



## Dell PowerEdge R720

Setting the standard for feature flexibility in a 2-socket, 2U rack server, the Dell™ PowerEdge™ R720 is built to run complex workloads using its highly scalable memory, I/O capacity and flexible network options.

Designed to excel at running a wide range of applications and virtualization environments for both mid-size and large enterprises, the Dell PowerEdge R720 rack server is a general purpose platform with highly expandable memory (up to 768GB) and impressive I/O capabilities to match. With Intel® Xeon® E5 processors, and the ability to support dual RAID controllers, the R720 can readily handle very demanding workloads, such as data warehouses, e-commerce, Virtual Desktop Infrastructure (VDI), databases and High Performance Computing (HPC) as a data node.

### Manage data overload

Keep pace with the explosion of data in the virtual age with the flexible, powerful I/O and storage capabilities of the R720. Up to 16 internal hard drives and integrated PCIe Gen3-capable expansion slots greatly increase your capacity, while optional hot-plug, front-access PCIe SSDs (up to 4) enable performance-enhancing, in-box storage tiering. Moreover, Dell Select Network Adapters, our flexible NIC technology, let you choose the right network fabric to match your needs without using up a valuable PCIe slot.

### Accelerate the solution

Boost the performance of your HPC or VDI environment by combining the PowerEdge R720's memory density with an optional GPU accelerator (some with over 500 cores). Choose from a range of GPU options for greater assisted performance.

### Virtualize more with the R720

Maximize your data center's application capacity by expanding your virtual environment using the PowerEdge R720's large memory footprint. Choose an industry-leading hypervisor and take advantage of our system management capability to manage both physical and virtual assets. The R720 can help maximize your virtual machines' uptime with redundant failsafe hypervisors. Finally, Dell's Virtual

Integrated System™ (VIS) solution lets you enable complex virtualization environments in just a few mouse clicks.

### The PowerEdge server line

The PowerEdge family is engineered with the right combination of features and performance scalability to handle tough workloads for both large and small data center environments.

The Dell OpenManage™ systems management portfolio includes Dell Remote Access Controller (iDRAC) with Lifecycle Controller. This embedded feature helps IT Administrators manage Dell servers in physical, virtual, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent. OpenManage integrates and connects to third-party systems management solutions so you can maintain your single point of control and capitalize on your existing investment. OpenManage simplifies the lifecycle of deploying, updating, monitoring and maintaining your Dell PowerEdge servers.

## PowerEdge R720

- Up to 24 DIMMs
- PCIe Gen3-enabled expansion slots
- Choice of NIC technologies
- Optional hot-plug, front-access PCIe SSDs
- Optional internal GPU accelerators

| Feature                               | PowerEdge R720 technical specification  |
|---------------------------------------|---|
| Form factor                           | 2U rack   |
| Processors                            | Intel® Xeon® processor E5-2600 product family   |
| Processor sockets                     | 2   |
| Internal interconnect                 | 2 x Intel QuickPath Interconnect (QPI) links; 6.4 GT/s; 7.2 GT/s; 8.0 GT/s  |
| Cache                                 | 2.5MB per core; core options: 2, 4, 6, 8  |
| Chipset                               | Intel C600  |
| Memory <sup>1</sup>                   | Up to 768GB (24 DIMM Slots): 2GB/4GB/8GB/16GB/32GB DDR3 up to 1600MHz   |
| I/O slots                             | <b>7 PCIe slots:</b> <ul style="list-style-type: none"> <li>One x16 full-length, full-height</li> <li>Three x8 full-length, full-height</li> <li>Three x8 half-length, half-height</li> </ul>   |
| RAID controller                       | <b>Internal controllers:</b><br>PERC S110 (SW RAID)<br>PERC H310<br>PERC H710<br>PERC H710P<br><b>External HBAs (RAID):</b><br>PERC H810<br><b>External HBAs (non-RAID):</b><br>6Gbps SAS HBA   |
| Drive bays                            | Up to eight 3.5" drives or up to sixteen 2.5" drives  |
| Maximum internal storage <sup>1</sup> | 24TB  |
| Hard drives                           | <b>Hot-plug hard drive options:</b><br>2.5" PCIe SSD, SAS SSD, SATA SSD, SAS (15K, 10K), nearline SAS (7.2K), SATA (7.2K)<br>3.5" SAS (15K), nearline SAS (7.2K), SATA (7.2K)<br>Self-Encrypting Drives available   |
| Embedded NIC                          | Broadcom® Quad Port 1GbE BASE-T (no TOE or iSCSI offload)<br>Intel Quad Port 1GbE BASE-T (no TOE or iSCSI offload)<br>Intel Dual Port 10GbE BASE-T with 2 x 1GbE (FCoE capability enabled on the 10GbE ports)<br>Broadcom Dual Port 10GbE SFP+ with 2 x 1GbE (TOE and iSCSI offload available on 10GbE ports)   |
| Power supply                          | Platinum efficiency 495W, 750W or Platinum+ efficiency 1100W power supplies<br>Auto-ranging power supplies  |
| Availability                          | High-efficiency, hot-plug, redundant power supplies; hot-plug drive bays; TPM; dual internal SD support; hot-plug redundant fan; optional bezel; luggage-tag; ECC memory, interactive LCD screen; extended thermal support; ENERGY STAR® compliant, extended power range; switch agnostic partitioning (SWAP)   |
| Remote management                     | iDRAC7 with Lifecycle Controller<br>iDRAC7 Express (default), iDRAC7 Enterprise (upgrade option)<br>8GB vFlash media (upgrade option), 16GB vFlash media (upgrade optional)   |
| Systems management                    | IPMI 2.0 compliant<br>Dell OpenManage™ Essentials and Dell Management Console<br>Dell OpenManage Power Center<br>Dell OpenManage Connections: <ul style="list-style-type: none"> <li>Dell OpenManage Integration Suite for Microsoft® System Center</li> <li>Dell plug-in for VMware® vCenter™</li> <li>HP Operations Manager, IBM Tivoli® Netcool®, and CA Network and Systems Management</li> </ul>   |
| Rack support                          | ReadyRails™ sliding rails with optional cable management arm for 4-post racks (optional adapter brackets required for threaded hole racks)  |
| Operating systems                     | Microsoft® Windows Server® 2008 R2 SP1, x64 (includes Hyper-V™ v2)<br>Microsoft Windows® Small Business Server 2011<br>SUSE® Linux® Enterprise Server<br>Red Hat® Enterprise Linux<br><b>Optional embedded hypervisors:</b><br>Citrix® XenServer™<br>VMware vSphere™<br>For more information on the specific versions and additions, visit <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a> . |

<sup>1</sup> 1 GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

## Global services and support

Dell Services can help reduce IT complexity, lower costs, and eliminate inefficiencies by making IT and business solutions work harder for you. The Dell Services team takes a holistic view of your needs and designs solutions for your environment and business objectives while leveraging proven delivery methods, local talent, and in-depth domain knowledge for the lowest total cost of ownership.

## 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](http://Dell.com/OEM).

Learn more at [Dell.com/PowerEdge](http://Dell.com/PowerEdge)

© 2012 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge, PowerEdge, ReadyRails, and OpenManage are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to any products herein. The content provided is as is and without express or implied warranties of any kind.

