



DELL POWERSHIELD STORAGE COMPARISON CHART

BLOCK STORAGE

	PowerVault MD3000i	PowerVault MD3000	PowerVault MD1120	PowerVault MD1000
Features				
Drives	15	15	24	15
Maximum Drives	45	45	Controller Dependent	Controller Dependent
Drive Type	3.5 inch 3GB SAS and SATA II	3.5 inch 3GB SAS and SATA II	2.5 inch 3GB SAS	3.5 inch 3GB SAS and SATA II
Maximum Cache	1GB (512MB per controller)	1GB (512MB per controller)	Controller Dependent	Controller Dependent
Host Interface	4x 1GB Ethernet	4x 4GB SAS	2x 4GB SAS	2x 4GB SAS
Maximum Hosts	16	4	Controller Dependent	Controller Dependent
Maximum HA Hosts	16	2	Controller Dependent	Controller Dependent
Form Factor	3U Rack	3U Rack	2U Rack	3U Rack
Management Software	MD Storage Manager	MD Storage Manager	OpenManage™ Storage Management	OpenManage™ Storage Management
Optional Premium Software Features	Snapshot, Virtual Disk Copy	Snapshot, Virtual Disk Copy	N/A	N/A
Server Support	Heterogeneous x86	Dell PowerEdge only	Dell PowerEdge only	Dell PowerEdge only
OS Support	Microsoft Windows, Linux	Microsoft Windows, Linux	Controller Dependent	Controller Dependent



MD3000 and MD1000

Competitive Landscape MD range of products compete against HP MSA2000 of products.

FILE STORAGE

	NX3000 NAS
Pic	
Operating System	Microsoft Windows Windows Storage Server 2008 Standard Edition
File Access Protocols	CIFS,NFS,FTP
Block Access Protocols	Optional iSCSI
Form Factor	2U Rack
Number of Processors	1 or 2
Processors Supported	Intel Xeon 5500
Internal Storage	6 Drives
Max Internal Capacity	6TB Raw (SATA) 3.5" SATA (7.2K) 160GB, 500GB, 750GB, 1TB
Drives Supported	3.5" SAS (10K): 400GB, 600G 3.5" SAS (15K): 73GB, 146GB, 300GB, 450GB 3.5" Near-Line SAS (7.2K): 500GB, 750GB, 1TB
Expandability	Optionally expand with MD1000 or MD3000 (or) Implement as gateway to PowerVault MD3000i or EqualLogic™ or Dell EMC arrays
RAID Type	HW RAID Level: 0,1,5,6,10
Network Connectivity	Gigabit Ethernet: 2 x RJ45 Connectors, both supporting TCP/IP offload. Optional add-in NICs including 10BaseT
Power	Two hot-plug 870W PSU's
Availability	Hot-plug hard drives Hot-plug redundant power Hot-plug redundant cooling
Management	Dell Management Console
Remote Management	Optional iDRAC Enterprise
Data Protection Features	SIS, DFS-R, Snapshots*

