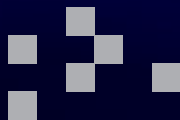


# DUAL SDLT TAPE SUBSYSTEM

SafeDR™





Our Dual SDLT Tape Subsystem is part of GST's SafeDR™ family. Dual drives generate identical sets of backup cartridges so that one set can be safeguarded remotely for disaster recovery while the other set is retained onsite for faster restores; other tape functions add off-line copy and cascading capabilities. An LCD panel provides an advanced operator interface for visibility over backup operations.

The Dual SDLT Tape Subsystem can backup a wide variety of servers. They connect natively with LVD (low voltage differential), HVD (high voltage differential), and FC (Fibre Channel) interfaces.

## THE BIG PICTURE

- Dual SDLT320 or SDLT600 tape drive in external enclosure.
- Capacity: SDLT600 is 300GB native (600GB compressed).
- Speed: SDLT600 is 130GB/hour native (260GB/hr compressed).
- Mirrored backup provides disaster recovery support.
- Added functions: off-line copy plus cascading.
- LCD operator panel improves backup efficiency.
- Roadmap to SDLT1200 and SDLT2400.
- SDLT range: single drive to enterprise-wide libraries.
- Supports LVD, HVD, and FC connections.

## MODEL OVERVIEW

GST's Dual SDLT Tape Subsystem is available in a variety of models. Each SDLT technology is available in two server-to-SCSI Adapter interfaces and one fibre interface:

**Low Voltage Differential (LVD).** Maximum SCSI negotiation of 160MB/s; the total server-to-storage peripheral connectivity is 12 meters.

**High Voltage Differential (HVD).** Maximum SCSI negotiation of 40MB/s; the total server-to-storage peripheral connectivity is 25 meters.

**Fibre Channel (FC).** 2Gbit fibre interface.



## SDLT TECHNOLOGY

SDLT tape technologies supported are SDLT320 and the newer SDLT600. Native capacities for SDLT320 and SDLT600 are 160GB and 300GB (320GB, 600GB compressed) with speeds of 58GB/hour and 130GB/hour (115GB/hour, 260GB/hour compressed). A 4-generation roadmap provides for a native capacity of 1.2TB per cartridge (2.4TB compressed) and a transfer rate of up to 360GB/hour (720GB/hour compressed).

The SDLT is based on the technology platform that more companies trust to protect their business critical information asset than any other: DLTtape. Specifically designed for the high duty-cycle requirements of the high-end and automated environments, SDLT drives are rated at 250,000 hour Mean Time Between Failures (MTBF) at a 100% tape motion. A low-tension tape design, simple tape path and the proven reliability and data integrity.

## KEY BENEFITS

**Media Investment Protection** – For IT sites with an investment in SDLT320 media, the newer SDLT600 technology is backward-read compatible, and forward-read compatible with future generations.

**Improved DR** – Mirrored backup capability produces simultaneous sets of identical backup cartridges with no performance penalty; this permits storage of one set off-site for better disaster recovery and storage of the other set on-site for rapid restore.

**Fault-Tolerant Backup and Restore** – Dual-drive configurations ensure against drive failure since the second drive continues to operate, ensuring the backup is completed successfully.

**Added Tape Functions** – For dual-drive subsystems, key added tape functions include: dual-drive mirroring for mirrored backups, off-line copying/verifying with no processor penalty, and cascading to extend unattended backup capacity by switching from one drive to the other (doubling capacity).

## KEY FEATURES

**Dual Drive Controller** – Manages mirroring, off-line copying, cascading, and the LCD Display Panel.

**LCD Display Panel** – Multi-function LCD Display Panel continuously displays key drive and backup job conditions.

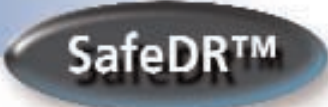
**Convenient Drive Interface** – RS232 interface for updating firmware and optimizing drive performance.

**Service and Support** – A variety of support programs provide installation and onsite service; includes GST's Accelerated Ship Program (GASP) to get replacement units on the scene rapidly.

**Warranty** – Purchase price includes a built-in manufacturer's warranty of three years.



# DUAL SDLT TAPE SUBSYSTEM



SPECIFICATIONS	SDLT320	SDLT600
Capacity - Mirrored Mode		
Native	160 GB	300 GB
Compressed <sup>1</sup>	320 GB	600 GB
Capacity - Cascade Mode		
Native	320 GB	600 GB
Compressed <sup>1</sup>	640 TB	1.2 TB
Sustained Transfer Rate - MB/s		
Native	16 MB/s	36 MB/s
Compressed <sup>1</sup>	32 MB/s	72 MB/s
Sustained Transfer Rate - GB/hr		
Native	58 GB/hr	130 GB/hr
Compressed <sup>1</sup>	115 GB/hr	260 GB/hr
Cartridge Load Time		
To BOT (formatted tape)	12 seconds	12 seconds
To BOT (unformatted tape)	40 seconds	40 seconds
Average File Access Time	70 seconds	79 seconds
Recording Format	448 track serial serpentine	640 track serial serpentine
Recording Density	193 Kbpi	233 Kbpi
Track Density	1058 tracks/in	1490 tracks/in
Encoding Method	Partial Response	Partial Response
Data Compression	DLZ	DLZ
MTBF	250,000 hours	250,000 hours
Media Durability	1,000,000 passes	1,000,000 passes
Uncorrected Error Rate	1 in 10 <sup>17</sup> bits read	1 in 10 <sup>17</sup> bits read
Undetected Error Rate	1 in 10 <sup>27</sup> bits read	1 in 10 <sup>27</sup> bits read
Altitude	up to 30,000 feet	up to 30,000 feet
Operating Temperature	50° C to 104° F	40° C to 104° F
Storage Temperature	-40° C to 151° F	-40° C to 151° F
Operating Humidity	20% to 80%	20% to 80%
Power Consumption	27 watts	32 watts
Dimensions (H x W x D), Desk	10.5" x 7" x 16"	10.5" x 7" x 16"
Weight, Desk	18 lbs	18 lbs
Dimensions (H x W x D x U), Rack	4" x 18" x 20" x 2U	4" x 18" x 20" x 2U
Weight (unpopulated), Rack	30 lbs	30 lbs
Media	Super DLTtape I	Super DLTtape II
Warranty	3 Years	3 Years

1. Compressed Capacity & Transfer Rate Assumes 2:1 Ratio.



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GST, Inc. engineers, manufactures, markets and sells a full line of innovative storage backup and restore products to meet today's need for high-performance, fail-safe reliability and cost-effective data storage. Products include single and dual tape subsystems, autoloaders, midrange tape libraries and modular enterprise-wide libraries. Complete information about the company, its products and support can be found at: [www.gstinc.com](http://www.gstinc.com)