

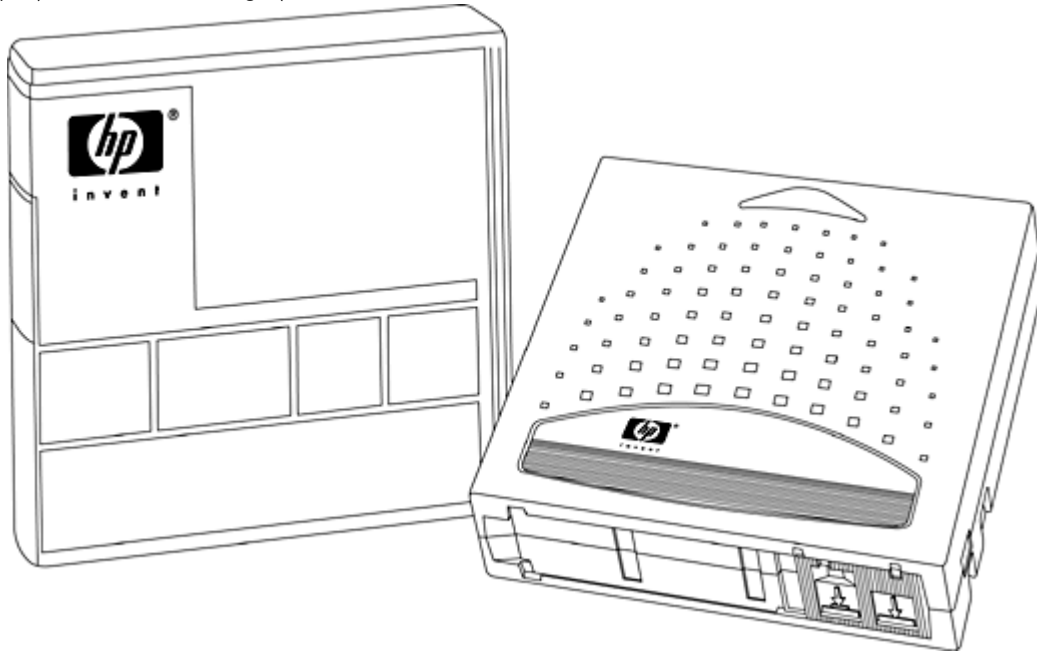
QuickSpecs

HP SDLT/DLT Storage Media

Overview

HP SDLT storage media is ideally suited for data center and departmental backups where compatibility with existing DLT libraries, performance, and cost per megabyte are critical. HP DLT is ideal for mid-range to enterprise requiring reliable, high-capacity backup. DLT is the answer to the high-capacity storage and archiving needs of mid-range systems, network servers and high-end workstations.

Labeled Data Cartridges: Customers can order HP DLT IV, SDLT I and SDLT II data cartridges with Custom Labels attached (available in USA and Europe). Custom Labeled Data Cartridges ship in 20 packs. Minimum order quantity of 5 units or 100 data cartridges in Europe (5 units x 20 cartridges).



| Models | | |
|--------|--|---------|
| | HP SDLT II 600GB Data Cartridge | Q2020A |
| | HP SDLT II 600GB Custom Labeled Data Cartridge (20 pk) | Q2020AL |
| | HP SDLT I 220/320 GB Data Cartridge | C7980A |
| | HP SDLT I Custom Labeled Data Cartridge (20pk) | C7980AL |
| | HP DLTtape VS1 160GB Data Cartridge | C8007A |
| | HP DLT IV 40/70/80GB Data Cartridge | C5141F |
| | HP DLT IV Custom Labeled Data Cartridge (20 pk) | C5141FL |
| | HP DLT Cleaning Cartridge | C5142A |
| | HP DLT1 Cleaning Cartridge | C7998A |
| | HP SDLT 1 Cleaning Cartridge | C7982A |
| | HP SDLT II Bar Code Labels | Q2006A |
| | HP SDLT I Bar Code Labels | Q2003A |
| | HP DLT Bar Code Labels | Q2004A |



