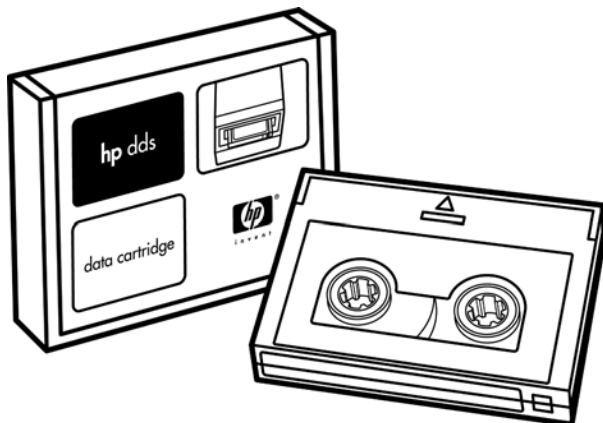


Overview



Introduction

DDS is historically the most reliable and durable technology ever introduced within the tape market. DDS is ideal for entry-level and small networks looking for higher capacities with lower cost of ownership. DDS is an affordable solution for unattended back ups. HP co-invented DDS technology and was the first company to expand its DDS offering into the 5th generation known as DAT-72. In addition to co-inventing the DDS technology, HP also co-invented DAT-72. HP's DDS media portfolio is now the most robust within the industry offering DDS-1 90m thru DAT 72 with capacities up to 72GB on a single cartridge.

Models		
	HP DDS-1 4GB 90m data cartridge	C5706A
	HP DDS-2 8GB 120m data cartridge	C5707A
	HP DDS-3 24GB 125m data cartridge	C5708A
	HP DDS-4 40GB 150m data cartridge	C5718A
	HP DAT 72 72GB 170m data cartridge	C8010A
	HP DDS cleaning cartridge	C5709A

NOTE: 50 Cleans when used in an HP drive.

Key Features & Benefits

- **Improved Capacity:** supports capacities up to 72 GB
- **Value-For-Money:** lowest cost of ownership
- **Reliable:** historically the most reliable and durable technology
- **Safe:** limited lifetime warranty

Product Highlights

Proven Reliability

HP ensures the highest level of quality with media specifications that far exceed industry standards. HP has 20 custom-built testing chambers that are in use 24 hours per day, 365 days per year. No other media supplier carries out such exhaustive qualification of the drive and media as HP. This is because no media supplier conducts extensive drive based tests on a daily basis and moreover, supports hardware warranty initiatives in the field with a vested interest in reducing all media-induced hardware issues. In 2002, 170,000 different media tests were performed, accounting for 1.3 million test hours. HP also conducts tests on multiple batches of media using multiple drives to ensure performance in different environmental conditions, such as variations of high/low temperature and humidity. Changes in external conditions, which can easily occur when media is moved from different locations, can have a huge impact on error rate performance. Increased error rates jeopardizes backup, and backup disruption jeopardizes business continuity. HP customers are many and varied; this is why HP specifies stringent durability and reliability metrics that the media must satisfy before it is good enough to bear the HP logo.

DAT/DDS Technology

DDS is considered the most reliable and durable format of all the tape technologies. DDS-3, DDS-4 and DAT-72 incorporate a double layer tape structure in which the top layer includes magnetic particles, lubricant, solvent and binders. The underlay acts as a lubricant reservoir and is able to internally replenish any lubricant from the top layer as and when required. This double layer tape has enabled DDS to exhibit best in class durability performance since its introduction.

Options

Related Hardware Options

NOTE: This is a list of related options. Some may be discontinued.

HP 12/24-GB DAT Drive	12/24-GB DAT Drive, Internal (Opal)	295513-B22
	12/24-GB DAT Drive, External (2-5-2)	DS-TLZ10-DB

NOTE: For additional information regarding the 12/24-GB DAT Drive, please see the following URL:
http://h18000.www1.hp.com/products/quickspecs/10239_div/10239_div.HTML
http://h18000.www1.hp.com/products/quickspecs/10239_div/10239_div.PDF

HP StorageWorks 20/40 GB DAT Tape Drive	20/40GB DAT Drive, Internal (Carbon)	157769-B22
	20/40GB DAT Drive, External (Carbon), NA	157770-002
	20/40GB DAT Drive, External (Carbon), Int'l	157770-B32
	20/40GB DAT Drive, External (Carbon), Japan	157770-292
	20/40GB DAT Drive, Hot Plug (Carbon)	215488-B21

NOTE: For additional information regarding the 20/40GB DAT Drive, please see the following URL:
http://h18000.www1.hp.com/products/quickspecs/10426_div/10426_div.HTML
http://h18000.www1.hp.com/products/quickspecs/10426_div/10426_div.PDF

