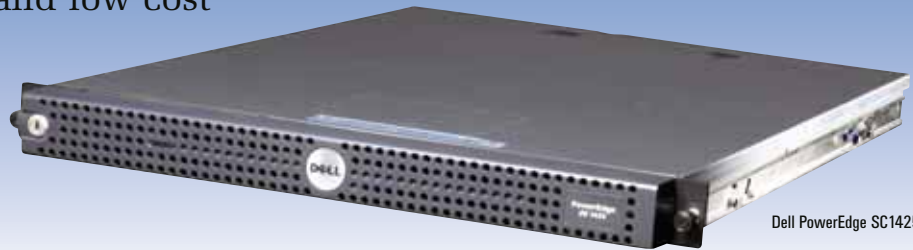


High performance, low cost

The powerful 1U PowerEdge SC1425 rack server is tailor-made for high-performance computing clusters and distributed Web farms, where optimal performance and low cost are top priorities



Dell PowerEdge SC1425

In today's competitive and cost-conscious economy, controlling IT spending is critical—yet high performance cannot be sacrificed.

Dell is helping organizations that run high-performance computing (HPC) clusters and distributed Web server farms to meet the demand for high performance at a price that's right with the new Dell™ PowerEdge™ SC1425 rack server. The PowerEdge SC1425 is Dell's first rack-mount server specifically designed for the unique requirements of distributed cluster applications.

For servers used in large-scale clusters and Web farms, IT organizations tend to place a high premium on system performance and cost, but less of an emphasis on availability features. This is because clusters and Web farms are typically managed for failover and availability at the application level. By reducing the system-level redundancy features in the PowerEdge SC1425 that are not critical to HPC environments, Dell allows organizations to invest their IT dollars in the overall computing power their distributed configurations require. The PowerEdge SC1425 delivers the latest high-performance features—including Intel® Extended Memory 64 Technology (EM64T) 64-bit memory addressing, a dual-channel memory architecture, and advanced I/O technologies—at an excellent value.

Performance and scalability

The PowerEdge SC1425 comes equipped with dual Intel Xeon™ processors with Intel Hyper-Threading Technology

and EM64T memory addressability¹ to optimize scalability and performance. Processor clock speeds of up to 3.6 GHz are designed to allow fast integer and floating-point calculations and data processing, while an 800 MHz frontside bus (FSB) supports speedy access to up to 12 GB of double data rate 2 (DDR2) system memory—helping leverage the power of EM64T memory addressing. Organizations can deploy securely today knowing they have the capability to migrate seamlessly to 64-bit applications in the future.

The PowerEdge SC1425 offers many I/O, expandability, and storage features as well, including dual embedded Gigabit² Ethernet network interface cards (NICs) designed to provide failover support and maximize I/O throughput. A 64-bit 133 MHz Peripheral Component Interconnect Extended (PCI-X) slot lets administrators expand the functionality of the system by adding optional adapters, and Serial ATA (SATA) or SCSI hard disk drives provide flexible and reliable storage.

All-in-one bundles

To further reduce the cost of advanced computing and to ease acquisition and deployment issues, Dell offers the PowerEdge SC1425 in Dell certified HPC cluster bundles. These validated bundles are available in 8-, 16-, 32-, 64-, 128-, and 256-node configurations running either Red Hat® Enterprise Linux® AS 3 or WS 3. Bundles can be interconnected using Fast Ethernet, Gigabit Ethernet, Myrinet, and InfiniBand.

For maximum flexibility, individual PowerEdge SC1425 servers are also sold separately with either Red Hat Enterprise Linux ES 3 or WS 3; Microsoft® Windows® Server 2003, Standard Edition; or Microsoft Windows Server 2003, Web Edition, operating systems.

Optimized for its environment

Like all Dell application servers, the PowerEdge SC1425 is designed with manageability foremost in mind. Dell OpenManage™ Server Assistant for SC products helps make operating system installation quick and easy, while the server's integrated baseboard management controller (BMC) allows for remote management using a network or serial connection. But unlike a general-purpose server, the PowerEdge SC1425 is built from the ground up to be a hot-swappable component of HPC and Web farm environments. With its impressive feature set and remarkable price, the PowerEdge SC1425 can deliver the price/performance that enterprises demand.

For more information:

In U.S.: www.dell.com

In Europe: www.euro.dell.com

In Asia: www.dell.com/ap

¹ Requires 64-bit operating system and application.

² This term does not connote an actual operating speed of 1 Gbps. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.