Dell PowerEdge R540 Server Datasheet

CONTENT

Contact Us

Tel: +1-626-239-8066 (USA)   +852-3050-1066 / +852-3174-6166 /

Fax: +852-3050-1066 (Hong Kong)
Email: sales@router-switch.com (Sales Inquiries)

OVERVIEW

Satisfy a variety of applications with the flexible Dell PowerEdge R540. Its balanced combination of resources, expandability and affordability adapt to the changing demands of a modern data center. Optimize your application performance with one-button tuning. Scale for future requirements with up to 14 x 3.5" drives. Embedded diagnostics and SupportAssist help to maximize uptime without added effort, in a worry-free environment.

Figure 1. **Dell PowerEdge R540 Server**

FEATURES

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 2nd Generation Intel® Xeon® Scalable processors, and tailor performance based on your unique workload requirements.

● 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.

SPECIFICATION

Specification	Dell PowerEdge R440 Server
Processor	Up to two 2nd Generation Intel® Xeon® Scalable processors, up to 20 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 12 x 3.5" SAS/SATA HDD max 168TB Rear drive bays: Up to 2 x 3.5 SAS/SATA HDD max 28TB Optional DVD-ROM, DVD+RW
Power supplies	Platinum 495W, 750W, 750W 240V HVDC, 1100W, 1100W 380V HVDC Hot plug power supplies with full redundancy option Up to six fans
Dimensions	Form factor: Rack (2U) Height: 86.8mm (3.41") Width*: 434mm (17.08") Depth*: 693.81mm (27.31") Weight: 29.68kg (65.43lbs.) *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	Nagios® Core and 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 2 x 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
	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® Server LTS
	Citrix® Hypervisor
	Microsoft Windows Server® LTSC with Hyper-V
	Red Hat® Enterprise Linux
	SUSE® Linux Enterprise Server
	VMware® ESXi
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.
Recommended support	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.
Dell Financial Services	Deliver results with easy financing. Explore financial options that move at the speed of business.

Configured Models

Dell 2U R540 3204/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8

Dell 2U R540 3204/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12

Dell 2U R540 4208/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8

Dell 2U R540 4208/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12

Dell 2U R540 4210/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8

Dell 2U R540 4210/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12

Dell 2U R540 4214/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8

Dell 2U R540 4214/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12

Dell 2U R540 4216/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8

Dell 2U R540 4216/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12

Dell 2U R540 5218/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8

Dell 2U R540 5218/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12

Dell PowerEdge R540 3104/8G/600G SAS 10K/2*1GE/H330/DVD/495W/3.5-8 Server

Dell PowerEdge R540 3104/8G/600G SAS 10K/H330/DVD/495W/3.5-12 Server

Dell PowerEdge R540 3106/8G/600G SAS 10K/2*1GE/H330/DVD/495W/3.5-8 Server

Dell PowerEdge R540 3106/8G/600G SAS 10K/H330/DVD/495W/3.5-12 Server

Dell PowerEdge R540 4110/8G/600G SAS 10K/2*1GE/H330/DVD/495W/3.5-8 Server

Dell PowerEdge R540 4110/8G/600G SAS 10K/H330/DVD/495W/3.5-12 Server

Dell PowerEdge R540 4114/8G/600G SAS 10K/2*1GE/H330/DVD/495W/3.5-8 Server

Dell PowerEdge R540 4114/8G/600G SAS 10K/H330/DVD/495W/3.5-12 Server

Dell PowerEdge R540 5115/8G/600G SAS 10K/2*1GE/H330/DVD/495W/3.5-8 Server

Dell PowerEdge R540 5115/8G/600G SAS 10K/H330/DVD/495W/3.5-12 Server

Dell PowerEdge R540 5118/8G/600G SAS 10K/2*1GE/H330/DVD/495W/3.5-8 Server

Dell PowerEdge R540 5118/8G/600G SAS 10K/H330/DVD/495W/3.5-12 Server

WHERE TO BUY

Want to buy this series of products? please contact:

● Tel: +1-626-239-8066 (USA) +852-3050-1066 / +852-3174-6166

● Fax: +852-3050-1066 (Hong Kong)

● Email: sales@router-switch.com (Sales Inquiries)

Or visit: [Dell PowerEdge R540 Server](#)

About us

Router-switch.com, founded in 2002, is one of the biggest Global Network Hardware Supplier. We are a leading provider of network products with 18,000+ customers in over 200 countries. We provide original new and used network equipments (Cisco, Huawei, HPE, Dell, Juniper, Fortinet, Dahua, etc.), including Routers, Switches, Servers, Storage, Telepresence and Videoconferencing, IP Phones, Firewalls, IP Cameras, Wireless APs & Controllers, EHWIC/HWIC/VWIC Cards, SFPs, Memory & Flash, Hard Disk, Cables, and all kinds of network solutions related products.

SOURCES

https://i.dell.com/sites/doccontent/shared-content/data-sheets/en/Documents/PowerEdge-R540-Spec-Sheet.pdf