

2800Dell™ PowerEdge™ 2800 Server

Reliability, Availability and Serviceability

The PowerEdge 2800 server features enterprise-level high availability features like optional hot-pluggable redundant power, hot-pluggable redundant cooling and even hot-pluggable PCI Express™ slots which allow you to replace components on the fly without taking your server offline. In addition, memory availability features such as ECC, SDDC, memory mirroring and spare bank memory help to ensure high data integrity and uptime.

Expandable Performance and Incredible Storage Capacity

The PowerEdge 2800 system delivers the latest in processor, memory and local I/O throughput technologies. It features dual Intel® Xeon™ processors with Intel Extended Memory 64 Technology that supports both 32-bit and 64-bit applications, the new Intel E7520 chipset and up to 16GB of DDR-2 memory. Plus, it includes as many as seven PCI/PCI-X® or PCI Express slots. The PowerEdge 2800 server's combination of high performance and large storage capacities make it an ideal choice for server and storage consolidation projects. And this flexible server can be deployed as either a tower or a 5U rack-mountable unit. The ten hard drive bays not only provide scalable high performance, they also offer the ability to store multiple terabytes of data to help you keep up with rapidly growing storage requirements.

Simple Manageability and Serviceability

Designed with built-in manageability with the standard Baseboard Management Controller (IPMI 1.5 compliant), administrators can manage their server with any standard management application that supports IPMI. The optional DRAC4/I advanced remote management card provides even greater levels of management with continuous video, virtual floppy/CD and Active Directory support. The Dell OpenManage™ IT Assistant and Dell OpenManage Server Administrator help reduce management costs and hassles. And its easily accessible chassis makes service easy. The PowerEdge 2800 shares the same system board drivers and BIOS with the PowerEdge 1850 and 2850, helping to reduce your total cost of ownership.

The PowerEdge 2800 server is a feature-optimized workgroup class server that offers new levels of availability, performance, storage capacity and manageability.

Specifications



PowerEdge 2800

The Dell™ PowerEdge™ 2800 delivers next generation performance in a dual processor tower with more standard reliability, availability and serviceability features to keep your business online.

Processor(s)	Dual Intel® Xeon® DP processors with Intel Extended Memory 64 Technology
Front Side Bus	800MHz
L2 Cache	1MB Level 2 processor cache
Chipset	Intel E7520
Memory	Up to 12GB DDR2 SDRAM
PCI slots	7 Slots Total 2 hot-pluggable PCI Express slots: one x4 and one x8 4 PCI-X slots: 64-bit/133MHz 1 PCI slot: 32-bit/33MHz (5V)
Ports	2 USB ports, 2 PS/2, 1 video, 1 parallel, 2 serial, and 1 RJ-45
RAID Controller	Optional PERC4/Di (embedded dual channel U320 RAID with 256MB of battery-backed cache) Optional PERC 4/DC (dual channel U320 PCI RAID controller)
Drive Bays	Standard internal hard drive bays to support up to eight 1.0" or Ultra320 SCSI hard drives with Dell hot-plug splittable backplane Additional 2 hard drives can be installed in media bays Up to 24X max. IDE CD-ROM standard or Optional 8X DVD-ROM/24X CD-ROM or Optional DVD/RW Drive 3.5" 1.44MB diskette drive standard
Maximum Internal Storage	3TB (10 x 300GB) SCSI
Hard Drives	36GB, 73GB, 146GB, 300GB 10K Ultra320 SCSI - 36GB, 73GB, 146GB 15K Ultra320 SCSI
Network Interface Card	Dual Embedded Intel Gigabit Adapter to preserve valuable PCI slots. Embedded NICs support PXE and teaming functions like fail over and load balancing.
Power	1+1 930W hot-plug redundant (optional) 1 930W non-redundant
Management	Integrated IPMI 1.5 Base Management Controller DRAC4/I for accessing the system independent of the OS status Console monitoring and management through Dell OpenManage keeps administrators informed of and in control of server status Dell OpenManage Server Setup CD included with every server to get your PowerEdge up, running, and contributing to your infrastructure quickly
Graphics	Integrated ATI-Radeon 7000-M w/16MB of RAM
Chassis	Form Factor: Tower or 5U Height: 44.65cm (17.58in.) Width: 22.9cm (9.05in.) Depth: 57.23cm (22.53in.) Maximum Weight: 100lbs. Active ID includes an illuminated indicator that provides basic system status information

Dell PowerVault™ 220S and 221S SCSI Storage System

The Dell™ PowerVault™ 220S and 221S SCSI Enclosures provide affordable expandability for your Dell PowerEdge™ servers and PowerVault Network Attached Storage (NAS) servers.

