
**HP Series 6400
Models 1300S and 1300H
DDS-Format Tape Drives**



Product Brief

**New technology for
traditional applications**



If we said you can...

**...store 1300 Mbytes of data
on a single cassette**

**...store 300 Mbytes in under
30 minutes**

**...access any file in under a
minute**

**...reduce your media costs
what would you think?**

**HP's DDS-format tape
drives can do all this...**

Unattended Backup

- 1300 Mbytes (1.3 Gbytes) capacity.
- 11 Mbytes/minute transfer rate.

You can store 1300 Mbytes of data in under two hours with no operator intervention. The high capacity and fast transfer rate make DDS-format tape drives more cost effective than other technologies.

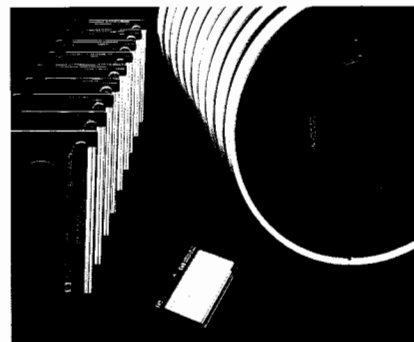
Fast file retrieval

- Fastsearch.

DDS makes file retrieval easier with Fastsearch*, a new facility which searches the tape at 200 times the normal read speed, to find your file in an average of 20 seconds.

New low cost media

If you change from 1/4-inch or 1/2-inch tape drives to DDS-format tape drives, you can significantly reduce your storage cost per megabyte.



...and more

Tape loading is quicker and easier

- 18 second load time.
- 8 second power-on cycle.

Power-on, insert cassette and go. The short load time means that you can be ready to backup in 30 seconds. There is no need to re-tension or rewind archived tapes. So tape loading is quicker and easier than with 1/4-inch or 1/2-inch tape drives.

Data Interchange between Systems

- DDS format standard.

To give you data interchange, HP co-authored a data format for DAT, and is leading the industry towards its adoption. Since its formation, over 16 manufacturers have joined the DDS manufacturers group, making DDS the leading DAT standard.

Dependable Data Storage

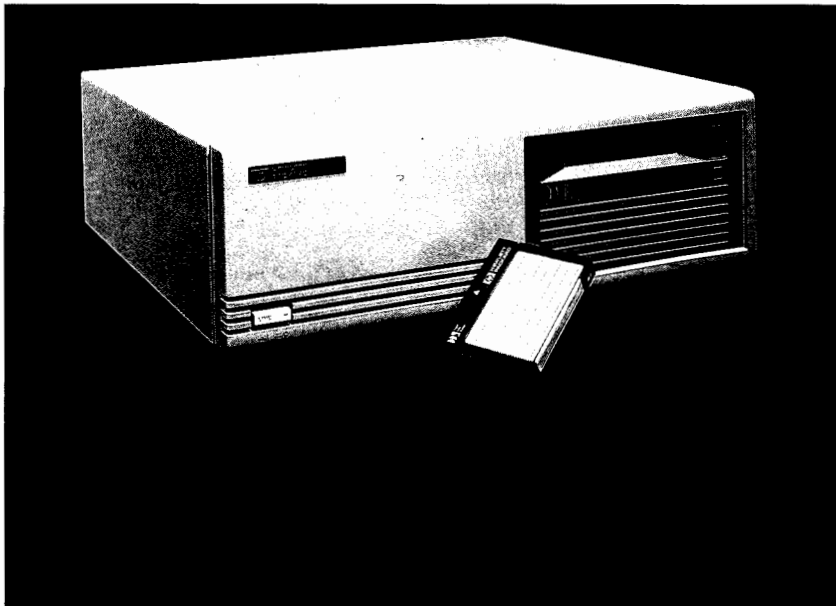
- Three levels of error-correction.
- Read-after-write.

To ensure that your data is safely stored, the DDS format tape drives use powerful error correction routines and read-after-write which verifies your data after it has been written.

What is DAT? DAT stands for Digital Audio Tape. DAT has brought compact disc quality to Hi-Fi tape recording.

What is DDS? DDS (Digital Data Storage) is a format for storing computer data on DAT cassettes.

*available on selected HP Systems
before the end of 1990



Meeting your future storage needs

HP is committed to developing both DAT technology and the DDS-format for data storage. In addition, the design of the DDS-format aims towards backward and forward read-write compatibility of future DDS-format products.

Dependable products and support

- HP worldwide service and support.
- Commitment to quality.
- Media qualification.

To make sure that you get the best from your tape drive, HP offers worldwide service and support. To meet your needs for data integrity, HP designed a quality tape drive and qualified the DAT media to provide you with the best in backup.

