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 4th Generation Intel Xeon Scalable or Intel Xeon Max processors with up to 56 cores or two 5th Generation Intel Xeon Scalable processors with up to 64 cores for faster and more accurate processing performance.
- Accelerate in-memory workloads with up to 32 DDR5 RDIMMS up to 4800 MT/sec for 1DPC when using 4th Gen Intel Xeon Scalable processors of 32 DDR5 RDIMMS up to 5600 MT/sec for 1DPC when using 5th Gen Intel Xeon Scalable processors.
- 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 or Intel Xeon Max processors with up to 56 cores per processor and with optional Intel® QuickAssist Technology<br>• Up to two 5th Generation Intel Xeon Scalable processors with up to 64 cores per processor |
| Memory | • 32 DDR5 DIMM slots, supports RDIMM 8 TB max,<br>• Speeds up to 4800 MT/s on the 4th Generation Intel Xeon Scalable or Intel Xeon Max processors<br>• Speeds up to 5600 MT/s on the 5th Generation Intel Xeon Scalable processors<br>• Supports registered ECC DDR5 DIMMs only |
| Storage controllers | • Internal Controllers: PERC H965i, PERC H755, PERC H755N, PERC H355<br>• External Controller: PERC H965e<br>• Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 2 x M.2 NVMe SSDs or USB<br>• SAS HBA (non-RAID): HBA355e, HBA355i, HBA465i<br>• Software RAID: S160 |
| Drive Bays | Front bays:<br>• Up to 12 x 3.5-inch SAS/SATA (HDD/SSD) max 240 TB<br>• Up to 8 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 122.88 TB<br>• Up to 16 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 245.76 TB<br>• Up to 16 x EDSFF E3.S Gen5 NVMe (SSD) max 122.88 TB<br>• Up to 24 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 368.64 TB<br>Rear bays:<br>• Up to 2 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 30.72 TB<br>• Up to 4 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 61.44 TB<br>• Up to 4 x EDSFF E3.S Gen5 NVMe (SSD) max 30.72 TB |
| Power Supplies | • 3200 W Titanium 277 VAC or 336 HVDC, hot swap redundant<br>• 2800 W Titanium 200—240 HLAC or 240 HVDC, hot swap redundant<br>• 2400 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant<br>• 1800 W Titanium 200—240 HLAC or 240 HVDC, hot swap redundant<br>• 1400 W Titanium 277 VAC or 336 HVDC, hot swap redundant<br>• 1400 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant<br>• 1100 W Titanium 100—240 VAC or 240 HVDC, hot swap redundant<br>• 1100 W -(48—60) VDC, hot swap redundant<br>• 800 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant<br>• 700 W Titanium 200—240 HLAC or 240 HVDC, hot swap redundant |
| Cooling Options | • Air cooling<br>• Optional Direct Liquid Cooling (DLC)<br>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 Silver) fans/ High performance Gold (HPR Gold) fans<br>• Up to 6 hot plug fans |
| Dimensions | • Height – 86.8 mm (3.41 inches)<br>• Width – 482 mm (18.97 inches)<br>• Depth – 772.13 mm (30.39 inches) with bezel<br>758.29 mm (29.85 inches) without bezel |
| Form Factor | 2U rack server |
| Embedded Management | • iDRAC9<br>• iDRAC Direct<br>• iDRAC RESTful API with Redfish<br>• iDRAC Service Module<br>• Quick Sync 2 wireless module |
| Bezel | Optional LCD bezel or security bezel |
| OpenManage Software | • CloudIQ for PowerEdge plug in<br>• OpenManage Enterprise<br>• OpenManage Enterprise Integration for VMware vCenter<br>• OpenManage Integration for Microsoft System Center<br>• OpenManage Integration with Windows Admin Center<br>• OpenManage Power Manager plugin<br>• OpenManage Service plugin<br>• OpenManage Update Manager plugin |
| Mobility | OpenManage Mobile |
| OpenManage Integrations | • BMC Truesight<br>• Microsoft System Center<br>• OpenManage Integration with ServiceNow<br>• Red Hat Ansible Modules<br>• Terraform Providers<br>• VMware vCenter and vRealize Operations Manager |
| Security | • Cryptographically signed firmware<br>• Data at Rest Encryption (SEDs with local or external key mgmt)<br>• Secure Boot<br>• Secure Erase<br>• Secured Component Verification (Hardware integrity check)<br>• Silicon Root of Trust<br>• System Lockdown (requires iDRAC9 Enterprise or Datacenter)<br>• TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ |
| Embedded NIC | 2 x 1 GbE LOM card (optional) |

| Feature | Technical Specifications | |
|---|---|---|
| Network options | • 1 x OCP card 3.0 (optional)<br>Note: The system allows either LOM card or an OCP card or both to be installed in the system.<br>• 1 x Management Interface Card (MIC) to support Dell Data Processing Unit (DPU) card (optional)<br>Note: The system allows either LOM card or MIC card to be installed in the system. | |
| GPU Options | Up to 2 x 350 W DW and 6 x 75 W SW | |
| Ports | Front Ports<br>• 1 x iDRAC Direct (Micro-AB USB) port<br>• 1 x USB 2.0<br>• 1 x VGA | Rear Ports<br>• 1 x Dedicated iDRAC Ethernet port<br>• 1 x USB 2.0<br>• 1 x USB 3.0<br>• 1 x VGA<br>• 1 x Serial (optional)<br>• 1 x VGA (optional for Direct Liquid Cooling configuration) |
| | Internal Ports<br>• 1 x USB 3.0 (optional) | |
| PCIe | Up to eight PCIe slots:<br>• Slot 1: 1 x8 Gen5 or 1 x8/1 x16 Gen4 Full height, Half length or 1 x16 Gen4 Full height, Full length<br>• Slot 2: 1 x8/1 x16 Gen5 or 1 x8 Gen4 Full height, Half length or 1 x16 Gen5 Full height, Full length<br>• Slot 3: 1 x16 Gen4 Low profile, Half length<br>• Slot 4: 1 x8 Gen4 Full height, Half length<br>• Slot 5: 1 x8/1 x16 Gen4 Full height, Half length or 1 x16 Gen4 Full height, Full length<br>• Slot 6: 1 x16 Gen4 Low profile, Half length<br>• Slot 7: 1 x8/1 x16 Gen5 or 1 x8 Gen4 Full height, Half length or 1 x16 Gen5 Full height, Full length<br>• Slot 7 SNAPI: 1 x16 Gen5 Full height, Half length<br>• Slot 8: 1 x8 Gen5 or 1 x8 Gen4 Full height, Half length | |
| Operating System and Hypervisors | • Canonical Ubuntu Server LTS<br>• Microsoft Windows Server with Hyper-V<br>• Red Hat Enterprise Linux<br>• SUSE Linux Enterprise Server<br>• 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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