



# Dell PowerVault NX400

The next generation of affordable and reliable rack-mounted network-attached storage (NAS) offers you advanced data management and efficient data sharing. The Dell™ PowerVault™ NX400 array is designed to improve performance with the latest version of Windows Storage Server.

## Efficient, dedicated data sharing

This entry-level file-sharing system, based on enterprise-class Dell™ PowerEdge™ 12G server technology, is easy to manage with its integration of Windows® Storage Server 2012 (Standard Edition and Workgroup Edition). This specialized operating system helps control growing storage demands by making file storage more efficient than previous generation solutions.

Maintaining productivity is essential for any business, so NX400 offers disparate users simplified access to files and shares across a network-wide infrastructure, even to remote offices. File shares are easy to locate and resilient.

NX400 with Windows® Storage Server 2012 helps eliminate data clutter by identifying duplicate files, storing one copy and replacing others with pointers\*. It also has a single-management interface that delivers improved managed file services across CIFS/NFS, and offers improved control and compliance over files, ideal for audit and planning purposes.

## Room to grow your business

PowerVault NX400's efficient file sharing is packaged in a small, 1U form factor, allowing extra room in your rack for other systems and components. Plus, its maximum 16TB<sup>1</sup> capacity allows plenty of space to grow files and shares—designed so you have room to scale your business. You can also grow the size of your collaborative namespace by joining multiple NX400 systems together using Dell Fluid File System (FluidFS), an enterprise-class distributed file system. FluidFS removes the scalability limitations associated with traditional file systems and enables NX400 to support both scale-out and scale-up capacity expansion.

## Simple deployment and management

Avoid the hassle of building a file server from scratch. PowerVault NX400 is optimized for storing, sharing and protecting files, and is integrated and ready to go out of the box. In fact, PowerVault NX400 can be ready to share files within minutes.

Take full advantage of the Initial Configuration Tasks wizard to streamline the setup process. Also, there is no need to buy additional Client-Access Licenses (CALs) for each user you add to your NX400. Support for multiple users is already built into this file-sharing system.

## Windows Storage Server 2012 feature enhancements

Dell integrates the best of our PowerEdge servers with Windows latest Storage Server OS, designed to improve reliability and performance. Windows Storage Server 2012 has enabled the Server Message Block 3.0 (SMB3.0) protocol, which can improve performance with multichannel failover and is designed to increase the reliability of application-specific capabilities for Microsoft SQL Server and Hyper-V. Additional data management optimization is achieved with thin provisioning, deduplication and compression to optimize capacity allocation on the NAS. If you are using this in a remote office, then the new BranchCache feature can be utilized to improve branch office connectivity on low speed, high-latency links.

Affordable entry-level storage harnessing the innovations of Windows Storage Server 2012

\*SIS (Single Instance Storage) is not available on the Workgroup edition

Features	PowerVault NX400														
Operating system	Windows Storage Server 2012 (Standard Edition and Workgroup Edition)														
File access protocols	CIFS, NFS, FTP, SMB3.0, SMB Direct (RDMA)														
Types of data	File and block														
Form factor	1U rack-mount system														
Processors	Intel® Xeon® processor E5-2403 (4 core) 10M cache or E5-2420 (6 core) 15M cache														
Memory <sup>2</sup>	8GB or 16GB														
Internal storage	Always four (4) 3.5" internal drives that must be identical in capacity and type (NL-SAS or SATA)														
Max internal capacity	12TB raw (with 3TB NL-SAS)														
Drives supported	SATA (7.2K): 500GB, 1TB, 2TB NL-SAS (7.2K): 1TB, 2TB, 3TB														
Slots	2 PCIe slots: One x8 PCIe slot with x4 bandwidth, half-length, half-height One x16 PCIe slot with x16 bandwidth, half-length, full-height														
RAID factory options	RAID 5														
RAID custom options	0, 1, 5, and 10 with the PowerEdge RAID Controller (PERC) H310 and 0, 1, 5, 6, and 10 with PERC H710														
RAID controller	PERC H310 or H710 (internal drives) or H810 (optional for external drives)														
Availability	Hot-plug hard drives, hot-plug power														
Cluster support	No														
Management	Dell OpenManage™ featuring Dell Management Console, iDRAC 7 Enterprise or Windows Server Management interface														
Data protection features	SIS, DFS-R, snapshots (VSS), FCI														
Chassis	<table border="0"> <tr> <td>Height</td> <td>42.8 mm (1.68 inch)</td> </tr> <tr> <td>Width</td> <td></td> </tr> <tr> <td>    With rack latches</td> <td>482.4 mm (18.99 inch)</td> </tr> <tr> <td>    Without rack latches</td> <td>434.0 mm (17.08 inch)</td> </tr> <tr> <td>Depth (excludes bezel)</td> <td>607.0 mm (23.9 inch)</td> </tr> <tr> <td>Weight (maximum)</td> <td>19.3 kg (42.55 lb)</td> </tr> <tr> <td>Weight (empty)</td> <td>16.33 kg (36 lb)</td> </tr> </table> <p>Standard redundant cooling Hot-plug hard drives Hot-plug redundant power Hot-plug redundant cooling ECC memory</p>	Height	42.8 mm (1.68 inch)	Width		With rack latches	482.4 mm (18.99 inch)	Without rack latches	434.0 mm (17.08 inch)	Depth (excludes bezel)	607.0 mm (23.9 inch)	Weight (maximum)	19.3 kg (42.55 lb)	Weight (empty)	16.33 kg (36 lb)
Height	42.8 mm (1.68 inch)														
Width															
With rack latches	482.4 mm (18.99 inch)														
Without rack latches	434.0 mm (17.08 inch)														
Depth (excludes bezel)	607.0 mm (23.9 inch)														
Weight (maximum)	19.3 kg (42.55 lb)														
Weight (empty)	16.33 kg (36 lb)														
Rack support	Sliding ReadyRails™ for 4-post racks Static ReadyRails™ for 4-post & 2-post racks														
AC power/max current	Redundant, 550W (Platinum) Voltage (100V~240V)														
Regulatory	Regulatory model: E18S Regulatory type: E18S001  Product safety, EMC and environmental datasheets Dell regulatory compliance home page Dell and the environment														

<sup>1</sup>TB equals 1 trillion bytes; total accessible capacity varies depending on operating environment.

<sup>2</sup>GB means 1 billion bytes; total accessible capacity varies depending on operating environment.

Learn more at [Dell.com/PowerVault](http://Dell.com/PowerVault)

