



[Image of HP C1533A DAT Drive]

For systems integrators - the core product at a value price

High Performance DDS-2 Drive - 8 GB* capacity

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The HP C1533A is HP's high performance DAT drive and incorporates the DDS-2 format to give users twice the capacity at almost three times the speed of previous drives.

Hewlett-Packard designed this 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

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

- read/write compatibility with all DDS-2, DDS-DC and DDS format tape drives.
- all existing DDS Media Recognition System (MRS) cartridges and tape lengths are supported (up to and including DDS-2).

The 3.5-inch form factor and the same physical and electrical interface characteristics as previous Hewlett-Packard DDS drives ensures that it is plug compatible with the HP 35470A and HP 35480A.

Performance

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

Ease of Integration

For most integrators the HP 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 configuration switches.

**Assumes a 2:1 data compression ratio; this may vary as compression is data dependent.*



Key Features

- Native transfer rate of 510 kbytes/s
- DDS-2 format delivering 4 GBytes native mode capacity
- Typically stores 8 GBytes of capacity on a single 120m cartridge*
- Average file access time of 40 seconds for 120m tapes
- 200,000 hours Mean-Time-Between-Failures (MTBF)
- Supports 60m, 90m, and 120m DDS and DDS Media Recognition System (MRS) cartridges
- Format compatible with the HP 35470A and HP 35480A.
- Downloadable firmware
- Connectivity configuration switches
- Customizable front panels
- Mounting kits for 5.25-inch half height form factors
- Customized media
- HP's reliable DAT technology
- HP service and support

**DDS-2 format, using 2:1 hardware data compression - actual figures are data-dependent.*



Technical Specifications

Performance

Capacity	60 meter tape	2.6 Gbytes*
	90 meter tape	4.0 Gbytes*
	120 meter tape	8.0 Gbytes*
Transfer rate	Sustained:	510 KBytes/s (native)
		1* MB/s (typical)
		1.5 MB/s (max)
	Burst:	Asynch. 3 MB/s (max)
Synch. 7.5 MB/s (max)		
Search Speed	ave. access time: 40 seconds (120m tape)	
Load/unload times	less than 14 seconds	

Recording Formats	ECMA DDS-2 format with DCLZ data compression, DDS ("DDS-1") and DDS-DC fully supported
Reliability	Expected MTBF: 200,000 power-on hours**

* 2:1 data compression is assumed, actual figures may vary.

** 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.

Power Requirements

+5V DC	+/-5% 1.2A typical
+12V DC	+/-10% 0.2A typical, 0.6A max (less than 1sec)
Power Usage	less than 8.4 Watts typical

Environmental Conditions

Ambient temperature		
Operating	5 to 40* (41 to 104**)	mech and media
Non-operating	-40 to 70* (-40 to 158**)	mech
	-40 to 45* (-40 to 113**)	media
Relative Humidity		
Operating	20% to 80%	mech and media
Non-operating	5% to 95%	mech
	20% to 80%	media
Maximum wet-bulb temp	26* non-condensing	

*degrees Celsius **degrees Fahrenheit

Physical Specifications

- **Height:** 41mm (1.6 inch)
- **Width:** 102mm (4.0 inch)
- **Depth:** 150mm (5.9 inch)

Media

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

Product Certification

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

Supported Commands - SCSI II

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.



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