

# WORKGROUP AIT AUTOLOADER

AutoDR™





GST's Workgroup AIT Autoloader is part of our AutoDR™ family. This Autoloader uses AIT-1, AIT-2, AIT-3, and AIT-4 tape technology and provides unattended backup capacity ranging up to 1.6TB native (4TB compressed). This compact autoloader spans the gap between GST's Single and Dual Tape Subsystems on one end and GST's tape libraries on the other end, adding considerable granularity to the GST tape product line. With the 8-cartridge configuration, total unattended backup capacity exceeds that of a single tape drive by 7 to 10 times. An LCD panel provides an advanced operator interface for visibility over backup operations.

## THE BIG PICTURE

- Eight AIT-1, AIT-2, AIT-3 or AIT-4 cartridges in an autoloader.
- Capacity: AIT-4 is 1.6TB native (4TB compressed).
- Speed: AIT-4 is 86GB/hour native (224GB compressed).
- Simplified unattended weekly backup.
- Logical extension of GST's single and dual AIT drives.
- Supports AIT-1, AIT-2, AIT-3, and AIT-4.
- Roadmap to AIT-5 and AIT-6.
- Outperforms DAT, VXA, and SLR drives.
- LCD operator panel improves backup efficiency.
- AIT range: single drive to enterprise-wide libraries.
- Supports LVD, HVD, and FC connections.
- WORM enabled.

The autoloader holds eight data cartridges, or seven data cartridges and a cleaning cartridge. The Workgroup AIT Autoloader can be used in a 7-day tape rotation procedure, allowing a full week, or even months, of unattended and automated data protection.

The Workgroup AIT Autoloader can backup a wide variety of servers. They connect natively with LVD (low voltage differential), HVD (high voltage differential), and FC (Fibre Channel) interfaces.

## MODEL OVERVIEW

GST's Workgroup AIT Autoloader is configured 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.

## 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 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, 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

**WORM Enabled** – AIT2, AIT3, and AIT4 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** – 8 cartridge configuration provides unattended AIT-4 backup capacities of 1.6TB native (4TB compressed), fully automating backups for an entire week, to the point each week when the magazine is removed for safe storage.

**Media Investment Protection** – AIT-1, AIT-2, AIT-3, and AIT-4 are backward-read compatible, and forward-read compatible to future generations.

## KEY FEATURES

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

**LCD Front Panel Menu** – Multi-function LCD display provides comprehensive menu-driven command and control functions for setup, configuration, operations and diagnostics.

**Convenient Drive Interface** – RS232 interface permits 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.



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SPECIFICATIONS	AIT-1	AIT-2	AIT-3	AIT-4
<b>Capacity</b>				
Native	280 GB	400 GB	800 GB	1.6 TB
Compressed	728 GB	1.04 TB	2.08 TB	4 TB
<b>Sustained Transfer Rate - MB/s</b>				
Native	4 MB/s	6 MB/s	12 MB/s	24 MB/s
Compressed	11 MB/s	16 MB/s	31 MB/s	62 MB/s
<b>Sustained Transfer Rate - GB/hr</b>				
Native	15 GB/hr	22 GB/hr	43 GB/hr	86 GB/hr
Compressed	37 GB/hr	56 GB/hr	112 GB/hr	224 GB/hr
<b>Drives and Media</b>				
Drive Type	AIT-1	AIT-2	AIT-3	AIT-4
Media	SDX1-35C	SDX2-50C	SDX3-100C	SDX4-200C
<b>Autoloader Configuration</b>				
Number of Drives	1	1	1	1
Number of Cartridges	8	8	8	8
<b>Autoloader Specifications</b>				
Cartridge Access Time	< 12 seconds	< 13 seconds	< 13 seconds	< 13 seconds
Cartridge Inventory Time	< 20 seconds	< 20 seconds	< 20 seconds	< 20 seconds
Power On to Ready	< 60 seconds	< 60 seconds	< 60 seconds	< 60 seconds
Autoloader MSB	> 250,000	> 250,000	> 250,000	> 250,000
Autoloader MTTR	< 30 min	< 30 min	< 30 min	< 30 min
Autoloader MTBF	> 250,000 hrs	> 250,000 hrs	> 250,000 hrs	> 250,000 hrs
<b>Physical Specs, Autoloader Only</b>				
Dimensions (H x W x D), Desk	7.25" x 8.63" x 18.25"	7.25" x 8.63" x 18.25"	7.25" x 8.63" x 18.25"	7.25" x 8.63" x 18.25"
Weight, Desk	25 lbs	25 lbs	25 lbs	25 lbs
Dimensions (H x W x D x U), Rack	7.25" x 8.63" x 18.25" x 4U	7.25" x 8.63" x 18.25" x 4U	7.25" x 8.63" x 18.25" x 4U	7.25" x 8.63" x 18.25" x 4U
Weight (unpopulated), Rack	25 lbs	25 lbs	25 lbs	25 lbs
<b>Warranty</b>	3 Years	3 Years	3 Years	3 Years

1. 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](http://www.gstinc.com)

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