



# SDLT

## TAPE DRIVES

### Key benefits

#### Dramatically higher capacity

The Super DLT 600 tape drive offers an impressive 300-gigabytes-per-cartridge storage capacity to help you do more with fewer storage resources and at much lower storage costs, nearly twice the capacity of the SDLT 320.

#### Advanced performance

The SDLT 600 tape drive delivers 36-megabytes-per-second sustained native data transfer rate — more than two times faster than the SDLT 320 drive, making it capable of restoring a complete MS Exchange Information Store in under four minutes!

#### SAN-ready

With a choice of either two-gigabit optical Fibre Channel or Ultra 160 SCSI interfaces, the SDLT 600 is the first generation of SDLT to offer native Fibre Channel and support all common networking topologies. Fibre Channel attach provides customers with the highest possible data transfer rate.

#### WORM-capable

The SDLT 600 is the first mid-range tape technology to offer WORM (write once read many) functionality to support customer compliance and security requirements. By using a single cartridge for both WORM and conventional storage, the SDLT 600 is designed to provide you with a safe, compliant storage medium with maximum versatility and media investment protection.



### Super DLT tape drives

Following on the heels of DLT, the mid-range tape market's dominant tape platform, Quantum's SDLT family of tape drives extends the value proposition of high-capacity, cost-effective tape storage to meet the growing business and performance requirements of the mid-range customer. Designed for more demanding open systems backup environments, SDLT tape drives offer a compelling price per stored gigabyte versus competitive mid-range technologies and more than enough performance to keep up with most storage system infrastructures. The long-term roadmap for SDLT provides the reassurance to customers seeking a capacity-centric mid-range tape solution that they are investing in the right technology.

### Greater storage capacity for greater storage demands

Available for use in most StorageTek® tape libraries, the SDLT 600 tape drive offers an impressive 300 gigabytes of storage capacity per tape cartridge. This dramatic storage increase not only addresses your current storage requirements, it also helps you prepare cost effectively for tomorrow's storage reality. With the optional native Fibre Channel interface, the SDLT 600 can be leveraged effectively in tape automation and SAN environments.

### Keeps your data moving — fast!

The SDLT 600 tape drive delivers a speedy 36-megabytes-per-second sustained native data transfer rate. This performance feature helps you get the right information you need — faster. The optional two-gigabit Fibre Channel interface offers burst speeds up to 200 megabytes per second.

### Investment smartly and protect your data

The SDLT 600 is a perfect fit for D2D2T (disk to disk to tape) architectures and any situation where the priority is economical storage density. Additionally, the new SDLT 600 WORM feature allows the same cartridge to be used for either write once or write many applications, simplifying planning and providing on-the-fly secure storage.

### Designed with growth in mind

Coupled with StorageTek's industry-leading portfolio of tape automation products, the SDLT 600 tape drive from Quantum offers immediate relief for customer backup/restore and archive challenges while providing a long-term roadmap for technology advancement that promises to keep pace with the aggressive rate of data growth and the need for reliable, manageable tape solutions.

# Super DLT tape drive specifications

Performance	SDLT 320	SDLT 600
Access time*	See footnote	See footnote
Tape load and thread to ready	12 sec (formatted); 40 sec (unformatted)	12 sec (formatted); 40 sec (unformatted)
Average file access time (first file)	82 sec	79 sec
Maximum/average rewind time	140/69 sec	140/69 sec
Unload time	12 sec	12 sec
Data transfer rate, native (uncompressed)	16 MB/sec	36 MB/sec
Capacity		
Capacity, native (uncompressed)	160 GB	300 GB
Availability		
Mean time between failures (MTBF)		
Power on	250,000 hr @ 100% duty cycle	250,000 hr @ 100% duty cycle
Head life	30,000 hr	30,000 hr
Uncorrected bit error rate	1x10 <sup>-17</sup> (calculated)	1x10 <sup>-17</sup> (calculated)
Undetected bit error rate	1x10 <sup>-27</sup>	1x10 <sup>-27</sup>
Compatibility		
Interface	Ultra 2 SCSI, LVD or HVD	Ultra 2 SCSI, LVD or FC
Burst transfer rate	LVD 80 MB/sec, HVD 40 MB/sec	LVD 160 MB/sec, FC 200 MB/sec
Read/write compatibility interface	Backward read compatible model will read DLTtapeIV media in DLT 4000, DLT 7000 and DLT 8000 formats. Full backward read and write compatibility with SDLT1 media in SDLT 220 format.	Read only compatibility with SDLT I and read and write compatibility with SDLT II
Mechanical		
Height	5.25 in (13.3 cm)	5.25 in (13.3 cm)
Depth	8.0 in (20.3 cm)	8.0 in (20.3 cm)
Environmental		
Temperature		
Operating	+50° to +104° F (+10° to +40° C)	+50° to +104° F (+10° to +40° C)
Non-operating	-40° to +151° F (-40° to +66° C)	-40° to +151° F (-40° to +66° C)
Relative humidity		
Operating	20%–80%	20%–80%
Non-operating	10%–95%	10%–95%
Power		
Voltage	100–240 VAC @ 50–60 Hz, +5 VDC, +12 VDC	117 VAC @ 60Hz, +5 VDC, +12 VDC
Power consumption/dissipation (operating maximum continuous — not peak)	58 VA/198 BTU/hr	70 VA/239 BTU/hr

\* The actions of the tape drive can be divided into four distinct phases:

Phase 1: Load time – the amount of time required to insert a cartridge in the drive, load the tape and prepare to read, write or search.

Phase 2: Average file access time – the amount of time required to search from the beginning of the tape to the mid-point; does not include load time.

Phase 3: Maximum rewind time – the amount of time required to rewind the tape from the end to the beginning of the tape.  
The average rewind time is the time to rewind a tape from the mid-point to the beginning or one-half of the maximum rewind time.

Phase 4: Unload time – the amount of time required to eject the cartridge from the drive.



## ABOUT STORAGETEK®

Storage Technology Corporation (NYSE: STK) is a \$2 billion global company that enables businesses, through its information lifecycle management strategy, to align the cost of storage with the value of information. The company's innovative storage solutions manage the complexity and growth of information, lower costs, improve efficiency and protect investments. For more information, visit [www.storagetek.com](http://www.storagetek.com), or call 1.800.275.4785 or 01.303.673.2800.

## WORLD HEADQUARTERS

Storage Technology Corporation  
One StorageTek Drive  
Louisville, Colorado 80028 USA  
1.800.877.9220 or 01.303.673.5151