



## HP Tape Drive range

	NEW!		NEW!		NEW!									
Product	DAT 24 USB		DAT 40		DAT 40 USB		DAT 72	DAT 72 USB	DLT VS160	Ultrium 232	Ultrium 448	Ultrium 460	SDLT 600	Ultrium 960
More information	<a href="http://welcome.hp.com/country/uk/en/prodserv/storage.html">http://welcome.hp.com/country/uk/en/prodserv/storage.html</a>													
Part Number and description	Internal – DW069A External – DW070A	Internal – C5686C External – C5687D Array – C7497C Hot Plug – Q1546A	Internal – DW022A External – DW023A	Internal – Q1522B External – Q1523B Array – Q1524C Hot Plug – Q1529A	Internal – DW026A External – DW027A	Internal – A75698 External – A75718	Internal – DW064A External – DW065B Array Module – C7492B Rack – 350544-B21	Internal – DW016A External – DW017B Array Module – DW019A Rack – DW028B	Internal – Q1518B External – Q1520B Array Module – Q1512B Rack – 350546-B22	Internal – A7518B External – A7520B Rack – A7965B	Internal – Q1538A External – Q1539B Array Module – Q1540A Rack – Q1595A			
Form factor and configuration	3.5 or 5.25-inch half-height, internal, external, hot-plug and array						5.25-inch full-height, internal and external	5.25-inch half-height and full-height, internal, external, array and 3U Rack	half-height, internal, external, array module	5.25-inch full-height, internal, external array and rack-mount	5.25-inch full-height, internal and external	5.25-inch full-height, internal, external array and rack-mount		
Positioning statement	For IT professionals that require a cost effective back up for small and medium business environments	For IT professionals that require a cost effective back up for small and medium business environments	The HP StorageWorks DAT 40 tape drive is a fast, dependable backup solution for smaller servers. This DDS-4 tape drive stores 40 GB of compressed data on a single cartridge at a rate of 23 GB/Hr.	For IT professionals that require a cost effective back up for small and medium business environments	The HP StorageWorks DAT 72 tape drive provides unprecedented levels of capacity, reliability and low cost of ownership in a DDS drive. It stores 72 GB of compressed data on a single data cartridge at a transfer rate of 23 GB/Hr.	Provides reliable backup for IT managers with mid-range servers and existing investment in DLT technology.	Ideal for midrange customers requiring a direct-attach tape backup solution, or for clients who need more capacity than DAT	Covering the demands of mid-range commercial and enterprise network servers	Performance, reliability and capacity to cover the demands of mid-range commercial and enterprise network servers	Offering capacity and performance to provide a smooth transition from DLT technology	Unprecedented, enterprise-class data protection for enterprise and mid-range servers and small hard drive arrays			
Native capacity	12 GB per tape	20 GB per tape		36 GB per tape		80 GB per tape	101 GB per tape	200 GB per tape	200 GB per tape	300 GB per tape	400 GB per tape			
Native transfer rate	1 MB/s	3 MB/s		3 MB/s		8 MB/s	32 MB/s	24 MB/s	60 MB/s	36 MB/s	160 MB/s			
Key benefit – 1	The new HP DAT USB tape drive combines the reliability and cost-effectiveness of DAT with the universal plug-and-play capabilities of the USB 2.0 interface.	Provides reliable backup for IT managers with mid-range servers and existing investment in DLT technology.	The new HP DAT USB tape drive combines the reliability and cost-effectiveness of DAT with the universal plug-and-play capabilities of the USB 2.0 interface.	Provides reliable backup for IT managers with mid-range servers and existing investment in DLT technology.	The new HP DAT USB tape drive combines the reliability and cost-effectiveness of DAT with the universal plug-and-play capabilities of the USB 2.0 interface.	Backward read compatibility with DLT IV media for ease of migration from DLT drives	The most affordable LTO drive on the market. Delivers enterprise-class capacity, performance and reliability at a great price point	Half height 400 GB drive with all the benefits of the Ultrium 460 but in a half height package	Capacity of up to 400 GB of compressed data on one tape means fewer swaps, fewer tapes	One-Button Disaster Recovery	Capacity of up to 800 GB of compressed data on one tape means fewer swaps, fewer tapes			
Key benefit – 2	Proven reliability plus HP One-Button Disaster Recovery for fast and easy system recovery	<b>Highly reliable</b> – Proven track record, largest installed base of any tape technology and assured compatibility and interchange	Proven reliability plus HP One-Button Disaster Recovery for fast and easy system recovery.	<b>Highly reliable</b> : Proven track record, largest installed base of any tape technology and assured compatibility and interchange	Stores up to 80 GB of compressed data on one cartridge – ideal for the small office environment	Affordable capacity and performance with the lowest LTO drive on the market and superdrive capacity of 200 GB per cartridge (compressed)	Supports HP One-Button Disaster Recovery for fast and easy recovery from a system crash	Transfer rate of up to 60 MB/s providing backup of 216 GB data in one hour	Next Generation SDLT technology	Transfer rate of up to <b>160 MB/s</b> for the fastest backup currently available				
