

AIT (ADVANCED INTELLIGENT TAPE™) DATA CARTRIDGE

From small offices to large businesses, AIT Data Cartridge is the intelligent answer for your back-up requirements.

Large Capacity and Great Reliability

Sony's latest drive technology and AME media formulation come together to deliver high reliability and great performance with the AIT format. Our 8mm AIT-5 cartridge offers up to 400GB (1,040GB compressed) and a fast transfer speed of 24MB/s.

Versatile Solutions in a Small Tape

The AIT tape family offers different storage capacities that will fit your specific needs: from 25GB (native) to 1,040GB (compressed). Sony's AIT tapes have a compression ratio of 2.6 to 1, which means more compressed capacity than other formats with the same native capacity of our AIT tapes. Plus, when the integrity of the data is a top priority, AIT provides tape solutions with WORM (Write Once Read Many) capabilities, so once the data is written or saved on the tape it's impossible to delete it or alter it.



SDX1-25C



SDX1-35C



SDX2-50C



SDX2-50W



	SDX1-25C	SDX1-35C
Format	AIT-1	
Magnetic Type	AME	
MIC Type	16K MIC	64K R-MIC
Recording Capacity (Compression ratio 2.6:1)	25GB (65GB)	35GB (91GB)
Data Transfer Rate (MB/s)	4	
Tape Width (mm)	8	
Tape Thickness (µm)	7	5.3
Tape Length (m)	170	230
Cartridge Dimensions (mm)	95 x 62.5 x 15	
Weight (g)	79 (with case)	
Environmental Requirements		
Operation Conditions °F(°C) / %RH	41~113 (5~45) / 20~80*	
Storage Conditions °F(°C) / %RH	41~89.6 (5~32) / 20~60*	
Transportation Conditions °F(°C) / %RH	40~113 (-40~45) / 5~80*	

*Maximum wet bulb temperature : 79°F(26°C) at no condensation.

	SDX2-50C	SDX2-50W ¹
Format	AIT-2	
Magnetic Type	AME	
MIC Type	64K R-MIC	
Recording Capacity (Compression ratio 2.6:1)	50GB (130GB)	50GB (130GB)
Data Transfer Rate (MB/s)	6	
Tape Width (mm)	8	
Tape Thickness (µm)	5.3	
Tape Length (m)	230	
Cartridge Dimensions (mm)	95 x 62.5 x 15	
Weight (g)	79 (with case)	
Environmental Requirements		
Operation Conditions °F(°C) / %RH	41~113 (5~45) / 20~80 ²	
Storage Conditions °F(°C) / %RH	41~89.6 (5~32) / 20~60 ²	
Transportation Conditions °F(°C) / %RH	40~113 (-40~45) / 5~80 ²	

¹ Application software supporting WORM is required to utilize WORM functionality. Please check with your software provider to confirm WORM support.

² Maximum wet bulb temperature: No condensation at 79°F (26°C)



AIT Cleaning Cartridges

AIT drives have a self-cleaning mechanism, so frequent use of cleaning cartridges is not necessary. Use when the drive's cleaning lamp turns on.

SDX1-CL

Cleaning cartridge designed exclusively for the AIT-3/-2/-1 format.



SDX1-CL	
Tape Width (mm)	8
Tape Thickness (mm)	7.5
Average Number of Cleaning Times	Approx. 60 times (AIT-1 drives, AIT-2 drives, AIT-E Turbo drives, AIT-1 Turbo drives) Approx. 55 times (AIT-2 Turbo drives, AIT-3 drives)
Usable Drives	AIT-1, AIT-2, AIT-3, AIT-E Turbo, AIT-1 Turbo, AIT-2 Turbo
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*

*Maximum wet bulb temperature : 79°F(26°C) at no condensation.

SDX3X-CL

Exclusive cleaning cartridge for AIT-3Ex drives. Automatically senses head conditions to provide an optimized cleaning cycle.

SDX4-CLL

Exclusive cleaning cartridge for AIT-4 drives. Automatically senses head conditions to provide an optimized cleaning cycle.

