QUICKSPECS

MODELS

AIT 50-GB Internal
157766-B21

AIT 50-GB External
157767-001

AIT 50-GB tape delivers high capacity, high reliability, and high performance in a small form factor. No bigger than a standard-sized hard disk drive, the AIT 50-GB drive can be mounted in a half height drive bay. This allows the AIT 50-GB drive to be utilized in Compaq ProLiant Rack Density Servers where drive height is a concern.

Disaster Recovery

The AIT 50-GB tape drive has been improved with the added feature of DRTape. DRTape insures that in case of a system failure, you will be able to restore your system from a single tape.

What is Disaster Recovery: An AIT 50-GB Tape Drive that can:

- Under Disaster Recovery (DR) situations, ID itself as a boot device
- Hold enough information to bring the system up for a DR restore from tape
- Is completely self contained in that it needs no other software or CD's to restore the system.

High Reliability

With optimized information access features, the AIT 50-GB Advanced Intelligent Tape Drive extends capacity and performance where DAT tape technology ends. AIT is designed to handle the ongoing explosion of data storage requirements. Advanced Metal Evaporated media aids in providing a tape drive that needs minimal cleaning and virtually no head clogging. This drive has a mean time before failure (MTBF) rating of 300,000 hours at a 30 percent duty cycle. If the AIT 50-GB drive is used eight hours a day, seven days a week (33 percent duty cycle), the heads are rated to last over 10 years!

Big Power in a Small Tape

Small but powerful, Compaq's AIT drive is equipped to handle the data deluge. The AIT 50-GB drive delivers 50-GB capacity at 6 MB/s in 3.5 W x 1.6 H size tape drive. More importantly, data access is rated at an average of 27-55 seconds to any point on a 755 ft/230 m tape.

Backward Read Compatible

Backward read compatibility with Digital TZS20, AIT 35 GB and all other first generation AIT tape drives

Compression

Built-in Advanced Lossless Data Compression (ALDC) hardware compression

Compatibility and Integration Testing

Fully tested on a variety of Compaq and Digital workstations and servers, including Professional servers

Operating Environment Support

Microsoft Windows NT	Supported under Windows NT using the Windows NT 4.0 Backup utility; supported using CA ARCserve v6.61 and later for NT and VERITAS Backup Exec for NT v7.3 and later
Novell NetWare	Supported under NetWare 3.x and later using CA ARCserve v6.61 and later for NetWare and VERITAS Backup Exec v8.0 and later for NetWare
SCO UNIX	Native support under SCO OpenServer v5.x and SCO UnixWare v7.x, using Tar and CPIO
Solaris™	Supported natively under Solaris Intel Platform Edition v2.6 and v7
OpenVMS	Supported natively under OpenVMS v7.1-2 and v7.2-1
Tru64™ UNIX	Supported natively under Tru64 v4.0F and v5.0

Option Kit Contents

Internal	AIT 50-GB Drive 50-GB AIT Data Cassette Cleaning Cassette Mounting Brackets Documentation Internal cable with attached LVD terminator Live Trial Software
External	AIT 50-GB Drive in an enclosure 50-GB AIT Data Cassette Cleaning Cassette Documentation Live Trial Software Power Cord 3′ Ultra 2 SCSI Cable LVD Terminator

Warranty

Maximum	The remaining warranty of the Compaq PC product in which it is installed (to a maximum three-year limited warranty)
Minimum	Three-year parts, one-year, 24-hour swap

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details. In Canada, consult the Product Information Center at 1-800-567-1616 for details.

RELATED OPTIONS

AIT 50-GB Data Cassette 5 Pack	152841-001
AIT Cleaning Cassette	402374-B21

SPECIFICATIONS

Recommended Maximum Server Size   50 GB or less

Capacity

	Native	2-1 DC
AIT 50-GB tape drive	50 GB	100 GB

Transfer Rates

Native (maximum)	20 GB/hour
Native (typical)	16 GB/hour
2:1 Compression (maximum)	40 GB/hour
2:1 Compression (typical)	36 GB/hour
Interface	SCSI-2 Fast20 & Wide, LVD

Data Access Time

Average load/unload swap time	< 16 seconds
Search Speed	Average of 27 to 55 seconds to any point on a 755 ft/230 m tape

