

Dell PowerVault 160T Tape Library



The Dell™ PowerVault™ 160T tape library is an easy-to-manage, scalable enterprise library designed for consolidated backup in data-intense Storage Area Network environments.

Backup in the Real World

SAN backup systems are taxed with ever-increasing data loads. Many organizations have instituted strict policies that require multiple months of full backups to be kept online in the event of catastrophe. These long-term retention policies eat up storage capacity and consume a lot of space within a tape library. More and more, customers demand tape libraries that will allow capacities to scale easily without impacting performance and adding considerable cost.

Impressive Design

The PowerVault 160T delivers true enterprise-class backup and restore capabilities for organizations that wish to consolidate and automate their data protection processes, particularly in a SAN environment. Configured with Fibre Channel tape drives, the PowerVault 160T tape library's advanced architecture allows tape drives to be directly connected to a Fibre Channel switch. Furthermore, PowerVault 160T utilizes a single robotic mechanism—even as multiple Expansion Modules are added—helping to reduce the cost of ownership as storage requirements grow. And housed within a standard 19-inch footprint, the tape library fits in line with Dell racks to help you make the most of your storage resources.

Superior Scalability

Designed to give you exactly the storage capacity you need when you need it, the PowerVault 160T is comprised of a Control Module that can house up to 264 tape cartridges and up to 12 Ultrium™ 2 Linear Tape Open™ (LTO-2) drives. An Expansion Module allows an additional 360 pieces of tape media and up to twelve more tape drives. Up to three Expansion Modules can be added to a single Control Module, allowing a total of 48 tape drives and an impressive 1,344 pieces of tape media. By activating software, you have the flexibility to grow your storage capacity in slot increments. And Dell offers no-touch upgrades that enable you to increase backup capacity quickly and easily.

Reliability and Availability

An effective backup system must be reliable and keep data readily available. That's why the PowerVault 160T is built with reliability features such as redundant power supplies to keep the library operating at full performance even if one power supply fails. Additionally, the PowerVault 160T keeps you informed of potential problems before they can occur. If an issue arises, alerts are automatically created and sent to the Library Management Console client, your e-mail inbox, or directly to the service desk. And serviceability is simplified with a service ticket function that enables you to track and report issues and resolutions.

Centralized, Easy Management

A Library Management Console provides a single view of all components, such as robotics, drives and network connectivity. It can be operated both locally and remotely through a simple graphical user interface and it communicates with Dell/EMC® VisualSAN® Management software. Native partitioning allows multiple tape drives and slots to be combined to create up to four virtual tape libraries. User-friendly Wizards enable library resources to be assigned when and where needed, and partitions to be expanded as required. This helps reduce overall space and management costs associated with tape backup.

The PowerVault 160T tape library delivers capacity-dense, automated SAN backup capability with incredible scalability and simple management features designed to keep you in control of your rapidly expanding data backup needs.



PowerVault 160T

Exceptional performance. Easy as **DELL™**

Visit www.dell.com for more information.



Dell PowerVault™ 160T Tape Library

DELL ENTERPRISE SERVICES

By leveraging the proven advantages of our direct model, including tailored service and support, low cost and a single point of accountability, Dell Services can provide you with fast, effective, affordable service offerings at any point in your IT process. Whether you need professional consulting, training and certification, deployment, or support services, Dell promises to be your single point of accountability at all times.

Professional Services

Dell Professional Services enables Dell customers to optimize ROI by leveraging 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 the desired results.

Deployment Services

We bring you deployment assistance that delivers true value from beginning to end. Dell can tailor systems to our customers' specifications by customizing the hardware and software configuration during the initial system-build to reduce redundancy and time. 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 Enterprise Support Services 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.

FEATURES

DESCRIPTION

Tape Drives	Technology: Ultrium 2 Linear Tape Open (LTO-2) Cartridge Capacity: 200GB (native), 400GB (compressed) Backup Rate: 126GB/hr per drive (native), 252GB/hr per drive (compressed)
Maximum Library Configuration	One Control Module with three Expansion Modules
Number of Drives	Control Module: 1-12 Expansion Module: 0-12 Maximum Library Configuration: 48
Number of Cartridges	Control Module: 96, 180 or 264 Expansion Module: 180 or 360 Maximum Library Configuration: 1,344
Maximum Backup Capacity	Control Module: 52.8TB (native), 105.6TB (compressed) Expansion Module: 72TB (native), 144TB (compressed) Maximum Library Configuration: 269TB (native), 538TB (compressed)
Maximum Backup Rate	Control Module: 1.5TB/hr (native), 3.0TB/hr (compressed) Expansion Module: 1.5TB/hr (native), 3.0TB/hr (compressed) Maximum Library Configuration: 6.0TB/hr (native), 12.0TB/hr (compressed)
Exchanges Per Hour (EPH)	Control Module: 265 exchanges per hour Maximum Configuration: 180 exchanges per hour (one control module plus three expansion modules)
Drive Interface	Native Fibre Channel Interface
Library Interface	Native Fibre Channel Interface
Inventory Speed	100 cartridges in 20 seconds
Configuration	Auto-discovery and auto-calibration for installed/added components (modules, tapes, drives, magazines, etc.)
Import/Export	Up to 24 LTO-2 cartridges using removable magazines
Electrical	Control Module: 100-240 VAC, 30 A (Max) Expansion Module: 100-240 VAC, 30 A (Max)
Temperature	59°F – 89.6°F (15°C – 32°C)
Humidity	15 – 75%
Altitude	10,000 ft.
BTU/Heat Dissipation	Control Module: Minimum (1 drive): 0.375 kwh (1,280 BTU/hr) Maximum (12 drives): 1.32 kwh (4,508 BTU/hr) Expansion Module: Minimum (0 drive): 0.0 kwh (0 BTU/hr) Maximum (12 drives): 0.99 kwh (3,381 BTU/hr) Maximum Configuration (48 drives): 4.3 kwh (14,651 BTU/hr)
Library MCBF	Greater than 2,000,000
Library MTTR	20 minutes
Power	2N power supplies with fail-over
Diagnostics	Embedded monitoring of major subsystems, self-diagnostic procedures, and policy-based e-mail and pager alerts to system administrators and Dell Service and Support
Module Upgrade	Any storage module may be added in two hours; customer-installable components include drives, fans, power supplies, slot upgrades
Control Module	Dimensions (H x W x D): 77.4" x 24.2" x 37.4" (1,965mm x 615mm x 950mm) Weight (fully configured): 899 lb (408.6 kg) Distributed Load: 139.1 lb/ft ² (680.4 kg/m ²) Point Load: 73.8 lb/in ² (5.2 kg/cm ²)
Expansion Module	Dimensions (H x W x D): 77.4" x 23.6" x 37.4" (1,965mm x 600mm x 950mm) Weight (fully configured): 885 lb (402.3 kg) Distributed Load: 140.9 lb/ft ² (689.6 kg/m ²) Point Load: 72.7 lb/in ² (5.1 kg/cm ²)

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