



AIT Specifications by Format

	AIT-E Turbo	AIT-1	AIT-1 Turbo	AIT-2	AIT-2 Turbo
CAPACITY AND PERFORMANCE					
MAX CAPACITY	20 GB native 52 GB compressed ¹	35 GB native 91 GB compressed ¹	40 GB native 104 GB compressed ¹	50 GB native 130 GB compressed ¹	80 GB native 208 GB compressed ¹
SUSTAINED TRANSFER RATE	6 MB/s	4 MB/s	6 MB/s	6 MB/s	12 MB/s
BURST TRANSFER RATE					
SCSI	40 MB/s	40 MB/s	40 MB/s	40 MB/s	160 MB/s
ATAPI	100 MB/s	100 MB/s	100 MB/s	100 MB/s	100 MB/s
SATA	N/A	N/A	150 MB/s	N/A	150 MB/s
AVERAGE MEDIA LOAD TIME	25 sec	14 sec	14 sec w/ MIC, 25 sec w/o MIC	14 sec	14 sec w/ MIC, 25 sec w/o MIC
AVERAGE ACCESS TIME	25 sec	40 sec	35 sec w/ MIC, 40 sec w/o MIC	40 sec	43 sec w/ MIC, 48 sec w/o MIC
SEARCH/REWIND SPEED	720 MB/s (native)	480 MB/s (native)	720 MB/s (native)	720 MB/s (native)	1,440 MB/s (native)
BUFFER SIZE	12 MB	12 MB	12 MB	12 MB	32 MB (24 MB for ATAPI, SATA)
TECHNOLOGY					
INTERFACE					
SCSI	Wide Ultra SCSI SE/LVD	Wide Ultra SCSI LVD/SE	Wide Ultra SCSI LVD/SE	Wide Ultra SCSI LVD/SE	Ultra 160 SCSI LVD/SE
ATAPI	ATA/ATAPI-6 Ultra DMA mode5 (Ultra ATA/100)	ATA/ATAPI-6 Ultra DMA mode5 (Ultra ATA/100)	ATA/ATAPI-6 Ultra DMA mode5 (Ultra ATA/100)	ATA/ATAPI-6 Ultra DMA mode5 (Ultra ATA/100)	ATA/ATAPI-6 Ultra DMA mode5 (Ultra ATA/100)
SATA	N/A	N/A	Serial ATA (Gen.1)	N/A	Serial ATA (Gen.1)
RECORDING METHOD	Helican-Scan	Helican-Scan	Helican-Scan	Helican-Scan	Helican-Scan
DATA COMPRESSION	ALDC	ALDC	ALDC	ALDC	ALDC
MEMORY IN CASSETTE	N/A	64-kbit Mechanical Contact MIC	Opt 64-kbit Mechanical Contact MIC	64-kbit Mechanical Contact MIC	Opt 64-kbit Remote Sensing R-MIC
RECORDING BLOCK LENGTH	Variable or Fixed	Variable or Fixed	Variable or Fixed	Variable or Fixed	Variable or Fixed
WORM FUNCTIONALITY	No	No	No	Yes	Yes
RELIABILITY ²					
ERROR RATE	Less than 10 ⁻¹⁷	Less than 10 ⁻¹⁷	Less than 10 ⁻¹⁷	Less than 10 ⁻¹⁷	Less than 10 ⁻¹⁷
MTBF	300,000 POH (duty 100%)	300,000 POH (duty 100%)	300,000 POH (duty 100%)	300,000 POH (duty 100%)	400,000 POH (duty 100%)
R/W HEAD LIFE	50,000 hours (typical)	50,000 hours (typical)	50,000 hours (typical)	50,000 hours (typical)	50,000 hours (typical)
