PowerEdge R550

Spec Sheet

D‹LL Technologies

2U, versatile, value-optimized, and virtualization-ready

The Dell EMC PowerEdge R550, with 3rd generation Intel® Xeon® Scalable processors, offers added flexibility for organizations seeking exceptional value.

Innovate at scale with challenging and emerging workloads

The new Dell EMC PowerEdge R550 is a 2U, dual-socket server that offers the best value for organizations seeking the latest processing, I/O, and storage capabilities. It lets you:

- Add additional power and cores: It offers up to two 3rd generation Intel Xeon Scalable processors with up to 24 cores per socket
- Choose faster memory: Supports up to 16 DDR4 RDIMMS at 2933 MT/sec
- Improve throughput and reduce latency: With up to 3 PCIe Gen4 slots and 1 PCIe Gen3
- Include flexible storage: Supports up to 16x 2.5" SAS/SATA hard drives or SSDs or up to 8x 3.5" SAS/SATA hard drives or SSDs
- Support light duty virtualization and small IT infrastructure workloads

Increase efficiency and accelerate operations with autonomous compute infrastructure

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 environments including on-premise, cloud, and edge

Built-in protection 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

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PowerEdge R550

Power your innovation with the Dell EMC PowerEdge R550, the 2U 2-socket server that's built for versatility and optimized for exceptional value.

- Small IT Infrastructure
- Light VM (virtual machine density)
- Small Business Specific

Features	Technical Specifications	
Processor	Up to two 3rd Generation Intel Xeon Scalable processors with up to 24 cores per processor	
Memory	• 16 DDR4 DIMM slots, supports RDIMM 1 TB max, speeds up to 2933 MT/s • Supports registered ECC DDR4 DIMMs only	
Storage controllers	• Internal Controllers: PERC H345, PERC H355, HBA355i, PERC H745, PERC H755, S150 • Internal Boot: Internal Dual SD Module, USB, Boot Optimized Storage Subsystem (BOSS-S2): HWRAID 2x M.2 SSDs • External PERC (RAID): PERC H840 • External HBA (non-RAID): HBA355e	
Drive Bays	Front bays: • Up to 16 x 2.5-inch SAS/SATA (HDD/SSD) max 122.88 TB • Up to 8 x 3.5-inch SAS/SATA (HDD/SSD) max 128 TB • Up to 8 x 2.5-inch SAS/SATA (HDD) max 61.44 TB	
Power Supplies	• 600W Platinum Mixed Mode (100-240Vac or 240Vdc) hot swap redundant • 800W Platinum Mixed Mode (100-240Vac or 240Vdc) hot swap redundant • 1100W -48Vdc hot swap redundant (CAUTION: only works with -48Vdc to -60Vdc power input)	
Cooling Options	Air cooling	
Fans	• Standard (STD) fans • Up to five cabled fans	
Dimensions	• Height – 86.8 mm (3.41 inches) • Width – 482 mm (18.97 inches) • Depth – 721.69 mm (28.72 inches) with bezel 685.78 mm (27.00 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	• OpenManage Enterprise • OpenManage Power Manager plugin • OpenManage SupportAssist plugin • OpenManage Update Manager plugin	
Mobility	OpenManage Mobile	
Integrations and Connections	OpenManage Integrations • BMC Truesight • Microsoft System Center • Red Hat Ansible Modules • VMware vCenter and vRealize Operations Manager	OpenManage Connections • IBM Tivoli Netcool/OMNIbus • IBM Tivoli Network Manager IP Edition • Micro Focus Operations Manager • Nagios Core • Nagios XI
Security	• Cryptographically signed firmware • Secure Boot • Secure Erase • Silicon Root of Trust • System Lockdown (requires iDRAC9 Enterprise or Datacenter) • TPM 1.2/2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ	
Embedded NIC	2 x 1 GbE LOM	
Network Options	1 x OCP 3.0 (optional)	
GPU Options	Not supported	
Ports	Front Ports • 1 x Dedicated iDRAC (Micro-AB USB) port • 1 x USB 2.0 • 1 x VGA	Rear Ports • 1 x USB 2.0 • 1 x Serial (optional) • 1 x iDRAC ethernet port • 1 x USB 3.0 • 1 x VGA
	Internal Ports • 1 x USB 3.0 (optional)	
PCIe	3 x PCIe Gen4 slots + 1 x PCIe Gen3 slot • 3 x16 Gen4 low profile • 1 x8 Gen3 (x4 lane) low profile	
Operating System and Hypervisors	• Canonical Ubuntu Server LTS • Citrix Hypervisor • 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/OEM.	

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 Dell.com/ServiceDescriptions.

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 www.delltechnologies.com/ondemand.

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