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Key Features & Benefits

- Performance: High-performance with reliable back up
- Capacities up to 80GB for DLT; 160GB for VS and 600GB for SDLT
- Limited Lifetime Warranty
- Up to 30 years archival life



Product Highlights

Proven Reliability

HP ensures the highest level of quality with media specifications that far exceed industry standards. HP 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 jeopardize backup, and backup disruption jeopardizes business continuity. HP supports hardware warranty initiatives in the field with a vested interest in reducing all media-induced hardware issues. 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.

DLT and VS Technology

DLT tape has been a leading technology in backup and archive storage for medium-sized business for almost a decade. Developed by Quantum Corporation, DLT technology offers high-performance, reliable backup at a great value. HP DLT tapes offer optimum compatibility with HP as well as other certified DLT drives. HP DLTtape VS1 160GB Data Cartridges offer higher capacity and low cost per GB for customers with prior investments in DLT backup technology. They are a good choice for IT managers in corporate and Enterprise data centers who need to back up value servers in a reasonable time frame.

SDLT Technology

Super DLT is another tape format which extends the capabilities of DLT technology. It is designed to meet the business critical demands of enterprise storage customers. 2nd generation Super DLT II 600GB Data Cartridge offers high capacity and low cost per GB for customers with prior investments in DLT backup technology. Super DLTtape II cartridges support DLTSage for improved media and drive diagnostics. DLTSage enables IT managers and network staff to better manage, predict and proactively prevent backup problems.



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Options

Related Hardware Options

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

| | | |
|------------------------|--|------------|
| HP DLT VS80 Tape Drive | DLT VS80, Internal, Worldwide (Carbon) | 280129-B21 |
| | DLT VS80, External, North America (Carbon) | 280129-B22 |
| | DLT VS80, External, International (Carbon) | 280129-B31 |
| | DLT VS80, External, Japan (Carbon) | 280129-291 |

NOTE: For additional information regarding the HP DLT VS80 Tape Drive, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/11403_div/11403_div.HTML

http://h18000.www1.hp.com/products/quickspecs/11403_div/11403_div.PDF

| | | |
|----------------------------------|--|--------|
| HP SureStore DLT VS80 Tape Drive | HP SureStore DLT VS80i Tape Drive, Internal | C7504A |
| | HP SureStore DLT VS80e Tape Drive, External | C7503B |
| | HP SureStore DLT VS80m Array Module Tape Drive | C7507A |
| | HP SureStore DLT VS80 Trade-Ready, Internal | C7505A |

| | | |
|--------------------------------|--|--------|
| HP SureStore DLT 80 Tape Drive | HP Surestore DLT 80i, Tape Drive, Internal | C5725A |
| | HP Surestore DLT 80e, Tape Drive, External | C5726A |
| | HP Surestore DLT 80m Array Module Tape Drive | C7456A |

| | | |
|----------------------|--|-------------|
| HP DLT 80 Tape Drive | DLT 80 Tape Drive, Internal, Worldwide (Carbon) | 146196-B22 |
| | DLT 80 Tape Drive, Internal, SBB | DS-TZ90N-VW |
| | DLT 80 Tape Drive, External, International (Carbon) | 146197-B23 |
| | DLT 80 Tape Drive, External, Japan (Carbon) | 146197-293 |
| | DLT 80 Tape Drive, 3U Rackmount, Worldwide (Carbon) | 274332-B21 |
| | NOTE: Single drive installed in 3U Rackmount Kit. | |
| | DLT 80, Dual-Drive, 3U Rackmount, Worldwide (Carbon) | 274335-B21 |
| | NOTE: Two drives installed in 3U Rackmount Kit. | |
| | DLT 80 Tape Array III, 5U Rackmount, Worldwide (Carbon) | 274337-B21 |

NOTE: Four drives installed in 5U Rackmount Kit.

