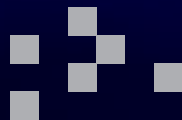


# DUAL SAIT TAPE SUBSYSTEM

SafeDR™





Our Dual SAIT 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 SAIT 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 SAIT-1 tape drive in external enclosure.
- Capacity: SAIT-1 is 500GB native (1.3TB compressed).
- Speed: SAIT-1 is 108GB/hour native (281GB/hr compressed).
- Mirrored backup provides disaster recovery support.
- Added functions: off-line copy plus cascading.
- LCD operator panel improves backup efficiency.
- Roadmap to SAIT-2, SAIT-3, and SAIT-4.
- SAIT range: single drive to enterprise-wide libraries.
- Supports LVD, HVD, and FC connections.

## MODEL OVERVIEW

GST's Dual SAIT Tape Subsystem is available in a variety of models. Each SAIT 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.



## SAIT TECHNOLOGY

Native capacities are 500GB (1.3TB compressed) with speeds of 108GB/hour (281GB/hour compressed). A 4-generation roadmap provides for a native capacity of 4TB per cartridge (10.4TB compressed) and a transfer rate of up to 864GB/hour (2.25TB/hour compressed).

This new SAIT tape technology platform delivers high capacity and high performance using a half-inch, single-reel tape and a 5.25-inch full-height mechanism design, dramatically improving the value proposition between conventional tape roadmaps and future hard disk drive capacity trends. As a new class of tape solution, SAIT technology leapfrogs conventional linear solutions, offering significant advantages in capacity, performance, reliability, and scalability.

## KEY BENEFITS

---

**WORM Enabled** – SAIT drives are available with Write Once Read Many (WORM) technology. WORM provides tamper-proof data protection with non-rewriteable and non-erasable data storage.

**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

---

**Compliance Ready** – WORM technology supports compliance with new government data storage regulations that apply to the tamperproof safeguarding of data.

**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 SAIT TAPE SUBSYSTEM

SafeDR™

SPECIFICATIONS	SAIT-1
Capacity - Mirrored Mode	
Native	500 GB
Compressed <sup>1</sup>	1.3 TB
Capacity - Cascade Mode	
Native	1 TB
Compressed <sup>1</sup>	2.6 TB
Sustained Transfer Rate - MB/s	
Native	30 MB/s
Compressed <sup>1</sup>	78 MB/s
Sustained Transfer Rate - GB/hr	
Native	108 GB/hr
Compressed <sup>1</sup>	281 GB/hr
Buffer Size	72 MB
Drum Rotational Speed	4,900 rpm
Data Compression	ALDC
Linear Recording Density	159,000 bpi
Average Media Load Time	23 seconds
Average Access Time	70 seconds
Search Speed	157 inches/s (max)
Rewind Speed	551 inches/s (max)
Error Rate	10 <sup>17</sup> bits
MTBF	500,000 hours
Average R/W Head Life	50,000 hours
Average Media Uses	30,000 passes
Vibration (Operating)	.25 G peak
Shock (Operating)	5.0 G peak
Altitude	up to 10,000 feet
Maximum Web Bulb Temperature	26° C
Operating Temperature	40° C to 104° F
Storage Temperature	-40° C to 158° F
Operating Humidity	20% to 80%
Power Consumption	29 watts
Dimensions (H x W x D), Desk	10.5" x 7" x 16"
Weight, Desk	18 lbs
Dimensions (H x W x D x U), Rack	4" x 18" x 20" x 2U
Weight (unpopulated), Rack	30 lbs
Media	SAIT1-500
Warranty	3 Years



1. Compressed Capacity & Transfer Rate Assumes 2.6:1 Ratio.



3419 Via Lido, Suite 164  
 Newport Beach, CA 92663  
 949.673.1248 ~ 949.673.3163 - Fax  
[www.gstinc.com](http://www.gstinc.com) ~ [sales@gstinc.com](mailto: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](http://www.gstinc.com)

©2004 GST, Inc. All trademarks and registered trademarks are the property of their respective owners. Specifications subject to change without notice. Doc 202-02