DELL POWEREDGE *SC*1435 SERVER

Delivering incredible price/performance and performance/watt for cost-sensitive environments, the PowerEdge *SC*1435 server is optimized for Web serving, high performance computing clusters (HPCC), and small business single server deployments.

Reduced Complexity

Featuring dual-core AMD Opteron™ processors, the rack-dense, 1U PowerEdge ***SC***1435 server provides the cost-effective performance and low power consumption that distributed cluster environments need. It is designed to reduce complexity making it easy to deploy in high performance computing clusters (HPCC) and Web farms. The price also makes it perfect for budget-conscious customers like small and medium businesses.

To simplify distributed cluster environments, the PowerEdge ***SC***1435 server incorporates tools for easy management. The latest industry-standard Intelligent Platform Management Interface (IPMI) 2.0 Baseboard Management Controller (BMC) allows remote, out-of-band management over a network or serial connection with any industry-standard IPMI management program. Software updates are also simplfied through planned block releases of multiple drivers, BIOS and firmware updates while proactive notification of these updates are available for customers via an online tool called ImageWatch.

The PowerEdge ***SC***1435 server is built specifically for large volume distributed clusters so you don't pay for features you will never use. Dell's system management tools give you management functionality tailored to HPCC and distributed Web serving environments. The server does not include hot plug hard drives, fans and power supplies because redundancy is typically achieved at the application level in these types of distributed computing implementations.

Exceptional Price/Performance/Watt

The latest processor technology AMD Opteron dual-core processors means the PowerEdge ***SC***1435 has an exceptional price/performance/watt ratio. AMD's Direct Connect Architecture directly connects CPUs, memory and I/O to help reduce latency and optimize memory performance. Additionally, AMD PowerNow! with Optimized Power Management is designed to decrease overall system power consumption without compromising performance by dynamically adjusting individual core frequencies for improved power. And the PowerEdge ***SC***1435 server provides a seamless upgrade to future quad-core processing in the same thermal envelope.

The PowerEdge ***SC***1435 server offers processor speeds up to 2.8GHz with as much as 32GB of low latency power effcient DDR2-667 memory. It also includes the latest high performance I/O and storage technologies. Optional TCP/IP Offload Engine (TOE) NIC adapters help improve processor utilization by offloading TCP/IP traffic from the host processor to an integrated NIC processor. Up to two SATA or SAS drives provide flexible and reliable storage.

Comprehensive Business Relevant Solutions for HPCC and Web serving

Built with HPCC and distributed Web serving challenges in mind, the PowerEdge ***SC***1435 helps organizations make the most of their resources in distributed cluster applications. Dell engineers, working closely with our HPCC partners, fully integrate, test and preconfigure HPCC solutions to take the guesswork out of configuring a cluster. These pre-configured bundles provide a validated solution that can be easily deployed. Additionally, Dell Services are focused on simplifying HPCC operations and helping you achieve the full value of your systems.

Dell PowerEdge ***SC***1435

DELL POWEREDGE *SC*1435 SERVER

DELL ENTERPRISE SERVICES

Dell Services can deliver the services you need to realize the full value of your IT investment. Complementing our award-winning products, these IT infrastructure services incorporate operational excellence, accountability and value.

By utilizing our best practices, proven processes and expertise in implementing standards-based technologies, we can help strengthen your IT infrastructure and enable you to adopt evolving technologies. Whether you need support, deployment, asset management, training, certification, planning or professional services – individually or bundled as a total solution – you can count on Dell.

Strengthening Your IT Infrastructure

Our planning services help integrate your new enterprise hardware into your existing or evolving IT infrastructure. We can provide guidance whether you're adding a single or multiple servers, storage area network or high-performance computing cluster.

We can also help you enhance the overall performance of your IT infrastructure and data center by consolidating software and hardware, developing a business continuity plan and migrating to standards-based technologies.

Simplifying Deployment

Dell simplifies implementation with comprehensive services that accelerate deployment of new hardware and IT solutions. During the initial system-build of your server, we can customize software and hardware to match your specific requirements. By helping you rapidly deploy new capabilities while minimizing disruptions, we can contribute to improved efficiencies and lower costs.

Our training services provide education and certification courses to help you better manage and use your new hardware so you can reap the full benefits of standards-based technologies.

Providing Award-Winning Service & Support

Your server and storage infrastructure is central to your business, which is why you need a partner who can help minimize downtime and keep your business-critical systems running efficiently. Our enterprise support services are designed to protect your entire enterprise or to focus on specific systems. These customizable services include hardware and software support with varied response levels, account management and remote resolution.

We can also help you enhance the performance of your data center and provide managed IT solutions and asset management services for your enterprise, desktop and notebook environments.

The Dell Enterprise Command Centers (ECC) – which utilize industry-leading technologies and tools that speed up problem resolution – efficiently route spare parts and direct expert technicians to your site.

Services vary by region. For more information, please visit www.dell.com.

FEATURES DELL™ POWEREDGE™ *SC*1435 SERVER

Form factor	1U rack-mount
Processor	Up to two dual-core AMD Opteron™ 2200 Series Processor(s) at up to 2.8GHz
HyperTransport	1GHz HyperTransport™ Technology
Cache	2x1MB L2
Chipset	Broadcom HT-2100 and HT-1000 server I/O controllers
Memory	Up to 32GB (8 DIMM slots): 512MB/1GB/2GB/4GB ECC DDR2 667MHz SDRAM
I/O slots	One PCI Express™ x8 full height, half length or One PCI-X (64bit/133MHz) full height, half length
Drive controller	Embedded SATA II controller
RAID controller	SAS 5/iR (optional)
Drive bays	1 x slimline bay: optional CD, CD/DVD-ROM, CD-RW/DVD combo
Maximum internal storage	Up to 600GB: two 300GB cabled SAS (10K rpm); Up to 1TB: two 500GB cabled SATA (7.2K rpm)
Hard drives[1]	3.5" SAS (10K rpm): 73GB, 146GB, 300GB; 3.5" SAS (15K rpm): 36GB, 73GB; 3.5" SATA II (7.2K rpm): 80GB,160GB, 250GB, 500GB
Network interface card	Dual embedded Broadcom Gigabit[2] NICs with load balancing and fail-over support
Power Supply	Standard 600W power supply; Auto-switching universal 90-264V
Availability	ECC, SDDC DDR2 memory; RAID controller option, Quad Pack LED
Video	Embedded ATI ES1000 with 16MB memory
Remote management	Standard Baseboard Management Controller with IPMI 2.0 support
Systems management	Dell Server Assistant for PowerEdge SC servers, deployment and update tools
Rack support	4-post (Dell rack) sliding rails and Cable Management Arm; 3rd party Versa rails, 2-Post rails
Operating systems	Microsoft® Windows® Server 2003 R2, Standard Edition; Microsoft® Windows® Server 2003 R2, Web Edition; Microsoft® Windows® Server 2003 R2, x64 Standard Edition; Red Hat® Linux® Enterprise v4, ES and ES x86-64; Red Hat® Linux® Enterprise v4, WS and WS x86-64; SUSE® Linux Enterprise Server 10 x86-64

[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.