

PowerVault 136T Tape Library



Providing enterprise environments with a fully automated backup solution, the Dell™ PowerVault™ 136T Tape Library delivers outstanding performance, simplified manageability, robust reliability and incredible investment protection.

The Right Solution for You

The PowerVault 136T Tape Library is designed to address increasing storage capacities and decreasing backup windows for a wide variety of IT environments. It is offered with the latest tape technology so you can choose the configuration that best meets your organization's needs. Take advantage of the high performance of Linear Tape Open™ (LTO) technology or choose the backwards-read compatibility with previous DLT formats offered by the latest Super Digital Linear Tape (SDLTape™) technology.

And the PowerVault 136T provides easily expandable backup space with room for as many as 72 LTO cartridges or 60 SDLT cartridges. As a result, you can create a powerful configuration that offers a maximum native storage capacity of up to 28.8TB¹ (LTO-3), 14.4TB¹ (LTO-2) or 9.6TB¹ (SDLT 320).

High Performance Automated Backups

To help meet escalating demands for data protection and disaster recovery, the PowerVault 136T offers an automated solution for both Local Area Network (LAN) and Storage Area Network (SAN) environments. By automating LAN and SAN-based backups, the PowerVault 136T provides the flexibility to back up and restore data at high performance speeds.

The PowerVault 136T also allows you to keep pace with shrinking backup windows. With the ability to scale up to six LTO or SDLT tape drives, the tape library can reach native backup speeds as high as 1.7TB/hr with six LTO-3 drives, 756GB/hr with six LTO-2 or 348GB/hr with six SDLT 320 drives.

Furthermore, the tape library is available in a rack-mountable or a stand-alone model to meet a wide variety of needs. And the 14U form factor can include an embedded 2Gb/s fibre channel router for high performance SAN backups.

Simplified Manageability

The PowerVault 136T Tape Library allows you to easily manage the backup process from anywhere. With the embedded remote management card, you can access and monitor the library with a Web browser. This card enables you to perform remote diagnostics, update library drives and library controller firmware, retrieve Service Action Code (SAC) errors, and perform pick and place functions. Library, drive and mailbox activity can also be managed locally with an easy-to-use Liquid Crystal Display (LCD) panel.

Additionally, with the tape library's mailbox feature, you can import and export tape cartridges while backup jobs are in progress. Consequently, you do not have to re-inventory all tape cartridges in the library and backup jobs run more efficiently.

Investment Protection

The PowerVault 136T provides excellent investment protection by incorporating easily into your environment and offering a variety of options. For example, you can move from an automated LAN-based backup solution to a SAN-based system simply by adding the 2Gb/s fibre channel router. In addition, the PowerVault 136T can be ordered with one tape drive and later scaled up to six drives as your backup environment grows. And because the tape library is designed to tolerate 1,000,000 mean swaps before failure, its reliability and longevity help protect your investment.

The PowerVault 136T tape library is a powerful automated backup solution with the flexibility and performance to suit your unique environment.



PowerVault 136T

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



PowerVault 136T Tape Library

DELL ENTERPRISE SERVICES

By utilizing the proven advantages of our direct model, including tailored service and support, low cost and a single point of contact, Dell Services can provide you with fast, effective, affordable service offerings at any point in your IT process. By doing so, we offer a combination of bundled best practices and tailored solutions that work together to provide maximum value to you. Whether you need support, deployment, training and certification programs, or professional consulting services, individually or bundled as a total package, Dell promises to be your single point of contact at all times.

Professional Services

Dell Professional Services enables Dell customers to optimize ROI by utilizing complex technology through the design, development and deployment of innovative, robust and scalable business-critical solutions. With each engagement, we utilize our proven methodology and project management expertise to understand your business objectives, design plans that are flexible to adapt to your current environment and then deliver results.

Deployment Services

We bring you deployment assistance that delivers true value from beginning to end. Dell can tailor systems to our customers' specifications and reduce redundancy and time by customizing the hardware and software configuration during the initial system-build. We can manage the delivery, installation and disposal of your assets with the same eye for efficiency.

Training and Certification

Our approach to Training and Certification allows you to outsmart your competitors – not outspend them – with industry-standard learning across Dell hardware and industry-standard software. Dell can assist you wherever you need us, whether on-site, on-line or in a classroom setting, to help your organization take full advantage of information technology.

Enterprise Support Services

Technology is a significant investment, and it pays to have a partner who can help you minimize costly downtime. Through our Premier Enterprise Support Services (PESS) offerings, Dell provides tiered support service packages with the flexibility to customize the offering to meet your specific needs across a wide range of computing environments. With proactive and reactive support options which include hardware and software support with varied response levels, account management and remote resolution, Dell provides support solutions that meet your needs, cost-effectively.

Services vary by region. For more information on the available services in your area, please visit www.dell.com.

FEATURES	SDLT 320	LTO-2	LTO-3
LIBRARY CONFIGURATIONS			
Cartridge capacity	15 to 60 cartridges	18 to 72 cartridges	18 to 72 cartridges
Drive count capacity	1 to 6 drives	1 to 6 drives	1 to 6 drives
Mailbox capacity	1 or 10 cartridges	1 or 12 cartridges	1 or 12 cartridges
Magazines	Up to 12 5-slot magazines	Up to 12 6-slot magazines	Up to 12 6-slot magazines
Barcode reader	Standard	Standard	Standard
NATIVE CAPACITIES AND PERFORMANCE			
Drive type	SDLT 320	LTO-2	LTO-3
Drive cartridge capacity	160GB ¹	200GB ¹	400GB ¹
Library capacity	9.6TB ¹	14.4TB ¹	28.8TB ¹
Transfer rate per drive	16MB/s	35MB/s	80MB/s
Backup rate per drive	58GB/hr	126GB/hr	288GB/hr
File access time	70 seconds (avg.)	49 seconds (avg.)	70 seconds (avg.)
Media	SDLTape™	LTO™ Ultrium™ 2	LTO Ultrium 3
OPERATIONS			
Cartridge change	10 seconds		
Inventory time	Less than 60 seconds		
Operator panel	Password-protected, context-sensitive LCD menu display with backlight		
Remote management	Integrated web server (Remote Management Unit – RMU)		
Interface	LVD SCSI or optional integrated 2Gb/s fibre channel router		
SCSI connection	68-pin micro-D		
RELIABILITY			
Hard error rate	1 in 10 ¹⁴ bytes per permanent read error		
Tape shelf life	30 years minimum (at 20° C, 40% RH)		
Mean swaps between failures	Greater than 1,000,000		
Mean time between failures	Greater than 250,000 power on hours		
Mean time to repair	Less than 30 minutes		
Power	Redundant power supplies available		
Diagnostics	Auto calibration, auto inventory, built-in-test (BIT), SNMP alerts via RMU		
PHYSICAL			
Dimensions (H x W x D)			
Stand-alone	25" x 18.9" x 28.8" (63.5cm x 48.0cm x 73.2cm)		
Rack	14U: 24.5" x 17.4" x 28.88" (64.2cm x 44.2cm x 73.2cm)		
Weight	250 lbs. (with six drives)		
ENVIRONMENTAL			
Electrical	100-240V		
Altitude	30,000 ft. (9,144 m)		
Temperature	10° C to 40° C operating		
Humidity	20-80% non-condensing (operating)		
British thermal units	1350 BTU/hour (maximum power consumption for fully populated library)		

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