

AIT-4 TAPE DRIVE, OEM MODEL



- Compact, 3.5-inch form-factor for easy integration
- High capacities within a small space
- Proven, multi-generation roadmap¹ with backward compatibility²
- Compatible with most major backup storage management software and operating systems
- WORM functionality for enhanced data security³

BUSINESS CHALLENGE:

Storage capacities continue to skyrocket as businesses are creating data at astounding rates. Companies depend on the availability and integrity of that data. Yet, the threat of data loss is on the rise, whether it be from viruses, natural disasters, human error, or hardware/software malfunction. IT managers are challenged with implementing a solution that provides reliable, high performance backup to sustain shrinking backup windows, and high capacity to support continuing data growth. All this while maximizing shrinking budgets.

BUSINESS SOLUTION:

Sony's AIT-4 drives are a culmination of years of research and development and innovation in recording technologies. Sony's engineering expertise has resulted in industry-leading reliability and density.⁴ AIT-4's superior reliability comes from the use of the very durable and pure AME media, slow moving tape through the use of helical scan recording, and automatic head cleaning mechanism. The extraordinary density achieved with AIT-4 provides up to 200 GB native on a single 8mm cartridge. These compact cartridges allow for more efficient use of space so more media cartridges can be stored on less shelf space. A native transfer rate of 24 MB/s provides backup of up to 86.4 GB per hour. What's more, AIT-4 drives are priced extremely competitively when compared cost per GB to other competing technologies. AIT-4 — Fast. Reliable. High capacity. Cost-effective. Problem solved.



Pictured: SDX4-200C

**AIT - FOR PEACE OF MIND, IT'S A SMART INVESTMENT.
NO WONDER THEY CALL IT THE ADVANCED INTELLIGENT TAPE™ SOLUTION.**

1. Specifications and product development plans are subject to change without notice.
 2. Backward read-and-write compatible with AIT-3 media and backward read compatible with AIT-2 and AIT-1 media.
 3. WORM firmware expected to be available during Q1 2005.
 4. Source: Published specifications as of August 13, 2004.



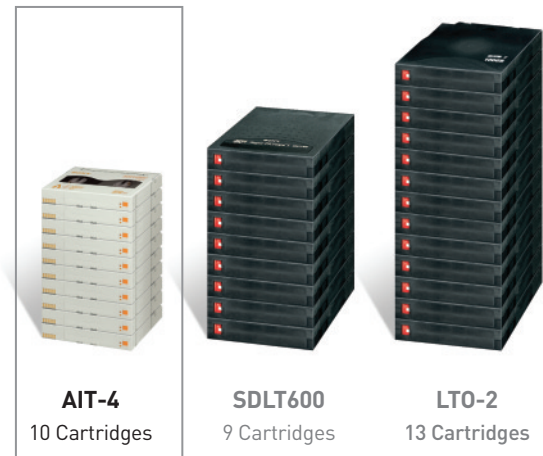
AIT-4 TAPE DRIVE, OEM MODEL

- **High capacity storage for data security and archiving** – up to 200 GB native storage capacity, or 520 GB compressed (2.6:1) in a compact, 3.5" half-height form-factor.
- **Data transfer rate of 24 MB/s native** provides high performance for today's most demanding environments – backup up to 86.4 GB/hour native.
- **Extremely durable Advanced Metal Evaporated (AME) media** – provides a virtually contamination-free environment reducing the need for periodic cleaning, and extraordinary reliability.
- **Sophisticated data access capability with Remote Memory-In-Cassette (R-MIC)**, a 64-kbit memory chip embedded into the data cartridge – provides high speed file location and file access.
- **Super Head Cleaner™ mechanism** – provides an automated cleaning solution increasing head life and reducing 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.
- **Backward read-and-write compatible with AIT-3 media and backward read compatible with AIT-2 and AIT-1 media** – offers flexibility and convenience, and provides investment protection.
- **Write Once/Read Many (WORM) functionality¹** – Provides added security reducing the likelihood that recorded data will be maliciously or inadvertently erased or altered, and shortens the time it takes to access to data.

