Dell PowerEdge 2970

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 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 business 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 AMD 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.

The PowerEdge 2970 offers a compelling choice for businesses looking to capitalize on virtualization.

Feature	Technical Specification
Form Factor	2U rack
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	6x512k Dedicated L2 and up to 6MB L3 Cache
Chipset	Broadcom HT-2100 and HT-1000 server I/O controllers
Memory[1]	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)
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[1]	6TB SATA or Near Line SAS
Hard Drives[1]	2.5" 6Gbs SAS (10K): 300GB, 600GB 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
Communications	Dual embedded Broadcom® NetXtreme II™ 5708 Gigabit Ethernet NIC with failover and load balancing. TOE (TCPIP Offload Engine) supported on Microsoft® Windows Server® 2003, SP1 or higher with Scalable Networking Pack Brocade® CNA Dual-port adapter Brocade® FC4 and 8 GB HBAs Emulex® CNA iSCSI HBA stand up adapter OCE10102-IX-D Brocade® CNA BR1020
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™ Microsoft® System Center Essential (SCE) 2010 v2
Rack Support	RapidRails™/VersaRails™ sliding rail system & cable management arm
Operating Systems	Microsoft® Windows® Small Business Server 2008 Microsoft® Windows® Essential Business Server 2008 Microsoft® Windows Server® 2008 SP2, x86/x64 (x64 includes Hyper-V™) Microsoft® Windows Server® 2008 R2, x64 (includes Hyper-V™ v2) Windows® HPC Server 2008 R2 Novell® SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux® Sun® Solaris™ **Optional Embedded Hypervisors:** Citrix® XenServer™ Microsoft® Hyper-V™ via Microsoft® Windows Server® 2008 VMware® vSphere™ 4.1 (including VMware ESX® 4.1 or VMware ESXi™ 4.1) For more information on the specific versions and additions, visit www.dell.com/OSsupport.
Featured Database Application	Microsoft® SQL Server® solutions (see Dell.com/SQL)

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

Dell Services

Dell Services can help reduce IT complexity, lower costs, and eliminate inefficiencies by making IT and business solutions work harder for you. The Dell Services team takes a holistic view of your needs and designs solutions for your environment and business objectives while leveraging proven delivery methods, local talent, and in-depth domain knowledge for the lowest TCO.

Simplify your systems at Dell.com/PowerEdge