

SONY AIT-2 TAPE DRIVE

OEM / SYSTEM INTEGRATION PRODUCTS

ADVANCED INTELLIGENT TAPE™ 2 DRIVE

50 GB, 6.0 MB/S

SONY'S TAPE TECHNOLOGY LEADERSHIP
DELIVERS HIGH PERFORMANCE AND CAPACITY
IN AN ULTRA-RELIABLE, INNOVATIVE
3.5" FORM FACTOR

50 GB



SDX-500C



AVAX
990224
PROOF 2

Storage by Sony



COMMITMENT

AIT-2 is the second generation of Sony's innovative AIT product family, illustrating Sony's commitment to advancing this tape technology into the next millennium. As data storage requirements increase, you can be confident AIT will be there to fulfill your needs. AIT-2 is also fully read and write backward compatible with AIT-1, insuring your data will be accessible for years to come.

PERFORMANCE

With a 50 GB native capacity per tape and a 6 MB/s native transfer rate, AIT-2 is twice the speed and transfer rate of our original AIT-1 tape drive. All in a compact 3.5" half-height form factor, guaranteeing AIT-2 will fit the demanding capacity and speed your data needs.

RELIABILITY

Trellis Coded Partial Response (TCPR), the data encoding used by AIT-2, decreases head noise, thus increasing data reliability. TCPR combined with Sony's patented Hyper Metal™ laminate heads, which provide an additional increase to signal-to-noise ratio, make AIT-2 extremely durable and ideal for high duty-cycle use, including strenuous tape array and library robotics applications.

MEMORY IN CASSETTE (MIC)

Incorporating a 65Kbit flash memory chip into the AIT-2 data cartridge provides an express route to data, reducing average access time to fewer than 20 seconds. AIT-2 also features a remote-sensing, non-contact MIC reader, extending the life of the reader.

MEDIA

All AIT drives are designed for exclusive use of Advanced Metal Evaporated (AME) media, providing the patented "Diamond Like Carbon" (DLC) coating with a higher output metalization layer. AME media provides an extremely long head life with little to no cleaning required, and thousands of media uses.

SPECIFICATIONS

DRIVE TYPE	3.5" 8 mm AIT-2 tape drive
MEDIA	SDX2-50C: 230 meter Advanced-Metal Evaporated+ (A-ME+) AIT-2 tape SDX-T3C: 170 meter Advanced-Metal Evaporated (A-ME) AIT-1, 25 GB tape SDX1-35C: 230 meter Advanced-Metal Evaporated (A-ME) AIT-1, 35 GB tape
INTERFACE	ULTRA SCSI, Single-Ended, Low Voltage Differential (LVDS)
DATA COMPRESSION	IBM's Advanced Lossless Data Compression (ALDC)
CAPACITY (230 M AIT-2 TAPE)	50 GB (native), 100 GB (assuming 2:1 data compression)
SUSTAINED TRANSFER RATE	6 MB/s (native), 12 MB/s (assuming 2:1 data compression)
BURST TRANSFER RATE	Synchronous: 40.0 MB/s Maximum
LINEAR RECORDING DENSITY	167 bpi
RECORDING BLOCK LENGTH	Variable or Fixed
AVERAGE MEDIA LOAD TIME	10 Seconds
AVERAGE ACCESS TIME	27 Seconds
SEARCH SPEED	160 inches/s, Maximum
REWIND SPEED	160 inches/s Maximum
DRUM ROTATIONAL SPEED	6400 rpm
BUFFER SIZE	8 MB
UNCORRECTABLE ERROR RATE	Less than 10 ⁻¹⁷ bits
MTBF	250,000 hours
AVERAGE R/W HEAD LIFE	50,000 tape contact hours
AVERAGE MEDIA USES	30,000 end to end passes
COMPATIBILITY	Read/Write Compatible with AIT-1 and AIT-2 Formats and Media
MEMORY IN CASSETTE (MIC)	Remote Sensing MIC
VIBRATION (OPERATING)	0.25 G peak, half sine wave of 50 to 500 Hz (swept)
SHOCK (OPERATING)	5.0 G peak, half sine wave of 3 ms duration
HEAD COMPOSITION	Hyper Metal Laminated Construction (write), Ferrite (read)
ENCODING SYSTEM	TCPR (Trellis Coded Partial Response)
TRACK PITCH	11 microns
ALTITUDE	10,000 feet
MAXIMUM WET BULB TEMPERATURE	26° F
OPERATING TEMPERATURE	40° F to 104° F (5° C to 40° C)
STORAGE TEMPERATURE	-40° F to -158° F (-40° C TO 70° C)
OPERATING HUMIDITY	20% to 80% (non-condensing)
POWER REQUIREMENT	DC 5 V ±5% , DC 12 V ±10% (internal) AC 100-200/220-240 V (external)
POWER CONSUMPTION	12 watts (typical, internal)
DIMENSIONS (INTERNAL)	3.5" Half Height / 101.6 mm W x 41.3 mm H x 155 mm D
DIMENSIONS (EXTERNAL)	7.44" W x 2.28" H x 10.31" D
WEIGHT (INTERNAL)	1 lb. 11.5 oz. (.78 kg.)
WEIGHT (EXTERNAL)	4 lbs. 14 oz. (2.2 kg.)
MODELS	SDX-500C Internal Single Ended and Low Voltage Differential (LVD) SDX-S500C External Single Ended (189 x 57.9 x 261.9 mm)

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



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