		AIT-4 Tape Drive		
TECHNOLOGY	DRIVE TYPE	3.5" half-height tape drive		
	MODEL NUMBERS	SDX-900V	Internal SCSI SE/LVD AIT-4 Tape Drive	
		SDX-D900V/NB	External SCSI SE/LVD AIT-4 Tape Drive	
	INTERFACE	Ultra160 Wide SCSI LVD/SE		
	RECORDING METHOD	Helical-Scan		
	DATA COMPRESSION	Adaptive Lossless Data Compression (ALDC)		
	MEMORY IN CASSETTE	64-kbit Remote Contact MIC		
	LINEAR RECORDING DENSITY	203,000 BPI		
	RECORDING BLOCK LENGTH	Variable or Fixed		
	CAPACITY AND PERFORMANCE	MAX. CAPACITY	200 GB (native), 520 GB (compressed) ²	
SUSTAINED TRANSFER RATE		24 MB/s (native)		
BURST TRANSFER RATE		Synchronous: 160 MB/s (max)		
AVERAGE MEDIA LOAD TIME		14 seconds		
AVERAGE ACCESS TIME		44 seconds		
SEARCH/REWIND SPEED		130 inches/s (max)		
DRUM ROTATIONAL SPEED		8,506 RPM		
BUFFER SIZE		96 MB		
RELIABILITY³		ERROR RATE	Less than 10 ⁻¹⁷	
		MTBF	400,000 hours at 100% duty cycle	
	R/W HEAD LIFE	50,000 tape contact hours (typical)		
	MEDIA USES	30,000 passes (typical)		
	PHYSICAL CHARACTERISTICS	8mm, dual-reel cartridge w/MIC		
MEDIA	MEDIA TYPE	Advanced Metal Evaporated II (AMEII)		
	READ/WRITE COMPATIBLE	SDX4-200C	246m 200 GB AMEII AIT-4 data cartridge	
		SDX4-200W	246m 200 GB AMEII AIT-4 WORM data cartridge ¹	
		SDX3-100C	230m 100 GB AME AIT-3 data cartridge	
		SDX3-100W	230m 100 GB AME AIT-3 WORM data cartridge ¹	
READ COMPATIBLE	SDX2-50C	230m 50 GB AME AIT-2 data cartridge		
	SDX2-50W	230m 50 GB AME AIT-2 WORM data cartridge ¹		
	SDX2-36C	170m 36 GB AME AIT-2 data cartridge		
	SDX1-35C	230m 35 GB AME AIT-1 data cartridge		
	SDX1-25C	170m 25 GB AME AIT-1 data cartridge		
	SDX4-CL	AIT Cleaning Cartridge		
ENVIRONMENT	VIBRATION (OPERATING)	0.25 G peak swept sine wave of 5 to 500 Hz		
	ALTITUDE	Up to 10,000 feet		
	OPERATING TEMPERATURE	Internal:	40°F to 104°F [5°C to 40°C]	
		External:	50°F to 95°F [10°C to 35°C]	
	STORAGE TEMPERATURE	-40°F to 158°F [-40°C to 70°C]		
	OPERATING HUMIDITY	Internal:	20% to 80% RH (non-condensing)	
		External:	30% to 80% RH (non-condensing)	
	MAX. WET BULB TEMPERATURE	Non-operating limit: <113°F [-45°C] Operating environment: 78.8°F [26°C]		
	POWER REQUIREMENTS	Internal:	DC 5 V +/-5%, DC 12 V +/-10%	
		External:	AC100-200/220-240V	
POWER CONSUMPTION	Internal:	17 watts (average)		
	External:	20 watts (average)		
DIMENSIONS (WxHxD)	Internal:	4.0 x 1.62 x 6.10 inches [101.6 x 41.2 x 155 mm]		
	External:	7.80 x 2.54 x 9.69 inches [198 x 64.5 x 246 mm]		
WEIGHT	Internal:	1 lb, 11 oz [780 g]		
	External:	5 lbs, 5 oz [2.4 kg]		
WARRANTY	3 year limited warranty			

	APPROX. DIMENSIONS (cm)			CAPACITY		NUMBER OF CARTRIDGES REQUIRED FOR 5 TB	
	HEIGHT	WIDTH	DEPTH	NATIVE	COMPRESSED	NATIVE	COMPRESSED
AIT-4	1.5	9.5	6.1	200 GB	520 GB	25	10
SDLT600	2.1	10.5	10	300 GB	600 GB	17	9
LTO-2	2.1	10.5	10	200 GB	400 GB	25	13

Number of Cartridges required for 5 TB.



1. WORM firmware expected to be available during Q1 2005

2. Assuming 2.6:1 compression with ALDC

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

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