



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 PowerEdge portfolio

Modern compute platforms from Dell 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. Maximize storage performance with up to 8 NVMe drives or 12 2.5" drives.
- Flexible storage with up to 10 x 2.5 SAS/SATA/SSD with up to 4 NVMe PCIe SSDs or 4 x 3.5.
- Free up storage with boot optimized M.2 SSDs.

Intuitive systems management with intelligent automation

Dell 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 life cycle 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 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 Intel® Xeon® Scalable processors, up to 22 cores per processor | |
| Memory | 16 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2666MT/s, 512GB max Supports registered ECC DDR4 DIMMs only | |
| 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 48TB or up to 4 x 3.5 SAS/SATA HDD max 40TB Optional DVD-ROM, DVD+RW | |
| Power supplies | Gold 450W, Platinum 550W | Hot plug power supplies with full redundancy |
| Dimensions | Form factor: Rack (1U) | Chassis depth: 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, Oracle Enterprise Manager, HP Operations Manager, IBM Tivoli Netcool/OMNIBus, IBM Tivoli® Network Manager, CA Network and Systems Management | |
| Tools | Dell System Update Dell Server Update Utility Dell Update Catalogs Dell Repository Manager | iDRAC Service Module OpenManage Server Administrator OpenManage Storage Services |
| Security | TPM 1.2/2.0 optional Cryptographically signed firmware Secure Boot | System Lockdown System Erase |
| I/O & Ports | Network daughter card options 2 x 1GE LOM (optional) OCP 2 x 10 GE 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 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 . | |
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