PowerEdge R430

Powerful, two-socket entry rack server delivers outstanding performance, configuration flexibility, high availability and intuitive management in a short-height (1U), short-depth (24-inch) chassis.

Designed for rack environments requiring peak two-socket performance, sizeable internal storage capacity and short chassis depth to overcome space constraints, the PowerEdge R430 rack server is an excellent fit for high-performance computing (HPC), web tech and infrastructure scale-out. The R430 also serves well for collaboration and productivity applications, surveillance and site security, and is likewise attractive as a dedicated backup or development server.

Deliver peak performance

Drive powerful performance across a wide range of workloads with the latest Intel® Xeon® processor E5-2600 v3 product family. Accelerate performance and grow memory capacity throughput with 12 DIMM slots and DDR4 memory. Boost I/O performance with up to 10 high-IOPS hard drives and two PCIe 3.0 I/O slots, driving 2x data throughput compared to previous generations.

Maximize operational efficiency

Accelerate time to production and drive better ROI by automating deployment with integrated Dell Remote Access Controller 8 (iDRAC8) with Lifecycle Controller. Save time and free-up IT administrator energies with intuitive, automatable tools for monitoring and update. Control energy budgets with energy-efficient processors, memory, power supplies and Fresh Air 2.0 compliance.

Discover greater versatility

Deploy powerful performance into space-constrained environments with short-height (1U), short-depth (24-inch) chassis. Harness data explosion with scalable internal storage capacity — up to 10 x 2.5" hard drives. Adapt flexibly to changing workload conditions with an expandable platform ready for virtualization and high-availability clustering.

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 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 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 R430

- Short-height, short-depth chassis
- Latest Intel Xeon E5-2600 v3 processors
- Up to 12 x DDR4 DIMMs
- 2 x PCIe 3.0 I/O slots
- Up to 10 x 2.5" HDDs

Feature	PowerEdge R430 technical specification	
Form factor	1U rack server	
Processor	Intel® Xeon® processor E5-2600 v3 product family **Processor sockets**: 2 **Chipset**: C610 **Internal** interconnect: Up to 9.6GT/s **Cache**: 2.5MB per core; core options: 6, 8, 10, 12, 16	
Memory	DDR4 DIMMs at up to 2133MT/s 12 DIMM slots: 2GB/4GB/8GB/16GB/32GB	
I/O slots	2 PCIe 3.0	
Storage	SAS, SATA, nearline SAS, SSD Multiple R430 chassis available: • 10 x 2.5" hot-plug drives • 8 x 2.5" hot-plug drives • 4 x 3.5" hot-plug drives • 4 x 3.5" cabled drives	
RAID controllers	**Internal controllers**: PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P **External HBAs** (RAID): PERC H830	
Communications	4 x 1GbE LOM Add-in network interface cards (NICs) and host bus adapters (HBAs)	
Power supplies	450W, 550W PSU	
Systems management	**Systems management:** IPMI 2.0 compliant; Dell OpenManage Essentials; Dell OpenManage Mobile; Dell OpenManage Power Center **Remote management** iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade) 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)	**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
Optional supported hypervisors	Citrix® XenServer, VMware vSphere ESXi™. Red Hat Enterprise Virtualization®	
Operating systems	Microsoft Windows Server® 2008/2012 SP2, x86/x64 (x64 includes Hyper-V®) Microsoft Windows Server 2008/2012 R2, x64 (includes Hyper-V) Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux VMware vSphere For more information on the specific versions and additions, visit Dell.com/OSsupport.	
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.	
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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