

### Optimized for workload acceleration

The PowerEdge R740 was designed to accelerate application performance leveraging accelerator cards and storage scalability. The 2-socket, 2U platform has the optimum balance of resources to power the most demanding environments.



### Expand and optimize application performance

The scalable business architecture of the R740 can scale up to three 300W or six 150W GPUs, or up to three double-width or four single-width FPGAs. With up to 16 2.5" drives or 8 3.5" drives the R740 provides the versatility to adapt to virtually any application and provides the perfect platform for VDI deployments.

- Scale your VDI deployments with 3 double-width GPUs, supporting up to 50% more users when compared to R730.
- Free up storage space using internal M.2 SSDs optimized for boot.

Scale compute resources with 2<sup>nd</sup> Generation Intel® Xeon® Scalable processors and tailor performance based on your unique workload requirements.

### Automate systems management with 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 R740 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 lifecycle. The R740 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.
- Protect your server from malicious malware with iDRAC9 Server Lockdown mode (requires Enterprise or Datacenter license)
- Wipe all data from storage media including hard drives, SSDs and system memory quickly and securely with System Erase.

### PowerEdge R740

Persistent Memory NVDIMM-N can increase database performance by 10x

# PowerEdge R740

| Features                     | Technical Specification                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                 |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor                    | Up to two 2 <sup>nd</sup> Generation Intel® Xeon® Scalable processors, up to 28 cores per processor                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                 |
| Memory                       | 24 DDR4 DIMM slots, Supports RDIMM /LRDIMM, speeds up to 2933MT/s, 3TB max<br>Up to 12 NVDIMM, 192 GB Max<br>Up to 12 Intel® Optane™ DC persistent memory PMem, 6.14TB max (7.68TB max with PMem + LRDIMM)<br>Supports registered ECC DDR4 DIMMs only                                                                                                                           |                                                                                                                                                                                                 |
| Storage controllers          | Internal Controllers: PERC H330, H730P, H740P, HBA330, H750, HBA350i<br>External Controllers: H840, HBA355e, 12 Gbps SAS HBA<br>Software RAID:S140                                                                                                                                                                                                                              |                                                                                                                                                                                                 |
| Internal Boot                | Boot Optimized Storage Subsystem (BOSS):HWRAID 2 x M.2 SSDs 240GB, 480GB<br>Internal Dual SD Module <sup>1</sup>                                                                                                                                                                                                                                                                |                                                                                                                                                                                                 |
| Storage                      | Front drive bays: Up to 16 x 2.5" SAS/SATA (HDD/SSD) max 122.88TB or up to 8 x 3.5" SAS/SATA HDD max 128TB<br>Optional DVD-ROM, DVD+RW                                                                                                                                                                                                                                          |                                                                                                                                                                                                 |
| Power supplies               | Titanium 750W, Platinum 495W, 750W, 750W 240VDC, <sup>2</sup> 1100W, 1100W 380VDC <sup>2</sup><br>1600W, 2000W and 2400W, Gold 1100W -48VDC                                                                                                                                                                                                                                     | Hot plug power supplies with full redundancy<br>Up to 6 hot plugs fans with full redundancy                                                                                                     |
| Dimensions                   | Form factor: Rack (2U)                                                                                                                                                                                                                                                                                                                                                          | Height: 86.8mm (3.4")<br>Width <sup>3</sup> : 434.0mm (17.08")<br>Depth <sup>3</sup> : 737.5mm (29.03")<br>Weight: 28.6kg (63lbs.)                                                              |
| Embedded management          | iDRAC9, iDRAC Direct, iDRAC RESTful with Redfish, Quick Sync 2 wireless module (optional)                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                 |
| Bezel                        | Optional LCD Bezel or Security bezel                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                 |
| OpenManage™ Software         | OpenManage Enterprise                                                                                                                                                                                                                                                                                                                                                           | OpenManage Mobile<br>OpenManage Power Manager                                                                                                                                                   |
| Integrations and connections | Integrations:<br>Microsoft® System Center<br>VMware® vCenter™<br>BMC Truesight<br>Red Hat® Ansible® Modules                                                                                                                                                                                                                                                                     | Connections:<br>Nagios® Core & Nagios® XI<br>Micro Focus Operations Manager I<br>IBM Tivoli Netcool/OMNibus                                                                                     |
| Security                     | TPM 1.2/2.0, TCM 2.0 optional<br>Cryptographically signed firmware<br>Secure Boot                                                                                                                                                                                                                                                                                               | System Lockdown (requires iDRAC Enterprise or Datacenter)<br>Secure erase<br>Silicon Root of Trust                                                                                              |
| I/O & Ports                  | Network daughter card options<br>4 x 1GbE or 2 x 10GbE + 2 x 1GbE or 4 x 10GbE or 2 x 25GbE<br>Front ports: 1 x Dedicated iDRAC Direct Micro-USB, 2 x USB 2.0, 1 x USB 3.0 (optional), 1 x VGA<br>Rear ports: 1 x Dedicated iDRAC network port, 1 x Serial, 2 x USB 3.0, 1 x VGA<br>Video card: 2 x VGA<br>Riser options with up to 8 PCIe Gen 3 slots, maximum of 4 x 16 slots |                                                                                                                                                                                                 |
| Accelerator options          | Up to three 300W or six 150W GPUs, or up to three double-width or four single-width FPGAs.                                                                                                                                                                                                                                                                                      | See <a href="http://Dell.com/GPU">Dell.com/GPU</a> for latest information.                                                                                                                      |
| Supported operating systems  | Canonical® Ubuntu® Server LTS<br>Citrix® Hypervisor<br>Microsoft Windows Server® LTSC with Hyper-V<br>Oracle® Linux                                                                                                                                                                                                                                                             | Red Hat® Enterprise Linux<br>SUSE® Linux Enterprise Server<br>VMware® ESXi<br>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.<br>For more information, visit <a href="http://Dell.com/OEM">Dell.com/OEM</a> .                                                                                                                                                                                      |                                                                                                                                                                                                 |

ESXi (only OS supported)  
Only available in China and Japan  
Dimenisions do not include bezel

## 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](https://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 TM 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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