DELL EMC

R540 SPEC SHEET

POWEREDGE R540

Built for versatility

The PowerEdge R540 delivers the ideal balance of resources and affordability to adapt to a variety of application demands.

Power your applications with the versatility of the R540

The PowerEdge R540 delivers the versatility and flexibility to power a variety of applications. With a balanced set of resources, expandability and affordability the R540 adapts to the demands of the modern data center with the ideal value optimized design. Automatically optimize performance with one button application tuning and scale for future demands with up to 14 3.5” drives.

- 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.
- Automatically optimize application performance with one-button tuning.
- Flexible storage with up to 14 3.5” drives.
- Free up storage with boot optimized M.2 SSDs.

Intuitive systems management with intelligent automation

Dell EMC PowerEdge servers are optimized for top efficiency and uptime, with intelligent automation that decreases time spent on the most common IT tasks. Combined with the agent-free management of the embedded iDRAC with Lifecycle Controller, the R540 is easily and effectively managed.

- Simplify data center management with OpenManage Essentials to intelligently automate the entire server life cycle management process – from bare-metal deployment, through configuration and updates, to ongoing maintenance.
- Use the OpenManage Mobile app to take advantage of new wireless Quick Sync 2 capabilities to efficiently perform management procedures at-the-server, across multiple servers within the data center, or monitor server status and respond to alerts, anytime, anywhere.

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 R540 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 considers 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 R540

- 2U, 2 socket server
- Up to 14 3.5” drives, max 140TBs
- Internal M.2 boot drives

PowerEdge R540

Features	Technical Specification	
Processor	Up to two Intel® Xeon® Scalable processors, up to 20 cores per processor	
Memory	16 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2666MT/s, 512GB 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 12 x 3.5" SAS/SATA HDD max 120TB Rear drive bays: Up to 2 x 3.5 SAS/SATA HDD Optional DVD-ROM, DVD+RW	
Power supplies	Titanium 750W, Platinum 495W, 750W, and 1100W 240HVDC 750W	Hot plug power supplies with full redundancy options
Sizing	Form factor: Rack (2U)	Chassis max depth: 707.74 mm (without bezel) Max depth: 693.81 mm (with bezel)
Bezel	Optional LCD bezel 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	Nagios Core and Nagios XI, Oracle Enterprise Manager, HPE Operations Manager i (OMi)	
Tools	Dell EMC Repository Manager Dell EMC System Update Dell EMC Server Update Utility Dell EMC Update Catalogs	iDRAC Service Module OpenManage Server Administrator OpenManage Storage Services
Security	TPM 1.2/2.0 optional Cryptographically signed firmware Secure Boot	Hardware Root of Trust System Lockdown System Erase
I/O & Ports	Network daughter card options: 2 x 1GE LOM (optional) OCP 2 x 10GE SFP+ or BaseT or 2 x 1GE 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 With Optional Riser: Non rear storage config: 1xFH/FL + 1xHH/HL (2U Right riser) slots + 3 HH/HL slots Rear storage config: 1xHH/HL (1U Left Riser) + 1xHH/HL (1U Right risers) slot or 1xHH/HL (1U Left Riser) + 1x FH/HL (1U Right riser)	
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.*	

Learn more at Dell.com/PowerEdge

* Payment solutions provided and serviced by Dell Financial Services L.L.C. or its affiliate or designee ("DFS") for qualified customers. Offers may not be available or may vary in certain countries. Where available, offers may be changed without notice and are subject to product availability, credit approval, execution of documentation provided by and acceptable to DFS, and may be subject to minimum transaction size. Offers not available for personal, family or household use. Dell EMC and the Dell EMC logo are trademarks of Dell Inc. Restrictions and additional requirements may apply to transactions with governmental or public entities.

v.1 Copyright © July 20, 2017 Dell Inc. or its subsidiaries. All Rights Reserved.