NOTE: For additional information regarding the HP DLT 80 Tape Drive, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/10658_div/10658_div.HTML

http://h18000.www1.hp.com/products/quickspecs/10658_div/10658_div.PDF

| | | |
|-------------------------|---|--------|
| HP DLT VS160 Tape Drive | HP DLT VS160 Internal Tape Drive | A7569A |
| | HP DLT VS160 External Tape Drive, North America | A7570A |
| | HP DLT VS160 External Tape Drive, Worldwide | A7571A |



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| | | |
|--------------------|--|------------|
| HP SDLT Tape Drive | SDLT 220, Internal, Worldwide (Carbon) | 192106-B25 |
| | SDLT 220, External, North America (Carbon) | 192103-002 |
| | SDLT 220, External, International (Carbon) | 192103-B32 |
| | SDLT 220, External, Japan (Carbon) | 192103-292 |
| | SDLT 220, 3U Rackmount, Worldwide (Carbon) | 274331-B21 |
| | NOTE: Single drive installed in 3U Rackmount Kit. | |
| | SDLT 220, Dual-Drive, 3U Rackmount, Worldwide (Carbon) | 274334-B21 |
| | NOTE: Two drives installed in 3U Rackmount Kit. | |
| | SDLT 220 Tape Array III, 5U Rackmount, Worldwide (Carbon) | 274336-B21 |
| | NOTE: Four drives installed in 5U Rackmount Kit. | |
| | SDLT 320, Internal, Worldwide (Carbon) | 257319-B21 |
| | SDLT 320, External, North America (Carbon) | 257319-001 |
| | SDLT 320, External, International (Carbon) | 257319-B31 |
| | SDLT 320, External, Japan (Carbon) | 257319-291 |
| | NOTE: For additional information regarding the HP SDLT 220 Tape Drive, please see the following URL: http://h18000.www1.hp.com/products/quickspecs/10772_div/10772_div.HTML http://h18000.www1.hp.com/products/quickspecs/10772_div/10772_div.PDF NOTE: For additional information regarding the HP SDLT 320 Tape Drive, please see the following URL: http://h18000.www1.hp.com/products/quickspecs/11406_div/11406_div.HTML http://h18000.www1.hp.com/products/quickspecs/11406_div/11406_div.PDF | |

| | | |
|------------------------|---|--------|
| HP SDLT 600 Tape Drive | SDLT 600 Internal Tape Drive | A7518A |
| | SDLT 600 External Tape Drive, North America | A7519A |
| | SDLT 600 External Tape Drive, Worldwide | A7520A |

| | | |
|---|--|------------|
| HP Rackmount Tape Drive Kits for ProLiant and AlphaServer | HP 3U Rackmount Kit | 274338-B21 |
| | HP 5U Rackmount Kit | 274339-B21 |
| | NOTE: For additional information regarding the HP 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 | |

Library Models



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HP SDLT/DLT Storage Media

Options

NOTE: This is a list of supported product. Some may be discontinued.

| | | |
|----------------------------|--|------------|
| HP MSL5026DLX Tape Library | MSL5026, 0 DR, LVD, RM | 231979-B21 |
| | MSL5026DLX, 1 40/80-GB DLT DR, LVD, TT | 231821-B21 |
| | MSL5026DLX, 2 40/80-GB DLT, LVD, TT | 231821-B22 |
| | MSL5026DLX, 1 40/80-GB DLT DR, LVD, RM | 231891-B21 |
| | MSL5026DLX, 2 40/80-GB DLT, LVD, RM | 231891-B22 |

NOTE: For additional information regarding the HP MSL5026DLX Tape Library, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/10955_div/10955_div.HTML

http://h18000.www1.hp.com/products/quickspecs/10955_div/10955_div.PDF

| | | |
|---------------------------|---|------------|
| HP MSL5052SL Tape Library | MSL5052S2, 0 DRV, SDLT 320, RM Library | 255102-B21 |
| | MSL5052SL, 2 SDLT 220 GB Drive, LVD, TT Library | 249490-B21 |
| | MSL5052SL, 2 SDLT 220 GB Drive, LVD, RM Library | 249491-B21 |

