

SDLT

Tape Cartridges

Key benefits

Reduced costs

The high capacities of the SDLT II can help you meet the ever-increasing storage requirements of your archival backup and disaster recovery applications. Higher capacities can also reduce cartridge purchases and maintenance, tape mounts while improving overall automation efficiency.

Enhanced performance

Higher performance translates to greater output. The SDLT 600 technology delivers higher transfer rates for the most demanding backup challenges, as well as superior file retrieval time for faster restores.

Investment protection

The SDLT 600 is backward-read compatible (BRC) with the SDLT 320, giving you protection for your existing investments while maximizing DLT tape technology.

High durability

SDLT cartridges were designed with an improved dual-coating system and an improved substrate for greater durability and stability. This durability helps keep your data safe and is designed to protect your media investments use after use.



Super DLT tape cartridges

The high capacity (up to 300 gigabytes native) and solid durability of tape cartridges help you economically meet ever-increasing data storage requirements. Combined with the technology's performance of 36 megabytes per second (native), these features make SDLT tape cartridges ideal for use in your archiving, backup and restore, and disaster recovery applications.

SDLT media utilizes pivoting optical servo (POS) technology, an optical servo track on the backside of the tape media. The servo is read by a laser, rather than a magnetic servo. Therefore, this media does not require magnetic pre-formatting and is useable even if exposed to high magnetic fields. Since the magnetic surface of the media is used strictly for data recording and servo tracks are not included, the number of recording tracks is increased, improving cartridge capacity. Backup and restore activities are accelerated because more data is processed in less time with fewer tape mounts and dismounts.

Advanced technology

Sun StorageTek™ SDLT cartridges feature a wide range of innovative technology advancements including:

- A patented ceramic-coated metal particle media, which improves the long-term magnetic stability of media for archival applications
- Durable, dust-resistant and anti-static properties, which reduce potential damage and display as an easily recognized blue color
- The combination of eMP60™ technology, a dual-coating and dense binding system, plus an improved coating surface and a new Super PET (S-PET) base film, which produces higher density and higher performance media with extended read/write head life and durability
- An improved, positive linking tape leader buckling system, which provides a secure link with the drive leader
- A tape lock mechanism that prevents tape movement and slack for proper tape tension

Engage the storage experts

Sun's StorageTek service professionals help you address storage challenges by delivering integrated services and solutions that optimize and manage storage performance over the life of your data. Our recognized, world-class service and customer care gives you confidence that your technology investment is protected and that your business will be responsive to change. To help you pinpoint opportunities to reduce costs, mitigate business risk and better leverage information assets, our consulting and managed services offerings deliver clarity, simplicity and choice in solutions that

address regulatory concerns, complex storage growth, resource management and scalability challenges. Covering over 125 countries, more than 2,100 dedicated storage service professionals can help you gain and sustain measurable results with the reliability and flexibility that you require.

To learn more

To learn more about Sun StorageTek media cartridge technology and how it can help you reduce your total cost of ownership, talk with your Sun representative or visit www.sun.com/storagetek.

SDLT tape cartridges specifications

Performance	SDLT I tape cartridge	SDLT II tape cartridge
Tape speed		
Read and write	3.1 m/sec	7.62 m/sec; 3.56 m/sec
Search and rewind	4.1 m/sec	4.83 m/sec
Formulation		
Coercivity	Advanced metal particle (AMP)	eMP60 ¹
Track-following servo	1900 Oersteds	2650 Oersteds
	Optical	Optical
Capacity		
Capacity, native (uncompressed)	110 GB (SDLT 220) 160 GB (SDLT 320)	300 GB
Availability		
Archival life	15–30 years	More than 30 years
Long-length durability	1,000,000 (average head passes in typical office/computer environment)	1,000,000 (average head passes in typical environment)
Uncorrected bit error rate	1x10 ⁽¹²⁷⁾	1x10 ⁽¹²⁷⁾
Permanent errors	0	0
Compatibility		
Supported tape drives	SDLT 220/320	SDLT 320/600
Number of tracks	448	640
Form factor	Half-inch	Half-inch
Mechanical		
Height	1.0 in (25.4 cm)	1.0 in (25.4 cm)
Depth	4.15 in (105.3 cm)	4.15 in (105.3 cm)
Width	4.16 in (105.6 cm)	4.16 in (105.6 cm)
Weight	7.85 oz (222.5 g)	7.85 oz (222.5 g)
Environmental		
Temperature (non-condensing)		
Operating	+50° to +104° F (+10° to +40° C)	+50° to +104° F (+10° to +40° C)
Storage up to four weeks	+60° to +90° F (+15° to +32° C)	+60° to +90° F (+16° to +32° C)
Storage – archive	+64° to +82° F (+18° to +28° C)	+64° to +79° F (+18° to +26° C)
Relative humidity		
Operating	20%–80%	20%–80%
Storage up to four weeks	20%–80%	20%–80%
Storage – archive	40%–60%	40%–60%
Shipping	20%–80%	20%–80%
Wet bulb maximum		
Operating	+78° F (+26° C)	+77° F (+25° C)
Storage up to four weeks	+78° F (+26° C)	+78° F (+26° C)
Storage – archive	+78° F (+26° C)	+78° F (+26° C)
Shipping	+78° F (+26° C)	+78° F (+26° C)

Sun's media usage policy:

The tape storage media (tape cartridge) used in a tape drive and/or automated tape system can have a significant impact on the overall performance of the tape drive and/or automated tape system.

The following is Sun's policy regarding tape storage media:

- 1) Sun warrants tape storage media that is StorageTek-branded.
- 2) The customer is responsible for all expenses and costs related to the repair or replacement of hardware damaged by non-StorageTek-branded tape storage media.
- 3) The customer may be billed for any service provided by Sun resulting from or related to problems caused by non-StorageTek-branded tape storage media.

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TC 0029 B 09/05