

POWEREDGE R440

Optimized for dense, scale-out computing

The PowerEdge R440 delivers the perfect combination of performance and density for HPC and web-tech deployments with a feature set right-sized for scale-out infrastructure environments.



Deliver performance at scale with the Dell EMC PowerEdge portfolio

Modern compute platforms from Dell EMC easily scale and leverage key technologies to maximize application performance. The PowerEdge R440 is built on a scalable architecture that provides the choice and flexibility to optimize performance and density.

- Scale compute resources with 2nd Generation Intel® Xeon® Scalable processors, and tailor performance based on your unique workload requirements.
- Flexible storage with up to 10 x 2.5 SAS/SATA/SSD with up to 4 NVMe PCIe SSD's or 4 x 3.5.
- Free up storage with boot optimized M.2 SSDs.

Intuitive systems management with intelligent automation

The Dell EMC OpenManage™ portfolio helps deliver peak efficiency for PowerEdge servers, delivering intelligent, automated management of routine tasks. Combined with unique agent-free management capabilities, the R440 is simply managed, freeing up time for high profile projects.

- Simplify management of your servers with OpenManage Essentials, a 1:many console that automates all phases of lifecycle management: deployment, updates, monitoring, and maintenance.
- Use Quick Sync 2, a wireless module, and the OpenManage Mobile app for at-server management, to configure or troubleshoot in the data center, and to receive alerts when you're on the go.

Rely on PowerEdge with built-in security

Every PowerEdge server is made with a cyber-resilient architecture, building security into all parts of a server's life cycle. The R440 uses these new security features so you can reliably and securely deliver the right data to where your customers are, no matter where they are. Dell EMC consider each part of system security, from design to end of life, to ensure trust and deliver worry-free, secure systems.

- Rely on a secure supply chain that protects servers from factory to the data center.
- Maintain data safety with cryptographically signed firmware packages and Secure Boot.
- Prevent unauthorized or malicious change with Server Lockdown.
- Wipe all data from storage media including hard drives, SSDs and system memory quickly and securely with System Erase.

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- 1U, 2 socket server
- Up to 10 2.5 drives with up to 4 NVMe
- Internal M.2 boot drives

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Features	Technical Specification	
Processor	Up to two 2 nd Generation Intel® Xeon® Scalable processors, up to 24 cores per processor	
Memory	16 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2666MT/s, 1TB max ¹	
Storage controllers	Internal Controllers: PERC H330, H730P, H740P, HBA330 External Controllers: H840, 12 Gbps SAS HBA Software RAID:S140	
Internal Boot	Boot Optimized Storage Subsystem (BOSS):HWRAID 2 x M.2 SSDs 240GB, 480GB Internal Dual SD Module ²	
Drive bays	Front drive bays: Up to 10 x 2.5" SAS/SATA (HDD/SSD) with up to 4 NVMe SSD max 76.8TB or up to 4 x 3.5 SAS/SATA HDD max 64TB Optional DVD-ROM, DVD+RW	
Power supplies	Bronze 450W (Cabled PSU), Platinum 550W (Hot plug PSU with full redundancy option)	
Fans	Up to six cabled fans	
Sizing	Form factor: Rack (1U)	Height: 42.8mm (1.68") Width*: 434mm (17.08") Depth*: 714.62mm (28.13") Weight: 17.6kg (38.9lbs.) *Dimensions do not include bezel
Bezel	Optional LCD or security bezel	
Embedded / At-Server	iDRAC9 iDRAC Direct	iDRAC REST API with Redfish Quick Sync 2 BLE/wireless module
Consoles & Mobile	OpenManage Enterprise OpenManage Essentials	OpenManage Mobile OpenManage Power Center
Integrations	OpenManage integrations: Microsoft® System Center, VMware® vCenter™, BMC Truesight, Red Hat® Ansible® Modules	
Connections	OpenManage connections: Nagios® & Nagios® XI, IBM Tivoli Netcool/OMNIBus, Micro Focus Operations Manager I	
Tools	Dell EMC Repository Manager Dell EMC Update Package Dell EMC System Update Dell EMC Server Update Utility	iDRAC Service Module OpenManage Server Administrator OpenManage Storage Services
Security	TPM 1.2/2.0, TCM 2.0 optional Cryptographically signed firmware Silicon Root of Trust	Secure Boot System Lockdown (requires OpenManage Enterprise) System Erase
I/O & Ports	Network options 2 x 1GbE LOM + (optional) LOM Riser 2 x 1GbE or 2x 10GbE SFP+ or 2 x 10GbE BaseT Front ports: 1 x Dedicated iDRAC Direct USB, 1 x USB 2.0, 1 x Video Rear ports: 1 x Dedicated iDRAC network port, 1 x Serial, 2 x USB 3.0, 1 x Video Up to 2 x PCIe Gen 3 slots all x16	
Supported operating systems	Canonical® Ubuntu® Server LTS Citrix® Hypervisor Microsoft Windows Server® LTSC 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	Choose 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/itlifecycleservices .	
Dell Financial Services	Deliver results with easy financing. Explore financial options that move at the speed of business. For more information, visit https://www.emc.com/products/how-to-buy/global-financial-services/index.htm .*	

¹ 768GB max memory is recommended for performance optimized configurations

² ESXi (only OS supported)

Learn more at [Dell.com/PowerEdge](https://www.dell.com/PowerEdge)

End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell EMC for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell EMC Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.*