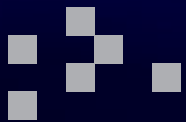


MIDRANGE AIT LIBRARY

GrowthDR™





THE BIG PICTURE

- One or two drives with 16 cartridge slots.
- Capacity: 1.6TB native (4.2TB compressed).
- Speed: 86GB/hour native (224GB/hour compressed).
- Mirrored Backup: supports disaster recovery.
- Backup Consolidation: supports two servers.
- Off-line copy with no penalty.
- Field upgrade from one to two drives.
- Supports AIT-3; roadmap to AIT-4, AIT-5, AIT-6.
- AIT range: single drive to enterprise-wide libraries.
- Supports LVD, HVD, and FC connections.
- WORM enabled.

GST's Midrange AIT Library is part of our GrowthDR™ family. This mid-sized library uses AIT-3 tape technology to provide 1.6TB native (4.2TB compressed) of automated unattended backup. It spans the gap from GST's Single and Dual Tape Subsystems on one end to our larger enterprise-wide libraries on the other end. A variety of unique capabilities not found in other tape backup systems include: Virtual Library Partitioning, Mirrored Backup and Off-line Copy.

The Midrange AIT Library holds sixteen data cartridges, or fifteen data cartridges and a cleaning cartridge. The Library can be used in a 14-day tape rotation procedure, allowing a full week, or even months, of unattended and automated data protection. An integrated mailslot (IO slot) allows for importing and exporting data cartridges without the need for a cartridge re-inventory.

This library can backup a wide variety of servers. They connect natively with LVD (low voltage differential), HVD (high voltage differential), and FC (fibre channel).

MODEL OVERVIEW

GST's Midrange AIT Library is available in a wide variety of desktop and rackmount models. Library configurations for four different functions are available in three types of interfaces.

Listed below are the four different functional configurations:

Single-Drive Library. Automated unattended backup for one server. One drive; 16 cartridges.

Two-Drive Library. Designed for one server; permits separate backup jobs to run simultaneously on each drive. Two drives; 16 cartridges allocated as needed.

Mirrored Library. Designed for one server; produces identical backup sets simultaneously; supports Disaster Recovery. Two drives; 16 cartridges (8 per drive).

Virtual Library. Designed for backing up two servers. Two drives; 16 cartridges allocated as needed.

AIT TECHNOLOGY

AIT tape technology has evolved through three generations: AIT-1, AIT-2 and AIT-3 and provides outstanding capacity and performance with a highly stable technology roadmap. AIT cartridges utilize Memory-in-Cassette (MIC) architecture providing rapid time-to-data and multiple load points for partitioning data.

Native cartridge capacities for AIT-1, AIT-2 and AIT-3 are 35GB, 50GB and 100GB (91GB, 130GB, 260GB compressed) with speeds of 14GB/hour, 22GB/hour and 43GB/hour (37GB/hour, 56GB/hour, 112GB/hour compressed). Scalability is planned to a 6th generation product with native capacity of 800GB (2.1 TB compressed) and a speed of 345GB/hour (900GB/hour compressed). A 2.6-to-1 compression ratio is achieved with Adaptive Lossless Data Compression (ALDC) technology.

KEY BENEFITS

Improved DR – GST's Mirrored Backup function produces simultaneous sets of identical backup cartridges with no performance degradation and no software overhead; this provides off-site storage of one set to facilitate disaster recovery and a second set kept on-site for rapid restore.

Backup Consolidation – Backups can be consolidated with GST's Virtual Library Partitioning that partitions a multiple-drive library to back up two different hosts or LPARs within a single tape library.

WORM Enabled – AIT2 and AIT3 drives are available with Write Once Read Many (WORM) technology. WORM provides tamper-proof data protection with non-rewriteable and non-erasable data storage.

Simplified Weekly Backups – 16 cartridge configuration provides unattended AIT-3 backup capacities of 1.6TB native (4.2TB compressed), fully automating backups for an entire week, to the point each week when the cartridges are removed for safe storage.

Added Tape Functions – Off-line Copy/Verify is available with no processor penalty.