HP StorageWorks DAT 24 Tape Drive for ProLiant Systems	DAT 24i Internal Tape Drive for ProLiant, Internal (Flint)	Q1547A
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HP StorageWorks DAT 24 Tape Drive for Open Connect	DAT 24i, Internal Tape Drive (Flint)	C1555D
	NOTE: 24 GB internal DDS-3 drive for PC or UNIX	
	DAT 24e, External Tape Drive (Flint) (WW)	C1556D
	NOTE: 24 GB external DDS-3 drive for PC or UNIX	
	DAT 24e, External Tape Drive (Flint) (Int'l)	C5653C
	NOTE: 24 GB external DDS-3 drive for PC or UNIX	
	DAT 24m, Array Module Tape Drive (Flint)	C7498A
	NOTE: 24 GB DAT Array module for HP StorageWorks Tape Array 5300	
	DAT 24, Trade Ready Tape Drive (Flint) (WW)	C1554A

NOTE: No markings on front panel, no learning products, software, cables.
NOTE: For additional information regarding the HP StorageWorks Rack Mount Tape Drive Kits, please see the following URL:
http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML
http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.PDF

HP StorageWorks DAT 40 Tape Drive for ProLiant and AlphaServers	DAT 40i, Internal Tape Drive for HP ProLiant and AlphaServer (Carbon)	Q1553A
	DAT 40e, External Tape Drive for HP ProLiant and AlphaServer (Carbon) (US)	Q1554A
	DAT 40e, External Tape Drive for HP ProLiant and AlphaServer (Carbon) (Int'l)	Q1555A
	DAT 40h, Hot-plug Tape Drive for HP ProLiant and AlphaServer (Carbon)	Q1546A

Options

HP StorageWorks DAT 40 Tape Drive for Open Connect	DAT 40i, Internal Tape Drive for Open Connect (Carbon)	C5686B
	DAT 40e, External Tape Drive for Open Connect (Carbon)	C5687C
	DAT 40m, Array Module Tape Drive (Flint)	C7497A
	DAT 40, Trade Ready Tape Drive (Flint) (WW)	C5685C
NOTE: No markings on front panel, no learning products, no software, no cables.		
NOTE: For additional information regarding the HP StorageWorks DAT 24 Tape Drive, please see the following URL:		
http://h18000.www1.hp.com/products/quickspecs/11783_div/11783_div.HTML		
http://h18000.www1.hp.com/products/quickspecs/11783_div/11783_div.PDF		
HP StorageWorks DAT 72 Tape Drive for ProLiant and AlphaServer systems	DAT 72i, Internal Tape Drive for ProLiant and AlphaServer (Carbon) (WW)	Q1525A
	DAT 72e, External Tape Drive for ProLiant and AlphaServer (Carbon) (NA)	Q1527A
	DAT 72e, External Tape Drive for ProLiant and AlphaServer (Carbon) (Int'l)	Q1528A
	DAT 72h Hot Plug Tape Drive for ProLiant and AlphaServer (Carbon) (WW)	Q1529A
	3U Rackmount Kit, Worldwide	274338-B21
NOTE: No drives included. Accommodates up to 4 internal DDS drives.		
HP StorageWorks DAT 72 Tape Drive for Open Connect	DAT 72i, Internal Tape Drive for Open Connect (Carbon) (WW)	Q1522A
	DAT 72e, External Tape Drive for Open Connect (Carbon) (WW)	Q1523A
	DAT 72m, Array Module Tape Drive (Flint) (Field Integrated)	Q1524A
	DAT 72m, Array Module Tape Drive (Flint) (Factory Integrated)	Q1524A-OD1
	NOTE: DAT 72, Array Modules fit in to HP Tape Array 5300 (C7508A or C7508AZ for factory fitted).	
	DAT 72, Trade Ready Tape Drive (Flint) (WW)	Q1526A
NOTE: No markings on front panel, no learning products, no software, no cables.		
NOTE: For additional information regarding the HP StorageWorks DAT 72 Tape Drive, please see the following URL:		
http://h18000.www1.hp.com/products/quickspecs/11597_div/11597_div.HTML		
http://h18000.www1.hp.com/products/quickspecs/11597_div/11597_div.PDF		
HP StorageWorks Rackmount Tape Drive Kits for ProLiant and AlphaServer	HP StorageWorks 3U rack-mount kit	274338-B21
	NOTE: For additional information regarding the HP StorageWorks Rack Mount Tape Drive Kits, please see the following URL:	
http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML		
http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.PDF		
HP StorageWorks DAT 40x6 Autoloader for ProLiant and AlphaServer Systems	DAT 40x6 Autoloader (Internal)	Q1550A
	DAT 40x6 Autoloader (External) (US)	Q1551A
	DAT 40x6 Autoloader (External) (WW)	Q1552A
HP StorageWorks DAT 40x6 Autoloader for Open Connect	DAT 40x6 Autoloader for Open Connect (Internal)	C5716A
	DAT 40x6 Autoloader for Open Connect (External) (WW)	C5717C
	DAT 40x6 Autoloader for Open Connect (Trade Ready)	C5715A
	NOTE: For additional information regarding the HP StorageWorks DAT 40x6 Tape Autoloader, please see the following URL:	
http://h18000.www1.hp.com/products/quickspecs/11785_div/11785_div.HTML		
http://h18000.www1.hp.com/products/quickspecs/11785_div/11785_div.PDF		

