POWEREDGE R740xd
Maximize storage performance and scalability

The PowerEdge R740xd delivers a perfect balance between storage scalability and performance. The 2U two-socket platform is ideal for software defined storage, service providers or as virtual desktop infrastructure.

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.

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- Choose the right resources to power your workloads with NVMe, GPU or FPGA options

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Features	Technical Specification
Processor	Up to two Intel® Xeon® Scalable processors, up to 28 cores per processor
Memory	24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2666MT/s, 3TB max Up to 12 NVDIMM, 192 GB Max Supports registered ECC DDR4 DIMMs only
Storage controllers	Internal controllers: PERC H730P, H740P, Software RAID (SWRAID) S140 Boot Optimized Storage Subsystem: HWRAID 2 x M.2 SSDs 120GB or 240 GB External PERC (RAID): H840 12Gbps SAS HBAs (non-RAID): External-12Gbps SAS HBA (non-RAID): Internal- HBA330 (non-RAID)
Drive bays	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 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 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
Power supplies	Titanium 750W, Platinum 495W, 750W, 1100W, 1600W, and 2000W 48VDC 1100W, 380HVDC 1100W, 240HVDC 750W Hot plug power supplies with full redundancy Up to 6 hot plugs fans with full redundancy
Dimensions	Form factor: Rack (2U) Max depth: 715.5 mm
Embedded management	IPMI 2.0 compliant iDRAC9 with Lifecycle Controller (Express, Enterprise) Quick Sync 2 wireless module optional
Bezel	Optional LCD Bezel or Security bezel
OpenManage™ Software	OpenManage Enterprise OpenManage Mobile OpenManage Essentials OpenManage Power Center
Integrations and connections	Integrations: Microsoft® System Center, VMware® vCenter™, BMC Software HP Operations Manager, IBM Tivoli Netcool/OMNIbus, IBM Tivoli® Network Manager, CA Network and Systems Management Connections: Nagios & Nagios XI, Oracle Enterprise Manager,
Security	TPM 1.2/2.0 optional System Lockdown Cryptographically signed firmware Secure erase Secure Boot
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 Rear ports: VGA, Serial, 2 x USB 3.0, dedicated iDRAC network port Video card: VGA Riser options with p to 8 PCIe Gen 3 slots, maximum of 4 x 16 slots
Accelerator options	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 See Dell.com/GPU for latest information. *Some configurations support up to 2 GPUs with NVMes.*
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.

Learn more at Dell.com/PowerEdge

End-to-end technology solutions
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