Small size, large capacity, substantial performance

Dell PowerVault 122T

Now featuring Ultrium 2 LTO (LTO-2) tape backup technology, the Dell PowerVault 122T tape autoloader offers enterprise-class performance and capacity in a space-conscious package

More than ever, both small and large enterprises are turning to automated tape backup technology to reliably preserve mission-critical data while making the most of limited IT resources. The versatile Dell™ PowerVault™ 122T tape autoloader helps deliver powerful, dependable data protection at an attractive price for organizations looking to simplify operations. Automatic tape cartridge swapping during backups can help free up administrators for more important tasks. Furthermore, automation has the potential to enhance the reliability of tape backups by reducing opportunities for human error. For example, by using a robotic mechanism to feed tape cartridges in and out of the drive instead of performing this task by hand, organizations can help eliminate tape mix-ups that can lead to valuable data being overwritten.

The PowerVault 122T delivers the benefits of tape automation in a rack-optimized 2U form factor that provides considerable reliability, with a mean time between failures (MTBF) of more than 100,000 hours. The autoloader is designed to simplify backup procedures by providing an intuitive integrated LCD control panel. An optional barcode reader further streamlines backup processes by enabling administrators to easily locate specific cartridges.

Second-generation LTO road map leads to capacity and performance

The PowerVault 122T is optimized for Linear Tape-Open™ (LTO®) tape drive technology, providing enterprise-class performance and capacity. The autoloader has long been available with a single, powerful Ultrium® 1 LTO (LTO-1) tape drive for superb reliability and performance–and now the PowerVault 122T delivers the benefits of Ultrium 2 LTO (LTO-2) performance and capacity.

Based on the four-generation LTO road map, LTO-2 drives and cartridges are designed to provide exceptionally high data throughput rates and capacity. Each successive generation of the road map is designed to increase LTO speed and capacity to help enable organizations to back up ever-increasing quantities of data in spite of shrinking backup windows.

When equipped with an LTO-2 drive, the PowerVault 122T provides a compressed data transfer rate of up to 70 MB/sec. This data transfer speed gives the autoloader a compressed backup rate of up to 252 GB/hour[1]–the fastest configuration available for the PowerVault 122T–to enable shorter backup windows.

Each LTO-2 cartridge stores up to 400 GB[1] of compressed data, and the PowerVault 122T has slots for up to eight tape backup cartridges, providing the autoloader with a maximum compressed storage capacity of 3.2 TB.[1] High-capacity LTO-2 cartridges have the potential to help Dell customers meet their backup requirements more cost-effectively through the use of fewer cartridges.

Backward compatibility helps ease migration

When considering a migration to a different tape drive technology, enterprises of any size must consider their migration path and investment protection. The LTO road map is designed to provide backward read and write compatibility with previous-generation LTO technology. For enterprises that require tape backup performance and power exceeding the capabilities of LTO-1 technology, this backward compatibility helps ease the transition to second-generation LTO drives and cartridges by allowing organizations to upgrade to fast, high-capacity LTO-2 drives without having to replace media at the same time. Such convenience is yet another factor that makes the PowerVault 122T with LTO-2 technology an exceptional value for many enterprise tape backup scenarios. Additionally, full compatibility with leading tape backup software ensures seamless integration into the data center.

For more information:

In U.S.: **www.dell.com**
In Europe: **www.euro.dell.com**
In Asia: **www.dell.com/ap**

[1] Assumes 2:1 compression. Data compression rates may vary depending on settings, user environment, and applications. For more information, visit www.dell.com/storage.