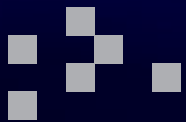


DUAL SLR TAPE SUBSYSTEM

SafeDR™





The Dual SLR Tape Subsystem is part of GST's SafeDR™ family. These tape subsystems are housed in modular enclosures. SLR60 and SLR100 tape technologies are widely used. The Dual SLR Tape Subsystem supports Mirrored Backup, a function that generates 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 the backup operation.

The Dual SLR 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 SLR60 and SLR100 tape drives in external enclosure.
- Capacity: SLR100 is 50GB native (100GB compressed).
- Speed: SLR100 is 18GB/hour native (36GB/hr compressed).
- Mirrored backup provides disaster recovery support.
- Added functions: off-line copy plus cascading.
- Only dual-drive SLR subsystem available.
- LCD operator panel improves backup efficiency.
- 2-level media protection with SLR60 and SLR100.
- Roadmap to SLR140, SLR200 and SLR400.
- SLR range: dual-drive unit and autoloader.
- Supports LVD, HVD, and FC connections.

MODEL OVERVIEW

GST's Dual SLR Tape Subsystem is available in a variety of models. Each SLR technology (SLR60, SLR100) is available in two server-to-SCSI Adapter interfaces:

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.

SLR TECHNOLOGY

SLR (Scalable Linear Recording) tape technology has evolved through three generations to the popular versions today: SLR60 and SLR100. Native capacities for SLR60 and SLR100 are 30GB and 50GB (60GB and 100GB compressed) with speeds of 14GB/hour and 18GB/hour (28GB/hour and 36GB/hour compressed). It has a 6-generation roadmap that provides for a native capacity of 200GB per cartridge (400GB compressed) and a transfer rate of up to 115GB/hour (230GB/hour compressed).

SLR technology provides high capacity and performance, backward compatibility, reliability, scalability and the use of existing media now and in the future. Data is recorded in parallel on four tracks for SLR60 and SLR100. Data placement ensures that it can be read during a restore operation even if the media is degraded. The current generation of SLR technology is characterized by large data buffers, In-Line Compression feature and an Auto-Sense function that optimizes tape speed.



KEY BENEFITS

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

Space Saver – The small dimensions and weight of the modular configurations facilitate the optimum use of datacenter space.

Media Investment Protection – Each SLR technology is backward-read compatible to earlier generations, and forward-read compatible with future generations.

Serviceability – Modularity of design permits individual drives and GST's Dual Drive Controller to be easily replaced in building-block fashion by the user.

KEY FEATURES

Stackable Enclosures – Individual modular enclosures enable each drive and the mirrored backup controller to be handled as separate building blocks; facilitates field upgrade from single to dual drives.

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

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


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 SLR TAPE SUBSYSTEM



SPECIFICATIONS	SLR 60	SLR 100
Capacity - Mirrored Mode		
Native	30 GB	50 GB
Compressed ¹	60 GB	100 GB
Capacity - Cascade Mode		
Native	60 GB	100 GB
Compressed ¹	120 GB	200 GB
Sustained Transfer Rate - MB/s		
Native	4 MB/s	5 MB/s
Compressed ¹	8 MB/s	10 MB/s
Sustained Transfer Rate - GB/hr		
Native	14 GB/hr	18 GB/hr
Compressed ¹	28 GB/hr	36 GB/hr
Buffer Size	8 MB	8 MB
MTBF	300,000 hours	300,000 hours
Uncorrectable Error Rate	10 ¹⁷ bits	10 ¹⁷ bits
Average Media Load Time	< 30 seconds	< 30 seconds
Average Access Time	53 seconds	89 seconds
Power Consumption	120 watts	120 watts
Dimensions (H x W x D), Desk	10.25" x 9" x 11.25"	10.25" x 9" x 11.25"
Weight, Desk	9 lbs	9 lbs
Dimensions (H x W x D x U), Rack	3.5" x 19" x 15" x 2U	3.5" x 19" x 15" x 2U
Weight (unpopulated), Rack	35 lbs	35 lbs
Media	SLRtape 60	SLRtape 100
Warranty	3 Years	3 Years

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



3419 Via Lido, Suite 164
 Newport Beach, CA 92663
 949.673.1248 ~ 949.673.3163 - Fax
www.gstinc.com ~ sales@gstinc.com

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

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