DELL POWEREDGE 1900 SERVER

Designed with next generation performance features, remote management advancements and a variety of storage options, the Dell™ PowerEdge™ 1900 server is ideal for remote/branch offices, file/print, messaging and dedicated application support.

Dell's Innovative 9th Generation PowerEdge Servers

Through innovative hardware design, software commonality and continued focus on fewer system updates, Dell's 9th generation 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 Behavioral Specification that defines consistent hardware layout and user interaction across all server models in this and future PowerEdge generations, including the PowerEdge 1900. The master system image features many of the same components as the PowerEdge 2900, utilizing updates to system drivers, firmware, operating systems and applications from one easy-to-copy template for simplified software management. Featuring the latest Intel® Xeon® processors, the 9th generation PowerEdge servers offer the power and performance you expect from Dell.

Dell PowerEdge 1900 Delivers Enterprise-Level Performance

The Dell PowerEdge 1900 server is designed to deliver exceptional performance in a tower chassis with next generation Quad-Core Intel Xeon processors, Fully Buffered Dimm memory technology and Serial Attached SCSI (SAS) or Serial ATA (SATA) hard drives. It also supports eight memory slots for 16GB of memory capacity for file/print, dedicated remote applications and branch office messaging workloads. And the TCP/IP Offload Engine functionality in the embedded Gigabit NIC helps further to improve CPU performance and utilization by moving the TCP/IP protocol processing to the NIC.

Configuration Flexibility, Growing Environments

The Dell PowerEdge 1900 server has growing enterprises in mind. Whether you need to start small and allow room for growth, or configure your server with the maximum configuration, the PowerEdge 1900 couples a sensible price, with enterprise class remote management, storage and services. The tower chassis features up to six SAS or SATA hard drives for up to 4.5TB of internal storage, several optical devices and tape products. What's more, the system features six I/O slots, and two dedicated daughtercard sockets for RAID and remote management controllers. And because Dell Remote Access Card (DRAC) and PERC 5/i integrated controller utilize dedicated daughtercard slots, all six I/O slots are available for expandability. You have the option of adding up to four dual embedded Gigabit Network Interface Cards (NICs) and two dual channel storage interface devices providing incredible growth potential.

Manageability for Reduced Complexity

The Dell PowerEdge 1900 server is equipped with a Baseboard Management Controller (BMC) that includes a complete set of tools that monitors server hardware, alerts you when server faults occur and enables basic remote operations. For environments with servers located in secure data centers or in sites with no IT staff, Dell offers an optional feature for PowerEdge servers, the Dell Remote Access Controller (DRAC). Operated through a Web-based graphic user interface, DRAC can enable remote access, monitoring, troubleshooting, repair and upgrades independent of the operating system status. Common software with the same family of PowerEdge 9th generation servers further helps simplify management. Plus, the Dell Behavioral Specification means one familiar platform for less complex deployment, management and serviceability as well as lower Total Cost of Ownership (TCO) over multiple generations of PowerEdge servers.

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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 leveraging our heritage of process driven excellence, Dell Services can deliver a smarter way.

We don't claim to do everything. 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.

Assessment, Design and Implementation Services

IT departments are continually challenged to evaluate and implement new technologies. Dell's assessment, design and implementation services 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. You must deploy new systems to help improve performance and meet user demand. 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.

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 simplifies the end of life processes for IT equipment in a way that can maximize value for customers.

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.

www.dell.com

FEATURES — DELL™ POWEREDGE™ 1900 SERVER

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Form factor	Tower only
Processors	Up to two Quad-Core Intel Xeon 5300 sequence processors at up to 2.66GHz; Up to two Dual-Core Intel Xeon 5100 sequence processors at up to 3.0GHz; Up to two Dual-Core Intel Xeon 5000 sequence processors at up to 3.0GHz
Front side bus	Intel Xeon 5300 Sequence: Dual Independent 1066MHz or 1333MHz; Intel Xeon 5100 Sequence: Dual Independent 1066MHz or 1333MHz; Intel Xeon 5000 Sequence: Dual Independent 667MHz
Cache	Intel Xeon 5300 Sequence: 2x4MB; Intel Xeon 5100 Sequence: 4MB; Intel Xeon 5000 Sequence: 2x2MB
Chipset	Intel 5000P
Memory	Up to 16GB (8 FBD DIMM slots): 256MB/512MB/1GB/2GB Fully Buffered DIMMs (FBD) in matched pairs, 533MHz or 667MHz
I/O slots	Six total: Two 64bit/133MHz PCI-X® slots on a single PCI bus; one x8 PCI Express® slot; three x4 (x8 connector) PCI Express slots
Drive controller	PERC 5/i (optional): SAS 3.0Gb/s RAID controller with Intel IOP333 processor and 256MB cache; SAS 5/iR (optional): 2 port SAS RAID controller (for RAID 0, 1); 2-port embedded SATA
RAID controller	PERC 5/i; PERC 5/e; SAS 5/iR
Drive bays	Standard internal hard drive bays support up to six 3.5" SAS or SATA cabled hard drives; Peripheral bay support for two half-height devices (tape drive plus one optional CD-ROM, optional DVD-ROM or Combo CD-RW/DVD-ROM); optional 3.5" floppy drive bay
Maximum internal storage	Up to 4.5TB: six 750GB cabled 3.5" SATA (7.2KRPM)
Hard drives[1]	3.5" SAS (10K RPM) : 73GB, 146GB or 300GB; 3.5" SATA (7.2K RPM) : 80GB, 160GB, 250GB, 500GB, 750GB
External storage	Dell PowerVault™ 22xS SCSI, PowerVault MD1000, Dell/EMC products
Tape backup options	Internal: PowerVault 100T External: PowerVault 114T, 122T, 124T, 132T, 136T, 160T and ML6000
Network interface card	Single embedded Broadcom® Gigabit[2] NIC
Modem	Optional Conexant V.92 internal modem
Power supply	800W, non-redundant power
Availability	ECC memory; Single Device Data Correction (SDDC); PERC 5/i integrated daughtercard w/ battery-backed cache; high availability failover cluster support; DRAC5; tool-less chassis; cluster support
Video	Embedded ATI ES1000 with 16MB memory
Remote management	Standard Baseboard Management Controller with IMPI 2.0 support; optional DRAC5 for advanced capabilities
Systems management	Dell OpenManage™
Rack support	Tower chassis only; no rack support
Operating systems	Microsoft® Windows® Server 2003 R2, Standard, Enterprise Edition, x64, Standard and Enterprise Edition; Microsoft Windows Server 2003 Small Business Standard, Premium Edition; Microsoft Windows Storage Server 2003 R2, Standard, Enterprise Edition; Red Hat® Linux® Enterprise v4, ES EM64T; SUSE Linux Enterprise Server 9 EM64T

[1] For hard drives, GB means 1 billion bytes, actual capacity varies with preloaded material and operating environment and will be less.
[2] This term does not connote an actual operating speed of 1GB/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.