

DELL™ POWEREDGE™ 2970 SERVER



The Dell PowerEdge 2970 server features technology that optimizes the balance between performance, energy efficiency, and value.

THE POWEREDGE EDGE

Through Dell's commitment to industry-standard technology, innovative hardware design and continued focus on minimizing system updates, PowerEdge servers help reduce the complexity involved in managing data, whether you are a large enterprise or a small business. These servers are designed to a Dell-developed PowerEdge Behavioral Specification that defines consistent hardware layout and user interaction across all server models in this and future PowerEdge generations. Featuring the latest technologies, such as AMD Opteron™ processors, PowerEdge servers offer the power and performance you expect from Dell.

DELL POWEREDGE 2970, A COMPELLING CHOICE FOR VIRTUALIZATION

Virtualization helps businesses reduce operational costs and energy consumption in the data center through effective scaling, improved utilization and simplified operations. Dell delivers fully tested, integrated solutions including the right hardware, software and services to help businesses take full advantage of the benefits of virtualizing their IT environments. The PowerEdge 2970, combined with Dell's leadership with key industry partners such as VMware and Microsoft, offers a compelling choice for businesses looking to capitalize on virtualization.

LOWER ENERGY CONSUMPTION AND REDUCED OPERATING COSTS

PowerEdge servers optimize system resources to lower total energy consumption and reduce operating costs without sacrificing performance levels required to run mainstream enterprise applications. The PowerEdge 2970 features Dell's unique low power design and runs on AMD Opteron™ processors featuring PowerNow® technology to optimize processor power utilization based on workload, ultimately helping to save money by saving energy.

INCREASED MANAGEABILITY TO SIMPLIFY OPERATIONS

Dell offers businesses the most manageable systems in the industry by providing two paths to management: Dell developed tools and partner integrations. At the center of our management capabilities, the Dell™ OpenManage™ suite of hardware management applications provides comprehensive deployment, monitoring, and change management functionality. For businesses seeking a broader solution, Dell has partnered with leading systems management vendors—such as Altiris, Novell, Microsoft, and LANDesk—to provide deployment and change management of your entire IT environment. For large enterprise frameworks—such as CA, HP, or IBM—we offer connections that allow Dell systems to be managed with those tools.



DELL IT INFRASTRUCTURE SERVICES

Dell brings pure execution to IT Services. The planning, implementation and maintenance of your IT infrastructure deserves nothing less. Variability in execution can compromise user productivity, IT resources and ultimately, your reputation. By utilizing our heritage of process-driven excellence, Dell Services can deliver a smarter way.

We focus on IT infrastructure services. And we take a customer-led approach, grounded in the philosophy that you know your business better than anyone. That's why Dell does not try to take key business decisions out of your hands, or lock you into more than you need. Instead, we apply our world-class process management and "no excuses" culture to deliver what customers today most need—flexibility and repeatable quality. That's absolute execution. That's Dell.

Infrastructure Consulting Services

IT departments are continually challenged to evaluate and implement new technologies. Dell's Infrastructure Consulting experts can restructure your IT environment to enhance performance, scalability and efficiency while helping to maximize your return on investment and minimize disruption to your business.

Deployment Services

System deployment is a necessary evil that plagues nearly every organization. With Dell's deployment services, we help simplify and speed up the deployment and utilization of new systems to maximize uptime throughout your IT environment. Our comprehensive suite of services include: asset discovery, application packaging, image development, custom integration, custom delivery, and installation.

Asset Recovery and Recycling Services

Proper disposal, reselling and donation of computer equipment is a time-consuming task that typically falls to the bottom of many IT to-do lists. Dell can simplify the end of life processes for IT equipment in a way that can maximize value for customers via Disposal, Donation, Value Recovery and Lease Return.

Training Services

Arm your employees with the knowledge and skills they need to be as productive as possible. Dell offers comprehensive training services which include hardware and software training, as well as PC skills and professional development classes. With Dell training you can help improve system reliability, maximize productivity and reduce end-user requests and downtime.

