

Quantum SDLT 320



FEATURES AND BENEFITS

- Ample Storage Capacity Performance – 320GB compressed* capacity and 32MB/sec compressed* transfer rate make the SDLT 320 a highly reliable 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% tape motion
- Backward Read Compatible – Full backward read compatibility with DLTtape® IV cartridge media written on DLT 4000, DLT 7000, DLT 8000, DLT VS80 and DLT1 drives. Full backward read and write compatibility with Super DLTtape® I media written on SDLT 220 drives. The SDLT 600 is read compatible with the SDLT 320
- Complete solutions include Backup Exec™ QuickStart backup software plus a data and cleaning cartridge for a total backup package

Part Number	Product Description
TR-S23AA-BR	Internal Drive, Wide Ultra2 SCSI LVD, 5.25" Beige/Black, Bare, 320GB*
TR-S23AA-EY	Internal Drive, Wide Ultra2 SCSI LVD, 5.25" Black, Kit, 320GB*
TR-S23AB-EY	Internal Drive, Wide Ultra2 SCSI HVD, 5.25" Black, 320GB*
TR-S23BA-EY	Tabletop Drive, Wide Ultra2 SCSI LVD, Black, 320GB*
TR-S23BA-YF	Tabletop Drive, Wide Ultra2 SCSI LVD, Beige, 320GB*
TR-S23BB-EY	Tabletop Drive, Wide Ultra2 SCSI HVD, Black, 320GB*
TR-S23BB-YF	Tabletop Drive, Wide Ultra2 SCSI HVD, Beige, 320GB*
BHICA-EY	Single 2U Rackmount Drive, Wide Ultra2 SCSI LVD, Black, 320GB*
BHJCA-EY	Dual 2U Rackmount Drives, Wide Ultra2 SCSI LVD, Black, 640GB*

*Assumes 2:1 Compression

Building on the Successful DLT® Technology, the SDLT 320 Offers Unprecedented Compatibility Within the DLT Family

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: DLT. Specifically designed for high reliability, SDLT 320 drives are rated at 250,000 hours Mean Time Between Failures (MTBF) at a 100% tape motion. 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 I media can be used in both the SDLT 220 and SDLT 320 drives.

Outstanding Value

The SDLT 320 is the ultimate drive for today's exploding storage requirements and shrinking backup windows. The SDLT 320 can back up 115GB per hour* and can store 320GB* on a single cartridge. Additionally, all versions are backward read compatible with other DLT storage solutions (see sidebar), so users of DLT drives can seamlessly migrate to new DLT drives 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 internal, tabletop and rackmount versions, the SDLT 320 combines the best of proven optical and magnetic technologies to offer users remarkable improvements in capacity and performance. Its laser-guided

optical servo brings the capability of optical tracking technology to tape while an advanced Partial Response Maximum Likelihood (PRML) read channel leverages proven disk drive technology to bring new levels of performance and data integrity.

"Backup Ready" Solutions

Go from box-to-backup in minutes! Quantum "Backup Ready" certified solutions allow you to go from box-to-backup in minutes with the highly reliable Quantum SDLT 320 tape drive, world-class Backup Exec QuickStart software and durable Quantum media. "Backup Ready" solutions are cost effective, easy to install and fully supported by Quantum. Backup Exec QuickStart is a fully functional server backup and restore software for Microsoft Windows and NetWare. Quantum media cartridges are rigorously tested for reliability and compatibility with Quantum tape drives and deliver the comfort of knowing that everything will work from box-to-backup. Choose the Quantum SDLT 320 tape drive that is right for your IT environment: a server-installable internal, convenient tabletop or space-efficient rackmount configuration.

DLTSAGE™

- DLTSage is a suite of intelligent data protection tools that enables you to more effectively manage and protect your tape storage environment.
- DLT is the only technology available that offers this revolutionary drive management system.

Functionality features of DLTSage vary. See Quantum.com for specifications.



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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 SDLT 320 SPECIFICATIONS

Performance

Sustained Transfer Rate (MB/sec)	
Native	16MB/sec, 58GB/Hr
Compressed*	32MB/sec, 115GB/Hr
Burst Transfer Rate (MB/sec)	
Ultra 2 SCSI Bus (max)	80
Formatted Capacity (GB)	
Native	160
Compressed*	320
Cartridge Load Times (sec)	
To BOT (formatted)	12
To BOT (unformatted)	40
Average File Access Time (sec)	70
Interfaces Available	Wide Ultra2 SCSI, LVD and HVD

Compatibility

Media Read/Write	Super DLTtape I, DLTtape IV/ Super DLTtape I
Operating Systems	Windows Desktop, Windows Server, Novell NetWare, Unix, Linux, Mac OS
Backup Software	BakBone, Computer Associates, Dantz, NovaStor, VERITAS and Yosemite Technologies

Reliability

MTBF (hours)	250,000 @ 100% tape motion
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

Physical Specifications

Form Factor	Internal	Tabletop	Rackmount
Width (in/mm)	5.74/145.79	6.9/175.26	16.75/425.5
Height (in/mm)	3.25/82.55	6.475/164.46	3.43/87.1
Length (in/mm)	8.00/203.20	12.6/320.04	22.38/568.5
Weight (lbs/kg)	5.25/2.38	13.81/6.27	54/24.5

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

Tape Format Specifications

Recording Format	448 track serial serpentine
Recording Density	193 k bits per inch
Encoding Method	Partial Response Maximum Likelihood (PRML)
Data Compression	DLZ

Tape/Format Compatibility

Super DLTtape I	160GB or 110GB native capacity
DLTtape IV	20, 35 and 40GB native capacity (Read only in SDLT 320)

Tape Specifications

Cartridge Dimensions	4.16in x 4.15in x 1in (105.6mm x 105.3mm x 25.4mm)
Archive Storage Durability	30 Years 1,000,000 head passes in typical environment

Warranty

Tape	Limited lifetime
Tape Drive	3 year limited with Rapid Exchange

* Assumes 2:1 compression

Quantum



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