 4 x E3.S NVMe max 30.72 TB
Power Supplies	• 1800 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant • 1400 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant • 1400 W Titanium 277 VAC or 336 HVDC, hot swap redundant • 1100 W Titanium 100—240 VAC or 240 HVDC, hot swap redundant • 1100W LVDC –48 — –60 VDC, hot swap redundant • 700 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant
Cooling Options	Air cooling
Fans	• Up to 6 Standard (STD) fans, hot swappable.
Dimensions	• Height — 86.8 mm (3.41 inches) • Width — 481.6 mm (18.96 inches) • Depth — 837 mm (32.95 inches)
Form Factor	2U rack server
Embedded Management	• iDRAC9 • iDRAC Direct • iDRAC RESTful API with Redfish • iDRAC Service Module
Bezel	N/A
OpenManage Software	• OpenManage Enterprise • OpenManage Power Manager plugin • OpenManage Service plugin • OpenManage Update Manager plugin • CloudIQ for PowerEdge plug in • OpenManage Enterprise Integration for VMware vCenter • OpenManage Integration for Microsoft System Center • OpenManage Integration with Windows Admin Center
Mobility	OpenManage Mobile
Tools	• iDRAC RESTful API with Redfish • IPMI • RACADM CLI • Dell System Update • Enterprise Catalogs • Dell Repository Manager
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 Datacenter) • TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ
Embedded NIC	2 x 1 GbE LOM
Network options	1 x OCP card 3.0 (optional)
GPU Options	Up to 2 x 75 W SW, 1 x 75 W SW + 1 x 150 W SW or 1 x 180 W DW

Feature	Technical Specifications	
Ports	Front Ports • 1 x iDRAC Direct (Micro-AB USB) port • 1 x USB 2.0	Rear Ports • 1 x Dedicated iDRAC Ethernet port • 1 x USB 2.0 • 1 x USB 3.0 • 1 x VGA
	Internal Ports • 1 x USB 3.0 (optional)	
PCIe	Up to five PCIe slots: • Slot 1: 1 x16 Gen4 Low profile, Half length • Slot 2: 1 x8 (x16 connector) Gen4 Low profile, Half length or 1 x16 Gen4 Full height, Full length or 1 x16 Gen4 Full height, Half length • Slot 3: 1 x16 Gen4 Low profile, Half length or 1 x16 Gen4 Full height, Full length or 1 x16 Gen4 Full height, Half length • Slot 4: 1 x16 Gen4 Low profile, Half length • Slot 5: 1 x16 Gen4 Low profile, Half length Note: Slot 5 is dedicated for internal PERC card	
Operating System and Hypervisors	• Canonical Ubuntu Server LTS • Microsoft Windows Server with Hyper-V • Red Hat Enterprise Linux • SUSE Linux Enterprise Server • VMware ESXi	
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.	

Discover more about PowerEdge servers

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