



Super DLTtape™ Drives

## SDLT 220

### FEATURES AND BENEFITS

- **Backward read compatible:** The Quantum SDLT 220 is fully backward read compatible with DLTtape™ IV cartridge media recorded on DLT 8000, DLT 7000, and DLT 4000 drives.
- **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 with 11 megabytes-per-second native transfer rate, and 220 gigabytes capacity with 22 megabytes-per-second transfer rate at 2:1 compression.
- **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.

Data backup is exploding, driven by an avalanche of Internet commerce growth, bigger financial databases and more digital multimedia. The industry turns to the leader in tape storage, for the new solution: Quantum Super DLTtape™ systems for backup and archiving a wide range of data applications, on midrange computers, network servers, high-end workstations and mainframe environments with library automation systems.

### The Future's Following Quantum Super DLTtape Technology

Tabletop, embedded, and library versions of the Quantum Super DLTtape™ drives start at 220 GB of compressed storage capacity, 22 MB/sec compressed sustained data transfer rate. The Super DLTtape technology roadmap is the first to demonstrate a path to more than 1 TB of capacity at more than 100 MB/sec transfer rate in the years ahead.

This new generation of drives is the realization of multiple advances in leading edge technology:

- **Pivoting Optical Servo** removes servo tracks from the data side of the tape.
- **Partial Response Maximum Likelihood** read channel creates more efficient data encoding.
- **Magneto Resistive Cluster** heads allow more tracks.
- **Advanced Metal Particle** media accepts higher densities of data with even higher integrity.

The Quantum SDLT 220 is backward read compatible with tens of millions of DLTtape™ IV cartridges in use today. Embedded tabletop and library versions are available with either SCSI HVD or LVD interfaces (Ultra 2).

Recognized worldwide as the industry standard with an installed base of 1.7 million DLTtape drives and over 80 million DLTtape cartridges, Super DLTtape technology takes three decades of reliability and moves it fast forward, for long-term scalability in future midrange and enterprise storage environments.



SDLT 220 SPECIFICATIONS

**Performance**

<b>Sustained Transfer Rate (MB/sec)</b>	
Native	11
Compressed	22 (2:1 ratio)
<b>Burst Transfer Rate (MB/sec)</b>	
SCSI Bus (max)	80
<b>Formatted Capacity (GB)</b>	
Native	110
Compressed	220 (2:1 ratio)
<b>Cartridge Load Times (sec)</b>	
To BOT (formatted)	12
To BOT (unformatted)	40
<b>Average File Access Time (sec)</b>	
Access Time (sec)	70
<b>Interfaces Available</b>	
	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)
<b>Data Compression</b>	DLZ

**Reliability**

MTBF (hours)	250,000 @ 100% duty cycle
Media Durability	1,000,000 passes (17,850 uses)
Uncorrected Error Rate	1 x 10 <sup>-17</sup> bits read
Undetected Error Rate	1 x 10 <sup>-27</sup> bits read
Warranty (years)	3

**Physical Specifications**

<b>Dimensions—inches (mm)</b>	
<b>Embedded Drive</b>	
Width	5.74 (145.79)
Length	8.37 (212.59)
Height	3.24 (82.29)
Weight*—pounds (kg)	5 lbs 4 oz (2.38)
<b>Table Top</b>	
Width	6.9 (175.26)
Length	12.8 (325.12)
Height	6.46 (164.08)
Weight*—pounds (kg)	13 lbs 13 oz (6.27)

\*Weights vary by configuration

**Environmental Limits**

<b>Operating</b>	
Temperature °F (°C)	50 to 104 (10 to 40)
Non-Condensing Humidity (%)	20 to 80
Altitude (ft. maximum)	-500 to 30,000 (-152m to 9144m)
<b>Non-Operating</b>	
Temperature °F (°C)	-40 to 151 (-40 to 66) excluding media
<b>Power</b>	
Voltage (V)	+5, +12
Power Consumption (W)	27 (typical)

**Media 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**

Tape Width	0.498 inches (12.65 mm)
Tape Length	1828 feet (557.2 m)
Cartridge Dimensions (inches)	W 4.1 x L 4.1 x H 1.0 (104.1 x 104.1 x 25.4 mm)
<b>Archive Storage</b>	More than 30 years with less than 10% loss in demagnetization (at 20°C and 40% non-condensing humidity)
<b>Media Durability</b>	Average 1,000,000 head passes in typical office/ computing environment

**Media Warranty**

Media is backed by a limited lifetime warranty and is approved for use in all Super DLTtape drives.



For more information, visit [quantum.com](http://quantum.com)

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