DELLTechnologies

Deliver the value of data

The Dell PowerEdge R250 affordably addresses common business workloads while delivering compute with an entry-level 1U rack server.

Your Innovation Engine for businesses of all sizes

The Dell PowerEdge R250, powered by Intel® Xeon® E-2300 processors, delivers powerful compute for common business applications and streamlines productivity. It supports 3200 MT/s DDR4 speeds and 32 GB DIMMs, up to 128 GB for memory intensive workloads. In addition, to address substantial throughput improvements, the PowerEdge R250 supports PCIe Gen 4 and offers enhanced thermal efficiency to support increasing power and thermal requirements. This makes the PowerEdge R250 an rack ideal server for buisness critical workloads, cloud infrastructure, and point of sale transactions in a 1U form factor, for small to midsized businesses, inside and outside of the data center.

Increase efficiency and accelerate operations with autonomous collaboration

The Dell 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 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

Protect your data assets and infrastructure with proactive resilience

The Dell PowerEdge R250 server is designed with a cyber-resilient architecture, integrating security deeply into every phase in the lifecycle, from design to retirement.

- Operate your workloads on a secure platform anchored by cryptographically trusted booting and silicon root of trust
- Maintain server firmware safety with digitally signed firmware packages
- Prevent unauthorized configuration or firmware change with system lockdown
- Securely and quickly wipe all data from storage media, including hard drives, SSDs and system memory with System Erase

PowerEdge R250

The Dell PowerEdge R250 offers streamlined productivity, high-speed memory and capacity, powerful compute to address common business applications. Ideal for:

- Small midsized businesses
- Remote office/branch office
- Collaboration and sharing
- Mail/messaging and file/print

Feature	Technical Specifications	
Processor	One Intel Xeon E-2300 series processor with up to 8 cores or one Intel Pentium processor with up to 2 cores	
Memory	• Four DDR4 DIMM slots, supports UDIMM 128 GB max, speeds up to 3200 MT/s • Supports unregistered ECC DDR4 DIMMs only Note: For Pentium processor, the maximum memory speed is 2666 MT/s.	
Storage controllers	• Internal controllers: PERC H345, H755, HBA355i, S150 • Internal Boot: Internal Dual SD Module or USB or Boot Optimized Storage Subsystem (BOSS-S1): HWRAID 2 x M.2 SSDs • External HBAs (non-RAID): HBA355e	
Drive bays	Front bays: • Up to 4 x 3.5-inch hot swap SAS/SATA (HDD/SSD) max 30.72 TB • Up to 2 x 3.5-inch cabled SAS/SATA (HDD/SSD) max 15.36 TB • Up to 4 x 3.5-inch cabled SAS/SATA (HDD/SSD) max 30.72 TB	
Power supplies	• 450 W Bronze 100-240 V AC, cabled • 450 W Platinum 100-240 V AC, cabled • 700 W Titanium 100-240 V AC, cabled • 700 W Titanium 240 V DC, cabled	
Cooling options	Air cooling	
Fans	• Up to four cabled fans	
Dimension	• Height: 42.8 mm (1.68 inches) • Width: 482 mm (18.97 inches) • Depth: 598.64 mm (23.56 inches) with bezel 585 mm (23.03 inches) without bezel	
Form Factor	1U rack server	
Embedded management	• iDRAC9 • iDRAC Direct • iDRAC RESTful API with Redfish • iDRAC Service Manual	
Bezel	Optional 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	
GPU options	Not supported	
Ports	Front Ports • 1 x USB 2.0 • 1 x iDRAC Direct (Micro-AB USB) port Internal Ports • 1 x USB 3.0 (optional)	Rear Ports • 1 x USB 2.0 • 1 x iDRAC ethernet port • 1 x USB 3.0 • 1 x VGA • 1 x Serial port
PCIe	2 PCIe slots: • 1 x8 Gen4 (x16 connector) low profile, half length • 1 x8 Gen4 (x8 connector) low profile, half length	
Operating System and Hypervisors	• Canonical Ubuntu Server LTS • Microsoft Windows Server with Hyper-V • SUSE Linux Enterprise Server • VMware ESXi (support only from Dec'21) • Red Hat Enterprise Linux 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

Consume technology, infrastructure and services any way you want with Dell Technologies on Demand, the industry's broadest end-to-end portfolio of flexible consumption and as-a-Service solutions. For more information, visit www.delltechnologies.com/en-us/payment-solutions/flexible-consumption/flex-on-demand.htm.

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