R440 SPEC SHEET

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 Intel® Xeon® Scalable processors delivering a 27% increase in processing cores and 50% increase in bandwidth over previous generation of Xeon processors.
- 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

Dell EMC gives top efficiency to PowerEdge servers, delivering smart automation of day to day tasks with the power and efficiency of the embedded iDRAC with Lifecycle Controller. With its agent-free management, the R440 is simply managed and frees up time for work priorities.

- 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.

PowerEdge R440

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

PowerEdge R440

Features	Technical Specification	
Processor	Up to two Intel® Xeon® Scalable processors, up to 22 cores per processor	
Memory	16 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2666MT/s, 1TB max*	
Storage controllers	Internal controllers: PERC H330, H730p, H740p, HBA330, Software RAID (SWRAID) S140 Boot Optimized Storage Subsystem: HWRAID 2 x M.2 SSDs 120GB, 240 GB External PERC (RAID): H840 External HBAs (non-RAID): 12 Gbps SAS HBA	
Drive bays	Front drive bays: Up to 10 x 2.5" SAS/SATA (HDD/SSD) with up to 4 NVMe SSD max 38.4TB or up to 4 x 3.5 SAS/SATA HDD max 56TB Optional DVD-ROM, DVD+RW	
Power supplies	Bronze 450W, Platinum 550W	
Fans	Six hot pluggable fans for N+1 redundancy	
Sizing	Form factor: Rack (1U)	Chassis: 728.23 mm Front Bezel to Rear PSU Handle 714.58 mm Front plate (no bezel) to Rear PSU Handle
Bezel	Optional LCD or security bezel	
Embedded / At-Server	iDRAC9 with Lifecycle Controller iDRAC Direct	iDRAC REST API with Redfish Quick Sync 2 BLE/wireless module
Consoles & Mobile	OpenManage Enterprise (available soon) OpenManage Essentials	OpenManage Mobile OpenManage Power Center
Integrations	OpenManage integrations: Microsoft® System Center, VMware® vCenter™, BMC Software	
Connections	OpenManage connections: Nagios & Nagios XI,HP Operations Manager	
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 optional Cryptographically signed firmware Silicon Root of Trust	Secure Boot System Lockdown System Erase
I/O & Ports	Network options 2 x 1GE LOM + (optional) LOM Riser 2 x 1GE or 2x 10GE SFP+ or 2 x 10GE BaseT Front ports: Video, 1 x USB 2.0, available USB 3.0, dedicated IDRAC Direct USB Rear ports: Video, serial, 2 x USB 3.0, dedicated iDRAC network port Riser options also available include 2 x HH/HL or 1 x FH/HL	
Supported operating systems	Canonical® Ubuntu® LTS Citrix® XenServer® 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	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.*	

*768GB max memory is recommended for performance optimized configurations

Learn more at Dell.com/PowerEdge

End-to-end technology solutions

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