

Dell™ PowerEdge™ SC1435 Server



Helping to deliver incredible price/performance and performance/watt for cost-sensitive environments, the PowerEdge SC1435 server is optimised 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 SC1435 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 SC1435 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 simplified 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 SC1435 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 SC1435 has an exceptional price/performance/watt ratio. AMD's Direct Connect Architecture directly connects CPUs, memory and I/O to help reduce latency and optimise memory performance. Additionally, AMD PowerNow! with Optimised 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 SC1435 server provides a seamless upgrade to future quad-core processing in the same thermal envelope.

The PowerEdge SC1435 server offers processor speeds up to 2.8GHz with as much as 32GB of low latency power efficient 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 utilisation 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 SC1435 helps organisations 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.



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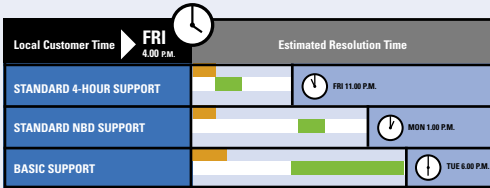
In today's environment, businesses depend on their advanced server and storage systems running like clockwork. Continuous uptime and instant problem resolution is the goal when a system needs attention. Dell Services is your answer.

Goal: Maximum performance and uptime. Enabled By: Dell Enterprise Support Services.

Providing Support at Every Level

Dell Enterprise Support Services offer multiple levels of enterprise support to meet your IT needs.

SCENARIO: One of your Dell systems experiences a critical hardware failure at 4p.m. You call the toll-free support number provided and receive the support at the level purchased for the system.



- Phone troubleshooting
- On-site* response time and hardware repair

Which services Are Right For You?

Features	Standard 4-Hour	Standard Next Business Day	Basic
4-hour on-site* response service after completion of phone-based troubleshooting	X		
Next Business Day on-site* response service after completion of phone-based troubleshooting		X	X
7x24 toll-free phone queue for basic hardware failures	X	X	
5x12 toll-free phone queue for basic hardware failures			X
7x24 access to premier.ap.dell.com for troubleshooting assistance and service requests	X	X	X
On-site* Engineer	Optional	Optional	N/A
On-site* Troubleshooting	Optional	Optional	N/A
On-site spares (Customer-owned)	Optional	Optional	N/A
Enterprise Training Courses (About Dell hardware)	Optional	Optional	N/A

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Features	Dell™ Poweredge™ SC1435 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 ¹ , CD-RW/DVD ² combo
Maximum Internal Storage ¹	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

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

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