TAPE PASSES	30,000 passes (typical)	30,000 passes (typical)	30,000 passes (typical)	30,000 passes (typical)	30,000 passes (typical)
MEDIA					
PHYSICAL CHARACTERISTICS	8mm, dual-reel cartridge	8mm, dual-reel cartridge	8mm, dual-reel cartridge	8mm, dual-reel cartridge	8mm, dual-reel cartridge
MEDIA TYPE	Advanced Metal Evaporated (AME)	Advanced Metal Evaporated (AME)	Advanced Metal Evaporated (AME)	Advanced Metal Evaporated (AME)	Advanced Metal Evaporated (AME)
MEDIA COMPATIBILITY					
TAITE-20N (20 GB AIT-E)	R/W		R/W		R/W
SDX1-25C (25 GB AIT-1 w/MIC)		R/W	R/W	R/W	R/W
SDX1-35C (35 GB AIT-1 w/MIC)		R/W	R/W	R/W	R/W
TAIT1-40N (40 GB AIT-1 Turbo)			R/W		R/W
TAIT1-40C (40 GB AIT-1 Turbo w/MIC)			R/W		R/W
SDX2-36C (36 GB AIT-2 w/MIC)				R/W	R/W
SDX2-50C (50 GB AIT-2 w/MIC)				R/W	R/W
SDX2-50W (50 GB AIT-2 WORM w/R-MIC)				R/W	R/W
TAIT2-80N (80 GB AIT-2 Turbo)					R/W
TAIT2-80C (80 GB AIT-2 Turbo w/R-MIC)					R/W
SDX3-100C (100 GB AIT-3 w/R-MIC)					
SDX3-100W (100 GB AIT-3 WORM w/R-MIC)					
SDX3X-150C (150 GB AIT-3Ex w/R-MIC)					
SDX4-200C (200 GB AIT-4 w/R-MIC)					
SDX4-200W (200 GB AIT-4 WORM w/R-MIC)					
SDX5-400C (400 GB AIT-5 w/R-MIC)					
SDX5-400W (400 GB AIT-5 WORM w/R-MIC)					
SDX1-CL (AIT Cleaning Cartridge)	X	X	X	X	X
SDX3X-CL (AIT Cleaning Cartridge)					
SDX4-CL (AIT Cleaning Cartridge)					
SDX5-CL (AIT Cleaning Cartridge)					
PHYSICAL AND ENVIRONMENTAL					
VIBRATION (OPERATING)	0.25 G peak swept sine wave of 5 to 500 Hz	0.25 G peak swept sine wave of 5 to 500 Hz	0.25 G peak swept sine wave of 5 to 500 Hz	0.25 G peak swept sine wave of 5 to 500 Hz	0.25 G peak swept sine wave of 5 to 500 Hz
ALTITUDE	Up to 10,000 feet (max)	Up to 10,000 feet (max)	Up to 10,000 feet (max)	Up to 10,000 feet (max)	Up to 10,000 feet (max)
OPERATING TEMPERATURE					
INTERNAL	40°F to 104°F (5°C to 40°C)	40°F to 104°F (5°C to 40°C)	40°F to 104°F (5°C to 40°C)	40°F to 104°F (5°C to 40°C)	40°F to 104°F (5°C to 40°C)
EXTERNAL	50°F to 95°F (10°C to 35°C)	50°F to 95°F (10°C to 35°C)	50°F to 95°F (10°C to 35°C)	50°F to 95°F (10°C to 35°C)	50°F to 95°F (10°C to 35°C)
