

AIT-3 Tape Drive

FEATURES AND BENEFITS

- High capacity storage for data security and archiving – up to 100 GB native storage capacity, or 260 GB compressed (2.6:1) in a compact, 3.5" half-height form-factor.
- Extremely durable Advanced Metal Evaporated (AME) media – provides extraordinary reliability and a virtually contamination-free environment reducing the need for periodic cleaning.
- Sophisticated data access capability with Remote Memory-In-Cassette, a 64-kbit memory chip built into the data cartridge – provides high speed file location and file access.
- Super Head Cleaner™ mechanism provides an automated cleaning solution – increases data integrity and reduces the need for periodic cleaning.
- Adaptive Lossless Data Compression (ALDC) provides greater data compression efficiency – offers average compression of 2.6:1.
- Helical scan recording writes the tape in one pass with a slow tape speed – reduces wear-and-tear on the tape media and drive, increasing reliability and head life.
- Read-and-write backward compatible with previous generation AIT models – provides investment protection.

SPECIFICATIONS

INTERFACE	Ultra 160 SCSI, Single-Ended Low Voltage Differential (LVDS)	
MAX CAPACITY (230M TAPE)	100GB (native), 260GB (assuming 2.6:1 data compression)	
DATA COMPRESSION	IBM's Adaptive Lossless Data Compression (ALDC)	
SUSTAINED TRANSFER RATE	12MB/s (native), 31MB/s (assuming 2.6:1 data compression)	
BURST TRANSFER RATE	Asynchronous: 14MB/s, Synchronous: 160MB/s	
LINEAR RECORDING DENSITY	155,000 BPI	
RECORDING BLOCK LENGTH	Variable or Fixed	
AVERAGE MEDIA LOAD TIME	10 seconds	
AVERAGE ACCESS TIME	27 seconds	
SEARCH/REWIND SPEED	160 inch/s maximum	
DRUM ROTATION SPEED	6,000 rpm	
BUFFER SIZE	18MB	
UNCORRECTABLE ERROR RATE	Less than 10 ⁻¹⁷ bits	
RELIABILITY*	MTBF	400,000 hours at 100% duty cycle
	R/W head life	50,000 tape contact hours
	Media uses	30,000 end-to-end passes
	Media archival life	Up to 30 years
MEMORY IN CASSETTE	64-kbit Physical Contact and Remote Sensing MIC	
HEAD COMPOSITION	Hyper Metal Trimmed Construction (write), New Laminated (read)	
VIBRATION (OPERATING)	0.25G peak, half sine wave of 5 to 500 Hz (swept)	
ENVIRONMENTAL	Altitude	Up to 10,000 feet
	Temperature	Operating: 40° 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 REQUIREMENT	Internal: DC 5V ±5%, DC 12V±10% External: AC100-200/220-240V	
POWER CONSUMPTION	18 watts (average, internal)	
DIMENSIONS (WxHxD)	Internal: 4.0" x 1.62" x 6.10" (101.6 x 41.3 x 154.9 mm) External: 7.44" x 2.28" x 10.31" (189 x 57.9 x 261.9 mm)	
WEIGHT	Internal: 1 lb 11 oz (.78 kg) External: 4 lb 14 oz (2.2 kg)	
WARRANTY	3-Year Limited	

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

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 Nonmetric weights and measurements are approximate.
 Features and specifications subject to change without notice.
 Preliminary AIT-3-DS-0301

MEDIA COMPATIBILITY



AIT-3 DATA CARTRIDGE WITH R-MIC
 230 meter A-ME AIT-3, 100GB tape cartridge

R/W COMPATIBLE MEDIA
 230 meter A-ME AIT-2, 50GB tape cartridge
 170 meter A-ME AIT-2, 36GB tape cartridge
 230 meter A-ME AIT-1, 35GB tape cartridge
 170 meter A-ME AIT-1, 25GB tape cartridge

AIT CLEANING CARTRIDGE
 AIT cleaning cartridge (Approx. 70 cleanings)

Sony Electronics Inc.
 Computer Components & Peripherals Division
 3300 Zanker Road
 San Jose, California 95134
 1-800-352-SONY (352-7669)
<http://www.sony.com/storagebysony>

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