

HP 35470A Digital Audio Tape (DAT) drive

Product Brief



Low cost, high value

The HP 35470A is HP's entry level Digital Audio Tape drive.

Features

- 183 Kbytes/s transfer rate
- 2 Gbytes of data on a single 90 m DDS cartridge
- Can store 300 Mbytes in under 30 minutes
- Finds any file in an average of 30 seconds using Fastsearch
- 50,000 hours Mean-Time-Between-Failure (MTBF)
- Supports both 60 m and 90 m DDS and DDS Media Recognition System (MRS) cartridges
- Single-ended SCSI interface
- Format compatible with the HP 35450A, HP 35480A and HP C1533A DAT drives
- Industry standard 3.5 inch form factor

High Value

By providing 2 Gbytes of storage on a single 90 m DDS cartridge, the HP 35470A gives you unattended backup for most high end PCs, PC network servers and entry level workstation systems.

A transfer rate of 183 Kbytes/s means that the HP 35470A DAT drive is able to store 11 Mbytes of data every minute. A full 2 Gbytes of data may be stored on a single 90 m DDS cartridge in 3 hours.

The high capacity of this low cost product ensures that you get the best value backup available today.

High Reliability

Hewlett-Packard's DAT mechanisms are designed specifically for use in the computer environment. With a proven MTBF in excess of 50,000 hours you can store your data with confidence.

Ease of Integration

For most integrators the HP 35470A is a true "plug and play" device. The drive simplifies the task of integration by providing direct connectivity to a wide range of system platforms, (including major Unix systems and PC networks), using a series of firmware selection switches.

For those who require extra flexibility, a tool kit of features has been developed to provide all you need for easy integration. This includes:

- Downloadable firmware
- Connectivity configuration switches
- Customizable front panels
- Mounting kits for 5.25-inch half height form factors
- Customized media

HP 35470A Technical Information

Performance

Capacity

60 meter tape	1.3 Gbytes
90 meter tape	2.0 Gbytes

Transfer rate

Sustained:	183 Kbytes/s (max)
Burst: Asynchronous	1.5 Mbytes/s (max)
Synchronous	5.0 Mbytes/s (max)

Search Speed

Average of 30 seconds file access for any part of a 90 m tape

Recording Format

ANSI/ECMA DDS

Reliability

Expected MTBF*: 50,000 power-on hours

Power Requirements

+5V dc: $\pm 5\%$ 0.6 amps typical
 +12V dc: $\pm 10\%$ 0.1 amps typical
 0.6 amps max (<1 sec)**

Power Consumption

5 watts typical

Environmental Conditions

Ambient temperature

Operating	5°C to 40°C (41°F to 104°F) (mech and media)
Non operating	-40°C to 70°C (-40°F to 158°F) (mech) -40°C to 45°C (-40°F to 113°F) (media)

Relative humidity

Operating	20% to 80% (mech and media)
Non-operating	5% to 95% (mech) 20% to 80% (media) 26°C non-condensing

Maximum wet-bulb temp

Physical Specifications

Height 41 mm (1.6 in), Width 102 mm (4.0 in)
 Depth 150 mm (5.9 in)

Media

DDS Media Recognition System (MRS) compatible. Supports 60 m and 90 m DDS cartridge tapes.

Product Certifications

UL Recognition to UL 1950, CSA Certification to C22.2 No 950, IEC 950, TUV-EN 60950

SCSI-II Interface— the HP 35470A supports the following commands:

Drive Commands

- Erase
- Inquiry
- Mode Select
- Mode Sense
- Read
- Read Block Limits
- Release/Reserve Unit
- Request Sense
- Rewind
- Send Diagnostic
- Space
- Test Unit Ready
- Write
- Write Filemarks

Optional Commands

- Load/Unload
- Locate
- Log Select/Sense
- Prevent/Allow Medium Removal
- Read Buffer
- Read Position
- Receive Diagnostic Results
- Verify
- Write Buffer

**Hewlett-Packard Company does not warrant that the predicted MTBF is representative of any particular unit installed for customer use. Failure rates are derived from a large database of tape drives. The actual figures will vary from unit to unit.*

***Reprogramming E² PROMs requires 12V dc $\pm 5\%$*

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