

INFOBrief

Dell™ PowerEdge™ 400SC



Key Points

- **Low Implementation Cost:**

The PowerEdge 400SC is an affordable server designed to be easy to setup, run, and troubleshoot. The PowerEdge™ 400SC is perfect for small businesses and home offices, needing a local server.

- **Easy Integration:**

The PowerEdge 400SC effectively minimizes the customer's cost of ownership by using proven technologies. The PowerEdge™ 400SC is delivered with Dell System Support CD for easy installation of the server operating system at no extra charge!

- **After Sales support:**

Dell anticipates that Small Office and Home Office customers will use the PowerEdge 400SC as the main resource for their IT needs. As a result, they expect great after sales support from Dell. Service is a primary focus for Dell. According to TBR's¹ third quarter report

(Q3'03) on corporate Customer Satisfaction, Dell holds the leadership position for servers; Dell has led the customer satisfaction results for 22 of the last 23 quarters for servers.

- **Performance:**

Delivering the latest technology at a low cost, the PowerEdge 400SC server provides exceptional value for small businesses planning to replace a peer-to-peer network or simply needing their first local server. With the option of either the latest Intel® Pentium® 4 processors with an 800MHz front side bus, or the price-conscious Intel Celeron® processor, you select the power that fits within your budget. (Celeron Processors support 400 MHz Front Side Bus). The Pentium 4 800MHz front side bus processor supports Hyper-threading technology.

- **Built to customer order, Dell Makes it Easy:**

Each PowerEdge 400SC is custom built to best respond to the needs of our customers. Dell's operations excellence will allow for delivery in a timely manner. In addition, you can purchase a selection of server operating system from us and have our expert engineers install it for you. Then, to assist you with set-up and installation after the server is delivered, we offer a suite of installation services and software support. (Please check the Service & Support tab for more information.)

[Background](#)

The PowerEdge 400SC is designed for customers who have historically used desktops loaded with server software. The PowerEdge 400SC takes advantage of technology developments that allow server technology to enter into lower price points and compete with desktop PCs that are performing server-like functions. The result is a system that is designed and certified to run high performance server operating systems at a lower cost than many of those desktops. For a variety of non-mission-critical applications, such as a file and print server the PowerEdge 400SC offers basic server functionality at a very low cost. The PowerEdge 400SC has been designed from the bottom up to take advantage of developments in technology in order to reach the lowest cost possible while having the essential feature set users require.

¹ Quarterly Corporate IT Service and Support Customer Satisfaction Study, Technology Business Research, Inc., Q3, 2003

Product Description

The PowerEdge™ 400SC offers the latest Processor and chipset technology

- Single Intel Pentium 4 or Celeron processor.
 - Celeron Processors: 2.0Ghz/400MHz FSB or 2.4Ghz/400MHz FSB
 - Pentium 4 Processors: From 2.26GHz/533FSB up to 3.2GHz/800FSB
- Three available PCI slots (32 Bit/33 MHz), 5v.
- Four ECC DDR 333/400 SDRAM DIMM sockets for up to 4 GB of memory.
- Intel® 875P Chipset
- IDE or SCSI U320 hard drives.
- Optional IDE RAID 1 or SATA RAID 1
- Two external 5.25-inch bays
 - One for an EIDE CD-ROM
 - One free (for tape backup or other half-height peripheral)
- Embedded Intel® Gigabit² Ethernet Controller

² This term indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/sec. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

Table 1: Feature Comparison of PowerEdge SC servers

Feature	PE 400SC	PE 600SC	PE 1600SC
Processor support	P4 533FSB or P4 800FSB 2.2 GHz or higher Celeron 2.0 GHz or higher	P4 533FSB 2.4GHz or higher Celeron 2.0 GHz or higher	Dual Intel® Xeon™ 2.0GH, or higher
Chipset	Intel 875P	ServerWorks® GC-SL	ServerWorks GC-SL
RAM type	ECC DDR-333 SDRAM or ECC DDR-400 SDRAM	ECC DDR-266 SDRAM	ECC DDR-266 SDRAM
Ram min/max	128MB-4GB	128MB-4GB	128MB-4GB
Disk	IDE 40,80,120 GB SATA 120, 250 GB 7.2K SCSI 10K 36, 73 GB	IDE 40,80,120 GB SCSI 10K 36, 73,146 GB SCSI 15K 36, 73 GB	IDE 40,80,120 GB SCSI 10K 36, 73,146 GB SCSI 15K 36, 73 GB
Number of hard disk drive bays	2x1.0" Non-Hot Swap	4x1.0" Non-Hot Swap	6x1.0" Hot Swap optional
Number of external drive bays	1x3.5": Floppy 2x5.25" for CD-ROM Opt. DVD/CD-RW	1x3.5": Floppy 2x5.25" for CD-ROM Opt. DVD/CD-RW	1x3.5": Floppy 2x5.25" for CD-ROM Opt. DVD/CD-RW
Availability	ECC memory	ECC memory	ECC memory Opt. Hot-Swap HDDs Opt. Hot-Plug Rednt. Power
Server Management	OS based monitoring	LM-81 Basic management	ADM 1026
Drive controller	Embedded 2xATA100 Opt. U320 SCSI	Embedded 2xATA100 + 1xATA66 Opt. U320 SCSI	Embedded ATA100 Embedded single channel U320 SCSI
I/O	3x32bit/33MHz 5v PCI	4x64bit/33MHz 3.3vPCI 1x32bit/33MHz 3.3vPCI	2x64bit/100MHz 3.3v PCI-X 2x64bit/66MHz 3.3vPCI 2x32bit/33MHz 5vPCI
Opt. RAID	CERC IDE SATA	CERC IDE PERC4/SC, PERC 3/SC	CERC IDE PERC4/SC, PERC 3/SC
LOM	1x Gigabit ²	1x Gigabit ²	1x Gigabit ²
Chassis	Minitower	Minitower	Minitower