STORAGE TEMPERATURE	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
OPERATING HUMIDITY					
INTERNAL	20% to 80% (non-condensing)	20% to 80% (non-condensing)	20% to 80% (non-condensing)	20% to 80% (non-condensing)	20% to 80% (non-condensing)
EXTERNAL	30% to 80% (non-condensing)	30% to 80% (non-condensing)	30% to 80% (non-condensing)	30% to 80% (non-condensing)	30% to 80% (non-condensing)
MAX WET BULB TEMPERATURE					
OPERATING	78.8°F (26°C)	78.8°F (26°C)	78.8°F (26°C)	78.8°F (26°C)	78.8°F (26°C)
NON-OPERATING	<113°F (<45°C)	<113°F (<45°C)	<113°F (<45°C)	<113°F (<45°C)	<113°F (<45°C)
POWER REQUIREMENTS					
INTERNAL	DC 5 V +/-5%, DC 12 V +/-10%	DC 5 V +/-5%, DC 12 V +/-10%	DC 5 V +/-5%, DC 12 V +/-10%	DC 5 V +/-5%, DC 12 V +/-10%	DC 5 V +/-5%, DC 12 V +/-10%
EXTERNAL	AC100-200/220-240V	AC100-200/220-240V	AC100-200/220-240V	AC100-200/220-240V	AC100-200/220-240V
POWER CONSUMPTION					
INTERNAL SCSI	10 watts (average)	10 watts (average)	10 watts (average)	10 watts (average)	14 watts (average)
INTERNAL ATAPI	7 watts (average)	7 watts (average)	7 watts (average)	7 watts (average)	12 watts (average)
INTERNAL SATA	N/A	N/A	8 watts (average)	N/A	12 watts (average)
EXTERNAL SCSI	20 watts (average)	20 watts (average)	20 watts (average)	20 watts (average)	20 watts (average)
DIMENSIONS (WxHxD)					
INTERNAL (3.5-INCH)	101.6 x 41.2 x 155 mm	101.6 x 41.2 x 155 mm	101.6 x 41.2 x 155 mm	101.6 x 41.2 x 155 mm	101.6 x 41.2 x 155 mm
INTERNAL (5.25-INCH)	146 x 41.2 x 155 mm	146 x 41.2 x 155 mm	146 x 41.2 x 155 mm	146 x 41.2 x 155 mm	146 x 41.2 x 155 mm
EXTERNAL	198 x 64.5 x 246 mm	198 x 64.5 x 246 mm	198 x 64.5 x 246 mm	198 x 64.5 x 246 mm	198 x 64.5 x 246 mm
WEIGHT					
INTERNAL (3.5-INCH)	1 lb, 10 oz (740 g)	1 lb, 10 oz (740 g)	1 lb, 10 oz (740 g)	1 lb, 10 oz (740 g)	1 lb, 12 oz (780 g)
INTERNAL (5.25-INCH)	2 lb, 2 oz (970 g)	2 lb, 2 oz (970 g)	2 lb, 2 oz (970 g)	2 lb, 2 oz (970 g)	2 lb, 5 oz (1050 g)
EXTERNAL	5 lbs, 5 oz (2.4 kg)	5 lbs, 5 oz (2.4 kg)	5 lbs, 5 oz (2.4 kg)	5 lbs, 5 oz (2.4 kg)	5 lbs, 5 oz (2.4 kg)
LIMITED WARRANTY	3-Year	3-Year	3-Year	3-Year	3-Year

