

DELL™ POWEREDGE™ 1950 SERVER



In a 1U form factor, the Dell™ PowerEdge™ 1950 delivers the right combination of computing power and redundancy in an ultra-dense chassis. With dual-processor performance, next generation manageability and platform commonality, it is ideal for edge-of-network, infrastructure, SAN front-end, thin client-server and High Performance Computing Clusters (HPCC) applications.

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. Plus, a shared master system image with 2950 and 2900 enables updates to BIOS, 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 1950 Delivers Performance in a Space-Conscious Form Factor

The Dell PowerEdge 1950 server provides exceptional performance and availability for organisations that require high-powered processing capability in a space-constricted data center. The rack-dense 1U server features 64-bit, Quad-Core Intel Xeon processors and the latest in chipset, memory and I/O technology. The result is incredible performance and scalability to handle heavy workloads today and in the future without data center sprawl.

The Dell PowerEdge 1950 includes twice the memory capacity of 8th generation servers with up to 32GB of fully-buffered DIMM memory which allows scalability and greater performance, especially in virtualized workloads. PCI-Express™ I/O slots support high performance Ethernet, RAID, InfiniBand and Fibre Channel interconnects while helping to provide investment protection for future technologies. Finally, Serial Attach SCSI (SAS) hard drives can deliver some of the highest possible performance available with the next generation storage technology while SATA drive options offer greater value for systems that rely on internal or external storage and fiber channel storage options.

Availability to Help Maximise Uptime Without Sacrificing Density

Now you don't have to compromise space for redundancy and availability. The Dell PowerEdge 1950 server Maximises redundancy with hot-plug redundant power supplies, hot-plug hard drives accessible through the front of the server and redundant cooling. It also includes dual embedded Gigabit NICs and PCI slots on separate buses for flexible expandability. Additionally, optional integrated RAID controller with battery-backed cache offers improved reliability and system uptime.

Manageability for Reduced Complexity

The Dell PowerEdge 1950 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.



Dell PowerEdge 1950



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Enterprise Support Services Suite

Robust, flexible support for server and storage systems

In today's environment, businesses need smooth and continuous running of their advanced server and storage systems. Maximum uptime is crucial. As an IT professional, you can rely on us for your success. Dell's Enterprise Support Services can help you to:

- eliminate problems before they happen,
- prepare in advance for any elevated IT demands,
- provide the flexibility to match support to the different needs of various end users and applications environments and
- most importantly smartly balancing quality and costs for your organisation.

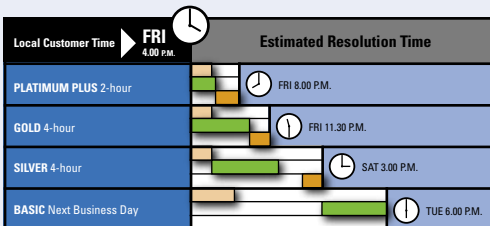
Choose the Level of Support That's Right for You

Dell offers "best-of-breed" Enterprise Support services at varying levels to help you strike just the right balance between maximum uptime and its associated cost. You can choose a plan that best fits your needs. And thanks to a new, unrivaled foundation we call the Dell ServiceSystem™, you will be backed by innovative best-practice resources.

Platinum Plus Enterprise Support: Dell's most comprehensive level of support. Customised account planning and reporting to proactively improve uptime.

Gold Enterprise Support: Provides rapid resolution of critical issues including escalation management and on-site⁴ Emergency Dispatch procedures.

Silver Enterprise Support: Provides convenient 7x24 phone access for hardware and core software troubleshooting with 4-hour 7x24 on-site⁴ services following completion of phone-based troubleshooting.



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FEATURES	DELL™ POWEREDGE™ 1950 SERVER
Form Factor	1U rack height
Processors ⁵	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 Low Volt Xeon 5148 processor at 2.33GHz; Up to two Dual-Core Intel Xeon 5000 sequence processors at up to 3.0GHz
Front Side Bus ⁵	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 5000X
Memory	256MB/512MB/1GB/2GB/4GB Fully Buffered DIMMs (FBD) in matched pairs; 533MHz or 667MHz; 8 sockets for support up to 32GB
I/O Slots	Two slots on separate PCI buses with either PCI Express riser with two x8 lane slots or PCI-X riser with 2 x 64-bit/133MHz slots
Drive Controller	Optional PERC 5/i integrated SAS/SATA daughtercard controller with 4 port SAS 5/i integrated SAS controller (no RAID)
RAID Controller	Optional PERC 5/i integrated SAS/SATA daughtercard controller with 256MB cache, PERC4e/DC, PERC 5/e adapter
Drive Bays	Two options: Two hard drive chassis with 2 x 3.5" SAS (10K/15K) or SATA (7.2K) drives or four hard drive chassis with 4 x 2.5" SAS (10K) drives; Peripheral bays: 1 slim optical drive bay with choice of optional CD-ROM, optional DVD-ROM ³ or combo CD-RW/DVD-ROM ³
Maximum Internal Storage ¹	Up to 600GB: two 300GB hot-plug 3.5" SAS (10K RPM); Up to 1.5TB: two 750GB hot-plug 3.5" SATA (7.2K RPM)
Hard Drives ¹	2.5" SAS (10K RPM): 36GB, 73GB; 3.5" SAS (10K RPM): 146GB, 300GB; 3.5" SAS (15K RPM): 36GB, 73GB, 146GB; 3.5" SATA (7.2K RPM): 80GB, 160GB, 250GB, 500GB, 750GB SATAu
Internal Storage	Optional bootable CD-ROM; 2 x 3.5" hot-plug SAS (10K and 15K) or SATA (7.2K) drives; 4 x 2.5" hot-plug 10K SAS drives
External Storage	Dell PowerVault™ 22xS, PowerVault MD1000, Dell/EMC products
Tape Backup Options	Internal: none External: PowerVault DAT 72, 110T, 114T, 124T, 132T and ML6000
Network Interface Card	Dual embedded Broadcom® NetXtreme II™ 5708 Gigabit ² Ethernet NIC with fail-over and load balancing; TOE (TCP/IP Offload Engine) supported on Microsoft Windows Server 2003, SP1 or higher with Scalable Networking Pack.
Power Supply	670W, optional hot-plug redundant power (1+1)
Availability	Hot-plug hard drives; hot-plug redundant power; redundant cooling; ECC memory; Spare Row; Single Device Data Correction (SDCC); /PERC 5/i integrated daughter card with battery-backed 256MB DDR2 cache; high availability failover cluster support; DRAC5
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	4-post (Dell rack), 2-post and 3rd party Versa rails, sliding rails and Cable Management Arm
Operating systems	Microsoft® Windows® Server™ 2003 R2, Standard, Enterprise & Web Editions, x64 R2; Standard & Enterprise editions; Red Hat® Linux® Enterprise v4, ES & WS EM64T, ES & WS; 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 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
- 3 The DVD region code can be changed up to 5 times and will then be locked so that it plays only DVD movies from the final region code selected.
- 4 Technician, replacement part or unit (depending on service contract) will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions (on site and/or next business day service not available in some locations) and terms of service contract. Service timing dependent upon time of day call placed to Dell. Defective unit must be returned or paid for. Replacements may be refurbished.
- 5 Intel Xeon Quad Core X5355 & E5345 1333MHz FSB processors only available for shipment from December 2006. Date is estimate only and subject to delays.

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