NOTE: For additional information regarding the HP MSL5052SL Tape Library, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/11061_div/11061_div.HTML

http://h18000.www1.hp.com/products/quickspecs/11061_div/11061_div.PDF

| | | |
|---------------------------|---|------------|
| HP MSL5026S2 Tape Library | MSL5026S2, 0 DRV, RM Library | 293472-B21 |
| | MSL5026S2, 1 DRV, SDLT 160/320, RM Library | 293472-B22 |
| | MSL5026S2, 2 DRV, SDLT 160/320, RM Library | 293472-B23 |
| | MSL5026S2, 1 DRV, SDLT 160/320, RM Library with embedded FC router option | 293472-B24 |
| | MSL5026S2, 2 DRV, SDLT 160/320, RM Library with embedded FC router option | 293472-B25 |
| | MSL5026S2, 1 DRV, SDLT 160/320, TT Library | 293473-B21 |
| | MSL5026S2, 2 DRV, SDLT 160/320, TT Library | 293473-B22 |

NOTE: For additional information regarding the HP MSL5052SL Tape Library, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/11453_div/11453_div.HTML

http://h18000.www1.hp.com/products/quickspecs/11453_div/11453_div.PDF

| | | |
|----------------------------------|---------------------------------------|------------|
| HP MSL5026SL Tape Library (Opal) | MSL5026SL, 1 SDLT 110/220 DR, LVD, TT | 231822-B21 |
| | MSL5026SL, 2 SDLT 110/220, LVD, TT | 231822-B22 |
| | MSL5026SL, 1 SDLT 110/220 DR, LVD, RM | 231892-B21 |
| | MSL5026SL, 2 SDLT 110/220, LVD, RM | 231892-B22 |

NOTE: For additional information regarding the HP MSL5052SL Tape Library, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/10860_div/10860_div.HTML

http://h18000.www1.hp.com/products/quickspecs/10860_div/10860_div.PDF



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Options

| | | |
|---------------------------|---|------------|
| HP MSL5052S2 Tape Library | MSL5052S2, 0 DRV, SDLT 160/320, RM Library | 255102-B21 |
| | MSL5052S2, 2 DRV, SDLT 160/320, TT Library | 293476-B21 |
| | MSL5052S2, 2 DRV, SDLT 160/320, RM Library | 293474-B21 |
| | MSL5052S2, 2 DRV, SDLT 160/320, RM Library with embedded FC router option | 293474-B24 |

NOTE: For additional information regarding the HP MSL5052SL Tape Library, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/11442_div/11442_div.HTML

http://h18000.www1.hp.com/products/quickspecs/11442_div/11442_div.PDF

| | | |
|-------------------------|--|------------|
| HP ESL9322 Tape Library | ESL9322 Tape Library, 0 drive, 222 slots | 330832-B21 |
|-------------------------|--|------------|

NOTE: For additional information regarding the HP MSL5052SL Tape Library, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/11628_div/11628_div.HTML

http://h18000.www1.hp.com/products/quickspecs/11628_div/11628_div.PDF

| | | |
|-------------------------|---|------------|
| HP ESL9595 Tape Library | ESL9595 Tape Library, 0 drives, 400-slot tape library | 330833-B21 |
|-------------------------|---|------------|

