

SONY AIT TAPE DRIVE

OEM / SYSTEM INTEGRATION PRODUCTS

ADVANCED INTELLIGENT TAPE DRIVE

25 GB, 3.0 MB/S

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



SDX-300C



Storage by Sony



Leadership capacity, performance and reliability in a compact, 3.5" form factor

HIGH SPEED DATA TRANSFER

With a recording density of 116 kbits per inch, the SDX-300C offers a sustained data transfer rate of 3.0 MB/s (native) to over 6 MB/s (assuming 2:1 data compression). The drive uses a fast/wide SCSI with a burst transfer rate of 20 MB/s.

LARGE CARTRIDGE CAPACITY

The SDX-300C family can store 25 GB (native) or 50 GB (assuming 2:1 data compression) on a single 8 mm size data cartridge.

SYSTEM DESIGN CONVENIENCE

The SDX-300C family includes a fast/wide SCSI interface with a 68-pin single-ended or differential interface or an 80-pin SCA connector and a self cooling design.

EXCEPTIONAL RELIABILITY

Utilizing Sony's extensive technology expertise in 8 mm tape recording, the SDX-300C products are designed to provide 200,000 hour MTBF, an average head life of 50,000 hours and an average of 30,000 media uses.*

MEMORY-IN-CASSETTE

Incorporating a flash memory chip within the data cartridge, the SDX-300C provides ultra fast media load and fast file search as well as the ability for applications to read and write to the memory chip.

MEDIA COMPATIBILITY

The SDX-300C family is designed exclusively for use with Sony's Advanced Metal Evaporated (AME) media technology incorporating pure cobalt metal-lization with a super-durable "diamond-like carbon coating" (DLC). AME tape is available with or without Memory-In-Cassette (MIC).

SPECIFICATIONS

DRIVE TYPE	3.5" 8 mm tape drive
MEDIA	170 meter Advanced-Metal Evaporated (AME) tape: SDX-T3N (without MIC) SDX-T3C (with MIC)
INTERFACE	SCSI-2 Fast/Wide, Single-Ended or Differential
STANDARDS COMPLIANCE	ECMA-246
DATA COMPRESSION	IBM's Advanced Lossless Data Compression (ALDC)
CAPACITY	25 GB (native) 50 GB (assuming 2:1 data compression)
SUSTAINED TRANSFER RATE	3 MB/s (native) 6 MB/s (assuming 2:1 data compression)
BURST TRANSFER RATE	Asynchronous: 5.0 MB/s Synchronous: 20.0 MB/s
LINEAR RECORDING DENSITY	116,000 BPI
RECORDING BLOCK LENGTH	Variable or fixed
AVERAGE MEDIA LOAD TIME	20 seconds (without MIC) 10 seconds (with MIC)
AVERAGE ACCESS TIME	55 seconds (without MIC) 27 seconds (with MIC)
SEARCH SPEED	60 inches/s (without MIC) 120 inches/s (with MIC)
REWIND SPEED	120 inches/s (150 times nominal)
DRUM ROTATIONAL SPEED	4,800 rpm
BUFFER SIZE	4 MB
UNCORRECTABLE ERROR RATE	Less than 10 ⁻¹⁷ bits
MTBF*	200,000 Power On Hours (POH)
AVERAGE R/W HEAD LIFE*	50,000 tape contact hours
AVERAGE MEDIA USES*	30,000 end-to-end passes
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
ALTITUDE	10,000 feet
MAX. WET BULB TEMP.	26°C
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 (average, internal) 21 watts (average, external)
DIMENSIONS, INTERNAL, S/E	4.0" W x 1.62" H x 6.10" D (101.6 x 41.1 x 154.9 mm)
DIMENSIONS, INTERNAL, DIFF	4.0" W x 1.62" H x 6.97" D (101.6 x 41.1 x 177 mm)
DIMENSIONS, EXTERNAL	7.44" W x 2.28" H x 10.31" D (189 x 57.9 x 261.9 mm)
WEIGHT, INTERNAL, S/E & DIFF	1 lb 11 oz (765 g)
WEIGHT, EXTERNAL	4 lb 14 oz (2.2 kg)
MODELS	SDX-300C 68-pin Single Ended SDX-302C 80-pin SCA SDX-310C 68-pin Differential SDX-S300C External Single Ended

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

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Printed USA 2/98
SDX3-G2-DS-0298