

SDLT

220

Super DLTtape™ Technology

Extending the Standard



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 solution: 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 SUPER DLTtape TECHNOLOGY

Tabletop, embedded, and library versions of the Super DLTtape drives start at 220 GB of compressed storage capacity, 22 MB/s compressed sustained data transfer rate. The Super DLTtape technology roadmap is the first to demonstrate a path to more than 1TB of capacity at more than 100 MB/s 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 SDLT 220 is backward read compatible with the 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 70 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.

Features & Benefits: SDLT 220

BACKWARD READ COMPATIBLE

The 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 GB native capacity with 11 MB/s native transfer rate, and 220 GB capacity with 22 MB/s 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.

Specifications: SDLT 220



PERFORMANCE

SUSTAINED TRANSFER RATE

NATIVE	11 MB/s
COMPRESSED	22 MB/s (2:1 ratio)

BURST TRANSFER RATE

ULTRA 2 SCSI	80 MB/s (burst rate)
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FORMATTED CAPACITY

NATIVE	110 GB
COMPRESSED CAPACITY	220 GB (2:1 ratio)

CARTRIDGE LOAD TIME

TO BOT (Formatted Tape)	12 sec
TO BOT (Unformatted Tape)	40 sec

AVERAGE FILE ACCESS TIME

	70 sec
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INTERFACES AVAILABLE

LVD ULTRA 2 SCSI	
HVD ULTRA SCSI	

TAPE FORMAT

RECORDING FORMAT	448 track serial serpentine
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RECORDING DENSITY	133 Kbp
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TRACK DENSITY	896 tracks/in
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ENCODING METHOD	Partial Response Maximum Likelihood
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DATA COMPRESSION	DLZ
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The SDLT 220 Super DLTtape system is also available in a library version

RELIABILITY

MTBF	250,000 hours at 100% duty cycle
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MEDIA DURABILITY	1,000,000 passes/17,850 uses
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UNCORRECTED ERROR RATE	1 in 10 ¹⁷ bits read
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UNDETECTED ERROR RATE	1 in 10 ²⁷ bits read
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WARRANTY	3 YEARS
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PHYSICAL SPECIFICATIONS

	EMBEDDED DIMENSIONS	TABLETOP DIMENSIONS
WIDTH	5.74" (145.79 mm)	6.9" (175.26 mm)
LENGTH	8.37" (212.59 mm)	12.8" (325.12 mm)
HEIGHT	3.24" (82.29 mm)	6.46" (164.08 mm)
WEIGHT*	5 lb 4 oz (2.38 kg)	13 lb 13 oz (6.27 kg)

*Weights vary by configuration.

ENVIRONMENTAL LIMITS

	OPERATING	NON-OPERATING
TEMP.	50° to 104° F (10° to 40° C)	-40° to 151°F (-40° to 66° C excluding media)
HUMIDITY	20% to 80%	10% to 95%
ALTITUDE	-500' to +30,000' (-152m to +9144 m)	

POWER

VOLTAGE	+5V, +12V
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POWER CONSUMPTION	27 Watts (typical)
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MEDIA COMPATIBILITY

Super DLTape I	110 GB native capacity
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DLTape IV	20, 35 OR 40 GB native capacity
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MEDIA SPECIFICATIONS

TAPE WIDTH	0.498" (12.65 mm)
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TAPE LENGTH	1,828' (557.2 m)
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CARTRIDGE DIMENSIONS	4.1"x 4.1"x 1.0" (104.1 x 104.1 x 25.4 mm)
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ARCHIVE STORAGE

More than 30 years with less than 10% loss in demagnetization at 20° C and 40% non-condensing humidity

MEDIA DURABILITY

Average 1,000,000 head passes in typical office/computing environment

WARRANTY

Limited lifetime warranty, approved for use in all Super DLTtape drives

SDLT 220

FOR MORE INFORMATION
go to SuperDLTtape.com

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