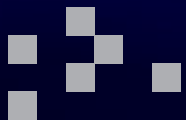


# SINGLE SAIT TAPE SUBSYSTEM

EntryDR™





GST's Single SAIT Tape Subsystem is part of our EntryDR™ family. SAIT tape technology provides high-performance in a basic GST backup solution for small to mid-sized servers. These models deliver high capacity, speed and reliability at cost-effective pricing to meet basic backup needs. An LCD panel provides an advanced operator interface for visibility over the backup operation.

The Single 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

- Single tape drive in external enclosure.
- Capacity: SAIT-1 is 500GB native (1.3TB compressed).
- Speed: SAIT-1 is 108GB/hour native (281GB/hour compressed).
- Roadmap to SAIT-2, SAIT-3, and SAIT-4.
- LCD display panel improves backup efficiency.
- SAIT range: single drive to enterprise-wide libraries.
- Supports LVD, HVD, and FC connections.

## MODEL OVERVIEW

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

---

**Compliance Ready** – WORM technology plus 30-year shelf life cartridges comply with federal regulations stating how records are to be retained.

**High Capacity** – 1.3TB cartridge capacity simplifies large unattended backups, containing the backup on a single cartridge.

**Performance** – Speeds up to 281GB/hour dramatically shorten backups and restores.

**Real-time Operator Information** – LCD Display Panel continuously shows key tape conditions to monitor drive status and job completion.

**Longevity** – A Roadmap commits SAIT through 2010, ensuring investment protection in the technology and continued growth.

**Reliability** – Highest industry reliability ensures continued backup/restore operation.

**Universality** – Can be used on Unix, Linux, NT or the proprietary iSeries/AS/400 server platforms to ensure widest applicability.

## KEY FEATURES

---

**WORM Enabled** – Write Once Read Many (WORM) technology provides tamper-proof data protection with backup data stored on indelible, non-rewriteable and non-erasable media.

**Capacity** – 500GB native cartridge capacity supports large unattended backups. Capacity increases to 1.3TB using 2.6-to-1 compression.

**Speed Factors** – A 72MB buffer, 155,000 BPI linear recording density, 5,000 RPM recording drum and 2.6 compression ratio all deliver a native speed of 30MB/sec (108GB/hour) and compressed speed of 78MB/sec (281GB/hour).

**LCD Display Panel** – Multifunction LCD Display Panel (2 X 40 characters) continuously displays exact drive and job status.

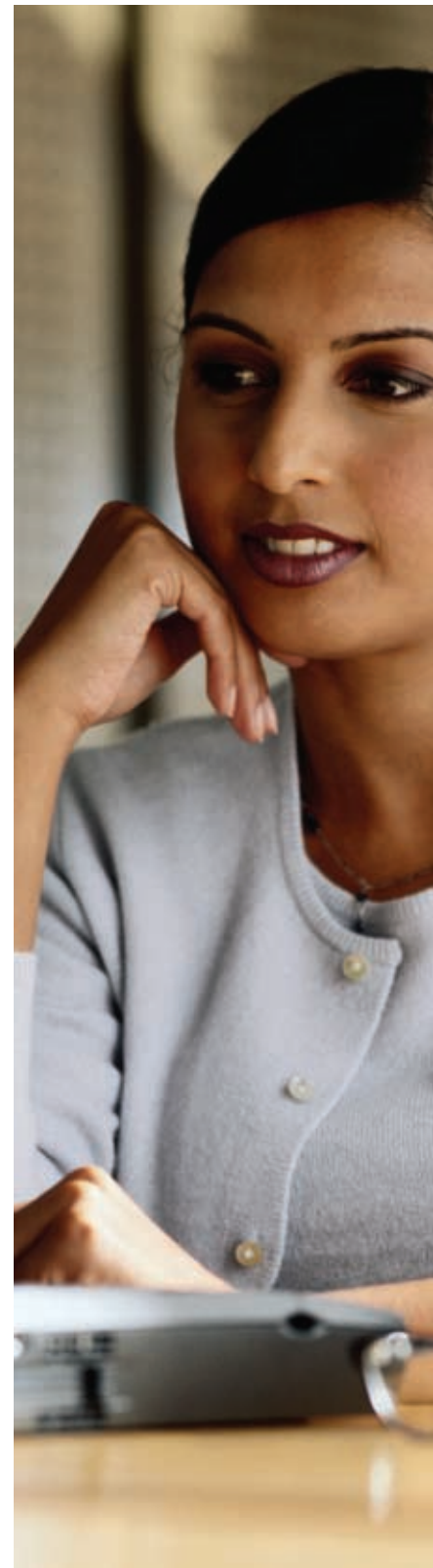
**Roadmap** – SAIT technology's roadmap extends out four generations to SAIT-4 in 2010 with a 4TB cartridge capacity (10.4TB compressed) and 864GB/hour native (2.2TB compressed) speed.

