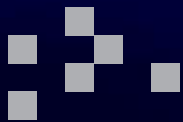


INTERNAL AIT TAPE SUBSYSTEM

InternalDR™



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The Internal AIT Tape Subsystem is part of our InternalDR™ family. It delivers high-performance and high reliability at cost-effective pricing. These single tape subsystems meet the basic backup needs for small to medium range servers. They install directly inside a wide variety of servers and include an advanced operator interface for visibility over the backup operation.

The Internal AIT Tape Subsystem is designed for a wide variety of servers. Native connectivity uses LVD (low voltage differential) SCSI connection.

THE BIG PICTURE

- A single AIT tape drive that installs directly in the server.
- Capacity: AIT-4 is 200GB native (520GB compressed).
- Speed: AIT-4 is 86GB/hour native (224GB/hour compressed).
- Supports AIT-1, AIT-2, AIT-3, and AIT-4.
- Roadmap to AIT-5 and AIT-6.
- Outperforms DAT, VXA, and SLR drives.
- No attachment features or associated costs.
- LCD display panel improves backup efficiency.
- AIT range: single drive to enterprise-wide libraries.
- Supports LVD SCSI connection directly.
- WORM enabled.

MODEL OVERVIEW

GST's Internal AIT Tape Subsystem is available in a variety of models. Each AIT technology (AIT-1, AIT-2, AIT-3, AIT-4) is available in different types of packaging for the configuration groups shown below:

Group	Platform	Model
A	iSeries	600, S10
C	i5, p5, iSeries	170, 250, 520, 550
D	iSeries	270, 800, 810, 820
F	Open Servers	All

AIT TECHNOLOGY

AIT tape technology has evolved through four generations: AIT-1, AIT-2, AIT-3, and AIT-4 and provides outstanding capacity and performance with a highly stable technology roadmap. AIT cartridges utilize MIC architecture, providing rapid time-to-data and multiple load points for partitioning data.

Native cartridge capacities for AIT-1, AIT-2, AIT-3, and AIT-4 are 35GB, 50GB, 100GB and 200GB (91GB, 130GB, 260GB, 520GB compressed) with speeds of 14GB/hour, 22GB/hour, 43GB/hour, and 86GB/hr (37GB/hour, 56GB/hour, 112GB/hour, and 224GB/hr compressed). Scalability is planned to a 6th generation product with native capacity of 800GB (2 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

Capacity, Performance, Cost Leader - GST's internal AIT-1 and AIT-2 drives compare favorably to DAT, SLR and VXA technology for about the same price. GST's AIT-3 internal drive is nearly half the cost of LTO-1 technology with comparable speed and capacity.

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.

Lower Investment – Attachment features normally required with external tape drives are not needed. Additional features required by external tape devices can include:

- Input/Output Processor
- Input/Output Adapter
- Additional towers

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

Real-time Operator Information – Our LCD Display Panel continuously displays key tape conditions to help operations personnel monitor the status of the drive and backup operation.

Space Economy – Floor space or desktop area for an external tape drive is eliminated.

KEY FEATURES

Internal Packaging – Internal attachment of AIT single drives with a wide variety of servers results in a high degree of integration, eliminating high connection costs and simplifying drive containment.

LCD Display Panel – Multi-function LCD continuously displays drive and backup status.

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

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

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

Warranty – Purchase price includes built-in 3 year warranty.



INTERNAL AIT TAPE SUBSYSTEM



SPECIFICATIONS	AIT-1	AIT-2	AIT-3	AIT-4
Capacity				
Native	35 GB	50 GB	100 GB	200 GB
Compressed	91 GB	130 GB	260 GB	520 GB
Sustained Transfer Rate - MB/s				
Native	4 MB/s	6 MB/s	12 MB/s	24 MB/s
Compressed	10 MB/s	16 MB/s	31 MB/s	62 MB/s
Sustained Transfer Rate - GB/hr				
Native	14 GB/hr	22 GB/hr	43 GB/hr	86 GB/hr
Compressed	37 GB/hr	56 GB/hr	112 GB/hr	224 GB/hr
Buffer Size	10 MB	10 MB	18 MB	96 MB
Drum Rotational Speed	6,400 rpm	6,400 rpm	6,000 rpm	8,506 rpm
Data Compression	ALDC	ALDC	ALDC	ALDC
Linear Recording Density	116,000 bpi	167,000 bpi	155,000 bpi	203,000 bpi
Average Media Load Time	10 seconds	10 seconds	10 seconds	14 seconds
Average Access Time	27 seconds	27 seconds	27 seconds	52 seconds
Search Speed	122 inches/s	130 inches/s	122 inches/s	122 inches/s
Rewind Speed	122 inches/s	160 inches/s	122 inches/s	122 inches/s
Uncorrectable Error Rate	10-17 bits	10-17 bits	10-17 bits	10-17 bits
MTBF	300,000 hours	300,000 hours	400,000 hours	400,000 hours
Average R/W Head Life	50,000 hours	50,000 hours	50,000 hours	50,000 hours
Average Media Uses	30,000 passes	30,000 passes	30,000 passes	30,000 passes
Vibration (Operating)	.25 G peak	.25 G peak	.25 G peak	.25 G peak
Shock (Operating)	5.0 G peak	5.0 G peak	5.0 G peak	5.0 G peak
Altitude	10,000 feet	10,000 feet	10,000 feet	10,000 feet
Maximum Web Bulb Temperature	26° C	26° C	26° C	26° C
Operating Temperature	40° C to 104o F	40° C to 104° F	40° C to 104° F	40° C to 104° F
Storage Temperature	-40° C to 158o F	-40° C to 158° F	-40° C to 158° F	-40° C to 158° F
Operating Humidity	20% to 80%	20% to 80%	20% to 80%	20% to 80%
Power Consumption	12 watts	12 watts	18 watts	22 watts
Dimensions (average)	5.25" Half Height	5.25" Half Height	5.25" Half Height	5.25" Half Height
Weight (average)	2 lbs	2 lbs	2 lbs	2 lbs
Media	SDX1-35C	SDX2-50C	SDX3-100C	SDX4-200C
Warranty	3 Years	3 Years	3 Years	3 Years

*Compressed Capacity & Transfer Rate Assumes 2.6:1 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