

## Quantum DLT-S4 Tape Drive



### FEATURES AND BENEFITS

- Unprecedented 800GB native and 1.6TB compressed capacity
- Save time and money with 50% less tape cartridges to manage than other performance drives
- High performance compressed transfer rate of 120MB/sec
- Market-proven DLT® technology with over 3.3 million drives and 130 million cartridges shipped
- DLTSage™ Monitoring, Diagnostics and Reporting for easy manageability of your data
- DLTSage Tape Security makes the DLT-S4 the only tape product that protects data if the media is lost or stolen
- Twice the capacity of current drives delivers the lowest cost-per-gigabyte storage available in the market
- Backward compatibility to SDLT 600 and SDLT 320 for great investment protection
- Optimized for tiered storage, and delivers the highest density tape automation available

### Industry-Leading Capacity With Built-In Manageability

Quantum's newest performance tape drive delivers unprecedented capacity for storage-intensive applications and tiered-storage environments. Customers large and small face the challenges of rapid storage growth, decreasing budgets, data reliability and security compliance. Quantum addresses these challenges with a superior capacity drive at the lowest cost per gigabyte in the industry, coupled with management and security tools that surpass the competition. Introducing the DLT-S4 tape drive.

#### More Capacity For Your Money

The DLT-S4 offers 1.6TB of capacity – twice the capacity at the same price of any other performance drive in the market including LTO-3, making it a groundbreaking value. Imagine backing up remote offices or workgroups onto a single tape cartridge. The DLT-S4 makes it possible with the highest tape drive capacity ever, which means 50 percent fewer tape cartridges to manage than other performance drives. And with advanced manageability and security features built in at no additional cost, the DLT-S4 is a choice you can make with absolute confidence.

#### DLTSage™ for Superior Manageability and Security

The DLT-S4 comes with DLTSage manageability and security features that focus on your three core needs: the ability to easily manage your data, keep it safe and give you peace of mind. These award-winning features include:

- DLTSage Monitoring for proactive health checks of the drive and media, enabling users to efficiently manage tape storage and perform preventative maintenance
- DLTSage Diagnostics for an easy-to-use toolbox of drive and media tests and statistics for fast problem resolution
- DLTSage WORM (Write Once, Read Many) for archival functionality on standard media to ensure data integrity and support regulatory compliance efforts
- DLTSage Tape Security for the ability to create electronic keys to prevent unauthorized access to data on tape cartridges in the event they are lost or stolen

#### DLT-S4 Sets The Standard

Quantum's exclusive DLTSage features and Backup Exec™ QuickStart software come standard with the DLT-S4 drive and provide significant value to customers over competitor offerings.



## Quantum DLT-S4 Tape Drive

### About Quantum

Quantum, a global leader in storage, delivers highly reliable backup, recovery and archive solutions that meet demanding requirements for data integrity and availability with superior price/performance and comprehensive service and support. Quantum is the world's largest supplier of tape drives, and its DLT®, LTO Ultrium, DAT/DDS and Travan-based technologies set the standards for tape backup, recovery and archive of business-critical data for the small business to mid-range enterprise. Quantum offers the broadest portfolio of tape autoloaders and libraries and is one of the pioneers in the disk-based backup market, providing solutions that emulate a tape library but are optimized for backup and recovery.

### QUANTUM DLT-S4 SPECIFICATIONS

#### Performance

<b>Sustained Transfer Rate</b>	
Native	60MB/sec, 216GB/hr
Compressed	120MB/sec, 432GB/hr (2:1 ratio)
<b>Burst Transfer Rate</b>	
Ultra 320 SCSI	320 MB/sec (max)
Fibre Channel	400 MB/sec (max)
<b>Formatted Capacity</b>	
Native	800GB
Compressed	1600GB (2:1 ratio)
<b>Cartridge Load Time</b>	
To BOT (Formatted tape)	20 sec
To BOT (unformatted tape)	65 sec
Average File Access Time	70 seconds
Interfaces	Ultra 320 SCSI / 4Gb Fibre Channel in tape automation

#### Tape Format

Recording Format	1280 track serial serpentine
Recording Density	256K bits per inch
Track Density	2988 tracks/inch
Encoding Method	Partial Response Maximum Likelihood (PRML)
Data Compression	DLZ

#### Manageability

DLTSage Support	Full
xTalk Management Console	Cross-platform interface: Windows, HP-UX, Solaris, Linux
DLTSage Tape Security	Electronic key data protection
DLTSage Dashboard	Windows

#### Reliability

MTBF (hours)	250,000 @ 100% duty cycle
Media Durability	5,000 load/unload/calibrates
Uncorrected Error Rate	1 x 10 <sup>17</sup> bits read
Undetected Error Rate	1 x 10 <sup>27</sup> bits read
Warranty	3 years limited with Rapid Exchange



#### Physical Specifications

Form Factor	Internal	Tabletop	Rackmount
Width (in/mm)	5.75/146.05	6.88/174.75	16.8/426.2
Height (in/mm)	3.25/82.55	6.48/164.46	3.4/87.1
Length (in/mm)	8.37/212.6	12.6/320.04	22.4/568.5
Weight (lbs/kg)	5.25/2.38	13.81/6.27	54/24.5

#### Environmental Limits

<b>Operating</b>	
Temperature	50° to 104° F (10° to 40° C)
Humidity	20% to 80% (non-condensing)
Altitude	-500ft. to 30,000 ft. (-152.4 m to 9,144 m)
<b>Non-Operating</b>	
Temperature*	-40° to 151° F (-40° to 66° C)
Humidity	10% to 95% (non-condensing)
* Excluding media	

#### Power

Voltage	+5V, +12V
Power Consumption	30 W typical streaming/writing

#### Media Compatibility

DLTape® S4 media	(read/write) 800 GB native capacity
Super DLTape® II media	(read) 300GB native capacity
Super DLTape® I media	(read) 160GB native capacity
Cleaning Tape	SDLT Cleaning Tape

#### Physical Specifications (Dimensions—inches (mm))

Width	4.16" (105.6mm)
Length	4.15" (105.3mm)
Height	1.0" (25.4mm)
Weight	7.85 oz. (222.5 g)
Color	Black

#### Media Archive Storage

>30 years

# Quantum®



For more information,  
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DS00226 Feb 2006