POWEREDGE R730

A highly versatile, two-socket 2U rack server with impressive processor performance, a large memory footprint, extensive I/O options and a choice of dense, high performance storage or low-cost, high-capacity storage.

The PowerEdge R730 excels at a wide range of demanding workloads for midsize and large enterprises, such as data warehouses, e-commerce, virtual desktop infrastructure (VDI), databases and high-performance computing HPC) as a data node. When configured with 3.5" drives, the R730 provides up to 64TB of rapidly accessed storage for databases, business intelligence and HPC applications.

Deliver peak performance

Drive peak compute performance across a variety of workloads with the Intel® Xeon® processor E5-2600 v4 product family and state-of-the-art DDR4 memory. Boost data access for applications with up to 16 x 12Gbps SAS drives and high-performance dual RAID. Take advantage of advanced accelerators and GPUs to maximize performance in HPC, VDI and imaging environments.

Discover greater versatility

With 24 DIMMs of high-capacity, low-power DDR4 memory, seven PCI Express® (PCIe) 3.0 expansion slots and highly scalable local storage, the R730 is extremely flexible. Create a dense, resource-rich virtualization environment with up to 16 x 2.5" drives. Combine that with the R730's GPU capability to save infrastructure costs and consolidate management operations in a scalable and centralized virtual desktop environment. The GPU option also makes the R730 an excellent choice as a midrange medical imaging solution.

Maximize operational efficiency

PowerEdge servers let you construct and manage highly efficient infrastructures for data centers and small businesses. Accelerate time-to-production with automated deployment processes that use fewer manual steps and reduce the potential for error. Improve IT productivity with innovative at-the-server management tools like iDRAC Direct and iDRAC Quick Sync to deliver in-depth system health status and speed deployment, Optimize data center energy usage with improved performance-per-watt and more granular control of power and cooling.

Innovative management with intelligent automation

The Dell OpenManage systems management portfolio includes innovative solutions that simplify and automate essential server lifecycle management tasks — making IT operations more efficient and Dell EMC servers the most productive, reliable and cost effective. Leveraging the incomparable agent-free capabilities of the PowerEdge embedded integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller technology, server deployment, configuration and updates are streamlined across the OpenManage portfolio and through integration with third-party management solutions.

Monitoring and control of Dell EMC and third-party data center hardware is provided by OpenManage Essentials and with anytime, anywhere mobile access, through OpenManage Mobile. OpenManage Essentials now also delivers Server Configuration Management capabilities that automate one:many PowerEdge bare-metal server and OS deployments, quick and consistent replication of configurations and ensure compliance to a predefined baseline with automated drift detection.

PowerEdge R730

- Latest Intel Xeon processor E5-2600 v4 product family with up to 22 cores
- Up to 24 DIMMs of high-capacity DDR4 memory
- Up to 7 PCIe 3.0 expansion slots
- Up to 2 internal GPU accelerators

Feature	PowerEdge R730 technical specification
Form factor	2U rack
Dimensions	H: 8.73 cm (3.44 in), W: 44.40 cm (17.49 in), D: 68.40 cm (26.92 in)
Processor	Intel® Xeon® processor E5-2600 v4 product family
Processor sockets	2
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12, 14, 16, 18, 22
Chipset	Intel C610 series chipset
Memory[1]	Up to 3TB (24 DIMM slots): 4GB/8GB/16GB/32GB/64GB/128GB DDR4 up to 2400MT/s
I/O slots	Up to 7 x PCIe 3.0 plus dedicated PERC slot
RAID controllers	**Internal controllers:** PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P **External HBAs (RAID):** PERC H830 **External HBAs (non-RAID):** 12Gbps SAS HBA
Drive bays	Internal hard drive bay and hot-plug backplane: Up to 16 x 2.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA Up to 8 x 3.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA
Maximum internal storage[1]	HDD: SAS, SATA, nearline SAS SSD: SAS, SATA 16 x 2.5" – up to 29TB via 1.8TB hot-plug SAS hard drives 8 x 3.5" – up to 64TB via 8TB hot-plug NL SAS hard drives
Embedded NIC	4 x 1GbE, 2 x 10+2GbE, 4 x 10GbE NDC
Power supplies	Titanium efficiency 750W AC power supply; 1100W DC power supply; Platinum efficiency 495W, 750W, 1100W AC power supply;
Availability	ECC memory, hot-plug hard drives, hot-plug redundant cooling, hot-plug redundant power, internal dual SD module, single device data correction (SDDC), spare rank, tool-less chassis, support for high availability clustering and virtualization, proactive systems management alerts, iDRAC8 with Lifecycle Controller
Remote management	iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade) 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)
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.	
Operating systems	Microsoft Windows Server® 2008/2012 SP2, x86/x64 (x64 includes Hyper-V®) Microsoft Windows Server 2008/2012 R2, x64 (includes Hyper-V) Microsoft Windows HPC Server 2008 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux	Optional embedded hypervisors: Citrix® XenServer® VMware vSphere® ESXi™ Microsoft Windows Server 2012, includes Hyper-V For more information on the specific versions and additions, visit 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.	

[1] GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

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.

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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