



AIT (Advanced Intelligent Tape) Data Cartridge

Fourth generation AIT technology packs

520GB (compressed) into a tiny cartridge.



AIT-4 format 200GB/520GB massive capacity

Designed for the new AIT-4 format, the SDX4-200C and AIT-4 WORM format, SDX4-200W cartridge offers a massive 200GB native capacity, 520GB compressed. Transfer rate is an-ultra-fast 24MB/s native when using an AIT-4 drive.

AIT family offers versatile solutions

Scalable AIT format:

- Compressed capacities from 65GB to 520GB (25GB to 200GB native)
- Write-once read-many solution available

Sony offers a full line of AIT products, widely used by government agencies, the financial industry and others worldwide.

Proven Technology: AME & New AME II

In the AIT format Sony has applied advanced technologies refined and proven over many years. Since the format's debut in 1996, AIT has employed AME (Advanced Metal Evaporated) tape, and received high acclaim from data storage professionals for the outstanding reliability of its technology.

AME II, the successor of AME, was developed for AIT-4.

AME II enables AIT-4 media's extraordinary areal recording density as well as its high durability. AME II uses a new method for applying the magnetic layer to the tape, an enforced coating layer, and a newly developed lubricant for stable operation.

Path to the AIT future

Sony has already achieved areal data density of 11.5Gbps in the laboratory. For the AIT format, this translates into 2TB capacity per media package. The AIT format's migration path is built on this kind of ongoing innovation.



MODEL NAME	SDX1-25C	SDX1-35C	SDX2-50C	SDX2-50W
GENERAL CHARACTERISTICS				
Format	AIT-1		AIT-2	
Magnetic Material	AME			
Recording Density (kftpm)	5.7 (145kftpi/116kbp)		8.2 (208kftpi/167kbp)	
Track Width (µm)	11.0			
Recording Capacity (Compressed*)	25GB (65GB*)	35GB (91GB*)	50GB (130GB*)	
MAGNETIC CHARACTERISTICS				
Residual Magnetic Flux Density (mT)	500		530	
Coercive Force (kA/m)	105		110	
PHYSICAL CHARACTERISTICS				
Tape Width (mm)	8.0			
Tape Thickness (µm)	7.0	5.3	5.3	
Tape Length (m)	170	230	230	
ENVIRONMENTAL REQUIREMENTS				
Operation Conditions (°F(°C);%RH)	41~113 (5~45);20~80**			
Storage Conditions (°F(°C);%RH)	41~90 (5~32);20~60**			
Transportation Conditions (°F(°C);%RH)	-40~113 (-40~45);5~80**			
DIMENSIONS				
External Dimensions (mm)	95.0 x 62.5 x 15.0			
Weight (g)	79 (with case)			

MODEL NAME	SDX3-100C	SDX3-100W	SDX4-200C	SDX4-200W
GENERAL CHARACTERISTICS				
Format	AIT-3		AIT-4	
Magnetic Material	AME			
Recording Density (kftpm)	6.8 (168kftpi/155kbp)		9.0 (228kftpi/203kbp)	
Track Width (µm)	5.5		4.4	
Recording Capacity (Compressed*)	100GB (260GB*)		200GB (520GB*)	
MAGNETIC CHARACTERISTICS				
Residual Magnetic Flux Density (mT)	550		500	
Coercive Force (kA/m)	110		140	
PHYSICAL CHARACTERISTICS				
Tape Width (mm)	8.0			
Tape Thickness (µm)	5.3		4.8	
Tape Length (m)	230		246	
ENVIRONMENTAL REQUIREMENTS				
Operation Conditions (°F(°C);%RH)	41~113 (5~45);20~80**			
Storage Conditions (°F(°C);%RH)	41~90 (5~32);20~60**			
Transportation Conditions (°F(°C);%RH)	-40~113 (-40~45);5~80**			
DIMENSIONS				
External Dimensions (mm)	95.0 x 62.5 x 15.0			
Weight (g)	79 (with case)			

* 1:2.6 Compression Ratio. ** Maximum wet bulb temperature: 79°F(26°C) at no condensation. WORM format may not be supported by some drives.

Drive/Media Compatibility

Format	Model	AIT-1 Drive		AIT-2 Drive	AIT-3 Drive	AIT-4 Drive
		SDX-300 Series	SDX-400 Series	SDX-500 Series	SDX-700 Series	SDX-900 Series
AIT-1 Media	SDX1-25C 25GB(Native), 65GB(Compressed)	Read/Write 3MB/s	Read/Write 4MB/s	Read/Write 4MB/s	Read/Write 8MB/s	Reject
	SDX1-35C 35GB(Native), 91GB(Compressed)	Read/Write 3MB/s	Read/Write 4MB/s	Read/Write 4MB/s	Read/Write 8MB/s	Reject
AIT-2 Media	SDX2-36C 36GB(Native), 93GB(Compressed)	Reject	Reject	Read/Write 6MB/s	Read/Write 12MB/s	Reject
	SDX2-50C 50GB(Native), 130GB(Compressed)	Reject	Reject	Read/Write 6MB/s	Read/Write 12MB/s	Reject
AIT-3 Media	SDX3-100C 100GB(Native), 260GB(Compressed)	Reject	Reject	Reject	Read/Write 12MB/s	Reject
AIT-4 Media	SDX4-200C 200GB(Native), 520GB(Compressed)	Reject	Reject	Reject	Reject	Read/Write 24MB/s
AIT WORM Media	SDX2-50W 50GB(Native), 130GB(Compressed)	Reject	Reject	Read/Write* 6MB/s	Read/Write* 12MB/s	Reject
	SDX3-100W 100GB(Native), 260GB(Compressed)	Reject	Reject	Reject	Read/Write* 12MB/s	Reject
	SDX4-200W 200GB(Native), 520GB(Compressed)	Reject	Reject	Reject	Reject	Read/Write* 24MB/s

* May not be supported by some drives.