

## Purpose-built 2U for growing scale-out solutions

The Dell EMC PowerEdge R750xs, with 3rd generation Intel® Xeon® Scalable processors, is purposefully designed with distinctive, customer-defined requirements to deliver enterprise performance for scale-out environments.



### Innovate at scale with challenging and emerging workloads

The new Dell EMC PowerEdge R750xs is a 2U, dual-socket, feature-optimized server with an ideal selection of CPU, I/O, and storage performance for scale-out environments. With it, you can:

- Add additional power and cores: Up to two 3rd generation Intel® Xeon® Scalable processors, up to 32 cores per socket
- Accelerate in-memory workloads: Up to 16 DDR4 RDIMMS, 3200 MT/sec
- Improve throughput, reduce latency: With up to 5 PCIe Gen4 slots, OCP 3.0 for network cards, and SNAP I/O support
- Include flexible storage: Up to 12x 3.5" SAS/SATA HDDs or SSDs; or up to 16x 2.5" SAS/SATA HDDs or SSDs, and 8 NVMe drives
- Enable virtualization, medium VM density or VDI, and software-defined storage node workloads

### Increase efficiency and accelerate operations with autonomous collaboration

The Dell EMC OpenManage systems management portfolio tames the complexity of managing and securing IT infrastructure. Using Dell Technologies' intuitive end-to-end tools, IT can deliver a secure, integrated experience by reducing process and information silos in order to focus on growing the business. The Dell EMC OpenManage portfolio is the key to your innovation engine, unlocking the tools and automation that help you scale, manage, and protect your technology environment.

- Built-in telemetry streaming, thermal management, and RESTful API with Redfish offer streamlined visibility and control for better server management
- Intelligent automation lets you enable cooperation between human actions and system capabilities for added productivity
- Integrated change management capabilities for update planning and seamless, zero-touch configuration and implementation
- Full-stack management integration with Microsoft, VMware, ServiceNow, Ansible and many other tools for on-premise, edge and cloud environments

### Built-in proactive resilience through a complete portfolio of solutions

From the silicon and supply chain all the way to asset retirement, know that your servers are safe and secure with innovative Dell EMC and Intel technologies. We give you the confidence of cyber resilience with enterprise class security that minimizes risk for any organization, from small business to hyperscale.

- Start strong with platform security features, even before the server is built, including Secured Component Verification and Silicon Root of Trust
- Stay strong with continuous innovations that bolster cyber resilience, like OpenManage Secure Enterprise Key Manager and Automatic Certificate Enrollment
- Outmaneuver threats with intelligence, automation, and recovery tools that include iDRAC9 Telemetry, BIOS live scanning, and Rapid OS recovery

### PowerEdge R750xs

The Dell EMC PowerEdge R750xs offers compelling performance, high-speed memory and capacity, I/O bandwidth and storage to address data requirements – Ideal for:

- Virtualization
- Medium VM density or VDI
- Software-defined storage node

Features	Technical Specifications
Processor	Up to two 3rd Generation Intel Xeon Scalable processors with up to 32 cores
Memory	<ul style="list-style-type: none"> <li>16 DDR4 DIMM slots, supports RDIMM 1 TB max, speeds up to 3200 MT/s</li> <li>Supports registered ECC DDR4 DIMMs only</li> </ul>
Storage controllers	<ul style="list-style-type: none"> <li>Internal controllers: PERC H345, PERC H355, PERC H745, PERC H755, PERC H755N, HBA355i, S150</li> <li>Internal Boot: Internal Dual SD Module, Boot Optimized Storage Subsystem (BOSS-S2): HWRAID 2 x M.2 SSDs, USB</li> <li>External PERC (RAID): PERC H840, HBA355e</li> </ul>
Drive Bays	<p>Front bays:</p> <ul style="list-style-type: none"> <li>0 drive bay</li> <li>Up to 8 x 3.5-inch SAS/SATA (HDD/SSD) max 128 TB</li> <li>Up to 12 x 3.5-inch SAS/SATA (HDD/SSD) max 192 TB</li> <li>Up to 8 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 61.44 TB</li> <li>Up to 16 x 2.5-inch SAS/SATA (HDD/SSD) max 122.88 TB</li> <li>Up to 16 x 2.5-inch (SAS/SATA) + 8 x 2.5-inch (NVMe) (HDD/SSD) max 184.32 TB</li> </ul> <p>Rear bays:</p> <ul style="list-style-type: none"> <li>Up to 2 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 15.36 TB</li> </ul>
Power Supplies	<ul style="list-style-type: none"> <li>600W Platinum Mixed Mode (100-240Vac or 240Vdc) hot swap redundant</li> <li>800W Platinum Mixed Mode (100-240Vac or 240Vdc) hot swap redundant</li> <li>1100W Titanium Mixed Mode (100-240Vac or 240Vdc) hot swap redundant</li> <li>1400W Platinum Mixed Mode (100-240Vac or 240Vdc) hot swap redundant</li> <li>1100W -48Vdc hot swap redundant (CAUTION: only works with -48Vdc to -60Vdc power input)</li> </ul>
Cooling options	Air cooling
Fans	<ul style="list-style-type: none"> <li>Standard fans/High performance Silver fans/High performance Gold fans</li> <li>Up to six hot swap fans</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>Height – 86.8 mm (3.41 inches)</li> <li>Width – 482.0 mm (18.97 inches)</li> <li>Depth – 707.78 mm (27.85 inches) – without bezel 721.62 mm (28.4 inches) – with bezel</li> </ul>
Form Factor	2U rack server
Embedded Management	<ul style="list-style-type: none"> <li>iDRAC9</li> <li>iDRAC Service Module</li> <li>iDRAC Direct</li> <li>Quick Sync 2 wireless module</li> </ul>
Bezel	Optional LCD bezel or security bezel
OpenManage Software	<ul style="list-style-type: none"> <li>OpenManage Enterprise</li> <li>OpenManage Power Manager plugin</li> <li>OpenManage SupportAssist plugin</li> <li>OpenManage Update Manager plugin</li> </ul>
Mobility	OpenManage Mobile
Integrations and Connections	<ul style="list-style-type: none"> <li>BMC Truesight</li> <li>Microsoft System Center</li> <li>OpenManage Integrations</li> <li>Red Hat Ansible Modules</li> <li>VMware vCenter and vRealize Operations Manager</li> <li>IBM Tivoli Netcool/OMNIBus</li> <li>IBM Tivoli Network Manager IP Edition</li> <li>Micro Focus Operations Manager</li> <li>OpenManage Connections</li> <li>Nagios Core</li> <li>Nagios XI</li> </ul>
Security	<ul style="list-style-type: none"> <li>Cryptographically signed firmware</li> <li>Secure Boot</li> <li>Secure Erase</li> <li>Silicon Root of Trust</li> <li>System Lockdown (requires iDRAC9 Enterprise or Datacenter)</li> <li>TPM 1.2/2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ</li> </ul>
Embedded NIC	2 x 1 GbE LOM
Network Options	1 x OCP 3.0
GPU Options	Not supported
Ports	<p>Front Ports</p> <ul style="list-style-type: none"> <li>1 x iDRAC Direct (Micro-AB USB) port</li> <li>1 x USB 2.0</li> <li>1 x VGA</li> </ul> <p>Rear Ports</p> <ul style="list-style-type: none"> <li>1 x USB 2.0</li> <li>1 x Serial (optional)</li> <li>1 x USB 3.0</li> <li>2 x Ethernet</li> <li>1 x VGA</li> </ul> <p>Internal Ports</p> <ul style="list-style-type: none"> <li>1 x USB 3.0 (optional)</li> </ul>
PCIe	<p>Up to 5 x PCIe Gen4 slots + 1 x PCIe Gen3 slots</p> <ul style="list-style-type: none"> <li>3 x16 Gen4 low profile</li> <li>2 x16 Gen4 low profile (optional)</li> <li>1 x8 Gen3 (x4 lane) low profile</li> </ul>

Features	Technical Specifications
Operating System and Hypervisors	<ul style="list-style-type: none"> <li>• Canonical Ubuntu Server LTS</li> <li>• Citrix Hypervisor</li> <li>• Microsoft Windows Server with Hyper-V</li> <li>• Red Hat Enterprise Linux</li> <li>• SUSE Linux Enterprise Server</li> <li>• VMware ESXi</li> </ul> For specifications and interoperability details, see <a href="https://www.dell.com/osupport">Dell.com/OSsupport</a> .
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 <a href="https://www.dell.com/oem">Dell.com/OEM</a> .

## Recommended support and services

Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell representative today for more information. Availability and terms of Dell Services vary by region. For more information, visit [www.delltechnologies.com/Services](https://www.delltechnologies.com/Services).

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