**Engineering** – Quality designed in at the beginning, building onto SAIT's 500,000 hour Mean Time Between Failure (MTBF), 50,000 hours head-to-tape life and 30,000 end-to-end tape passes.

**iSeries Connectivity** – GST's SAIT drives connect directly to iSeries and AS/400 servers.

**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.

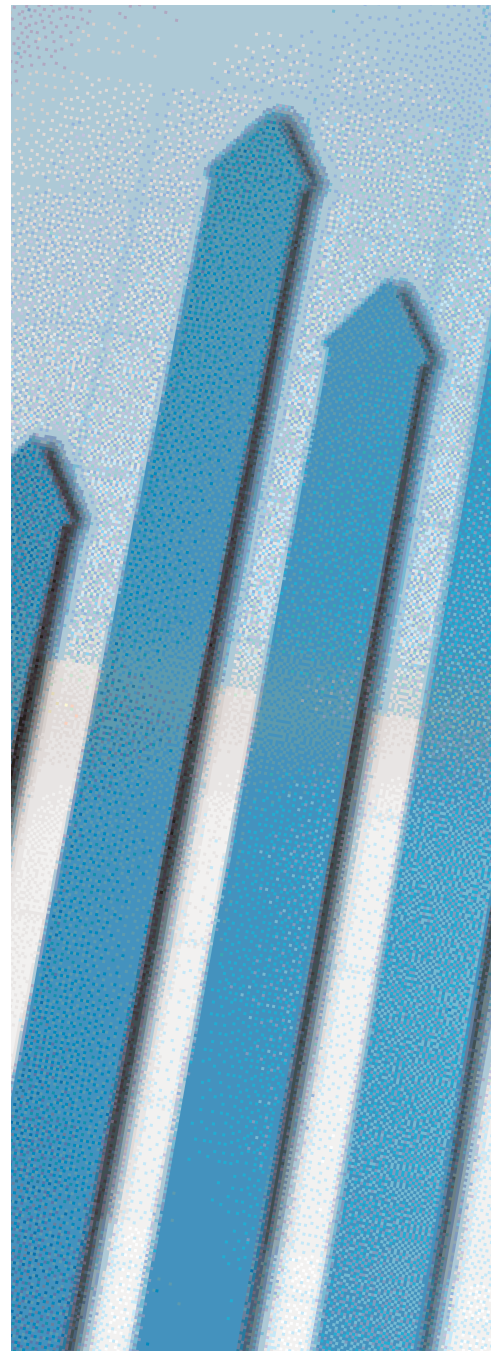
**Warranty** – Purchase price includes a built-in manufacturer's warranty of three years.



# SINGLE SAIT TAPE SUBSYSTEM

EntryDR™

SPECIFICATIONS	SAIT-1
Capacity	
Native	500 GB
Compressed <sup>1</sup>	1.3 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	20 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 200-02