SDX5-CL

Exclusive cleaning cartridge for AIT-5 drives. Automatically senses head conditions to provide an optimized cleaning cycle.

	SDX3X-CL	SDX4-CLL	SDX5-CL
Tape Width (mm)	8	8	8
Tape Thickness (mm)	6.1	6.1	6.1
Average Number of Cleaning Times	Average 80 times	Average 50 times	Average 80 times
Usable Drives	AIT-3Ex Drives	AIT-4 Drives	AIT-5 Drives
Environmental Requirements			
Operation Conditions °F(°C) / %RH	41~113 (5~45);20~80*		
Storage Conditions °F(°C) / %RH	41~89.6 (5~32);20~60*		
Transportation Conditions °F(°C) / %RH	-40~113 (-40~45);5~80*		

*Maximum wet bulb temperature : 79°F(26°C) at no condensation.



SDX3-100C



SDX3-100W



SDX3X-150C



	SDX3-100C	SDX3-100W ^{*1}
Format	AIT-3	
Magnetic Type	AME	
MIC Type	64K R-MIC	
Recording Capacity (Compression ratio 2.6:1)	100GB (260GB)	100GB (260GB)
Data Transfer Rate (MB/s)	12	
Tape Width (mm)	8	
Tape Thickness (µm)	5.3	
Tape Length (m)	230	
Cartridge Dimensions (mm)	95 x 62.5 x 15	
Weight (g)	79 (with case)	
Environmental Requirements		
Operation Conditions °F(°C) / %RH	41~113 (5~45) / 20~80 ^{*2}	
Storage Conditions °F(°C) / %RH	41~89.6 (5~32) / 20~60 ^{*2}	
Transportation Conditions °F(°C) / %RH	40~113 (-40~45) / 5~80 ^{*2}	

*1 Application software supporting WORM is required to utilize WORM functionality. Please check with your software provider to confirm WORM support.
 *2 Maximum wet bulb temperature: No condensation at 79°F (26°C)

	SDX3X-150C
Format	AIT-3Ex
Magnetic Type	AME II
MIC Type	64K R-MIC
Recording Capacity (Compression ratio 2.6:1)	150GB (390GB)
Data Transfer Rate (MB/s)	18
Tape Width (mm)	8
Tape Thickness (µm)	4.8
Tape Length (m)	246
Cartridge Dimensions (mm)	95 x 62.5 x 15
Weight (g)	79 (with case)
Environmental Requirements	
Operation Conditions °F(°C) / %RH	41~113 (5~45) / 20~80 [*]
Storage Conditions °F(°C) / %RH	41~89.6 (5~32) / 20~60 [*]
Transportation Conditions °F(°C) / %RH	40~113 (-40~45) / 5~80 [*]

* Maximum wet bulb temperature: No condensation at 79°F (26°C)

SDX4-200C



SDX4-200W



	SDX4-200C	SDX4-200W ^{*1}
Format	AIT-4	
Magnetic Type	AME II	
MIC Type	64K R-MIC	
Recording Capacity (Compression ratio 2.6:1)	200GB (520GB)	200GB (520GB)
Data Transfer Rate (MB/s)	24	
Tape Width (mm)	8	
Tape Thickness (μm)	4.8	
Tape Length (m)	246	
Cartridge Dimensions (mm)	95 x 62.5 x 15	
Weight (g)	79 (with case)	
Environmental Requirements		
Operation Conditions °F(°C) / %RH	41~113 (5~45) / 20~80 ^{*2}	
Storage Conditions °F(°C) / %RH	41~89.6 (5~32) / 20~60 ^{*2}	
Transportation Conditions °F(°C) / %RH	40~113 (-40~45) / 5~80 ^{*2}	

*1 Application software supporting WORM is required to utilize WORM functionality. Please check with your software provider to confirm WORM support.
 *2 Maximum wet bulb temperature: No condensation at 79°F (26°C)

