DELL Technologies

Specification Sheet

PowerEdge R760

Provides performance and versatility as needed to address your most demanding applications

The new Dell PowerEdge R760 is a 2U, two-socket rack server. Gain the performance you need with this full-featured enterprise server, designed to optimize even the most demanding workloads like Artificial Intelligence and Machine Learning.

Max Performance

- Add up to two Next Generation Intel® Xeon® Scalable processors with up to 56 cores for faster and more accurate processing performance.
- Accelerate in-memory workloads with up to 32 DDR5 RDIMMS up to 4400 MT/sec (2DPC) or 4800 MT/sec for 1DPC (16 DDR5 RDIMMs max).
- Support for GPUs including 2 x double-wide or 6 x single-wide for workloads requiring acceleration.

Air cooled at peak performance

- New Smart Flow chassis optimizes airflow to support the highest core count CPUs in an air-cooled environment within the current IT infrastructure.
- Support for up to 16 x 2.5" drives and 2 x 350 watt processors.

Gain agility

- Achieve maximum efficiency with multiple chassis designs that tailor to your desired workloads and business objectives.
- Storage options include up to 12 x 3.5" SAS3/SATA; or up to 24 x 2.5" SAS4/SATA, plus up to 24 x NVMe U.2 Gen4, 16 x NVME E3.S Gen5*.
- Multiple Gen4 and Gen5 riser configurations (up to 8 x PCIe slots) with interchangeable components that seamlessly integrate to address customer needs over time.

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.

PowerEdge R760

The Dell PowerEdge R760 offers powerful performance in a purpose-built, cyber resilient, mainstream server. Ideal for:

- Mixed Workload Standardization
- Database and Analytics
- Virtual Desktop Infrastructure

Feature	Technical Specifications
Processor	Up to two 4th Generation Intel Xeon Scalable processor with up to 56 cores per processor and with optional Intel® QuickAssist Technology
Memory	• 32 DDR5 DIMM slots, supports RDIMM 8 TB max, speeds up to 4800 MT/s • Supports registered ECC DDR5 DIMMs only
Storage controllers	• Internal Controllers: PERC H965i, PERC H755, PERC H755N, PERC H355, HBA355i • Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 2 x M.2 NVMe SSDs or USB • External HBA (non-RAID): HBA355e • Software RAID: S160
Drive Bays	Front bays: • Up to 12 x 3.5-inch SAS/SATA (HDD/SSD) max 240 TB • Up to 8 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 122.88 TB • Up to 16 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 245.76 TB • Up to 24 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 368.64 TB Rear bays: • Up to 2 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 30.72 TB • Up to 4 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 61.44 TB
Power Supplies	• 2800 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant • 2400 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant • 1800 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant • 1400 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant • 1100 W Titanium 100—240 VAC or 240 HVDC, hot swap redundant • 1100 W LVDC -48 — -60 VDC, hot swap redundant • 800 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant • 700 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant
Cooling Options	• Air cooling • Optional Direct Liquid Cooling (DLC) Note: DLC is a rack solution and requires rack manifolds and a cooling distribution unit (CDU) to operate.
Fans	• Standard (STD) fans/High performance Silver (HPR) fans/ High performance Gold (VHP) fans • Up to 6 hot plug fans
Dimensions	• Height – 86.8 mm (3.41 inches) • Width – 482 mm (18.97 inches) • Depth – 772.13 mm (30.39 inches) with bezel 758.29 mm (29.85 inches) without bezel
Form Factor	2U rack server
Embedded Management	• iDRAC9 • iDRAC Direct • iDRAC RESTful API with Redfish • iDRAC Service Module • Quick Sync 2 wireless module
Bezel	Optional LCD bezel or security bezel
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 • 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 card (optional)
Network options	1 x OCP card 3.0 (optional) Note: The system allows either LOM card or an OCP card or both to be installed in the system.
GPU Options	Up to 2 x 350 W DW and 6 x 75 W SW

Feature	Technical Specifications	
Ports	Front Ports • 1 x iDRAC Direct (Micro-AB USB) port • 1 x USB 2.0 • 1 x VGA	Rear Ports • 1 x Dedicated iDRAC Ethernet port • 1 x USB 2.0 • 1 x USB 3.0 • 1 x VGA • 1 x Serial (optional) • 1 x VGA (optional for Direct Liquid Cooling configuration)
	Internal Ports • 1 x USB 3.0 (optional)	
PCIe	Up to eight PCIe slots: • Slot 1: 1 x8 Gen5 or 1 x8/1 x16 Gen4 Full height, Half length or 1 x16 Gen4 Full height, Full length • Slot 2: 1 x8/1 x16 Gen5 or 1 x8 Gen4 Full height, Half length or 1 x16 Gen5 Full height, Full length • Slot 3: 1 x16 Gen4 Low profile, Half length • Slot 4: 1 x8 Gen4 Full height, Half length • Slot 5: 1 x8/1 x16 Gen4 Full height, Half length or 1 x16 Gen4 Full height, Full length • Slot 6: 1 x16 Gen4 Low profile, Half length • Slot 7: 1 x8/1 x16 Gen5 or 1 x8 Gen4 Full height, Half length • Slot 7 SNAPI: 1 x16 Gen5 Full height, Half length • Slot 8: 1 x8 Gen5 or 1 x8 Gen4 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.	

*Future releases will include additional capacity/form factor.

