

DELL™ POWEREDGE™ 6950 SERVER



Reducing complexity while delivering outstanding performance per watt, the AMD-based Dell PowerEdge 6950 4-socket server is the ideal platform for demanding enterprise applications.

CONQUER COMPLEXITY

The PowerEdge 6950 rack-dense 4U server delivers exceptional performance with impressively low power consumption, helping organizations address increasing data center complexity. Featuring 4-socket AMD Opteron™ processing power, it provides high-performance scalability. The PowerEdge 6950 server is built to handle demanding enterprise applications without stressing data center resources, making it perfect for large databases, server consolidation, virtualization, and migrations from costly RISC-based systems.

With features such as hardware consistency and image management, the PowerEdge 6950 server reduces complexity. Enhanced systems management tools, like OpenManage™ 5 and DRAC5, simplify management and provide flexibility, security, and control. Plus, the server delivers standards-based integration with industry-standard systems management interfaces like Intelligent Platform Management Interface (IPMI) 2.0. The PowerEdge 6950 server also includes deployment and change management solutions integrated with Microsoft®, Altiris®, and Novell®. Consequently, IT professionals can spend less time on day-to-day server management and more time on mission-critical projects.

OUTSTANDING PERFORMANCE/WATT

The PowerEdge 6950 server utilizes the latest high-performance technologies for 4-socket servers including 64-bit AMD Opteron™ 8300 series quad-core processors and power-efficient DDR2 memory. PCI-Express I/O offers high-performance Ethernet, RAID, Infiniband and Fibre Channel interconnect while protecting technology investments. Additionally, SAS hard drives provide better performance by increasing data transmission through serialization. The enabled TCP/IP Offload Engine (TOE) can offload TCP/IP traffic from the host processor to an integrated NIC processor to help improve server performance. What's more, this impressive performance comes with low power consumption to make the most of data center resources and reduce heat output.

RELIABLE BUSINESS-RELEVANT SOLUTIONS

The PowerEdge 6950 server is designed to be part of a comprehensive solution to relevant business challenges. Engineered to keep critical enterprise applications running around the clock, the server offers availability and reliability. It is fully tested and certified by Dell and leading operating system and application providers to help ensure compatibility in clustered solutions. Additionally, the PowerEdge 6950 server is ideal for consolidation. Certified with Dell/EMC storage and VMware®, you can confidently consolidate many small servers onto a large, powerful platform that contains headroom for future growth.

Providing business-ready technologies, services and solutions, Dell can design and implement industry-standard infrastructures that minimize expenses and disruptions. Combined with quality Dell hardware, services such as Data Center Environment Assessment, Consolidation, Migration, and Virtualization along with Dell Enterprise Support Services can help you do more with less.



DELL IT INFRASTRUCTURE SERVICES

Dell brings absolute 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™ 6950 SERVER
Form Factor	4U rack-mount
Processors	Up to four dual-core or quad-core AMD Opteron™ 8200 or 8300 Series Processor(s)
HyperTransport	1GHz HyperTransport™ Technology
Cache	2x1 MB (dual-core) or 4x500KB (quad-core) L2 Cache per processor
Chipset	Broadcom HT-2100 and HT-1000 server I/O controllers
Memory	Up to 64GB (16 DIMM slots): 512MB/1GB/2GB/4GB DDR2 667MHz ECC SDRAM
I/O Slots	7 x PCIe expansion slots: 2x8, 5x4. Dedicated internal RAID PCIe slot
Drive Controller	None: Dedicated internal RAID PCIe slot
RAID Controller	SAS 5/iR; PERC 5/i; PERC 5/e
Drive Bays	Optional slimline optical drive and external USB floppy drive
Maximum Internal Storage	Up to 2TB: five 400GB hot-plug SAS (10K rpm)
Hard Drives¹	3.5" SAS (10K rpm): 73GB, 146GB, 300GB, 400GB; 3.5" SAS (15K rpm): 36GB, 73GB, 146GB
External Storage	Optional SAS and Fibre Channel storage systems
Tape Backup Options	PowerVault™ ML6000 series PowerVault™ 132T Tape Drive Library PowerVault™ 136T Tape Drive Library
Network Interfaces	Dual embedded Broadcom NetXtremell™ 5708 Gigabit Ethernet NIC with fail-over support and load balancing; TOE (TCP/IP Offload Engine) supported on Microsoft® Windows® Server 2003, SP1 or higher with Scalable Networking Packs
Power Supply	2 x 1570 watt hot-plug power supply units; 90 - 264V auto sensing; fully redundant at 90V for all Dell supported configurations
Availability	Memory Sparing; hot-plug SAS hard drives; hot-plug redundant power; hot-plug redundant cooling; tool-less chassis; high availability fibre channel and SAS cluster support.
Video	Embedded ATI ES1000 with 16MB memory
Remote Management	BMC with IPMI 2.0 compliance. Optional DRAC5 Remote Access Controller
Systems Management	Dell™ OpenManage™
Rack Support	4-post for Dell rack or supported third-party racks
Operating Systems	Microsoft® Windows® Server 2003 R2, Standard Edition; Microsoft® Windows® Server 2003 R2, x64 Standard Edition; Microsoft® Windows® Server 2003 R2, Enterprise Edition; Microsoft® Windows® Server 2003 R2, x64 Enterprise Edition; Red Hat® Linux® Enterprise v4, AS; Red Hat® Linux® Enterprise v4, AS x86-64; SUSE Linux Enterprise Server 10 x86-64

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

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