

DELL™ POWEREDGE™ 1950 III SERVER



The rack-optimized, Intel-based, two-socket 1U Dell PowerEdge 1950 III server delivers the right combination of computing power and availability for organizations who seek rack density.

STREAMLINED VIRTUALIZATION

Dell's PowerEdge 1950 III offers outstanding virtualization performance in a 2-socket 1U server combined with optional, factory integrated virtualization capabilities. Dell continues to simplify virtualization by streamlining virtualization deployment and providing ease of use in virtual infrastructures. By factory integrating VMware® ESXi 3.5, customers receive VMware capabilities and migration of virtual machines within a few clicks of a mouse.

CHOOSE SERVICES, SOLUTIONS, AND SPECIFICATIONS

To customize your server today, talk to your account manager or visit dell.com. For example, you have the freedom to choose either two high-performance 2.5" or two low-cost 3.5" hard drives depending on what you've decided to standardize on. Then choose from the industry's widest variety of complementary hardware, software, and external storage solutions.

Customers concerned with space are often also concerned with energy consumption. In many regions of the world, we offer a suite of services to help you optimize the design of your data center. Regardless of whether you choose our services, you can trust that each server will be fully assembled and tested before we ship it directly to you.

RELY ON DELL FOR THE LATEST PROVEN TECHNOLOGIES

To help conserve energy, which is good for your budget as well as the planet, Dell was the first Tier 1 server vendor to offer a line of power-optimized servers, including the best-selling PowerEdge™ Energy Smart 1950. Now we are beginning to migrate components from these servers into our mainstream servers. We also have introduced real-time power monitoring in the server (not the PDU) based on the PMbus industry standard.

As reliance on computerized information has grown, so have threats related to its security. The latest PowerEdge servers are Dell's most secure servers yet. To protect the confidentiality, integrity, and availability of data, Dell has included a variety of features, such as a Trusted Platform Module (TPM), more features within the lockable chassis, and new RAID controller cards that protect against the failure of two drives.

We offer the latest proven technology, such as a pair of quad-core Intel® Xeon® processors and a variety of network interface options. Together, these components are designed to dramatically boost performance.

Dell knows that the management of technology often costs more than the technology itself. So we've worked to include many features to simplify the task. Whether you want to work locally using USB flash drives or remotely via Wake-on-LAN or iSCSI boot, these servers offer greatly improved flexibility. Finally, the PowerEdge Behavioral Specification simplifies management by enforcing consistency in user interaction and hardware layout.

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 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 can simplify 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.

FEATURES	DELL™ POWEREDGE™ 1950 III SERVER
Form Factor	1U rack
Processors	Up to two quad-core or dual-core Intel® Xeon® 5400, 5300, 5200, or 5100 series standard or low-volt processors at up to 3.16 GHz
Front Side Bus or HyperTransport	1066 MHz or 1333 MHz Front Side Bus (FSB) (depending on the processor chosen)
Cache	Intel Xeon 5400: 2x6 MB; Xeon 5300: 2x4 MB; Xeon 5200: 6 MB; Xeon 5100: 4 MB
Chipset	Intel 5000X
Memory	Up to 64 GB (8 FBD DIMM slots): 512 MB/1 GB/2 GB/4 GB/8 GB 667 MHz Fully Buffered DIMMs (FBD) in matched pairs
Hard Drives²	2.5" SATA (7.2K rpm): 80 GB, 120 GB or 2.5" SAS (15K rpm): 36 GB or 73 GB or 3.5" SAS (10k rpm): 300 GB, 400 GB or 3.5" SAS (15k rpm): 73 GB, 146 GB, 300 GB, 450 GB or 3.5" SATA (7.2k rpm): 160 GB, 250 GB, 500 GB, 750 GB
Maximum Internal Storage	Up to 1.5 TB via two 3.5" 750 GB hot-plug SATA hard drives
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 or combo CD-RW/DVD-ROM
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/133 MHz slots
RAID Controller	Optional PERC integrated SAS/SATA daughtercard controller or adapter
External Storage	Dell Disk Storage Arrays, Dell Tape Automation, Tape Drives and Removable Disk, Dell NAS systems and Dell SANs
Internal/External Tape Backup Options	Internal: none External: PowerVault™ DAT 72, 110T, 114T, 122T, 124T, 132T, 136T, 160T and ML6000
Network Interfaces	Dual embedded Broadcom® NetXtreme II™ 5708 Gigabit 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. Supports many optional single-, dual-, or quad-port 10baseT, copper, or optical add-in NICs
Power Supply	670W, optional hot-plug redundant power (1+1)
Availability	ECC FBD memory, SDDC, Spare Bank; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; optional PERC6/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SCSI cluster support; validated for Dell/EMC SAN
Video	Embedded ATI ES1000 with 16 MB memory
Remote Management	Baseboard Management Controller with IMPI 2.0 support; optional DRAC5 (advanced capabilities)
Systems Management	Dell™ OpenManage™
Rack Support	Supports 4-post (Dell rack), 2-post and 3rd party Versa rails, sliding rails and cable management arm
Operating Systems	Microsoft® Windows® Server Microsoft® Windows® Storage Server Red Hat® Linux® Enterprise Novell® Netware® Novell® SUSE Linux VMware® Virtual Infrastructure
Embedded Hypervisors	VMware ESXi 3.5 Citrix® XenServer Dell Express Edition Citrix® XenServer Dell Enterprise Edition

¹ Source: Data for Q1 2003 through Q12007 extracted from IDC Tech Server Qview Report Q1 2007.

² For hard drives, GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

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