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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DELL Technologies

DATA SHEET

DELL POWERVAULT ME5 STORAGE

Purpose-built and optimized for high-value SAN and DAS workloads

ESSENTIALS

Simple

- **Simple**: Easy to order, quick to install, simple-to-use
- **Fast:** Run workloads with more processor power, 2X more IOPs, 70%+ more bandwidth, and faster host connectivity*
- **Affordable:** Valid configurations starting as low as $12,000 (USD)

Benefits

- **DAS:** Validated with Dell PowerEdge Servers
- **Versatile:** Ideal for high capacity (up to 8PB) workloads like CCTV, HPC, Virtualization, SQL DBs, VDI, more
- **All-inclusive:** All the software you'll need to store, manage, and protect your data.
- **Scalable:** Buy the capacity you need, then easily and affordably pay-as-you-grow
- **Management:** Extensive ecosystem with PowerVault Manager, CloudIQ, Nagios, OpenManage Enterprise, CLI and REST APIs
- **Flexible:** Configure systems as All-Flash, Hybrid Flash or All-HDDs

ME5 at the Edge

- **Solutions:** CCTV/Safety and Security, Cloud Gaming, Oil and Gas Exploration

OEM Ready

- From bezel to BIOS to packaging, your ME5 storage array can look and feel as if they were designed and built by you

Dell PowerVault ME5, the new gold standard for entry storage, affordably brings the essential features and data services of mid-to-high end storage to small-medium businesses (SMBs). PowerVault ME5 unleashes substantial performance, capacity and bandwidth gains over its predecessor system without compromising simplicity, features or business outcomes. Designed to meet several SMB data storage challenges, PowerVault ME5 reduces complexity, drives more performance, supports higher capacity, ensures data protection and achieves budget stability when supporting a diverse SMB workload and application environment.

If you're looking for raw power, highly scalable capacity and absolute simplicity in a small footprint; if you're an SMB with budget constraints; then PowerVault ME5 starting in either 2U or 5U – is for you. Designed with dual-active controllers, multi-core processing and five-9's availability, PowerVault ME5 arrays deliver the performance of flash with the best economics of disk making it an ideal solution for SMB high-value workloads.

PowerVault ME5 Storage and PowerEdge Servers

Adding external storage to servers can create many tangible benefits for SMBs. Separating servers from storage means you won't be faced with server upgrades or server swaps due to lack of capacity. With PowerVault controller-based arrays or JBOD, server upgrades and maintenance can occur without data disruption as data remains in place. PowerVault ME5 storage, validated with Dell PowerEdge Servers running different host operating systems, give IT organizations a dynamic, high performance and scalable infrastructure for any size business – simply and economically.

Workload Versatility

IT organizations purchase storage systems to coincide with desired application and business outcomes including the demanding challenges of data growth, data protection and budget constraints. Over 50,000 globally installed PowerVault Storage systems reliably support a wide range of SMB workload types while integrated with today's most widely used hypervisors, operating systems and management platforms. PowerVault ME5 is the ideal and affordable SMB storage solution for supporting workload types such as high-performance computing, SQL databases, virtualization, VDI and backup/archiving – to name a few. And now, PowerVault ME5's density, performance and scale make it a material solution for select Edge-based scenarios such as Cloud Gaming, Oil and Gas Exploration and CCTV.

*Compared with Dell PowerVault ME4

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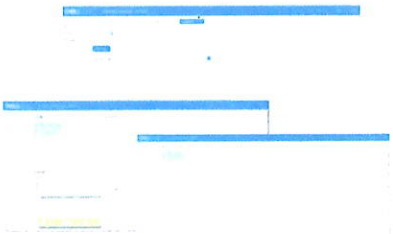
Management Ecosystem

PowerVault ME5 is supported through a wide range of management interfaces starting with PowerVault Manager, the element manager for each PowerVault storage array. This simple to use and intuitive web-based management GUI provides configuration, management, alerting and basic remediation capabilities for the IT generalist. PowerVault Manager is included with the array as part of the no cost all-inclusive software addition.



Simple, intuitive management with scripting support

As complexity of your IT infrastructure looms larger with more systems to track and manage, PowerVault ME5 is supported by the Dell OpenManage systems management portfolio with intuitive tools that work together to deliver automated and centralized management of your Dell infrastructure.

Dell PowerVault ME5 Delivers Significantly More Compared with Dell PowerVault ME4

- 2X more performance
- 4X more capacity
- 70% more throughput
- 4X larger virtual pools
- Faster host protocols
- Faster Intel Xeon Processor
- Cross-gen replication
- Simpler, intuitive management
- PowerEdge 16G ready

In those IT environments where monitoring of mission-critical infrastructure components including applications, operating systems, network protocols, storage, servers and networks is a necessity, then PowerVault ME5 can fit right into a Nagios infrastructure management platform.

Customers with ProSupport Services for PowerVault ME5 can access CloudIQ at no additional cost and with nothing else to install. CloudIQ is Dell's cloud based AIOPs that uses telemetry, machine learning and other algorithms to provide users with notifications and predictive analytics indicating the operational health of the array, remediation advice, anomalies, capacity projections, reclaimable storage, and more to assist IT with strategic planning efforts. When CloudIQ is enabled through PowerVault Manager, IT organizations see improved productivity of staff and collaborate better with a single view of their IT environment.

Simple. Fast. Affordable.

PowerVault ME5 is the new gold standard for entry SAN/DAS storage workloads with radical simplicity, awesome performance and scalability and a balance of performance and price making it cost-effective to fit the budgets of Small to Medium Size Businesses - so you can stay focused on your business outcomes. So, whether you're looking to start small or grow to hundreds of terabytes to support high-value workloads, Dell PowerVault ME5 has you covered.

SIMPLE

Easy to install/configure, simple to manage, proactive storage analytics, PowerEdge ready

FAST

PowerfulIOPs, high bandwidth, fast host connectivity, 12Gb SAS backend

AFFORDABLE

Low-cost configs & TCO, easy to own all-inclusive SW, say as you grow

Learn more about Dell PowerVault ME5

Contact a Dell Technologies Expert

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