



# HP C1553A DDS-2 Digital Audio Tape (DAT) Autoloader



**Industry leading autoloader— highest capacity and highest speed**

*The HP C1553A DAT Autoloader houses up to six DDS cartridges within a 5.25-inch form factor.*

## Capacity, capacity...

The HP C1553A DAT autoloader gives you the ability to:

- Backup typically 48 Gbytes of data over night or
- Carry out 8 Gbytes of backup everyday for six days, completely unattended.

The DDS-2 120m cartridge tape has a native capacity of 4 Gbytes, using data compression this increases to typically 8 Gbytes—giving a total capacity of typically 48 Gbytes using the six cartridges in the autoloader.

## ... and speed too

The HP C1553A incorporates the fastest DDS-2 DAT drive in the industry today providing:

- A native transfer rate of 510 Kbytes/s, and typically double this using data compression.
- High speed file access in an average of 90 seconds through the combination of high speed cartridge swaps and the fastsearch capability.

## Easy to use

- Our investment in design and concept testing has produced a product which is easy to operate. The front panel includes:
  - 10 character ASCII display for drive status messages
  - Number of cartridges present in the magazine
  - The current cartridge in use
  - Data compression on/off
  - Write protect on/off
  - Tape Odometer
- Low cost removable cartridge magazine is designed to prevent incorrect insertion of cartridges. It provides a safe and convenient way to store your archived data.

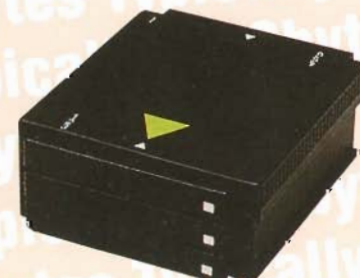
## High reliability

- Achieved through the simple, patented design incorporating a minimum of mechanical and electrical parts.

## Ease of Integration

- Supports both sequential and random access mode—through the standard SCSI interface
- Implements the standard SCSI medium changer command set

With the C1553A you are assured of leading edge technology which provides outstanding performance, data integrity and trouble free operation.



## HP C1553A Technical Information

### Performance (DDS-DC Mode)

#### Capacity (with typically 2x DC)

60 meter tape (DDS-1)	15.6 Gbytes (typical)
90 meter tape (DDS-1)	24.0 Gbytes (typical)
120 meter tape (DDS-2)	48.0 Gbytes (typical)

#### Transfer rate

Sustained	510 Kbytes/s (native) 1.0 Mbytes/s (typical)
Burst: Asynchronous	3.0 Mbytes/s (max)
Synchronous	7.5 Mbytes/s (max)

#### DAT drive Search Speed

Average of 40 seconds file access for any part of a 120m tape (200 x normal speed)

#### Autoloader DDS-2 DAT drive

Average cartridge swap time 15 seconds  
Average cartridge load/unload time <14 seconds

#### Recording Format

ANSI/ECMA DDS-DC (Data Compression Lempel-Ziv (DCLZ) algorithm)

#### Reliability

Cartridge swaps > 100,000\*  
Autoloader + DDS-2 DAT drive MTBF >40,000 hours at 30% duty cycle\*

#### Power Requirements

+5V dc: ± 5% 1.8 amps typical  
+12V dc: ± 10% 0.4 amps typical\*\*

#### Power Consumption

14 watts typical

#### Environmental Conditions

##### Ambient temperature

Operating	5°C to 40°C (mech/media)
Non-operating	-40°C to 70°C (mech) -40°C to 45°C (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°C non-condensing

##### Physical Dimensions

Height 82.6 mm, Width 146.1 mm, Depth 203.2 mm

##### Media

DDS Media Recognition System compatible.  
Supports 60 m, 90 m and 120 m DDS cartridge tapes.

##### Product Certifications

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

*\*Hewlett-Packard Company does not warrant that the predicted reliability 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 E<sup>2</sup> PROMs requires 12V dc ±5%*

## Sales Offices

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### SCSI-II Interface—the HP C1553A supports the following:

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

#### Autoloader SCSI-II Medium Changer Commands

- Move Medium
- Read Element Status
- Inquiry
- Log Select/Sense
- Mode Sense
- Prevent/Allow Medium Removal
- Reserve/Release Unit
- Request Sense
- Send Diagnostic
- Test Unit Ready

Data Compression is controlled using Mode Select and Mode Sense.

### Specifications are subject to change without notice

Printed in the UK 9/93

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PN: 5091-8944E

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