



PowerEdge R730xd

An exceptionally flexible and scalable, two-socket 2U rack server that delivers high-performance processing and a broad range of workload-optimized local storage possibilities, including hybrid tiering.

Designed with an incredible range of configurability, the PowerEdge R730xd meets the needs of many different workloads with the latest Intel® Xeon® processor E5-2600 v4 product family, 24 DIMMs of high-performance DDR4 memory and a broad range of local storage options.

Drive peak performance

Accelerate application performance with the latest technologies and dynamic local storage. Scale quickly and easily with front-accessible devices, ranging from low-cost SATA hard drives to 1.8" ultra-fast, low-latency PowerEdge Express Flash NVMe PCIe SSDs. Use hybrid storage configurations to tailor the R730xd to your workload needs and implement tiered-storage efficiencies. Combine 24-drive capacity with dual- PERC capability to drive storage performance and take advantage of new Dell caching technologies to boost application performance even more.

Discover greater versatility

Unlike previous PowerEdge servers, the R730xd can be tailored for application performance by mixing high-speed 1.8" SSDs and low-cost, high-capacity 3.5" hard drives in a single hybrid chassis, enabling accelerated data access through in-server storage tiering.

- In its 24-drive, dual-PERC configuration, the R730xd can be an excellent database server delivering more than one million IOPS performance.
- Combine 26 drives with 24 DIMMs of memory and six PCI Express® (PCIe) expansion slots to provide a resource-rich virtualization environment.
- With up to four ultra-fast, ultra-low latency Express Flash NVMe PCIe SSDs, the R730xd can boost performance on critical workloads and share the cache with other server.
- In its low-cost 16 x 3.5" drive configuration with up to 128TB capacity, the R730xd is an excellent Microsoft® SharePoint® and Exchange® server for unified communications and collaboration (UC&C) and delivers the scale-out storage efficiency demanded by today's XaaS providers, Hadoop/big data users and co-location hosting.

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 human error. Improve IT productivity in the data center with

innovative at-the-server management tools, like iDRAC Quick Sync and iDRAC Direct 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 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 and third-party data center hardware is provided by OpenManage Essentials and with anytime, anywhere mobile access, through OpenManage Mobile. OpenManage Essentials also delivers Server Configuration Management capabilities that automate one-to-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 R730xd

- Latest Intel Xeon E5-2600 v4 processors — up to 22 cores
- Up to 24 DIMMs DDR4 memory
- 6 distinct storage configurations
- Up to 6 PCIe 3.0 expansion slots
- Supports up to 4 Express Flash NVMe PCIe SSDs

| Feature | PowerEdge R730xd technical specification |
|---------------------------------------|---|
| Form factor | 2U rack |
| Processor | Intel® Xeon® processor E5-2600 v4 product family |
| Processor sockets | 2 |
| Dimensions | H: 8.73 cm (3.44 in.) x W: 44.40 cm (17.49 in.) x D: 68.40 cm (26.92 in.) |
| 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 1.5TB (24 DIMM slots): 4GB/8GB/16GB/32GB/64GB DDR4 up to 2400MT/s |
| I/O slots | Up to 6 x PCIe 3.0 slots plus dedicated RAID card slot |
| RAID controllers | Internal controllers: 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 3.5" SAS, SATA, nearline SAS, SSD + 2 x 2.5" drives Up to 18 x 1.8" SAS, SATA, nearline SAS, SSD drives + 8 x 3.5" SAS, SATA, nearline SAS, SSD drives, + 2 x 2.5" HDD Up to 26 x 2.5" SAS, SATA, nearline SAS, SSD, PCIe SSD drives |
| Maximum internal storage ¹ | SAS, SATA, nearline SAS, SSD, PCIe SSD: Up to 81TB with 18 x 1.8" 960GB SATA SSD = 8 x 3.5" SATA/nearline SAS HDD Up to 46.8TB with 24 x 2.5" 1.8TB hot-plug SAS HDD + 2 x 2.5" 1.8TB hot-plug SAS HDD Up to 131.6TB with 12 x 3.5 8TB nearline SAS HDD = 4 x 3.5 8TB nearline SAS + 2 x 2.5 1.8TB SAS HDD or SSD |
| Embedded NIC | 4 x 1GbE, 2x10+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: <ul style="list-style-type: none"> Dell OpenManage Integration Suite for Microsoft® System Center Dell OpenManage Integration for VMware® vCenter™ Dell OpenManage Connections: <ul style="list-style-type: none"> 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 Microsoft Windows Server 2008/2012 R2, x64 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux Optional embedded hypervisors: Citrix® XenServer® VMware vSphere® ESXi™ 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 . |
| 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. Availability and terms of Dell Services vary by region. For more information, visit Dell.com/ServiceDescriptions . |

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.

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 for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and 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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