



# DELL EMC 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.

### 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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- No compromise design with support for up to 24 high performance NVMe drives and up to 6 GPUs

# PowerEdge R740xd

| Features                     | Technical Specification                                                                                                                                                                                                                                                                                                        |                                                                                                                                         |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Processor                    | Up to two Intel® Xeon® SP, up to 28 cores per processor                                                                                                                                                                                                                                                                        |                                                                                                                                         |
| Memory                       | 24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2666MT/s, 3TB max<br>Up to 12 NVDIMM, 192 GB Max<br>Supports registered ECC DDR4 DIMMs only                                                                                                                                                                           |                                                                                                                                         |
| Storage controllers          | Internal controllers: PERC H730p, H740p, HBA330, Software RAID (SWRAID) S140<br>External PERC (RAID): H840<br>External HBAs (non-RAID): 12 Gbps SAS HBA<br>Boot Optimized Storage Subsystem: HWRAID 2 x M.2 SSDs 120GB or 240 GB                                                                                               |                                                                                                                                         |
| 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 120TB<br>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 40TB<br>Rear bays: Up to 4 x 2.5", max 25TB SAS/SATA (HDD/SSD), NVMe SSD or up to 2 x 3.5" max 20TB SAS/SATA HDD |                                                                                                                                         |
| Power supplies               | Titanium 750W, Platinum 495W, 750W, 1100W, 1600W, and 2000W                                                                                                                                                                                                                                                                    | 48VDC 1100W, 380HVDC 1100W, 240HVDC 750W<br>Hot plug power supplies with full redundancy<br>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<br>iDRAC9 with Lifecycle Controller (Express, Enterprise)<br>Quick Sync 2 wireless module optional                                                                                                                                                                                                          |                                                                                                                                         |
| Bezel                        | Optional LCD Bezel or Security bezel                                                                                                                                                                                                                                                                                           |                                                                                                                                         |
| OpenManage™ Software         | OpenManage Enterprise<br>OpenManage Essentials                                                                                                                                                                                                                                                                                 | OpenManage Mobile<br>OpenManage Power Center                                                                                            |
| Integrations and connections | Integrations: Microsoft® System Center, VMware® vCenter™, BMC Software<br><br>Connections: Nagios & Nagios XI, Oracle Enterprise Manager,                                                                                                                                                                                      | HP Operations Manager,<br>IBM Tivoli Netcool/OMNIBus,<br>IBM Tivoli® Network Manager,<br>CA Network and Systems Management              |
| Security                     | TPM 1.2/2.0 optional<br>Cryptographically signed firmware<br>Secure Boot                                                                                                                                                                                                                                                       | System Lockdown<br>Secure erase                                                                                                         |
| I/O & Ports                  | Network daughter card options<br>4 x 1GE or 2 x 10GE + 2 x 1GE or 4 x 10GE or 2 x 25GE<br>Front ports: VGA, 2 x USB 2.0, dedicated iDRAC Direct Micro-USB<br>Rear ports: VGA, Serial, 2 x USB 3.0, dedicated iDRAC network port<br>Video card: VGA<br>Riser options with p to 8 PCIe Gen 3 slots, maximum of 4 x 16 slots      |                                                                                                                                         |
| GPU options                  | GPU options available only on 24 x 2.5" drive chassis<br>Nvidia Tesla P100, K80, K40, Grid M60, M10, P4, Quadro P4000. AMD S7150, S7150X2                                                                                                                                                                                      | See <a href="http://Dell.com/GPU">Dell.com/GPU</a> for latest information.<br>GPU's are not supported on the NVMe chassis.              |
| Supported operating systems  | Canonical® Ubuntu® LTS<br>Citrix® XenServer®<br>Microsoft Windows Server® with Hyper-V<br>Red Hat® Enterprise Linux<br>SUSE® Linux Enterprise Server<br>VMware® ESXi                                                                                                                                                           | For specifications and interoperability details see <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a>                          |
| 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 <a href="http://Dell.com/OEM">Dell.com/OEM</a> .                                                                                                                                        |                                                                                                                                         |
| 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](http://Dell.com/PowerEdge)

### 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](http://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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