Options

HP StorageWorks 20/40-GB DAT DDS-4 8 Cassette Autoloader	HP StorageWorks DAT 20/40 autoloader (internal) HP StorageWorks DAT 20/40 autoloader (external)	166504-B21 166505-001
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NOTE: For additional information regarding the HP StorageWorks 20/40-GB DAT 8 Cassette Autoloader, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/10518_div/10518_div.HTML

http://h18000.www1.hp.com/products/quickspecs/10518_div/10518_div.PDF

Servers Supported

Servers Supported

HP Blade Servers	ProLiant BL20p ProLiant BL40p		
HP ML Servers	ProLiant ML310	ProLiant ML330	ProLiant ML350
	ProLiant ML370	ProLiant ML530	ProLiant ML570
HP DL Servers	ProLiant DL320 ProLiant DL360	ProLiant DL380	
	ProLiant DL560 ProLiant DL740	ProLiant DL760	
HP Servers tc	tc21xx		

Technical Specifications

General Characteristics	DDS-1	DDS-2	DDS-3	DDS-4	DAT-72
Product Number	C5706A	C5707A	C5708A	C5718A	C8010A
Compressed Capacity (Assumes 2:1 compression)	4 GB	8 GB	24 GB	40 GB	72 GB
Performance					
Cartridge Life (Passes)	2,000 passes or 100 full backups	2,000 passes or 100 full backups	2,000 passes or 100 full backups	2,000 passes or 100 full backups	2,000 passes or 100 full backups
Coercivity (Oersted)	1550	1650	2300	2300	2350
Physical Characteristics					
Cartridge Color	Black	Black	Black	Black	Blue
Dimensions (HxWxD)	73.0 x 54.0 x 10.5 mm (2.88 x 2.13 x 0.41 in)	73.0 x 54.0 x 10.5 mm (2.88 x 2.13 x 0.41 in)	73.0 x 54.0 x 10.5 mm (2.88 x 2.13 x 0.41 in)	73.0 x 54.0 x 10.5 mm (2.88 x 2.13 x 0.41 in)	73.0 x 54.0 x 10.5 mm (2.88 x 2.13 x 0.41 in)
Weight	23g (0.81oz)	23g (0.81oz)	23g (0.81oz)	23g (0.81oz)	23g (0.81oz)
Tape Length (meters)	91.5 ± 0.5	123.5 ± 0.5	124.5 ± 0.5	154.5 +/- 0.5	170 + 0.8/- .2
Tape Width (mm)	3.81	3.81	3.81	3.81	3.81
Tape Thickness (microns)	9.0 ± 0.8	6.5 ± 0.4	6.5 ± 0.4	5.6 +/- 0.3	5.1 +/- 0.2
Manufacturing Materials (Tape Type) Metal	MP	MP	MP	MP	MP
Recording Density (KB/Inch)	61	61	122	122	162
Recording Surface Density (MB/Inch ²)	114	171	342	455	761
Operating Environment					
Non-Operating	5°C to 45°C, 20% to 80% RH (non-condensing)	5°C to 45°C, 20% to 80% RH (non-condensing)	5°C to 45°C, 20% to 80% RH (non-condensing)	5°C to 45°C, 20% to 80% RH (non-condensing)	5°C to 45°C, 20% to 80% RH (non-condensing)
Temperature and Relative Humidity	5°C to 32°C 20% to 60% RH (non-condensing)	5°C to 32°C 20% to 60% RH (non-condensing)	5°C to 32°C 20% to 60% RH (non-condensing)	5°C to 32°C 20% to 60% RH (non-condensing)	5°C to 32°C 20% to 60% RH (non-condensing)
Transportation Environmental Range	-40°C to 45°C 5% to 80% (non-condensing)	-40°C to 45°C 5% to 80% (non-condensing)	-40°C to 45°C 5% to 80% (non-condensing)	-40°C to 45°C 5% to 80% (non-condensing)	-40°C to 45°C 5% to 80% (non-condensing)
Warranty	limited lifetime	limited lifetime	limited lifetime	limited lifetime	limited lifetime

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