

# AIT-2 Specifications

TECHNOLOGY			
DRIVE TYPE	3.5" half-height tape drive		
MODEL NUMBERS	SDX-500V	Internal SCSI SE/LVD AIT-2 Tape Drive	
	SDX-520C	Internal ATAPI (IDE) AIT-2 Tape Drive	
INTERFACE	Wide Ultra SCSI SE/LVD or ATAPI (IDE)		
RECORDING METHOD	Helical-Scan		
DATA COMPRESSION	Adaptive Lossless Data Compression (ALDC)		
MEMORY-IN-CASSETTE	64 Kbit Mechanical Contact MIC		
LINEAR RECORDING DENSITY	167,000 BPI		
RECORDING BLOCK LENGTH	Variable or Fixed (SDX-520C: Fixed only)		
CAPACITY AND PERFORMANCE			
MAX CAPACITY (w/ SDX2-50C)	50 GB (native), 130 GB (compressed)*		
SUSTAINED TRANSFER RATE	6 MB/s (native), 15.6 MB/s (compressed)*		
BURST TRANSFER RATE	SCSI:	Synchronous:	40 MB/s (max)
	ATAPI (IDE):	Ultra DMA mode 4	66 MB/s (max)
AVERAGE MEDIA LOAD TIME	14 seconds		
AVERAGE ACCESS TIME	27 seconds (170 meter tape)		
	40 seconds (230 meter tape)		
SEARCH/REWIND SPEED	160 inches/s (max)		
DRUM ROTATIONAL SPEED	6,400 RPM		
BUFFER SIZE	SDX-500V:	12 MB	
	SDX-520C:	10 MB	
RELIABILITY**			
ERROR RATE	Less than 10 <sup>-17</sup> bits		
MTBF	300,000 hours at 100% duty cycle		
R/W HEAD LIFE	50,000 tape contact hours		
MEDIA USES	30,000 end-to-end passes		
MEDIA			
PHYSICAL CHARACTERISTICS	8mm, dual-reel cartridge w/ MIC		
MEDIA TYPE	Advanced Metal Evaporated (AME)		
MODEL NUMBERS	SDX2-50C	230 meter 50 GB AME AIT-2 data cartridge	
	SDX2-36C	170 meter 36 GB AME AIT-2 data cartridge	
	SDX1-35C	230 meter 35 GB AME AIT-1 data cartridge	
	SDX1-25C	170 meter 25 GB AME AIT-1 data cartridge	
	SDX1-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	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 REQUIREMENTS	DC 5 V +/-5%, DC 12 V +/-10%		
POWER CONSUMPTION	SDX-500V	10 watts (average)	
	SDX-520C	12 watts (average)	
DIMENSIONS (WxHxD)	4.0 x 1.62 x 6.10 inches (101.6 x 41.1 x 154.9 mm)		
WEIGHT	1 lb, 10 oz (740 g) (SDX-500V/P)		
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.