

Overview

Overview

The HP AIT 35 GB, IDE tape drive brings Advanced Intelligent Tape (AIT) technology to small and medium businesses. Bundled with Dantz Retrospect backup software, this tape drive offers Standard industry interface IDE (ATAPI) and up to 14 GB/hr transfer speed. The AIT 35 GB IDE tape drive is ideal for entry-level servers and has easy installation and servicing. Supported on HP ProLiant ML310, ProLiant ML330 G2, and ProLiant ML330 G3 servers. HP is committed to providing cost effective, high performance backup solutions for the enterprise and the small to medium business.

Models

AIT 35 GB IDE Tape Drive Bundle HP AIT 35GB, IDE Internal (carbon)

246627-B22

Key Features

- Internal configuration only
- Up to 14.4GB/hr backup performance
- 35-GB native capacity, 70-GB with 2:1 compression
- Backup rate of up to 4MB/sec (native)
- Standard industry interface, IDE (ATAPI)
- Small form factor, half-height
- Bundled with Dantz Retrospect Backup software providing complete solution
- Qualified behind Microsoft® Windows® NT® 4.0, Windows 2000

Customer Benefits

- **High Availability Data Protection** – increases server up-time
- **Investment Protection** – Backward read compatible
- **Faster Access** – with Memory in Cassette (MIC) functionality
- **Reduce Spares Inventory** – with a 24-hour exchange
- **Ease of use** – with easy installation and servicing
- **High Capacity Storage** – taking up very little space
- **Super Head Cleaner mechanism** – provides an automated cleaning solution, increasing the head life and reducing the need for periodic cleaning

QuickSpecs

HP AIT 35GB, IDE Tape Drive with Retrospect Backup Software Bundle

Overview

Family Comparison

	AIT 35 GB, IDE	AIT 35 GB, LVD	AIT 50 GB
Announce Date	January 2002	November 2000	November 1999
Capacity (native)	35 GB	35 GB	50 GB
Interface	IDE	Ultra2, LVD SCSI	Ultra2, LVD SCSI
Buffer	8 MB non-parity	8 MB non-parity	8 MB parity
Firmware Upgradeable	Yes with TSMC	Yes with TSMC	Yes with TSMC
Maximum Drives per bus	5	5	5
MTBF	300,000 @ 30%	300,000 @ 30%	300,000 @ 100%
Transfer Rate (native)	4 MB/s	4 MB/s	6 MB/s

QuickSpecs

HP AIT 35GB, IDE Tape Drive with Retrospect Backup Software Bundle

Product Highlights

Advanced Intelligent Tape (AIT) Technology AIT drive employs a helical scan recording style in which data tracks are written at an angle relative to the edge of the tape. This provides higher density recording, enabling HP customers to lower costs and increase efficiency by storing more data on a single tape.

Memory-In-Cassette (MIC) AIT technology features Memory-In-Cassette (MIC) a 64-Kb memory chip built into the data cartridge which speeds access to your data. The MIC chip provides sophisticated data access capability that allows users to load and unload the tape at the mid-point, which helps in locating files in seconds.

Manageability Supported through HP Insight Manager, alerting the administrator when tape status changes or when rewrite/reread thresholds are exceeded.

Mix and Match Capabilities Hot plug tape was designed with reduced cost of ownership in mind. Now there is no need to purchase a separate controller just for your tape drive. The hot plug capabilities give our customers the ability to mix tape drives and hard drives on the same SCSI bus.

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

Compatibility and Integration Testing HP's AIT 35 GB tape drives are fully supported and compatible with HP ProLiant ML310, ProLiant ML330 G2, ProLiant ML330 G3, and the ProLiant ML330e (discontinued).

Qualified with SANworks Data Protection Suite for Tape Utilities Complete set of Data Protection Tools focused on simplifying the process of configuring, implementing, and maintaining a data protection strategy. Includes software applications such as Tape Storage Management Console and Insight Manager, as well as product information tools including technology White Papers, Service Advisories, and the Storage Products CD. For information on the Data Protection Software Suite, please check the "Related Options" section of this QuickSpecs or visit the Web site at: <http://h18000.www1.hp.com/storage/software.html>.

Software Supported A full single-server-edition of Dantz Retrospect Backup v5.6 (Single Server) for Windows NT/2000 is included.

HP StorageWorks Library and Tape Tools (L&TT) The AIT 35 GB IDE Tape Drive is supported on HP's industry-leading diagnostic tool – HP StorageWorks Library and Tape Tools (L&TT). L&TT is a single, convenient program that's a snap to install and simple to operate. L&TT's intuitive user interface eliminates the need for training and deploys in less than five minutes. This robust diagnostic tool is designed for both the experienced professional and the untrained administrator. It ensures product integrity through self-diagnostics and fast resolution to device concerns. Additional information on L&TT plus download information can be found at <http://www.hp.com/support/tapetools>.

HP Insight Manager The comprehensive system management tool that monitors the operation of HP servers, workstations.

QuickSpecs

HP AIT 35GB, IDE Tape Drive with Retrospect Backup Software Bundle

Compatibility

HP Server Compatibility The HP StorageWorks AIT tape drives are supported internally on the following classes of HP systems:

- HP ProLiant ML310
- HP ProLiant ML330 G2
- HP ProLiant ML330 G3
- HP ProLiant ML330e

NOTE: This is a list of supported servers. Some may be discontinued.

