

DELL™ POWEREDGE™ 2970 SERVER



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

VERSATILITY & PERFORMANCE

The PowerEdge 2970 is a general-purpose 2-socket/2U server targeted to meet the needs of a broad array of customers ranging from small and medium businesses to large enterprise customers. The server easily supports network infrastructure applications such as file/print and web infrastructures as well as small databases and virtualized servers. The small form factor enables customers to balance the size of the server with robust performance and high availability feature options. Key features on the PowerEdge 2970 include the latest AMD Opteron processors, hot-plug redundant power and cooling, embedded RAID, optional advanced remote management, dual Gigabit NICs, up to eight hot-plug 2.5" SAS/SATA hard drives, eight memory DIMM slots, and three PCIe slots.



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.

ABOUT DELL GLOBAL SERVICES

Dell Global Services simplify the management of your IT environment so you get up and running quickly, with lower deployment costs, fewer hassles, and less time spent on non-strategic tasks. You pay only for the services you need, gain instant access to the latest innovations without additional infrastructure investment, and take your business from maintenance to momentum.

Many IT services today are outdated, expensive, inflexible and people-intensive. As a result, businesses can be burdened with lengthy contracts, trapped in old technology and spending much more than is necessary just to keep the lights on. Dell is changing all of that by integrating cutting edge technologies into our products and global service infrastructure to forever change the way services are delivered, purchased and managed. Tapping directly into Dell's world-class capabilities, resources and platform in this way will make it easier to reclaim valuable IT time and resources.

Many of the service investments Dell has made are available through or in conjunction with Dell's global network of PartnerDirect channel partners. For more information please visit www.dell.com/services or contact your local Dell PartnerDirect Registered partner:

FEATURES	DELL™ POWEREDGE™ 2970 SERVER
Form Factor	2U rack height
Processors	Up to Six-Core AMD Opteron™ 2400 series processors
Processor Sockets	2
Front Side Bus or HyperTransport	HT1, HT3 available depending on processor selected
Cache	replace with 6x512k Dedicated L2 and up to 6MB L3 Cache
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	SAS 6/iR, PERC 5/i or PERC 6/i
RAID Controller	Optional PERC 5/i integrated SAS/SATA II daughtercard controller with 256MB cache, PERC 5/e adapter, PERC 6/i and SAS 6/iR, or PERC 6.2 Firmware
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	6TB SATA or Near Line SAS
Hard Drives¹	2.5" SAS (10K RPM): 73GB, 146GB, 300GB 2.5" SAS (15K RPM) 36GB, 73GB, 146GB 2.5" SATA II (5.4K RPM): 80GB, 160GB, 250GB 2.5" SATA II (7.2K RPM): 80GB, 120GB, 160GB, 250GB 3.5" SATA (7.2K): 80 GB,160GB, 250GB, 500GB, 750GB, 1TB 3.5" SAS (10K): 400GB, 600GB 3.5" SAS (15K): 73GB, 146GB, 300GB , 400GB 3.5" Near-Line SAS (7.2K): 500GB, 750GB, 1TB
Network Interface Cards	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; PERC 6/i; 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 Essential Business Server 2008 Microsoft Windows Server 2008, SP2 Standard Microsoft Windows Server 2008, SP2 Enterprise Microsoft Windows Server 2008, SP2 Datacenter Microsoft Windows® Server 2008, SP2 Small Business Server Standard Edition Microsoft Windows Server 2003 R2, Standard, Enterprise Microsoft Windows Server 2003 R2, x64 Standard, Enterprise Novell SUSE Linux Enterprise Server 11 Red Hat Linux Enterprise v5.3 x86-64 Red Hat Linux Enterprise v4.7, ES and ES x86-64 Sun Solaris 10
Embedded Hypervisors	Citrix® XenServer Dell Express Edition Citrix® XenServer Dell Enterprise Edition Microsoft Windows® Server 2008 HyperV VMware ESX 3.5 VMware vSphere 4.0 Classic

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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