Dell PowerEdge R940 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

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.

Figure 1. **Dell PowerEdge R940 Server**

FEATURES

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 15.36TB 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 15.36TB of memory in 48 DIMMS, 24 of which can be Intel® Optane™ DC persistent memory DCPMMs.

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 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 package 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 R940 Server
Processor	Up to four 2nd Generation Intel® Xeon® Scalable processors, up to 28 cores each

Memory	48 DDR4 DIMM slots, Supports RDIMM /LRDIMM, up to 2933MT/s, 6TB max Up to 12 NVDIMM, 384GB Max Up to 24 Intel® Optane™ DC persistent memory DCPMM, max 12.28TB, (15.36TB max with DCPMM and LDRIMM) 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 184.32TB
Power supplies	Platinum 1100W, 1100W 380VDC, 1600W, 2000W, 2400W Gold 1100W-48VDC Hot plug power supplies with full redundancy option 8 hot plugs fans with full redundancy
Dimensions	Form factor: Rack (3U) Height: 130.3mm (5.13") Width: 434mm (17.08") Depth: 784.2mm (30.8") Weight: 49.9kg (110lbs.) *Dimensions do not include bezel
Embedded management	IPMI 2.0 compliant iDRAC9, iDRAC Direct, iDRAC RESTful with Redfish

	Quick Sync 2 wireless module optional
Bezel	Optional LCD or security bezel
OpenManage™ Software	OpenManage Enterprise
	OpenManage Essentials
	OpenManage Mobile
	OpenManage Power Center
Integrations and connections	Integrations:
	Microsoft® System Center
	VMware® vCenter™
	BMC Truesight
	Red® Hat Ansible Modules
	Connections:
	Nagios Core & Nagios XI
	Micro Focus Operations Manager I
	IBM Tivoli Netcool/OMNIbus
Security	TPM 1.2/2.0 optional
	Cryptographically signed firmware
	Secure Boot
	Silicon Root of Trust
	System Lockdown
	(requires OpenManage Enterprise)
	Secure erase

I/O & Ports	Network daughter card options
	4x 1GbE, 4x 10GbE, 2x 10GbE+2x 1GbE, or 2x 25GbE
	Front ports: 1 x Dedicated iDRAC Direct USB, 2 x USB 3.0, 1 x VGA
	Rear ports: 1 x Dedicated iDRAC network port, 1 x Serial, 2 x USB 3.0, 1 x VGA
	Video card: 2 x VGA
	Up to 13 x Gen3 slots, (3 x8 + 10 x16)
Supported operating systems	Canonical® Ubuntu® Server LTS
	Citrix® Hypervisor
	Microsoft Windows Server® LTSC with Hyper-V
	Oracle® Linux
	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	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

Configured Models

Dell PowerEdge R940 5115*2/8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-24 Server

Dell PowerEdge R940 5115*2/8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-8 Server

Dell PowerEdge R940 5117*2/8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-24 Server

Dell PowerEdge R940 5117*2/8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-8 Server

Dell PowerEdge R940 5118*2/8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-24 Server

Dell PowerEdge R940 5118*2/8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-8 Server

Dell PowerEdge R940 5120*2/8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-24 Server

Dell PowerEdge R940 5120*2/8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-8 Server

Dell R940 5215*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*750W/2.5-24

Dell R940 5215*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*750W/2.5-8

Dell R940 5217*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*750W/2.5-24

Dell R940 5217*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*750W/2.5-8

Dell R940 5218*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*750W/2.5-24

Dell R940 5218*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*750W/2.5-8

Dell R940 5220*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-24

Dell R940 5220*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-8

Dell R940 6230*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-24

Dell R940 6230*2/2*8G DDR4/2*600G SAS 2.5 10k/H330/DVD/4*1GE/2*1100W/2.5-8

WHERE TO BUY

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SOURCES

https://i.dell.com/sites/csdocuments/Shared-Content_data-Sheets_Documents/en/aa/poweredge-r940-spec-sheet.pdf