

Dell PowerVault 745N



Providing cost effective storage and consolidation, the Dell™ PowerVault™ 745N Network Attached Storage server is designed for easy installation and configuration.

More Performance, Less Cost

The PowerVault 745N Network Attached Storage (NAS) server is an exceptional option for adding capacity to consolidate storage or for external backup. It provides excellent features and performance when compared to other entry-level storage servers, and delivers high performance and scalability while at a low total cost of ownership (TCO) through:

- Rapid deployment
- Built in multi-platform support – including Microsoft® Windows®, Macintosh®, UNIX NFS, Linux® and NetWare®
- Enhanced data protection and system availability
- Simplified zero-impact upgradeability
- Low up-front costs

Make It Simple

The PowerVault 745N provides simplified deployment and management. It's preconfigured for serving data, requiring less time and effort for installation with:

- Deployment in as little as 15 minutes
- Built-in Microsoft Windows Storage Server 2003 operating system
 - Designed for reliability and seamless integration in network environments
 - Plug and Play, automatically detecting hardware additions or modifications
- Easy-service options
 - Tool-less access for most internal components
 - Front-loaded, hot-swap hard drives

The PowerVault 745N provides an intuitive, Web-based management interface offering convenient, flexible, centralized administration and system management from any remote location with Web access. Enhanced management capabilities enable easy management of multiple devices and even provide advanced status monitoring.

Easing administration even further, PowerVault 745N supports dynamic Windows 2003 services, such as Volume Shadow Copy Service (VSS). VSS "Snapshots" allow administrators to create and preserve volume images at discrete points in time. Shadow Copies on the PowerVault 745N can be created on the fly or scheduled for routine protection.

Flexible Performer

The PowerVault 745N provides exceptional functionality and scalability, allowing you to configure it to be the right storage solution for your computing environment. It comes equipped with up to 1TB of internal storage (across four 250GB hard drives), and up to two external (PowerVault 220s or Dell/EMC AX100 disk arrays) can be connected to increase capacity to as much as 8.4TB. The PowerVault 745N includes two PCI slots supporting RAID and External Storage systems and also allowing for options such as SCSI host adapter cards for tape device connections (the PowerVault 745N supports direct connection of PowerVault tape backup solutions, including the PowerVault 114T Tape Rack Enclosure, PowerVault 122T or 124T Tape Autoloader and PowerVault 132T Tape Library). Dual embedded 10/100/1000 NICs offer Gigabit¹ Ethernet connections. With optional data protection software from VERITAS and Yosemite Software, PowerVault 745N can integrate seamlessly with your legacy network backup solutions.

There are two operating system options for the PowerVault 745N. The base level operating system for the 745N is Windows Storage Server 2003 Standard Edition. It supports the enhanced hardware of the PERC card and can be upgraded at the time of purchase to Windows Storage Server 2003 Standard Edition with Print.

The PowerVault 745N provides extensive performance and flexibility at a cost value that cannot be ignored, making expanded capacity and storage simply affordable.



PowerVault 745N

GET MORE PERFORMANCE AND VALUE. GET MORE OUT OF NOW.





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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	160GB Model	320GB Model	480GB Model	1TB Model
Number of internal data drives	Four	Four	Four	Four
Maximum useable storage capacity	160GB (RAID 0) 108GB (RAID 5)	320GB (RAID 0) 228GB (RAID 5)	480GB (RAID 0) 348GB (RAID 5)	1TB (RAID 0) 738GB (RAID 5)
Capacity of each internal data drive ¹	40GB, 80GB, 120GB or 250GB (all four drive capacities must match)			
Processor type	Intel® Celeron® at 2.4 GHz, Intel Pentium® 4 at 2.8 GHz or 3.2 GHz			
Memory	Up to 4GB DDR400 SDRAM			
Operating system	Microsoft® Windows® Powered OS based on Windows Storage Server 2003			
Network protocols	CIFS/SMB, NFS, NCP, AFP, WEBDAV, HTTP, FTP, CIFS/Samba, NDMP, SNMP			
Transport protocols	TCP/IP, IPX, NetBEUI, AppleTalk®			
Server emulation	Microsoft Windows 2000, Novell® NetWare® 3.x, 4.x, 5.x (via IPX), AppleShare® 6.0, NFS 2.0 and 3.0, HTTP 1.1			
Supported clients	Microsoft Windows 95/98/2000, Microsoft Windows NT®, Windows XP Home, Windows XP Professional, Novell IntranetWare clients for Windows, SunOS and Solaris™, SCO UNIX, Red Hat® Linux®, Macintosh® System OS			
RAID levels	Factory default: RAID 5 (disk striping with parity) for software, hardware RAID Configuration options: RAID 0 (disk striping), RAID 1 (disk mirroring), JBOD			
Boot-failover OS	OS is mirrored across first two drives, factory default OS is mirrored on last two drives			
Number of PCI slots	One PCI 64-bit, 33 MHz and one PCI-X 64-bit, 133 MHz: Can be configured for local tape backup using Adaptec® 39160 Ultra160 LVD SCSI controller			
Drive type	Hot swap, front-loaded ATA IDE hard drives			
Network connection	Two 10/100/1000 Gigabit ² Ethernet			
Network security	Microsoft Active Directory Authentication, Microsoft Domain Services, Novell Directory Services (NDS) and NetWare 3.x bindery synchronization via Microsoft Directory Synchronization Services (MSDSS), UNIX/NFS user name mapping via Network Information Service (NIS) or local Personal Computer Network File System (PCNFS), Macintosh User Authentication Map (UAM) account name and password login using the clear-text password or Apple's RandNum Exchange method of security			
Form factor	1U			
Dimensions (H x W x D)	1.66" x 16.8" x 23" (4.2cm x 42.7cm x 58.4cm)			
Weight	27lbs/12.27kg, maximum configuration			
Power	230W, 100-240 VAC, 50-60 Hz			
Optional software	Storage Management Software, NSI DoubleTake, PowerQuest DataKeeper, Tape backup software			

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