DELLEMC

DELL EMC POWEREDGE R940

Scale-up powerhouse for mission critical workloads

The PowerEdge R940 is designed to power your mission-critical applications and real-time decisions. With four sockets and up to 12 NMVe drives, the R940 provides scalable performance in just 3U.

Breathtaking performance for mission-critical workloads

The scalable business architecture of the Dell EMC PowerEdge R940 can deliver the most mission critical workloads. With automatic workload tuning for many workloads, configuration is quick. Combined with up to 6TB of memory and 13 PCIe Gen 3 slots the R940 has all the resources to maximize application performance and scale for future demands.

- Maximize storage performance with up to 12 NVMe drives and ensure application performance scales easily.

- Optimized for software defined storage with a special 2-socket configuration delivering 50% more UPI bandwidth compared to a regular 2-socket server.

- Free up storage space using internal M.2 SSDs optimized for boot.

- Eliminate bottlenecks with up to 6TB of memory in 48 DIMMS, 12 of which can be NVDIMMs.

Automate maintenance with Dell EMC OpenManage

The Dell EMC OpenManage™ portfolio helps deliver peak efficiency for PowerEdge servers, delivering intelligent, automated management of routine tasks. Combined with unique agent-free management capabilities, the PowerEdge R940 is simply managed, freeing up time for high profile projects.

- Simplify management with the New OpenManage Enterprise™ console, with customized reporting and automatic discovery.

- Take advantage of QuickSync 2 capabilities and gain access to your servers easily through your phone or tablet.

Rely on PowerEdge with built-in security

Every PowerEdge server is designed as part of a cyber resilient architecture, integrating security into the full server life cycle. The R940 leverages new security features built-into every new PowerEdge server strengthening protection so you can reliably and securely deliver accurate data to your customers no matter where they are. By considering each aspect of system security, from design to retirement, Dell EMC ensures trust and delivers a worry-free, secure infrastructure without compromise.

- Rely on a secure component supply chain to ensure protection 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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- High bandwidth dual socket option optimized for virtualized environments

- 13 PCIe Gen. 3 slots

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Features	Technical Specification	
Processor	Up to four Intel® Xeon® SP, up to 28 cores	
Memory	48 DDR4 DIMM slots, Supports RDIMM /LRDIMM, up to 2666MT/s, 6TB max Up to 12 NVDIMM, 192 GB Max Supports registered ECC DDR4 DIMMs only	
Storage controllers	Internal controllers: PERC S140, H330, H740P Boot optimized Storage Subsystem External HBAs (RAID): H840 External HBAs (non-RAID): 12 Gbps SAS HBA	
Drive bays	Front drive bays: Up to 24 x 2.5" SAS/SATA (HDD/SSD) with up to 12 NVMe PCIe SSD, max 122TB	
Power supplies	Platinum 1100W, 1600W, 2000W, 2400W, 336-380VDC 1100W, Gold 48VDC 1100W	Hot plug power supplies with full redundancy option 8 hot plugs fans with full redundancy
Dimensions	Form factor: Rack (3U)	Chassis depth: 777.05 mm
Embedded management	IPMI 2.0 compliant iDRAC9 with Life cycle Controller (Express, Enterprise) Quick Sync 2 wireless module optional	
Bezel	Optional LCD bezel	
OpenManage™ Software	OpenManage Enterprise OpenManage Essentials	OpenManage Mobile OpenManage Power Center
Integrations and connections	Integrations: Microsoft® System Center, VMware® vCenter™, BMC Software Connections: Nagios & Nagios XI, Oracle Enterprise Manager, HP Operations Manager,	IBM Tivoli Netcool/OMNIbus, IBM Tivoli® Network Manager, CA Network and Systems Management
Security	TPM 1.2/2.0 optional Cryptographically signed firmware Secure Boot	System Lockdown Secure erase
I/O & Ports	Network daughter card options 4x 1Gb, 4x 10Gb, 2x 10Gb+2x 1Gb, or 2x 25Gb Front ports: Video, 2 x USB 3.0, dedicated IDRAC Direct USB Rear ports: Video, serial, 2 x USB 3.0, dedicated iDRAC network port Video card: VGA Up to 13 x Gen3 slots, (3 x8 + 10 x16)	
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	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.	

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Recommended services
ProSupport Plus with SupportAssist provides proactive and predictive support for critical systems. ProSupport provides comprehensive hardware and software support. Get more from your technology starting on day one with ProDeploy Enterprise Suite deployment offers. For more information, visit Dell.com/itlifecycleservices.

End-to-end technology solutions
Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell EMC for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell EMC Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.*

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