



# 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<br>Boot Optimized Storage Subsystem: HWRAID 2 x M.2 SSDs 120GB, 240 GB<br>External PERC (RAID): H840<br>External HBAs (non-RAID): 12 Gbps SAS HBA                                                                                                                                                                                                                                                                    |                                                                                                                  |
| Drive bays                       | Front drive bays: Up to 12 x 3.5" SAS/SATA HDD max 120TB<br>Rear drive bays: Up to 2 x 3.5 SAS/SATA HDD<br>Optional DVD-ROM, DVD+RW                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                  |
| Power supplies                   | Titanium 750W, Platinum 495W, 750W, and 1100W<br>240HVDC 750W                                                                                                                                                                                                                                                                                                                                                                                                                                           | Hot plug power supplies with full redundancy options                                                             |
| Sizing                           | Form factor: Rack (2U)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chassis max depth: 693.81 mm (without bezel)<br>Max depth: 707.74 mm (with bezel)                                |
| Bezel                            | Optional LCD or security bezel                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                  |
| Embedded / At-Server             | iDRAC9 with Lifecycle Controller<br>iDRAC Direct                                                                                                                                                                                                                                                                                                                                                                                                                                                        | iDRAC REST API with Redfish<br>Quick Sync 2 BLE/wireless module                                                  |
| Consoles & Mobile                | OpenManage Enterprise (available soon)<br>OpenManage Essentials                                                                                                                                                                                                                                                                                                                                                                                                                                         | OpenManage Mobile<br>OpenManage Power Center                                                                     |
| Integrations                     | OpenManage integrations: Microsoft® System Center, VMware® vCenter™, BMC Software                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                  |
| Connections                      | Nagios Core and Nagios XI, HPE Operations Manager i (OMi)                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                  |
| Tools                            | Dell EMC Repository Manager<br>Dell EMC Update Package<br>Dell EMC System Update<br>Dell EMC Server Update Utility                                                                                                                                                                                                                                                                                                                                                                                      | iDRAC Service Module<br>OpenManage Server Administrator<br>OpenManage Storage Services                           |
| Security                         | TPM 1.2/2.0 optional<br>Cryptographically signed firmware<br>Silicon Root of Trust                                                                                                                                                                                                                                                                                                                                                                                                                      | Secure Boot<br>System Lockdown<br>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<br>Front ports: Video, 1 x USB 2.0, available USB 3.0, dedicated iDRAC Direct USB<br>Rear ports: Video, serial, 2 x USB 3.0, dedicated iDRAC network port<br>With Optional Riser: Non rear storage config: 1xHH/FL + 1xHH/HL (2U Right riser) slots + 3 HH/HL slots<br>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<br>Citrix® XenServer®<br>Microsoft Windows Server® with Hyper-V<br>Red Hat® Enterprise Linux<br>SUSE® Linux Enterprise Server<br>VMware® ESXi                                                                                                                                                                                                                                                                                                                                    | For specifications and interoperability details see <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a> . |
| 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 <a href="http://Dell.com/OEM">Dell.com/OEM</a> .                                                                                                                                                                                                                                                                                                                 |                                                                                                                  |
| 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 <a href="http://dell.com/itlifecycleservices">dell.com/itlifecycleservices</a> .                                                                    |                                                                                                                  |
| Dell Financial Services          | Deliver results with easy financing. Explore financial options that move at the speed of business. For more information, visit <a href="https://www.emc.com/products/how-to-buy/global-financial-services/index.htm">https://www.emc.com/products/how-to-buy/global-financial-services/index.htm</a> .*                                                                                                                                                                                                 |                                                                                                                  |

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