NOTE: For additional information regarding the HP MSL5052SL Tape Library, please see the following URL:

http://h18000.www1.hp.com/products/quickspecs/11629_div/11629_div.HTML

http://h18000.www1.hp.com/products/quickspecs/11629_div/11629_div.PDF



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HP SDLT/DLT Storage Media

Servers Supported

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



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HP SDLT/DLT Storage Media

Technical Specifications

| | DLTTAPE IV | VS160 | SUPER DLTTAPE I | SUPER DLTTAPE II |
|---|--------------------------|--------------------------|--------------------------|--------------------------|
| Physical Characteristics | | | | |
| Width | 4.16 in (105.7 mm) | 4.16 in (105.7 mm) | 4.16 in (105.7 mm) | 4.16 in (105.7 mm) |
| Length | 4.15 in (105.4 mm) | 4.15 in (105.4 mm) | 4.15 in (105.4 mm) | 4.15 in (105.4 mm) |
| Height | 1 in (25.4 mm) | 1 in (25.4 mm) | 1 in (25.4 mm) | 1 in (25.4 mm) |
| Weight | 7.85 oz (225.5 gm) | 7.85 oz (225.5 gm) | 7.85 oz (225.5 gm) | 7.85 oz (225.5 gm) |
| Color | Black | Ivory/Black | Green | Blue or Blue/Grey |
| Capacity (all capacity numbers quoted use a 2:1 compression ratio; this may vary since compression is data dependent.) | 40/70/80 GB | 160GB | 220/320 GB | 600GB |
| Tape Characteristics | | | | |
| Tape Type | Metal Particle | Advanced Metal Particle | Advanced Metal Particle | eMP60™ |
| Overall Length | 1,828 ft (557 m) | 1,847 ft (563 m) | 1,833 ft (559 m) | 2,066 ft (630 m) |
| Data Area Length | 1,780 ft (543 m) | | 1,760 ft (536 m) | |
| Tape Width | 0.5 in (12.7 mm) | 0.5 in (12.7 mm) | 0.5 in (12.7 mm) | 0.5 in (12.7 mm) |
| Tape Thickness | 360μ | 360μ | 360μ | 360μ |
| Magnetic Properties | | | | |
| Coercivity | 1,850 Oe | 1,850 Oe | 1,900 Oe | 2,800 Oe |
| Remanence | 2,900 G | 3,000 G | 3,000 G | 2,300 G |
| Tape Life | | | | |
| Archive Storage (with less than 10% loss in demagnetization, at 20°C and 40% non-condensing humidity) | > 30 years | > 30 years | > 30 years | > 30 years |
| Durability (average head passes in typical office/computer environment) | 1,000,000 | 1,000,000 | 1,000,000 | 1,000,000 |
| Operating Environment | | | | |
| Operating Temperature | 50° - 113°F (10° - 45°C) | 50° - 113°F (10° - 45°C) | 50° - 113°F (10° - 45°C) | 50° - 113°F (10° - 45°C) |
| Non-Condensing Relative Humidity | 20% - 80% | 20% - 80% | 20% - 80% | 20% - 80% |
| Max. Wet Bulb Temp. | 77°F (25°C) | 79°F (26°C) | 79°F (26°C) | 79°F (26°C) |
| Non-Archival Storage Environment | | | | |
| Temperature | 61° - 90°F (16° - 32°C) | 60° - 90°F (16° - 32°C) | 60° - 90°F (16° - 32°C) | 60° - 90°F (16° - 32°C) |
| Non-Condensing Relative Humidity | 20% - 80% | 20% - 80% | 20% - 80% | 20% - 80% |



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| | | | | |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| Maximum Wet Bulb Temperature | 78°F (26°C) | 79°F (26°C) | 79°F (26°C) | 79°F (26°C) |
| Archival Storage Environment | | | | |
| Ambient Temperature | 64° - 82°F (18° - 28°C) | 64° - 82°F (18° - 28°C) | 64° - 82°F (18° - 28°C) | 64° - 82°F (18° - 28°C) |
| Non-Condensing Relative Humidity | 40% - 80% | 40% - 80% | 40% - 80% | 40% - 80% |
| Stray Magnetic Field (strength impinging on any point on the cartridge) | < 4,000 G | < 4,000 G | < 4,000 G | < 4,000 G |

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