Specifications and product development roadmap are subject to change without notice.

1. Assuming 2.6:1 compression using ALDC

2. Reliability and performance specifications are averages and are based on normal office environmental conditions. Actual experience may vary.

3. WORM support on AIT-5 is expected to be available beginning Spring 2007

AIT Specifications by Format

	AIT-3	AIT-3Ex	AIT-4	AIT-5
CAPACITY AND PERFORMANCE				
MAX CAPACITY	100 GB native 260 GB compressed ¹	150 GB native 390 GB compressed ¹	200 GB native 520 GB compressed ¹	400 GB native 1040 GB compressed ¹
SUSTAINED TRANSFER RATE	12 MB/s	18 MB/s	24 MB/s	24 MB/s
BURST TRANSFER RATE				
SCSI	160 MB/s	160 MB/s	160 MB/s	160 MB/s
ATAPI	N/A	N/A	N/A	N/A
SATA	N/A	N/A	N/A	N/A
AVERAGE MEDIA LOAD TIME	14 sec	14 sec	14 sec	14 sec
AVERAGE ACCESS TIME	44 sec	44 sec	44 sec	44 sec
SEARCH/REWIND SPEED	1,440 MB/s (native)	2,160 MB/s (native)	130 inches/s (max)	2,700 MB/s (max)
BUFFER SIZE	32 MB	96 MB	96 MB	96 MB
TECHNOLOGY				
INTERFACE				
SCSI	Ultra 160 SCSI LVD/SE	Ultra 160 SCSI LVD/SE	Ultra 160 SCSI LVD/SE	Ultra 160 SCSI LVD/SE
ATAPI	N/A	N/A	N/A	N/A
SATA	N/A	N/A	N/A	N/A
RECORDING METHOD	Helican-Scan	Helican-Scan	Helican-Scan	Helican-Scan
DATA COMPRESSION	ALDC	ALDC	ALDC	ALDC
MEMORY IN CASSETTE	64-kbit Remote Sensing R-MIC	64-kbit Remote Sensing R-MIC	64-kbit Remote Sensing R-MIC	64-kbit Remote Sensing R-MIC
RECORDING BLOCK LENGTH	Variable or Fixed	Variable or Fixed	Variable or Fixed	Variable or Fixed
WORM FUNCTIONALITY	Yes	No	Yes	Yes ³
RELIABILITY ²				
ERROR RATE	Less than 10 ⁻¹⁷	Less than 10 ⁻¹⁷	Less than 10 ⁻¹⁷	Less than 10 ⁻¹⁷
MTBF	400,000 POH (duty 100%)	400,000 POH (duty 100%)	400,000 POH (duty 100%)	400,000 POH (duty 100%)
R/W HEAD LIFE	50,000 hours (typical)	50,000 hours (typical)	50,000 hours (typical)	50,000 hours (typical)
TAPE PASSES	30,000 passes (typical)	30,000 passes (typical)	30,000 passes (typical)	30,000 passes (typical)
MEDIA				
PHYSICAL CHARACTERISTICS	8mm, dual-reel cartridge	8mm, dual-reel cartridge	8mm, dual-reel cartridge	8mm, dual-reel cartridge
MEDIA TYPE	Advanced Metal Evaporated (AME)	Advanced Metal Evaporated II (AMEII)	Advanced Metal Evaporated II (AMEII)	Advanced Metal Evaporated II (AMEII)
MEDIA COMPATIBILITY				
TAITE-20N (20 GB AIT-E)	R	R		
SDX1-25C (25 GB AIT-1 w/MIC)	R/W	R		
SDX1-35C (35 GB AIT-1 w/MIC)	R/W	R		
TAIT1-40N (40 GB AIT-1 Turbo)	R	R		
TAIT1-40C (40 GB AIT-1 Turbo w/MIC)	R	R		
SDX2-36C (36 GB AIT-2 w/MIC)	R/W	R		
SDX2-50C (50 GB AIT-2 w/MIC)	R/W	R		
SDX2-50W (50 GB AIT-2 WORM w/R-MIC)	R/W	R		
TAIT2-80N (80 GB AIT-2 Turbo)	R	R		
TAIT2-80C (80 GB AIT-2 Turbo w/R-MIC)	R	R		
SDX3-100C (100 GB AIT-3 w/R-MIC)	R/W	R/W		R/W
SDX3-100W (100 GB AIT-3 WORM w/R-MIC)	R/W	R/W		R
