

SDLT 320



FEATURES AND BENEFITS

- **A new standard in storage capacity and performance:** 160 gigabytes native capacity and 16 megabytes-per-second native transfer rate make the SDLT 320 the ultimate solution for today's demanding backup environments.
- **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.
- **Backward read compatible:** Full backward read compatibility with DLTtape™ IV cartridge media written on DLT 4000, DLT 7000, DLT 8000 and DLT1 drives. Full backward read and write compatibility with Super DLTtape I media written on SDLT 220 drives.
- **Industry-leading product roadmap:** The Super DLTtape™ platform leverages best-of-breed magnetic and optical recording technologies to produce a highly scalable platform over multiple product generations.

The Quantum SDLT 320 represents a major advance in capacity and performance, with 160 gigabytes (GB) of storage capacity and a 16 MB/second sustained data transfer rate (native mode). Building on the successful DLTtape™ platform, the new SDLT 320 offers an increase in capacity and data transfer rate of today's biggest selling midrange tape drive, the Quantum DLT 8000. This makes the SDLT 320 the ultimate solution for today's demanding backup environments.

Field-Proven Reliability

The SDLT 320 is based on the technology platform that more companies trust to protect their business critical information assets than any other: DLTtape. Specifically designed for the high duty-cycle requirements of high-end and automated environments, SDLT 320 drives are rated at 250,000 hours Mean Time Between Failures (MTBF) at a 100% duty cycle. A low-tension tape design, simple tape path and the proven reliability of linear serpentine tape recording combine to provide users with rock solid reliability and data integrity. Stringent drive and media specifications mean that Super DLTtape™ media is fully interchangeable between all Super DLTtape drives.

Best Midrange Tape Value

The SDLT 320 is the ultimate drive for today's exploding storage requirements and shrinking backup windows. Its low cost per gigabyte and industry leading density make it ideal for today's tape automation environments. The SDLT 320 can backup 115 GB per hour (in compressed mode), and can store 320 GB on a single cartridge (compressed). Additionally, all versions are backward read compatible with other DLTtape storage solutions (see sidebar), so users of DLTtape drives can seamlessly migrate to the Super DLTtape platform as their

storage needs grow. What's more, the SDLT 320 uses the same Super DLTtape I media as the SDLT 220, and is fully backward read and write compatible with cartridges written by the SDLT 220.

Powerful Technology

Available in embedded and tabletop versions, the SDLT 320 combines the best of proven optical and magnetic technologies to offer users remarkable improvements in capacity and performance. Super DLTtape's laser-guided optical servo brings the capability of optical tracking technology to tape for the first time, while an advanced Partial Response Maximum Likelihood (PRML) read channel leverages proven disk drive technology to bring new levels of performance and data integrity.

Broadest Industry Acceptance

DLTtape systems are recognized worldwide as the industry standard, assuring end users of reliable, high performance tape storage solutions and long-term investment protection. Like its predecessors, the SDLT 320 is fully compatible with the world's leading server brands, operating systems and backup software. And users can count on Super DLTtape to grow with their storage needs, with a four-generation roadmap that offers a clearly defined growth path to over 1 terabyte on a single cartridge.



SDLT 320 SPECIFICATIONS

Performance

Sustained Transfer Rate (MB/sec)	
Native	16
Compressed	32 (2:1 ratio)
Burst Transfer Rate (MB/sec)	
Ultra 2 SCSI Bus (max)	80
Formatted Capacity (GB)	
Native	160
Compressed	320 (2:1 ratio)
Cartridge Load Times (sec)	
To BOT (formatted)	12
To BOT (unformatted)	40
Average File Access Time (sec)	
Access Time (sec)	70
Interfaces Available	
	LVD ULTRA 2 SCSI
	HVD ULTRA SCSI

Tape Format Specifications

Recording Format	448 track serial serpentine
Recording Density	193 k bits per inch
Track Density	1058 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 ²⁷ bits read
Warranty (years)	3

Physical Specifications

Dimensions— inches (mm)	
Embedded Drive	
Width	5.74 (145.79)
Length	8.37 (212.59)
Height	3.24 (82.29)
Weight— pounds (kg)	5 lbs 4 oz (2.38)
Table Top Drive	
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 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)	27 typical streaming/writing

Media/Format Compatibility

Super DLTtape™ I	160 GB or 110 GB native capacity
DLTape™ IV*	20, 35 and 40 GB native capacity

* Read only in SDLT 320 BRC

Media Specifications

Width	0.498 inches
Length	1828 feet
Cartridge Dimensions	W 4.1 x L 4.1 x H 1.0
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

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

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