



Quantum SDLT 220

Super DLTape™ Technology – Extending the Standard

THE MARKET

In the last several years, data backup needs have exploded, driven by the incredible growth of the Internet. As the company that pioneered DLTape™ technology, Quantum continues to lead the way with the next generation Super DLTape™ system for backup and archive storage in mid-range UNIX and Windows NT systems for tape library automation and large corporate departments.

A MAJOR ADVANCE IN CAPACITY AND PERFORMANCE

Building on the successful DLTape platform and magnetic tape technology, Quantum extends the standard with embedded, tabletop and library versions of Super DLTape drives, with 110 gigabytes (GB) of storage capacity and an 11 megabytes-per-second (MB/sec.) sustained data transfer

rate (native mode). All versions are backward read compatible with DLT 4000, DLT 7000, and DLT 8000 drives using DLTape IV cartridge media. The embedded and tabletop versions are available with SCSI HVD and LVD interfaces for backup and archiving mid-range servers, high-end workstations and library automation systems – with a non-backward read-compatible version available for customized library automation applications.

In Super DLTape drives and cartridges, Quantum pioneered numerous technical innovations: Laser Guided Magnetic Recording, Pivotal Optical Servo, Magneto-Resistive Cluster heads, a new high-efficiency Partial Response Maximum Likelihood channel and Advanced Metal Powder media. All ensure that Quantum DLTape technology will continue as the industry-standard platform for

long-term scalability in future mid-range/enterprise storage, with more than 1 terabyte of storage capacity per data cartridge and up to a 100 MB/sec. data transfer rate (native uncompressed).

QUANTUM DLTape: QUALITY WITHOUT COMPROMISE

Quantum DLTape systems are recognized world wide as the industry standard, providing the complete investment protection available only from a company that has shipped over 1.5 million drives with more than 55 million cartridges installed. Good reasons why Quantum DLTape always means quality.

QUANTUM SDLT 220 FEATURES AND BENEFITS

Backward read compatible– Full backward read compatibility with DLTape IV cartridge media recorded on DLT 4000, DLT 7000, and DLT 8000.

Breakthrough recording technology– Laser Guided Magnetic Recording produces a highly scalable platform over multiple product generations

Dramatically higher storage capacity and performance – 110 gigabytes native capacity at 11 megabytes-per-second native transfer rate

Rock-solid reliability and data integrity– 30,000 hour recording head life, 1,000,000 pass media durability, 250,000 hours MTBF at 100% duty cycle



Quantum SDLT 220 Specifications

Performance

Sustained Transfer Rate (MB/sec)	
Native	11
Compressed	22 (2:1 ratio)
Burst Transfer Rate (MB/sec)	
SCSI Bus (max)	80
Formatted Capacity (GB)	
Native	110
Compressed	220 (2:1 ratio)
Cartridge Load Times (sec)	
To BOT (formatted tape)	12
To BOT (unformatted tape)	40
Average File Access Time (sec)	70
Interfaces Available	LVD, Ultra 2 SCSI HVD, Ultra SCSI

Tape Format Specifications

Recording Format	448 track serial serpentine
Recording Density	133 k bits per inch
Track Density	896 tracks per inch
Encoding Method	Partial Response Maximum Likelihood (PRML)
Data Compression	DLZ

Reliability

MTBF (hours)	250,000 @ 100% duty cycle
Media Durability	1,000,000 passes (17,850 uses)
Uncorrected Error Rate	1 x 10 ¹⁷ bits read
Undetected Error Rate	1 x 10 ¹⁷ bits read
Warranty (years)	3

Physical Specifications

Dimensions—inches (mm)

Embedded Drive	
Width	5.84 (148.34)
Length	8.35 (212.09)
Height	3.40 (86.36)
Weight—pounds (kg)	5 lbs 4 oz (2.38)
Table Top	
Width	6.9 (175.26)
Length	12.8 (325.12)
Height	6.3 (160.02)
Weight*—pounds (kg)	13 lbs 13 oz (6.27)

*Weights are dependent on configuration

Environmental Limits

Operating	
Temperature °F (°C)	50 to 104 (10 to 40)
Non-Condensing Humidity (%)	20 to 80
Altitude (ft. maximum)	-500 to 30,000
Non-Operating	
Temperature °F (°C)	-40 to 151 (-40 to 66) excluding media
Non-Condensing Humidity (%)	10 to 95

Power

Voltage (V)	+5, +12
Power Consumption (W)	26 (average read/write operation)

Media/Format Compatibility

Super DLTtape I	110 GB native capacity
DLTtape IV*	20, 35 and 40 GB native capacity

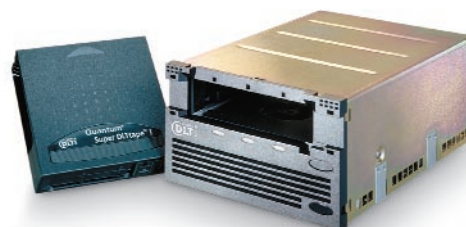
* SDLT 220 read only

Quantum Super DLTtape I Media Specifications

Width	0.498 inches
Length	1828 feet
Cartridge Dimensions	W 4.1 x L 4.1 x H 1.0
Shelf Life	More than 30 years with less than 10% loss in demagnetization (at 20°C and 40% non-condensing humidity)
Usage	Average 1,000,000 head passes in typical office/computing environment
Cartridge Housing Color	Green

Quantum Super DLTtape I Media Cartridges

Super DLTtape half-inch cartridges are backed by a limited lifetime warranty and are approved for use in all Super DLTtape drives.



The library version of the Quantum SDLT 220 Super DLTtape system



Quantum.
Super DLTtape

For more information about Quantum's quality products, call toll-free: 1-800-624-5545 in the U.S.A. and Canada, or visit www.quantum.com

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Specifications subject to change without notice.

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