SCSI Simplicity

When your server reaches the limits of its internal storage capacity, the Dell PowerVault rack-optimized 220S and PowerVault 221S tower SCSI enclosures offer cost-efficient external storage expansion for Dell PowerEdge servers and PowerVault storage servers. Supporting popular industry standards such as Ultra320 (U320) SCSI, SES and SAF-TE specifications, these enclosures are designed for easy installation and configuration. And when it comes to upgrades or servicing, the chassis design helps make maintenance a snap. Remote administration is performed through Dell OpenManage™ Array Manager, which provides a management interface that was developed for all Dell storage arrays. All with the benefit of Dell Premier Enterprise Service and Support.

Powerful Storage, Low Cost

Offering high capacity and high speed, the PowerVault 220S and 221S SCSI enclosures are an outstanding value. With up to 2,044GB maximum storage capacity with burst data transfer rates of up to 320MB per second, your storage-hungry business applications will love these SCSI enclosures. Because of the modular design, the PowerVault 220S and 221S SCSI enclosures can be configured to your specifications. With a wide range of options providing various levels of redundancy, availability and performance, you only pay for what you need. You can design a system with your choice of hard disk drive capacities and speeds, such as 36GB, 73GB and 144GB at 10,000rpm or 18GB and 36GB at 15,000 rpm. Additionally, the PowerVault 220S and 221S SCSI enclosures give you the flexibility to attach to one server or two independent or clustered servers. This gives you the freedom to consolidate for disk utilization and high availability for your business-critical applications.

High Availability and Reliability

Designed with reliability in mind, the PowerVault 220S and 221S SCSI enclosures offer high availability and reliability features through hot-pluggable and redundant components. The hard disk drives, cooling units and power supplies are all hot-pluggable and redundant. For increased protection or performance, PowerEdge RAID controllers can be used to set RAID levels 0, 1, 5, 10 and 50 and expand storage to multiple terabytes in a variety of computing environments. The PowerVault 220S and 221S offer storage you can trust for your vital information simply, cost-effectively, powerfully.

Specifications



PowerVault 220S/221S

The PowerVault 22xS SCSI enclosures provide affordable expandability for your Dell PowerEdge servers and PowerVault Network Attached Storage (NAS) servers.

Disk Drives	Up to 14 1" SCSI U320 hard disk drives Adds up to 2044GB storage capacity per enclosure
Enclosure Modules	EMM: 2 warm-swappable modules available for U160 or U320 operation Split-bus module: 1 warm-swappable module with an external slide switch to change between split, joined, and cluster modes Warm-swappable terminator card for 1 EMM configuration
Disk Characteristics	Add up to 8 enclosures to select servers - 16TB Enhanced protection or performance offered through RAID 0, 1, 5, 1/0, 5/0 36GB, 73GB and 144GB at 10,000 rpm or 18GB and 36GB at 15,000 rpm
Cable Support	Supports cables up to 12 meters between storage system and host server
Back End Connector	SCSI connectors 68-pin shielded P-type SCSI for connection to host
Bandwidth	Up to 320MB/s with U320 disk drives, U320 Enclosure management modules, and PERC4 RAID controllers
Power	600 W
Cluster Support	Microsoft Cluster Server (MSCS) clustering support
Management	Status, performance, and configuration can be managed locally and remotely over a network Dell™ OpenManage™ Array Manager Console alerting through Dell OpenManage IT Assistant keeps administrators informed of server performance or potential problems
Chassis	Form Factor: 3U (PV220S) Height: 13.26cm (5.22in.) Width: 44.58cm (17.55in.) Depth: 50.8cm (20 inches) PowerVault 220S Weight: 32.4kg (71.5lbs.) PowerVault 221S Weight: 42.2kg (93.0lbs.)