* Dependant on external storage array feature

DATA PROTECTION / TAPE

	PV100T	PV100T - DAT	PV110T - LTO 2-L	PV110T - LTO 3	PV124T Tape Autoloader	PowerVault TL2000	PowerVault TL4000	ML6010	ML6020	ML6030	ML6000 EM	32U (ML6030+ML6000EM)	6030+ 2x ML6000		
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Great For	Backing up entry-level servers with low capacity Backward read compatibility with previous DDS-3 and DDS-4 formats for investment protection		Backing up servers with up to 400GB of data Data archiving with the use of WORM (Write Once, Read Many) media Interchanging media cartridges with tape libraries		Consolidating multiple or remote application server backup into a rack-optimized 2U form factor Busy administrators who demand unattended, automated backup	Entry-level, LAN backup, iSCSI environments and archiving	Mid - Sized, LAN backup, iSCSI environments and archiving	Versatile, enterprise-level SAN backup with modular scalability					ML6030		
Drive Type	Travan 40	DAT 72	LTO 2	LTO-3	LTO-2-L	LTO-3	LTO-3	Easy to use library that is a great alternative to tape autoloaders			Customers who require proactive monitoring to reduce overall management time				
Number of Drives	1	1	1	1	1	1	1	LTO-3, LTO-4			LTO-3, LTO-4				
Number of Cartridges	1	1	1	1	8 or 16	24	48	1 or 2	Up to 4	1 to 6	1 to 10	1 to 4	1 to 14	1 to 18	
Import/Export Slots	N/A														
Form Factor	5.25" Half Height		5.25" Full Height		2U		2U	4U	6	14U	23U	9U	32U	41U	
Chassis	Internal		Internal or External		Desktop or Rackmount		Rackmount (Desktop Conversion Kit Included)		Rackmount Only						
Media	Travan 40	DDS-3, DDS-4, DAT 72	LTO 2	LTO-3, LTO-3 WORM	LTO-1, LTO-2	LTO-2	LTO-1(read only) 3(+WORM) LTO-2(read only) 4(+WORM)	LTO-1 (read only), LTO-2, LTO-3 WORM, LTO-4, LTO-4 WORM			LTO-1 (read only), LTO-2, LTO-3, LTO-3 WORM, LTO-4, LTO-4 WORM				
Max Capacity	Up to 40GB	Up to 72GB	Up To 200Gb	Up To 400Gb	Up To 3.2TB	Up to 6.4TB	Up to 12.8TB	Up to 19.2TB	Up to 38.4TB	32.8TB	106.4TB	180TB	73.6TB	253.6TB	327TB
Max Backup Rate	Up to 14.4GB/hr	Up to 25.2GB/hr	Up To 24MB/s	Up To 80MB/s	24MB/Sec	Up To 80MB/Sec	120MB/Sec	240MB/s with 2 Drives 14.4GB/min 864GB/hr	480MB/s with 4 Drives 28.8GB/min 1.73TB/hr	240MB/s with 2 Drives 14.4GB/min 864GB/hr	720MB/s 43.2GB/min 4.320GB/hr	1,200MB/s 72GB/min 4.320GB/hr	480MB/s 28.8GB/min 1.728GB/hr	1,680MB/s 100.8GB/min 6.048GB/hr	2,160MB/s 129.6GB/min 7.776GB/hr
Interface	IDE	ULTRA2 SCSI LVD	Ultra160 SCSI LVD	Ultra160 SCSI LVD	Ultra 160 LVD or 3GB SAS			Ultra 160 LVD or 4Gb/s FC or 3GB SAS			Ultra 160 LVD SCSI or 4Gb/s FC or 3Gb SAS				
Software Supported	Support leading backup applications from Yosemite™, Symantec Backup Exec™, and CommVault Galaxy™														
Library Managed Encryption	N/A														
	Available on PowerVault ML6000, PowerVault TL4000, and PowerVault TL2000 configured with LTO-4 drive(s)														



Notes Drive type configurable at point of sales from Dell. Can not be changed at APOS

Notes TL range support Direct iSCSI-to-SAS bridge for direct attach to Dell MD or EQL iSCSI SAN

RD1000 114x RD1000

DL2000 Symantec Backup Exec DL2000 CommVault

DATA PROTECTION / DISK

Pic		
	Great For	Data protection for entry servers and workstations. Rugged, removable disk media offering increased portability and durability over standard external USB-based hard drives.
	Drive Technology	RD1000
	Internal/External	External
	Number of Drives	1
	Media	Removable Disk Drive
	Native Capacity	80,160,320,500GB
	Back Up Rate	25 MB/s
	Security	None
	Software Supported	Dell Tape Backup Software: Yosemite TapeWare, Symantec Backup Exec, CommVault Galaxy
OS Supported	Microsoft Windows Server 2003 and 2008, Red Hat Enterprise Linux 4, Red Hat Enterprise Linux 5, SUSE Linux Enterprise Server 9 and 10	

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	Detail	Based on PowerEdge Server with MD1000 JBOD
	Great For	PowerVault DL2000 solutions come factory installed with Symantec® Backup Exec™ or CommVault® Simpana® software, plus an easy wizard-driven setup and management utility. Integrated automated dynamic disk provisioning configures and sets up the disks for immediate use.
	Value Series	HARDWARE - DL2000 Specs 1 processor (Quad-Core Intel® Xeon® E5410, 2x6MB Cache, 2.33GHz, 1333MHz FSB) and 8GB RAM
	Performance Optimized	2 processor (Quad-Core Intel® Xeon® E5410, 2x6MB Cache, 2.33GHz, 1333MHz FSB), 16GB RAM and DRAC
	Internal Storage	2 x 250GB, 7200 RPM, SATA II drives in hardware RAID 1 configuration
	External Storage Connectivity	Available through 1 or 2 PERC 6/E
	Tape Connectivity	SAS 5/E HBA; U320 SCSI HBA; Fiber Channel HBAs: Emulex or QLogic HBAs
	Networking	Dual-embedded Broadcom® NetXtreme II™ 5708 Gigabit Ethernet NIC with fail-over and load balancing.
	Form Factor	DL2000 is 2U
Operating System and Backup Software	Windows® Server 2008, Standard, x64 and Factory Installed Symantec Backup EXEC	
Hard Drives	HARDWARE - MD1000 pluggable 3.0 Gbps hard drives	
Drives Supported	SATA II: 1TB	
Maximum Scalability	a total of 12 MD1000s shelves using two PERC cards in a DL2000	
Maximum Usable Capacity	Up to 144TB of usable space (180TB of raw disks)	
Maximum Usable Capacity	Up to 144TB of usable space (180TB of raw disks)	
Form Factor	MD1000 is 3U - DL2000+MD1000 = 5U	