Enterprise Support Services

With Dell, you can get maximum performance and availability of your Dell server and storage systems. Our Enterprise Support services offer proactive maintenance to help prevent problems as well as rapid response and resolution of problems when they do occur. We have built a robust global infrastructure that offers multiple levels of enterprise support for systems throughout your infrastructure.

To help you get the most from your Dell systems, visit www.dell.com/services.

Services vary by region.

FEATURES	Dell™ PowerEdge™ 2970 Server
Form Factor	2U rack height
Processors	Up to two dual-core or quad-core AMD Opteron™ 2200 or 2300 series processors
HyperTransport™	1GHz AMD HyperTransport™ Technology
Cache	2x1 MB (dual-core) or 4x500KB (quad-core) L2 Cache per processor
Chipset	Broadcom HT-2100 and HT-1000 server I/O controllers
Memory	Up to 64GB (8 DIMM slots): 512MB/1GB/2GB/4GB/8GB ECC DDR2 667MHz SDRAM
I/O Slots	Three PCIe slots, (one x4 with x8 connector and two x8)
Drive Controller	4 port SAS 5/i integrated SAS/SATA II controller (no RAID) SAS 5/e adapter (no RAID)
RAID Controller	Optional PERC 5/i integrated SAS/SATA II daughtercard controller with 256MB cache, PERC 5/e adapter
Drive Bays	8 x 2.5" Hard Drive Option or 6 x 3.5" Hard Drive Option; Peripheral bay options; Floppy Drive, PowerVault 100T Tape Drive; Slim optical drive bay with choice of CD-ROM, DVD-ROM or Combo CD-RW/DVD-ROM
Maximum Internal Storage	Up to 4.4TB (eight 750GB SATA)
Hard Drives¹	2.5" SAS (10K RPM): 36GB, 73GB, 146GB; 2.5" SAS (15K RPM) 36GB, 73GB 2.5" SATA II (5.4K RPM): 80GB 3.5" SATA (7.2K): 160GB, 250GB, 500GB, 750GB 3.5" SAS (10K): 146GB, 300GB, 400GB 3.5" SAS (15K): 73GB, 146GB, 300GB
External Storage	SAS, SCSI and fibre channel storage systems
Tape Backup Options	Internal: PowerVault™ 100T (DAT 72), RD1000 External: PowerVault™ 100T, 110T, 114T, 122T, 124T, 132T, 136T, 160T and ML6000
Network Interfaces	Dual embedded Broadcom® NetXtreme II™ 5708 Gigabit Ethernet NIC with failover and load balancing. TOE (TCP/IP Offload Engine) supported on Microsoft Windows Server 2003, SP1 or higher with Scalable Networking Pack
Power Supply	Standard 750 Watt hot-plug AC power supply; Optional redundant 750 watt AC hot-plug power supply; Auto-switching universal 110/220 Volts
Availability	ECC DDR2 SDRAM, SDDC, Spare Bank; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; optional PERC5/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SAS cluster support; validated for Dell/EMC SAN
Video	Embedded ATI ES1000 with 16MB memory
Remote Management	Standard Baseboard Management Controller with IPMI 2.0 support; optional DRAC5 for advanced capabilities
Systems Management	Dell™ OpenManage™
Rack Support	4-post (Dell rack), 3rd party Versa rails, sliding rails and Cable Management Arm
Operating Systems	Microsoft® Windows® Server 2003 R2, Standard and Enterprise Edition, x64, Standard and Enterprise Edition; Red Hat® Linux® Enterprise v4, WS, AS, ES and ES x86-64; Red Hat® Linux® Enterprise v5; SUSE Linux Enterprise Server 10 x86-64

¹For hard drives, GB means 1 billion bytes, actual capacity varies with preloaded material and operating environment and will be less.

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