Service and Support, HP Care Pack and Warranty Information

Warranty 3-0-0 (three year parts)

Warranty Upgrade Options

- Response – Upgrade on-site response from next business day to same day 4-hours
- Coverage – Extend hours of coverage from 5 days x 9 hours to 7 days x 24 hours
- Duration – Select duration of coverage for a minimum period of 1 year or multiple years

The HP Care Pack is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.

- HP Care Pack is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.
- HP Care Pack is not available for less than the product's warranty duration.
- HP Care Pack is available for sale anytime during the warranty period for most products, but the commencement date will be the same as the Warranty Start Date (delivery date to end user customer). Proof of purchase may be required.
- HP Care Pack services are prepaid.
- For additional HP Care Pack (hardware & software) information, as well as orderable part numbers, please refer to the URL listed below:

<http://h18005.www1.hp.com/services/carepaq/index.html>.

Software Product Services

- Stand-alone telephone support
 - Rights to a new license
 - Media and documentation updates
-

Hardware Product Services

- Installation services
- On-site Maintenance (includes warranty support)
- Response time upgrades during the warranty period
- Post-warranty coverage
- RAID setup and performance consulting via statement of work

For additional hardware installation and maintenance information please refer to the URLs listed below:

<http://h18005.www1.hp.com/services/carepaq/us/install/>
<http://h18005.www1.hp.com/services/carepaq/us/hardware/>.

HP Care Pack Service and Support

Includes a three-year, limited warranty, fully supported by a worldwide network of resellers and service providers and toll-free 7 x 24 hardware technical phone support during the warranty period. In addition, available service offerings include a full range of HP Care Pack packaged hardware and software services:

- Installation and start up
 - Extended coverage hours and enhanced response times
 - System management and performance services
 - Availability and recovery services
-

Service & Warranty Support

Additional Warranty protection and/or Installation packages can be purchased. Please see the following URL's:

<http://h18005.www1.hp.com/services/carepaq/us/install/>
<http://h18005.www1.hp.com/services/carepaq/us/hardware/>.

QuickSpecs

HP AIT 35GB, IDE Tape Drive with Retrospect Backup Software Bundle

Options

Related Options

Media	HP AIT-1 70 GB Data Cartridge	Q1997A
	HP AIT Cleaning Cartridge	Q1996A

Kit Contents

Model Number	Kit Contents Description	Part Number
AIT 35 GB, IDE Internal (carbon)	Contains one AIT 35 GB tape drive, users manual with translation, warranty card, Retrospect Backup software.	246627-B22

QuickSpecs

HP AIT 35GB, IDE Tape Drive with Retrospect Backup Software Bundle

Technical Specifications

Protocol Support	IDE/ATAPI interface		
Form Factor	5.25 in (13.3 cm)		
O/S Support	Microsoft Windows NT v4.0 Microsoft Windows 2000		
Dimensions (HxWxD)	Physical	AIT 35 GB, IDE, Internal	1.62 x 5.87 x 6.68 in (4.11 x 14.98 x 16.96 cm)
	Shipping	AIT 35 GB, IDE, Internal	13.88 x 11.38 x 9.25 in (35.25 x 28.90 x 23.49 cm)
Weight	Out of box	AIT 35 GB, IDE, Internal	2.27 lb (1.03 kg)
	Shipping	AIT 35 GB, IDE, Internal	7.0 lb (3.2 kg)
UPC/JAN Code - AIT 35 GB LVD	Internal	720591900526	4948382221032
Cables Supported	Cables	None NOTE: Cables are not included in Option Kit. The AIT 35-GB IDE Tape Drive (PN 246627-B22) uses internal server cables.	
Drive LED Indicators	Busy	Tape drive is reading, writing or communicating with the host.	
	Tape	Tape is loaded in unit	
	Status	Indicates a cleaning request or an error status	
Recommended Maximum Server Size	35 GB or less		
Drive Type	ATI 8 mm tape drive		
Transfer Rates	Native (maximum)	14.4 GB/hour	
Interface	IDE (ATAPI)		
Buffer	8MB non-parity buffer embedded within the tape drive		
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)	
	Recording Method	8 mm helical scan	
Tape Format	Recording Format	ANSI/ECMA-246	
	Data Compression	ALDC Adaptive Lossless Data Compression	
	Error Detection/Correction	Reed Solomon	
Standards Compliance	ECMA-246		
Data Compression	Advanced Lossless Data Compression (ALDC) Capacity		
Error Detection/Correction	Reed Solomon		
Sustained Transfer Rate	4 MB/s (native) (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.)		
Media	230-meter Advanced-Metal Evaporated (AME) tape with MIC - HP Branded AIT 35GB		
Average Media Load Time	28 s		
Search Speed	60 in/s		
Rewind Speed	Drum Rotational Speed	120 in/s (150 times nominal), 4800 rpm	
	Buffer Size	4 MB	
Power Requirement	+5V±5%/+12V±10%		
Reliability Features	Head Life	50,000 Hours	
	MTBF	> 300,000 Hours @ 30% duty cycle	
Relative Humidity (non-condensing)	Operating	20% to 80%	
	Shipping	5% to 95%	
Temperature Range	Operating	41° to 104° F (5° to 40° C)	
	Shipping	-22° to 140° F (-30° to 60° C)	

QuickSpecs

HP AIT 35GB, IDE Tape Drive with Retrospect Backup Software Bundle

Technical Specifications

© Copyright 2003 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

Microsoft and Windows NT are US registered trademarks of Microsoft Corporation.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.