SDX5-400C



SDX5-400W



	SDX5-400C	SDX5-400W ^{*1}
Format	AIT-5	
Magnetic Type	AME II	
MIC Type	64K R-MIC	
Recording Capacity (Compression ratio 2.6:1)	400GB (1040GB)	400GB (1040GB)
Data Transfer Rate (MB/s)	24	
Tape Width (mm)	8	
Tape Thickness (μm)	4.8	
Tape Length (m)	246	
Cartridge Dimensions (mm)	95 x 62.5 x 15	
Weight (g)	79 (with case)	
Environmental Requirements		
Operation Conditions °F(°C) / %RH	41~113 (5~45) / 20~80 ^{*2}	
Storage Conditions °F(°C) / %RH	41~89.6 (5~32) / 20~60 ^{*2}	
Transportation Conditions °F(°C) / %RH	40~113 (-40~45) / 5~80 ^{*2}	

*1 Application software supporting WORM is required to utilize WORM functionality. Please check with your software provider to confirm WORM support.
 *2 Maximum wet bulb temperature: No condensation at 79°F (26°C)

AIT DATA CARTRIDGE

Drive/Media Compatibility

Model	Recording Capacity	Model					
		AIT-1 Drive	AIT-2 Drive	AIT-3 Drive	AIT-3Ex Drive	AIT-4 Drive	AIT-5 Drive
AIT-1 Media	SDX1-25C (25GB/65GB*)	Read/Write 4MB/s	Read/Write 4MB/s	Read/Write 8MB/s	Read 11MB/s	Reject	Reject
	SDX1-35C (35GB/91GB*)	Read/Write 4MB/s	Read/Write 4MB/s	Read/Write 8MB/s	Read 11MB/s	Reject	Reject
AIT-2 Media	SDX2-50C (50GB/130GB*)	Reject	Read/Write 6MB/s	Read/Write 12MB/s	Read 16MB/s	Reject	Reject
	SDX2-50W (100GB/260GB*)	Reject	Read/Write** 6MB/s	Read/Write** 12MB/s	Read/Write** 16MB/s	Reject	Reject
AIT-3 Media	SDX2-100C (100GB/260GB*)	Reject	Reject	Read/Write 12MB/s	Read 16MB/s	Reject	Read 16MB/s
	SDX3-100W (100GB/260GB*)	Reject	Reject	Read/Write** 12MB/s	Read/Write** 16MB/s	Reject	Read 16MB/s
AIT-3Ex Media	SDX3-150C (150GB/390GB*)	Reject	Reject	Reject	Read 18MB/s	Read/Write** 18MB/s	Read 18MB/s
AIT-4 Media	SDX4-200C (200GB/520GB*)	Reject	Reject	Reject	Reject	Read 24MB/s	Read 24MB/s
	SDX4-200W (200GB/520GB*)	Reject	Reject	Reject	Reject	Read 24MB/s	Read 24MB/s
AIT-5 Media	SDX5-400C (400GB/1.04TB*)	Reject	Reject	Reject	Reject	Reject	Read 24MB/s
	SDX5-400W (400GB/1.04TB*)	Reject	Reject	Reject	Reject	Reject	Read 24MB/s

*Assuming 2.6:1 compression. Data compression performance varies according to the type data. Actual compression performance is generally lower if the data is pre-compressed.
**Some of the drives (firmwares) may not be compatible.

Customized pre-labeled services

Sony offers its labeling service for all of AIT cartridges. This service is used in automated systems to access your files and your data quicker. It will help you to save time, organize your data cartridges and make your backups more efficient and secured. All labels will come affixed onto the cartridge from the factory. Please visit sony.com/mediaresourcecenter for details about this service.

Sony Quality Warranty

Like all of our Sony Storage Media products, we offer a limited lifetime warranty for all of our AIT products. We highly recommend you to buy only Sony brand new media from our authorized distributors and resellers. The use of recycled media is risky and can compromise the integrity and life of your data. For more information and complete details on Sony Storage Media's limited warranty, please visit sony.com/storagemedia.

For more information, visit our website at sony.com/storagemedia