SDX3X-150C (150 GB AIT-3Ex w/R-MIC)		R/W		R/W
SDX4-200C (200 GB AIT-4 w/R-MIC)			R/W	R/W
SDX4-200W (200 GB AIT-4 WORM w/R-MIC)			R/W	R
SDX5-400C (400 GB AIT-5 w/R-MIC)				R/W
SDX5-400W (400 GB AIT-5 WORM w/R-MIC)				R/W ³
SDX1-CL (AIT Cleaning Cartridge)	X			
SDX3X-CL (AIT Cleaning Cartridge)		X		
SDX4-CL (AIT Cleaning Cartridge)			X	
SDX5-CL (AIT Cleaning Cartridge)				X
PHYSICAL AND ENVIRONMENTAL				
VIBRATION (OPERATING)	0.25 G peak swept sine wave of 5 to 500 Hz	0.25 G peak swept sine wave of 5 to 500 Hz	0.25 G peak swept sine wave of 5 to 500 Hz	0.25 G peak swept sine wave of 5 to 500 Hz
ALTITUDE	Up to 10,000 feet (max)	Up to 10,000 feet (max)	Up to 10,000 feet (max)	Up to 10,000 feet (max)
OPERATING TEMPERATURE				
INTERNAL	40°F to 104°F (5°C to 40°C)	40°F to 104°F (5°C to 40°C)	40°F to 104°F (5°C to 40°C)	40°F to 104°F (5°C to 40°C)
EXTERNAL	50°F to 95°F (10°C to 35°C)	50°F to 95°F (10°C to 35°C)	50°F to 95°F (10°C to 35°C)	50°F to 95°F (10°C to 35°C)
STORAGE TEMPERATURE	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
OPERATING HUMIDITY				
INTERNAL	20% to 80% (non-condensing)	20% to 80% (non-condensing)	20% to 80% (non-condensing)	20% to 80% (non-condensing)
EXTERNAL	30% to 80% (non-condensing)	30% to 80% (non-condensing)	30% to 80% (non-condensing)	30% to 80% (non-condensing)
MAX WET BULB TEMPERATURE				
OPERATING	78.8°F (26°C)	78.8°F (26°C)	78.8°F (26°C)	78.8°F (26°C)
NON-OPERATING	<113°F (<45°C)	<113°F (<45°C)	<113°F (<45°C)	<113°F (<45°C)
POWER REQUIREMENTS				
INTERNAL	DC 5 V +/-5%, DC 12 V +/-10%	DC 5 V +/-5%, DC 12 V +/-10%	DC 5 V +/-5%, DC 12 V +/-10%	DC 5 V +/-5%, DC 12 V +/-10%
EXTERNAL	AC100-200/220-240V	AC100-200/220-240V	AC100-200/220-240V	AC100-200/220-240V
POWER CONSUMPTION				
INTERNAL SCSI	14 watts (average)	17 watts (average)	17 watts (average)	26 watts (average)
INTERNAL ATAPI	N/A	N/A	N/A	N/A
INTERNAL SATA	N/A	N/A	N/A	N/A
EXTERNAL SCSI	20 watts (average)	20 watts (average)	20 watts (average)	28 watts (average)
DIMENSIONS (WxHxD)				
INTERNAL (3.5-INCH)	101.6 x 41.2 x 155 mm	101.6 x 41.2 x 155 mm	101.6 x 41.2 x 155 mm	101.6 x 41.2 x 155 mm
INTERNAL (5.25-INCH)	146 x 41.2 x 155 mm	146 x 41.2 x 155 mm	146 x 41.2 x 155 mm	146 x 41.2 x 155 mm
EXTERNAL	198 x 64.5 x 246 mm	198 x 64.5 x 246 mm	198 x 64.5 x 246 mm	198 x 64.5 x 246 mm
WEIGHT				
INTERNAL (3.5-INCH)	1 lb, 12 oz (780 g)	1 lb, 12 oz (780 g)	1 lb, 12 oz (780 g)	1 lb, 12 oz (780 g)
INTERNAL (5.25-INCH)	2 lb, 5 oz (1050 g)	2 lb, 4 oz (1010 g)	2 lb, 4 oz (1010 g)	2 lb, 4 oz (1010 g)
EXTERNAL	5 lbs, 5 oz (2.4 kg)	5 lbs, 5 oz (2.4 kg)	5 lbs, 5 oz (2.4 kg)	5 lbs, 5 oz (2.4 kg)
LIMITED WARRANTY	3-Year	3-Year	3-Year	3-Year

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