Physical Dimensions

5.25-inch 1.6-inch Half Height (HxWxD)	1.62 x 5.87 x 6.68 in/41.2 x 149 x 169.6 mm (internal) 2.28 x 7.44 x 10.31 in/58 x 189 x 262 mm (external)
Tape Width	0.312 in/8 mm
Tape Length	755 ft/230 m

Tape Format

Recording Method	8 mm helical scan
Recording Format	ANSI/ ECMA-246
Data Compression	ALDC Adaptive Lossless Data Compression
Error Detection/Correction	Reed Solomon

Drive Type	8 mm tape drive
Media	170 to and 230-meter Advanced-Metal Evaporated (AME) tape with MIC
Interface	Ultra2 SCSI (LVD)
Standards Compliance	ECMA-246
Data Compression	Advanced Lossless Data Compression (ALDC) Capacity
Error Detection/Correction	Reed Solomon
	50 GB (native)
	100 GB (compressed)
	(Typically, users will be able to compress their data at a 2 to 1 ratio; however, compression ratios will vary based on the type of data being compressed.)

SPECIFICATIONS *(continued)*

Sustained Transfer Rate	6 MB/s (native)
	12 MB/s (compressed)
	(Typically, users will be able to compress their data at a 2 to 1 ratio; however, compression ratios will vary based on the type of data being compressed.)
Burst Transfer Rate	
Asynchronous	12 MB/s
Synchronous	40 MB/s
Linear Recording Density	167,000 BPI
Recording Block Length	Variable or fixed
Average Media Load Time	
With MIC	14 seconds
Without MIC	28 seconds
Average Access Time	
With MIC	27 seconds
Without MIC	55 seconds
Search Speed	
With MIC	120 inches/s (with MIC)
Without MIC	60 inches/s (without MIC)
Rewind Speed	
Drum Rotational Speed	120 inches/s (150 times nominal)
Buffer Size	4,800 rpm, 4 MB
Uncorrectable Error Rate	Less than 10^{-17} bits
MTBF	300,000 Power On Hours (POH)

(Typically, users will be able to compress their data at a 2 to 1 ratio; however, compression ratios will vary based on the type of data being compressed.)

Average R/W Head Life	60,000 Tape Contact Hours
Media Uses	20,000 end-to-end passes
Vibration (operating)	0.25 G peak, half sine wave of 5 to 500 Hz (swept)
Shock (operating)	5 G peak, half sine wave of 3 ms duration
Altitude	10,000 feet /3,048 m
Maximum Wet Bulb Temperature	100°F/37.8°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	AC 100 to 200/220 to 240V
Power Consumption	12 Watts (average internal)
	21 Watts (average external)
Weight	
External	4 lbs 14 oz/2.2 kg
Internal	2 lbs 4 oz/1.03 kg
Packaging	Single carton Commercial pack bundled with software and/or accessories
Hardware Requirements	Only Software Driver Requirements
	Wide or Ultra Wide/LVD SCSI Host Adapter with one external Fast/Wide 68-pin port

COMPATIBILITY

Workstations

Compaq Professional Workstation 8000
Compaq Professional Workstation 6000
Compaq Professional Workstation 5100
Compaq Professional Workstation 5000

Servers

Compaq ProLiant 7000
Compaq ProLiant 6500
Compaq ProLiant 6400R
Compaq ProLiant 6000
Compaq ProLiant 5500R
Compaq ProLiant 5500
Compaq ProLiant 5000R
Compaq ProLiant 5000
Compaq ProLiant 4500R
Compaq ProLiant 4500
Compaq ProLiant 3000R
Compaq ProLiant 3000
Compaq ProLiant 2500R
Compaq ProLiant 2500
Compaq ProLiant 1850R
Compaq ProLiant 1600R
Compaq ProLiant 1600
Compaq ProLiant 1500R
Compaq ProLiant 1500
Compaq ProLiant 1200
Compaq ProLiant 850R/H
Compaq ProLiant 800
Compaq ProLiant 400

SMB

Compaq Prosignia 740
Compaq Prosignia 720
Compaq Prosignia 200

Alpha Servers/Workstations

Alpha Server DS10
Alpha Server DS20
Alpha Server ES40
Alpha Server GS60
Alpha Server GS140
Alpha Server 800
Alpha Server 1000a
Alpha Server 1200
Alpha Server 4x00
Alpha Professional Workstation a/au
Alpha Workstation XP1000