Key benefit – 3	Meets the backup windows needs of the majority of SMB customers providing 21 GB per hour performance	<b>Cost effective</b> – Low cost of ownership, driven by the remarkably low-cost of DAT media; additional investment protection through a painless upgrade path with a robust roadmap	Meets the backup windows needs of the majority of SMB customers providing 21 GB per hour performance.	<b>Cost effective</b> – Low cost of ownership, driven by the remarkably low-cost of DAT media; additional investment protection through a painless upgrade path with a robust roadmap	Fast transfer rate of 6 MB/s for compressed data means that 80 GB of data can be saved in under 4 hours	Enterprise-class reliability thanks to a design leveraged from previous LTO tape drives and dynamic data rate matching feature reducing wear and tear on the drive and media	Includes dynamic data rate matching technology to minimise the back-up time and drive wear, plus all the standard StorageWorks advantages	Complete compatibility with Generation 1 tapes – provides easy migration to this drive	Improved capacity and data rate performance with read write back to SDLT 319	Complete compatibility with Generation 2 media and read compatibility with Generation 1 media				
Key benefit – 4	<b>Protected investment</b> – DDS standard for interchange and a robust ongoing roadmap	Universal plug-and-play USB 2.0 interface eliminates the need for additional purchase of host-bus-adapters	<b>Protected investment</b> – DDS standard for interchange and a robust ongoing roadmap	Universal plug-and-play USB 2.0 interface eliminates the need for additional purchase of host-bus-adapters	Half-height form factor DLT technology based product for environments where space is at a premium	Only half-height drive LTO 1 drive on the market and most compact LTO drive available (only 8.1" deep)	Enterprise-class reliability thanks to a design leveraged from previous LTO tapes and dynamic data rate matching feature reducing wear and tear on the drive and media							
Key benefit – 5	Low cost media providing lower total cost of ownership	<b>Plug and Play</b> – Out of the box and ready to use in less than 60 seconds; eliminates SCSI resource conflicts and more complicated SCSI setup	Low cost media providing lower total cost of ownership	<b>Plug and Play</b> – Out of the box and ready to use in less than 60 seconds; eliminates SCSI resource conflicts and more complicated SCSI setup	As with all HP tape drives, comes complete with HP Library and Tape Tools for troubleshooting and TapeAlert for monitoring	Supports HP One-Button Disaster Recovery for fast and easy recovery from a system crash	Fully read/write compatible with all Gen 1 and 2 Ultrium drives	HP One-Button Disaster Recovery for fast and easy recovery from a system crash		HP One-Button Disaster Recovery for fast and easy recovery from a system crash				
Upsell in range	The new <b>USB DAT 40 and DAT 72</b> drives offer simple connectivity with <b>higher</b> capacity and performance. The most cost effective drive in the market for the growing business	HP can offer both the DAT 72 drive in SCSI or USB interface variants, delivering almost <b>twice</b> the capacity of the DAT 40 or the new Ultrium 232 provides <b>200 GB</b> compressed capacity at <b>5 times</b> the transfer rate, in the same half-height form factor	The Ultrium 232 provides <b>200 GB</b> compressed capacity at <b>5 times</b> the transfer rate, in the same half-height form factor	If the window for your backup is time restricted then the Ultrium 232 offer <b>increased</b> capacity and <b>double</b> the transfer rate	Our generation 2 Ultrium 448 provides <b>double</b> the capacity and performance in the same form factor	All our full-height Ultrium drives offer <b>increased</b> capacity at <b>significantly higher</b> data transfer rates	HP's Ultrium 960 Generation 3 drives provides double the capacity and performance as well as <b>WORM</b> functionality	All our full-height Ultrium drives offer <b>increased</b> capacity at <b>significantly higher</b> data transfer rates	For storage capacity exceeding this drive, look to autoloaders for automated backup over multiple tapes					
Cross selling – 1	<b>Tape Media</b> HP DDS data cartridges are tested in all HP DAT drives – which account for more than half the world's installed base of this technology – this ensure that they meet the exacting mechanical, environmental and durability specifications of computer applications. Tested to durability specifications twice as rigorous as those required by the DDS logo tests, an HP DDS cartridge will consistently do an excellent job – in the toughest environment and for the whole of its archival life			<b>Tape Media</b> HP's VS1 media is exhaustively qualified for use with HP and non-HP VS160 drives. A continuous testing program in HP's media laboratory guarantees the high levels of quality uniquely specified by Hewlett-Packard			<b>Tape Media</b> 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. HP also conducts tests on multiple batches of media using to ensure performance in different environments			<b>Tape Media</b> 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 x 7. HP also conducts tests on multiple batches of media to ensure performance in different environments				
Cross selling – 2	<b>Maintenance</b> Further improve the life and reliability of the drive with the HP DLT 1 cleaning cartridge			<b>Maintenance</b> Further improve the life and reliability of the drive with the HP DLT 1 cleaning cartridge			<b>Connectivity</b> All tape storage products have SCSI connection. SCSI connection kits for workstations and servers are available			<b>Maintenance</b> Further improve the life and reliability of the drive with the HP Ultrium Universal cleaning cartridge				
