



Dell PowerEdge R740xd Server Datasheet



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CONTENT

Content.....	1
Overview.....	2
Features.....	2
Specification.....	3
Ordering information.....	7
Where to Buy.....	8
Sources.....	8

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OVERVIEW

Benefit from scalable storage performance and data set processing with the Dell PowerEdge R740xd server. This 2U, 2-socket platform brings you scalability and performance to adapt to a variety of applications. Choose up to 24 NVMe drives, or a total of 32 x 2.5" or 18 x 3.5" drives. As you scale your deployments, scale your productivity with embedded intelligence and automation from iDRAC9 and the entire OpenManage portfolio designed to simplify the IT lifecycle from deployment to retirement.

Figure 1. Dell PowerEdge R740xd Server



FEATURES

Maximize performance and capacity

The scalable system architecture behind the R740xd with up to 24 NVMe drives creates the ideal balance between scalability and performance. The R740xd versatility is highlighted with the ability to mix any drive type to create the optimum configuration of NVMe, SSD and HDD for either performance, capacity or both. The R740xd is the platform of choice for software defined storage and is the foundation for ScaleIO, VSAN or the PowerEdge XC.

- Maximize storage performance with up to 24 NVMe drives and ensure application performance scales to meet demands.
- Free up storage space using internal M.2 SSDs optimized for boot.
- Simplify and accelerate ScaleIO or VMware vSAN™ deployments with validated, pre-bundled and tailored Ready Nodes.
- Accelerate workloads with up to 3 double-width 300W GPUs, up to 6 single-width 150W GPUs or up to 4 FPGAs.

Automate systems management with OpenManage

Dell EMC PowerEdge servers with OpenManage™ technology work at peak efficiency for PowerEdge servers, delivering intelligent, automated management of routine tasks. Combined with unique agent-free management capabilities, the R740xd 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.

Ensure server security from factory to you

Every PowerEdge server is designed as part of a cyber resilient architecture, integrating security into the full server life cycle. The R740xd 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.

SPECIFICATION

Specification	Dell PowerEdge R440 Server
Processor	Up to two Intel® Xeon® Scalable processors, up to 28 cores per

	processor
Memory	<p>24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2666MT/s, 3TB max</p> <p>Up to 12 NVDIMM, 192 GB Max</p> <p>Supports registered ECC DDR4 DIMMs only</p>
Storage controllers	<p>Boot Optimized Storage Subsystem: HWRAID 2 x M.2 SSDs 120GB or 240 GB</p> <p>External PERC (RAID): H840</p> <p>12Gbps SAS HBAs (non-RAID): External-12Gbps SAS HBA (non-RAID): Internal- HBA330 (non-RAID)</p>
Drive bays	<p>Front bays: Up to 24 x 2.5" SAS/SATA (HDD/SSD), NVMe SSD max 153TB or up to 12 x 3.5" SAS/SATA HDD max 144TB</p> <p>Mid bay: Up to 4 x 2.5" , max 25TB SAS/SATA (HDD/SSD), NVMe SSD max 25TB or up to 4 x 3.5" , max 48TB</p> <p>Rear bays: Up to 4 x 2.5" , max 25TB SAS/SATA (HDD/SSD), NVMe SSD or up to 2 x 3.5" max 24TB SAS/SATA HDD</p>
Power supplies	<p>Titanium 750W, Platinum 495W, 750W, 1100W, 1600W, and 2000W</p> <p>48VDC 1100W, 380HVDC 1100W, 240HVDC 750W</p> <p>Hot plug power supplies with full redundancy</p> <p>Up to 6 hot plugs fans with full redundancy</p>
Dimensions	<p>Form factor: Rack (2U)</p> <p>Max depth: 715.5 mm</p>
Embedded management	IPMI 2.0 compliant

	iDRAC9 with Lifecycle Controller (Express, Enterprise) 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 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 4 x 1GE or 2 x 10GE + 2 x 1GE or 4 x 10GE or 2 x 25GE Front ports: VGA, 2 x USB 2.0, dedicated iDRAC Direct Micro-USB

	<p>Rear ports: VGA, Serial, 2 x USB 3.0, dedicated iDRAC network port</p> <p>Video card: VGA</p> <p>Riser options with p to 8 PCIe Gen 3 slots, maximum of 4 x 16 slots</p>
Accelerator options	<p>GPU and FPGA options are available only on 24 x 2.5” drive chassis. Nvidia Tesla P100, K80, K40, Grid M60, M10, P4, Quadro P4000, NVIDIA V100 or Intel Arria® 10 GX</p>
Supported operating systems	<p>Canonical® Ubuntu® LTS</p> <p>Citrix® XenServer®</p> <p>Microsoft Windows Server® with Hyper-V</p> <p>Red Hat® Enterprise Linux</p> <p>SUSE® Linux Enterprise Server</p> <p>VMware® ESXi</p>
OEM-ready version available	<p>From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you.</p>
Recommended support	<p>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.</p>

ORDERING INFORMATION

Configured Models

[Dell 2U R740XD 3204/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12](#)

[Dell 2U R740XD 4208/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12](#)

[Dell 2U R740XD 4210/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12](#)

[Dell 2U R740XD 4214/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12](#)

[Dell 2U R740XD 4216/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12](#)

[Dell 2U R740XD 5218/8G*1/600G SAS 10K*1/H330/No DVD/750W*1/3.5-12](#)

[Dell PowerEdge R740XD 3104/8G/600G SAS 10K/H330/495W/3.5-12 Server](#)

[Dell PowerEdge R740XD 3106/8G/600G SAS 10K/H330/495W/3.5-12 Server](#)

[Dell PowerEdge R740XD 4110/8G/600G SAS 10K/H330/495W/3.5-12 Server](#)

[Dell PowerEdge R740XD 4114/8G/600G SAS 10K/H330/495W/3.5-12 Server](#)

[Dell PowerEdge R740XD 5115/8G/600G SAS 10K/H330/495W/3.5-12 Server](#)

[Dell PowerEdge R740XD 5118/8G/600G SAS 10K/H330/495W/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 R740xd Server](#)

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SOURCES

<https://i.dell.com/sites/doccontent/shared-content/data-sheets/en/Documents/poweredge-r740xd-spec-sheet.pdf>