

HP C1533A DDS-2 Digital Audio Tape (DAT) drive



**The highest performance
DDS-2 DAT drive in the
industry**

The HP C1533A is the fastest DAT product in the industry today and incorporates the new Digital Data Storage-2 format to give users twice the capacity at almost three times the speed of previous drives.

Leading Performance

The C1533A is capable of backing-up 8 Gbytes of data in about two hours, almost a full hour less than competing DDS-2 products. This leading performance comes from HP's own VLSI technology, a development resulting in the fastest DAT controller available today.

- An outstanding native transfer rate of 510 Kbytes/s
- DDS-2 format delivering 4 Gbytes native mode capacity
- Incorporates Digital Data Storage Data Compression (DDS-DC), giving up to 8 Gbytes of capacity on a single cartridge
- The combination of much higher transfer rates and a 40 second average file access time ensures fast data retrieval.
- By integrating the C1533A in HP's new C155X six cartridge autochanger, a typical user can achieve **48 Gbytes of unattended backup** in around 6 hours. That is 50% more data in the same time as competing configurations!

Unparalleled Reliability

Hewlett-Packard designed its exclusive C1533A mechanism specifically for the computer environment. The 200,000 hour MTBF is a direct reflection of HP's investment in the reliability of the tape drive and in our commitment to the security of your data.

Compatibility with previous products

The HP C1533A provides leading performance without sacrificing previous DDS integration investments.

- Provides read/write compatibility with all DDS-2, DDS-DC and DDS format tape drives.
- Supports 60 m and 90 m DDS Media Recognition System cartridges in addition to the new 120 m DDS-2 cartridges
- The 3.5-inch form factor and the same physical and electrical interface characteristics as previous Hewlett-Packard drives ensures that it is plug compatible with the the HP 35470A and HP 35480A.

Ease of Integration

For most integrators the C1533A 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. It includes:

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

The HP C1533A DDS-2 DAT drive provides you with HP quality and reliability while delivering 40% faster performance than its nearest competitor.

HP C1533A Technical Information

Performance (DDS-DC Mode)

Capacity

60 meter tape (DDS-1)	2.6 Gbytes (typical)
90 meter tape(DDS-1)	4.0 Gbytes (typical)
120 meter tape (DDS-2)	8.0 Gbytes (typical)

Transfer rate

Sustained:	510 Kbytes/s (native), 1.0 Mbyte/s (typical) 1.5 Mbytes/s (max)
Burst: Asynchronous	3 Mbytes/s (max)
Synchronous	7.5 Mbytes/s (max)

Average Cartridge load/unload swap time

Search Speed	Average of 40 seconds file access for any part of a 120 m tape.
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Recording Format	ANSI/ECMA DDS-DC (Data Compression Lempel-Ziv (DCLZ) algorithm)
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Reliability	Expected drive MTBF*: 200,000 power-on hours .
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Power Requirements	+5V dc: $\pm 5\%$ 1.4 amps typical +12V dc: $\pm 10\%$ 0.2 amps typical** 0.6 amps max (<1 sec)
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Power Consumption	<9.5 watts typical
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Environmental Conditions

Ambient temperature

Operating	5°C to 40°C (41°F to 104°F) (mech/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)

Maximum wet-bulb temperature	26°C non-condensing
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Physical Dimensions	Height 41 mm (1.6 ins), Width 102 mm (4.0 ins), Depth 150 mm (5.9 ins)
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Media	DDS Media Recognition System compatible. Supports 60 meter, 90 meter and 120 meter DDS cartridge tapes.
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Product Certifications	UL Recognition to UL 1950, CSA Certification to C22.2 No 950, IEC 950, TUV-EN 60950
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SCSI-II Interface — The HP C1533A supports the following:

Required 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
- Log Sense
- Prevent/allow medium removal
- Read buffer
- Read position
- Receive diagnostic results
- Verify
- Write buffer

Data compression is controller using Mode Select and Mode Sense.

**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 $\pm 5\%$*

Sales Offices

USA

Eastern Sales Region

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Europe

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Milano, Italy (39) 11-74 40 44

Houten, Netherlands (31) 3403- 93256

Madrid, Spain (34) 1-637 00 11

Tel-Aviv, Israel (972) 3-388 388

or contact:

Hewlett-Packard Ltd 0344 369222

Direct Marketing Center

Amen Corner

Caine Road

Bracknell, Berkshire

United Kingdom

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LYNX TECHNOLOGIES PTY. LTD
SOLE AUTHORISED
AUSTRALIAN HP DAT DISTRIBUTOR
Ph: (02) 313 4433 Fax: (02) 313 4155