

# SAIT Tape Drive

## FEATURES AND BENEFITS

- SAIT, a new tape-based data storage technology platform, has been developed to address the ever-increasing storage needs of data intensive network environments.
- Utilizing the advanced features of AIT, such as helical-scan recording technology, Advanced Metal Evaporated (AME) media, and Remote-Sensing Memory in Cassette (R-MIC), SAIT has achieved a massive 500 GB native storage capacity, or 1.3 TB max. compressed\*, within a half-inch, single-reel tape cartridge.
- An incredible sustained data transfer rate of 30 MB/s native and 78 MB/s compressed\* provides extraordinary performance for high-end enterprise solutions.
- Remote-Sensing Memory-In-Cassette (R-MIC) provides sophisticated data access capabilities, such as high-speed file search and file access.
- The half-inch single-reel tape cartridge is industry-standard size, allowing for minimal cost when integrating SAIT into existing automation solutions.
- Innovative features, such as the automatic head cleaning system, AME media, the effective “leader block” tape threading system, sealed deck design, and a simplified tape load path, result in improved reliability.

## SPECIFICATIONS

DRIVE TYPE	5.25" full-height tape drive
CAPACITY	500 GB (native), 1.3 TB (compressed)*
MEDIA	600m half-inch single-reel AME tape with R-MIC
INTERFACE	Ultra 160 Wide SCSI/Fibre Channel
SUSTAINED TRANSFER RATE	30 MB/s (native), 78 MB/s (compressed)*
BURST TRANSFER RATE	Asynchronous: 12 MB/s (max) Synchronous: 160 MB/s (max)
DATA COMPRESSION	Adaptive Lossless Data Compression (ALDC)
LINEAR RECORDING DENSITY	159,000 BPI
RECORDING BLOCK LENGTH	Variable or Fixed
AVERAGE MEDIA LOAD TIME	23 seconds (with R-MIC)
AVERAGE ACCESS TIME	70 seconds
SEARCH SPEED	157 inches/s (max)
REWIND SPEED	551 inches/s (max)
DRUM ROTATIONAL SPEED	4,900 RPM
BUFFER SIZE	72 MB
ERROR RATE	Less than 10 <sup>-17</sup> bits
MTBF**	500,000 hours at 100% duty cycle
R/W HEAD LIFE**	50,000 tape contact hours
MEDIA USES**	30,000 end-to-end passes
MEMORY IN CASSETTE	64-kbit Remote-Sensing MIC (R-MIC)
VIBRATION (OPERATING)	0.25 G peak swept sine wave of 5 to 500 Hz
ENVIRONMENTAL	Altitude: up to 10,000 feet Temperature: Operating: 41°F to 104°F (5°C to 40°C) Storage: -40°F to 158°F (-40°C to 70°C) Operating Humidity: 20% to 80% (non-condensing)
POWER REQUIREMENTS	DC 5 V +/-5%, DC 12 V +/-10% (internal)
POWER CONSUMPTION	29 watts (internal, typical)
DIMENSIONS (WxHxD)	5.75 x 3.25 x 11.82 inches (internal)
WEIGHT	8 lbs, 4 oz (internal)
LIMITED WARRANTY	3 year limited warranty

\*Assuming 2.6:1 compression with ALDC

\*\*MTBF, head life and media use specifications are averages based on normal office environmental conditions. Actual experience may vary.

## DRIVE CHARACTERISTICS



SAIT 5.25" full-height tape drive

## MEDIA CHARACTERISTICS



600m AME 500 GB SAIT-1 media

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