High Transfer Rates – AIT-3 native transfer rates up to 86GB/hour on Virtual Library models are increased to 224GB/hour with compression reducing time required for backups.

Fault-tolerant Backup and Restore – In the event of a drive failure within a mirrored module, the second drive will continue to operate, ensuring the backup is completed successfully.

Hardware Investment Protection – Highly scalable libraries feature multiple models that permit easy upgrades from one-drive to two-drive libraries or adding Mirrored Backup or Virtual Library Partitioning.

Media Investment Protection – AIT-3 is backward-read compatible to AIT-1 and AIT-2, and forward-read compatible to future generations.

KEY FEATURES

Virtual Library Partitioning – Cartridge slots can be assigned to a particular drive so the Midrange AIT Library is divided into two partitions. Each partition can be assigned to a host server or LPAR; permits backup consolidation of two servers/partitions using one GST library.

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

Mailslot – A separate Mailslot (IO slot) is used for importing and exporting individual tape cartridges under application control.

Barcode Selective Restore – Barcode reader permits cartridge scanning and supports random access for selective restore from specified cartridges.

Secure Cartridge Removal – Host-controlled lockable I/O door prevents unauthorized inserting and removing of cartridges or magazines.

Reliability – Simplicity of design, intelligent robotic mechanism and proven AIT technology all stack up to ensure trouble-free operation.

Small Footprint – Space-efficient size and light weight provides the best rackmount density for libraries available. Size: 7" h x 17" w x 18" d; weight: 42 lbs.

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.

MIDRANGE AIT LIBRARY



SPECIFICATIONS	ONE DRIVE	TWO DRIVE	MIRRORED	VIRTUAL
Capacity				
Native	1.6 TB	1.6 TB	.8 TB	up to 1.6 TB
Compressed ¹	4.2 TB	4.2 TB	2.1 TB	up to 2.1 TB
Sustained Transfer Rate - MB/s				
Native	12 MB/s	12 MB/s	12 MB/s	24 MB/s
Compressed ¹	31 MB/s	31 MB/s	31 MB/s	62 MB/s
Sustained Transfer Rate - GB/hr				
Native	43 GB/hr	43 GB/hr	43 GB/hr	86 GB/hr
Compressed ¹	112 GB/hr	112 GB/hr	112 GB/hr	224 GB/hr
Drives and Media				
Drive Type	AIT-3	AIT-3	AIT-3	AIT-3
Media	SDX3-100C	SDX3-100C	SDX3-100C	SDX3-100C
Library Configuration				
Number of Drives	1	2	2	2
Number of Cartridges	16	16	8	16
Mail Slots	1	1	1	1
Server and Library Partitions				
Server Attachment	1	1	1	2
Library Partitions	1	1	1	2
Library Specifications				
Average Exchange Time	12 seconds	12 seconds	12 seconds	12 seconds
Cartridge Inventory Time	45 seconds	45 seconds	45 seconds	45 seconds
Power On to Ready (online)	60 seconds	60 seconds	60 seconds	60 seconds
Library Reliability				
MSBF	250,000	250,000	250,000	250,000
MTTR	< 30 Minutes	< 30 Minutes	< 30 Minutes	< 30 Minutes
MTBF	250,000	250,000	250,000	250,000
Physical Specs, Library Only				
Dimensions (H x W x D), Desk	7" x 17" x 18"	7" x 17" x 18"	7" x 17" x 18"	7" x 17" x 18"
Weight, Desk	42 lbs	42 lbs	42 lbs	42 lbs
Dimensions (H x W x D x U), Rack	7" x 17" x 18" x 4U	7" x 17" x 18" x 4U	7" x 17" x 18" x 4U	7" x 17" x 18" x 4U
Weight (unpopulated), Rack	42 lbs	42 lbs	42 lbs	42 lbs
Warranty	3 Years	3 Years	3 Years	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 ~ 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

©2004 GST, Inc. All trademarks and registered trademarks are the property of their respective owners. Specifications subject to change without notice. Doc 285-01