DAT for Commercial Systems

Choose the model 1300H as a high capacity, low cost solution for backup, data interchange or software distribution on HP 3000 systems.

You Can...

- Perform a full system backup of 1300 Mbytes in under two hours.
- Interchange data easily between MPE-V/E and MPE-XL.
- Distribute software on low cost, high quality, compact media.

To extend your backup capacity, the model 1300H is supported on **Turbostore**. This optional software allows you to store up to 5000 Mbytes of data using multiple drives.

System Compatibility

- Model 1300H has an HP-IB interface.
- Model 1300S has a SCSI interface.

The choice of HP-IB or SCSI gives you the flexibility to select the right interface for your system configuration. The model 1300H is for HP 3000 systems while HP 9000 systems can use either the model 1300H or 1300S.



DAT for Technical Systems

Choose the model 1300H and 1300S tape drives for HP 9000 systems. Whether workstation, network server or multi-user systems, DDS-format tape drives meet your backup needs.

You can...

- Use low cost media to reduce the cost of daily backup.
- Restore files quickly and easily.
- Interchange data between systems with DDS format tape drives.

Choosing the right HP tape drive for your system

One of the most valuable asset any company owns, is its data.

Using an HP tape drive to back-up your data is the way to protect this investment.

Whichever data storage requirement you have, HP has the solution to meet your need.

Choose 1/2-inch tape drives for...

- 1/2-inch industry interchange on 1600 and 6250 bpi tapes.
- High performance backup.

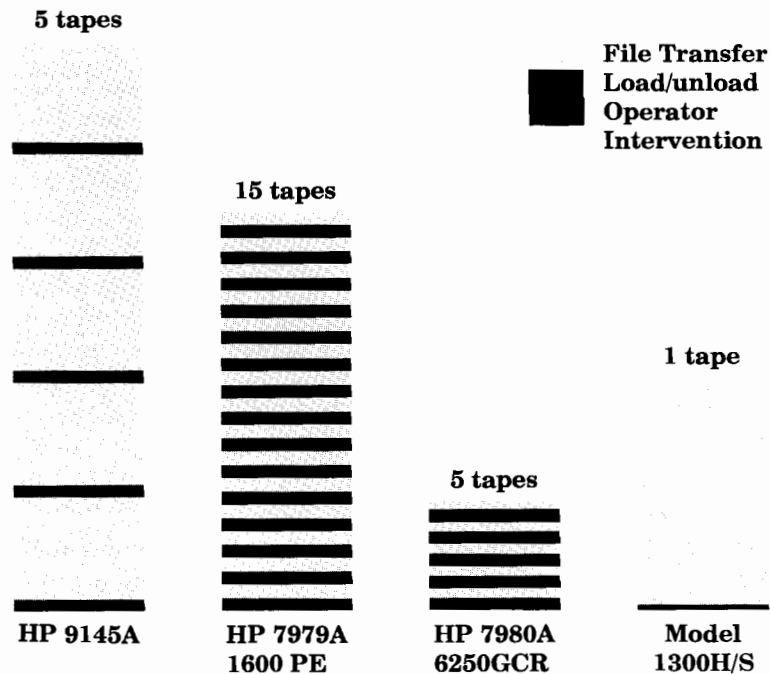
Choose 1/4-inch cartridge tape drives for...

- Low-cost backup.
- HP 1/4-inch compatibility.
- Boot and install of HP-UX on HP 9000 series 300.

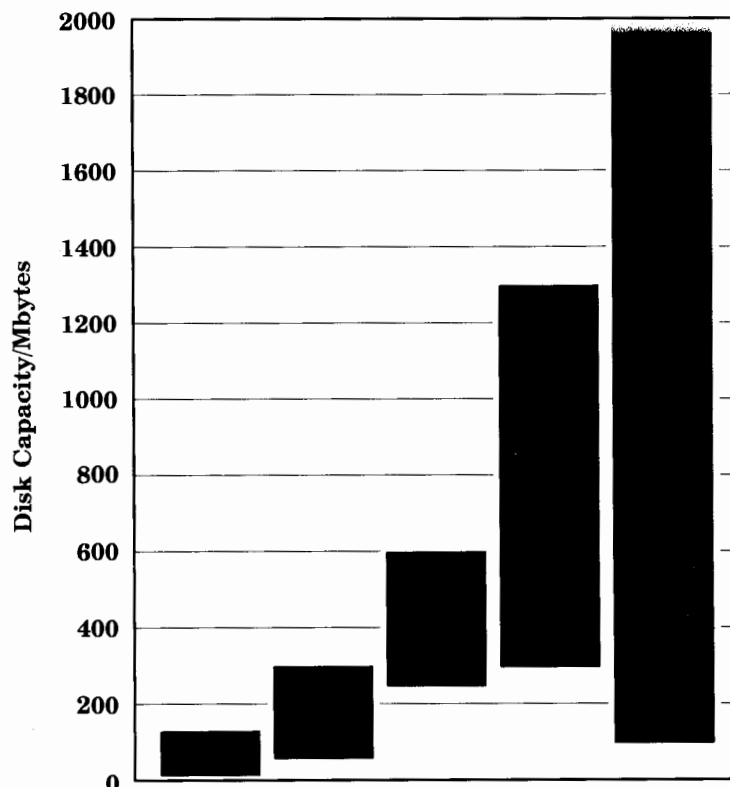
Choose DDS-format tape drives for...