Target Market/Applications

Local applications, Small Office Home Office or Small Business

For small operations, the PowerEdge™ 400SC is appropriate for the following applications:

- File/print server
- Local Area Network (LAN) infrastructure (Domain Controller/Directory Services, DNS, DHCP, WINS)

- Replacement for desktop-based peer-to-peer networks

Features and Key Customer Benefits

Feature	Benefit
Single Pentium 4 processor up to 3.2GHz w/ 800MHz FSB; or single Intel Celeron processor at 2.4GHz w/ 400MHz FSB	The single Pentium® 4 processor with 800MHz front side bus (FSB) provides the highest performance Pentium® 4 processor available today from Intel. The 3.2GHz processor supports Hyper-Threading Technology (see below). The Celeron option provides users a lower cost alternative for more deployment flexibility.
3.2GHz processor with Hyper-Threading Technology	Hyper-Threading provides improved performance for multithreaded applications through better use of processor resources. In simplified terms, Hyper-Threading causes the OS to view one physical processor as two logical processors, which helps improve response time because multiple tasks can be run simultaneously in certain application environments. Linux RedHat 9 and Microsoft 2003 server support hyper-threading.
ECC DDR memory	ECC Memory corrects single bit errors to help provide higher levels of system uptime. ECC support is a key differentiator between desktop and server platforms in single processor systems, and is a mandatory requirement in most server environments.
ECC DDR 400 SDRAM	The PE 400SC supports ECC DDR 400 SDRAM. The DDR 400 is designed to meet the requirements of the latest Pentium 4 processors 800MHz FSB, providing up to 6.4 GB/s of memory bandwidth.
Hardware IDE RAID 1 or Software SATA RAID 1	Opt. CERC IDE RAID or Promise SATA RAID cards provide high performance RAID solutions for SMB customers. A must have in a server environment.
4 DIMMS	Up to 4GB of DDR SDRAM, enough room to meet the requirements of today's and tomorrow's most memory

Feature	Benefit
Opt U320 SCSI hard drives	intensive applications. SCSI U320 hard drives, a must have for hard drive performance.
Operating system installation	The System Support CD is designed to make OS installation quick and easy, and provide customers with a "one stop shopping" for setting up a PowerEdge server, including providing the latest Dell drivers, RAID and NIC configurations, and electronic documentation.
Tape Backup Unit	Tape backup units offer large backup capacities for an easy backup of the customer most valuable data. More importantly Tape Backup technology offers the disaster recovery capability so important to a server / client architecture.

Service and Support

- Limited warranty¹ options include:
 - Standard warranty is 1 year parts NBD, 1 year labor NBD, 1 year tech support)
- Service options include²:
 - - 3 year parts and labor NBD (with lifetime tech support)
 - - 3 year parts and labor 4HR (5X10 or 7X24)
 - - On-site Hardware installation
 - - On-site OS installation

¹ For a complete copy of our Guarantees or Limited Warranties, please write Dell, USA, L.P., One Dell Way, Round Rock, TX 78682.

²Service may be provided by third-party. Availability varies. Technician will be dispatched if necessary following phone-based troubleshooting. To receive next business day service, Dell must notify the service provider before 5pm (depending on service contract) customer time. Availability varies.

Dell, PowerVault and PowerEdge are trademarks of Dell Computer Corporation. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others.

©Copyright 2003 Dell Computer Corporation. All rights reserved. Reproduction in any manner whatsoever without the express written permission of Dell Computer Corporation is strictly forbidden. For more information contact Dell. Dell cannot be responsible for errors in typography or photography.