PowerEdge R720

Setting the standard for feature flexibility in a two-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 midsized and large enterprises, the PowerEdge R720 rack server is a general purpose platform with highly expandable memory (up to 768GB) and impressive I/O capabilities to match. With the Intel® Xeon® processor E5-2600 or E5-2600 v2 product families and the ability to support dual RAID controllers, the R720 can readily handle the demands of 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 PCI Express® (PCIe) 3.0-capable expansion slots greatly increase your capacity, while optional hot-plug, front-access PCIe SSDs (up to four) 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 more than 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.

Enterprise-wide systems management

PowerEdge embedded management technology, Integrated Dell Remote Access Controller 7 (iDRAC7) with Lifecycle Controller, helps IT administrators manage Dell servers in physical, virtual, local and remote environments — agent-free or with a systems management software agent installed. **iDRAC7 Enterprise** features include a multi-administrator virtual console, virtual media and remote file share that enable IT admins to operate servers "as if they were there," ensuring secure access to servers from anywhere in the world.

OpenManage™ Essentials, a comprehensive monitoring and management console available as a no-charge software download, simplifies and automates basic hardware management tasks while Dell SupportAssist helps you maintain a healthy and productive environment.

PowerEdge R720

- Up to 24 DIMMs
- PCIe 3.0-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 or E5-2600 v2 product families
Processor sockets	2
Internal interconnect	2 x Intel QuickPath Interconnect (QPI) links; 6.4GT/s; 7.2GT/s; 8.0GT/s
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12
Chipset	Intel C602
Memory[1]	Up to 768GB (24 DIMM slots): 2GB/4GB/8GB/16GB/32GB DDR3 up to 1866MT/s
I/O slots	**6 PCIe slots:** • 1 x16 full-length, full-height • 3 x8 full-length, full-height • 3 x8 half-length, half-height • 1 x16 full-length, full-height (optional)
RAID controller	**Internal controllers:** PERC S110 (SW RAID) PERC H310 PERC H710 PERC H710P **External HBAs (RAID):** PERC H810 **External HBAs (non-RAID):** 6Gbps SAS HBA LSI 9207-8i HBA
Drive bays	Up to eight 3.5" drives or up to sixteen 2.5" drives
Maximum internal storage[1]	32TB
Hard drives	**Hot-plug hard drive options:** 2.5" PCIe SSD, SAS SSD, SATA SSD, SAS (15K, 10K), nearline SAS (7.2K), SATA (7.2K), SAS 512n (15K) 3.5" SAS (15K), nearline SAS (7.2K), SATA (7.2K); Self-encrypting drives available
Embedded NIC	Broadcom® 5720 quad-port 1GbE Base-T (no TOE or iSCSI offload) Broadcom 57800S dual-port 10GbE Base-T with 2 x 1GbE (TOE and iSCSI offload available on 10GbE ports) Broadcom 57800S dual-port 10GbE SFP+ with 2 x 1GbE (TOE and iSCSI offload available on 10GbE ports) Broadcom 57840S quad-port 10GbE SFP+ Rack NDC (NPAR1.0, SRIOV, DCB, iSCSI and FCoE offloads and CEM) Intel I350 quad-port 1GbE Base-T (no TOE or iSCSI offload) Intel X540 dual-port 10GbE Base-T with 2 x 1GbE (FCoE capability enabled on the 10GbE ports)
Power supplies	Titanium efficiency, hot-plug redundant 750W AC power supply (200-240VAC only); auto-ranging Platinum efficiency, hot-plug redundant 495W, 750W or 1100W AC power supply; 1100W DC power supply (-48VDC)
Availability	High-efficiency, hot-plug, redundant power supplies; hot-plug drive bays; TPM; dual internal SD support; hot-plug, redundant fan; optional bezel; information tag; ECC memory, interactive LCD screen; extended thermal support; ENERGY STAR® compliant; switch independent partitioning
Remote management	iDRAC7 with Lifecycle Controller Express (default), iDRAC7 Enterprise (upgrade option) 8GB vFlash media (upgrade option), 16GB vFlash media (upgrade optional)
Systems management	IPMI 2.0 compliant Dell OpenManage Essentials Dell OpenManage Mobile Dell OpenManage Power Center Dell OpenManage Integrations: • Dell OpenManage Integration Suite for Microsoft® System Center • Dell OpenManage Integration for VMware® vCenter™ Dell OpenManage Connections: • HP Operations Manager, IBM Tivoli® Netcool®, and CA Network and Systems Management • Dell OpenManage Plug-in for Oracle Database Manager
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm. ReadyRails static rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded and 2-post (Telco) racks.
Operating systems	Microsoft® Windows Server® 2012 R2 (includes Hyper-V®) Microsoft Windows Server 2012 (includes Hyper-V) Microsoft Windows Server 2008 R2 SP1, x64 (includes Hyper-V) Microsoft Windows Small Business Server 2011 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux® **Virtualization options:** Citrix® XenServer® VMware vSphere® ESXi™ Red Hat Enterprise Virtualization® For more information on the specific versions and additions, visit Dell.com/OSsupport.

Global services and support

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