- High capacity unattended backup to 1300 Mbytes on a single cassette.
- Fast file access in an average of 20 seconds.
- Lower cost than 1/2-inch tape.
- Higher performance than 1/4-inch cartridge tape drives.

Time to backup a typical system of 600 Mbytes



Matching backup capacity with disk capacity.



Technical Specifications

Performance

Capacity:	1300 Mbytes (1.3 Gbytes) (60 meter tape)
Transfer rate (sustained):	183 Kbytes/sec maximum
Transfer rate (burst):	1.5 Mbytes/sec maximum
Search speed:	An average of 20 seconds random access for any part of a 1300 Mbyte DDS cassette

Interface

Model 1300S	SCSI
Model 1300H	HP-IB

Power Requirements

Line Voltage

115 V setting	90-132 V, single phase
230 V setting	198-264 V, single phase

Line Frequency

47-63 Hz

Power consumption

Model 1300H	50 W typical
Model 1300S	45 W typical

Environmental Conditions/Limitations

Temperature

Operating	5°C to 40°C
Non-Operating (mech)	-40°C to 70°C
Non-Operating (media)	-40°C to 45°C

Humidity

(Maximum wet bulb temperature 26°C)

Operating	20% to 80%
Non-operating	5% to 95%

Altitude

Operating	0 km to 4.5 km (0 ft to 15,000 ft)
Non-operating	0 km to 15 km (0 ft to 50,000 ft)

Emissions

Electromagnetic (Model 1300S)	FTZ 1046/84, FCC class B
(Model 1300H)	FTZ 1046/84, FCC class A
Acoustic	<5.0 Bel soundpower

Shock

Operating	5 g peak @ 3 ms, half sine waveform
Non-operating	30 g peak @ 26 ms, trapezoidal

Vibration

Operating	Random 0.2 g rms
Non-operating	Random 2.1 g rms

Physical Characteristics

Mass

Model 1300H	7.9 kg
Model 1300S	7.7 kg

Dimensions (both models)

Height	104 mm
Depth	290 mm
Width	325 mm

Product Certification

Safety

CSA certified to C22.2 No 220
UL Listed 478 5th Edition
Complies with IEC 950

Ordering Information

HP Series 6400 Model 1300H C1511A
HP Series 6400 Model 1300S C1512A

Each model includes the following items:

- User Manual
- DDS Cassette (60 meter/1.3Gbyte)
- Cleaning Cassette
- Spare Fuses
- Power Cord

Additional items available for both models:

Cleaning Cassette 92283K
Box of 5 DDS Cassettes 92283A
Rack Mounting Kit 19500B

Additional items available for model 1300S:

SCSI Terminator 1252-3251

A terminator is required at the end of a SCSI bus.
One terminator is supplied with each HP Host Adaptor.

0.5 m SCSI Interface cable 92222A
1 m SCSI Interface cable 92222B
2 m SCSI Interface cable 92222C
1 m SCSI Extender cable 92222D

One interface cable is supplied with each HP Host
Adaptor.
Additional cables must be purchased separately.

Additional items available for model 1300H:

1 m HP-IB Cable 10833A
Turbostore . *see local sales representative for details*

For the name of a dealer near you, call
toll-free:1-800-752-0900
Or contact one of the regional offices
listed below:

United States:

Hewlett-Packard Company
4 Choke Cherry Road
Rockville, MD 20850
(301) 670-4300

Hewlett-Packard Company
5161 Lankershim Blvd
North Hollywood, CA 91601
(818) 505-5600

Hewlett-Packard Company
5201 Tollview Drive
Rolling Meadows, IL 60008
(312) 255-9800

Hewlett-Packard Company
2015 South Park Place
Atlanta, GA 30339
(404) 955-1500

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Mississauga, Ontario L4V1M8
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31-41 Joseph Street
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P.O. Box 529
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Hewlett-Packard Asia Ltd.
47/F China Resources Building
26 Harbour Road, Hong Kong
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**Printed in the UK
5954-1963**