Key competitor – 1	<b>Certrance TapeStor DAT</b>			<b>Quantum</b>			<b>Certrance Viper200</b>			<b>IBM Ultrium 3580</b>				
Sell against	Certrance offer no USB DAT drives. This drive offers easy connectivity for both internal and external variants and infact allows in external form "box to back-up" in 60 seconds	HP One-Button Disaster Recovery solution enables easy recovery for the small business users. HP committed to the future of DAT; Certrance have limited development budgets moving forward and will therefore find investing in new generations of DAT	Certrance offer no USB DAT drives. This drive offers easy connectivity for both internal and external variants and infact allows in external form "box to back-up" in 60 seconds	HP One-Button Disaster Recovery solution enables easy recovery for the small business users. HP committed to the future of DAT; Certrance have limited development budgets moving forward and will therefore find investing in new generations of DAT	Certrance offer no USB DAT drives. This drive offers easy connectivity for both internal and external variants and infact allows in external form "box to back-up" in 60 seconds	HP StorageWorks offers full range of Internal, External drives with Backup software, media and cabling in the box	Integrated HP One-Button Disaster Recovery enables fast recovery of mission critical data to get back up and running as quickly as possible	True Gen 2 performance in a half height form factor for workstation or Server integration. Unmatched data rate performance with HP dynamic data rate matching technology and OBDRC	Integrated HP One-Button Disaster Recovery enables fast recovery of mission critical data to get back up and running as quickly as possible. Plus Dynamic data rate matching which minimises back-up times and reduces wear and tear on the drive	HP StorageWorks offers full range of Internal, External drives with Backup software, media and cabling in the box	Integrated HP One-Button Disaster Recovery enables fast recovery of mission critical data to get back up and running as quickly as possible. Plus Dynamic data rate matching which minimises back-up times and reduces wear and tear on the drive			
Key competitor – 2	<b>Sony DDS</b>			<b>IBM VS 160</b>			<b>IBM TotalStorage Ultrium 3581</b>			<b>Quantum SDLT600</b>				
Sell against	Sony only offer IDE in AIT drives. This drive offers easy connectivity for both internal and external variants and infact allows in external form "box to back-up" in 60 seconds	HP One-Button Disaster Recovery solution enables easy recovery for the small business users. HP committed to the future of DAT; Sony now investing in AIT	Sony only offer IDE in AIT drives. This drive offers easy connectivity for both internal and external variants and infact allows in external form "box to back-up" in 60 seconds	HP One-Button Disaster Recovery solution enables easy recovery for the small business users. HP committed to the future of DAT; Sony now investing in AIT	Sony only offer IDE in AIT drives. This drive offers easy connectivity for both internal and external variants and infact allows in external form "box to back-up" in 60 seconds	HP StorageWorks offers full range of Internal, External drives with Backup software, media and cabling in the box	Integrated HP One-Button Disaster Recovery enables fast recovery of mission critical data to get back up and running as quickly as possible	Higher capacity and higher performance plus part of the LTO Ultrium open standard for interchange and investment protection		Higher capacity and higher performance plus part of the LTO Ultrium open standard for interchange and investment protection				
Warranty	1 year next business day exchange	3-year next business day exchange				3-year next business day exchange	3-year next business day exchange	3-year next business day exchange	3-year next business day response	3-year next business day exchange	3-year next business day exchange			
Upgrade	3-year same day onsite	3-year same day onsite				3-year same day onsite	Same day on-site 4-hour service	Same day on-site 4-hour service	Same day on-site 4-hour service	3-year same day onsite	Same day on-site 4-hour service			

# Simply StorageWorks

Storage is easy when you choose HP.



Latest update on Nov 2005. HP shall not be liable for technical or editorial errors or omissions contained herein.												
<b>HP StorageWorks Cross Reference Sheet for hardware, software and OS support</b> For more information, please visit: <a href="http://www.hp.com/go/connect">www.hp.com/go/connect</a>												
HP StorageWorks tape drives	Entry-level					Midrange			Super-drive			
	Excellent tape drives with relatively low capacity and price point for both the drive and media. Ideal for backup of one server					For medium size companies who has a long back up window			For companies that need the fastest back up of large quantities of data – ideal for backup of more servers via the LAN. For companies that values minimum time to restore			
	NEW!		NEW!		NEW!							
	DAT 24 USB	DAT 40	DAT 40 USB	DAT 72	DAT 72 USB	DLT VS160	Ultrium 232	Ultrium 448	Ultrium 460	SDLT 600	Ultrium 960	
<b>Compressed Capacity (2:1)</b>	24 GB	40 GB	40 GB	72 GB	72 GB	160 GB	200 GB	400 GB	400 GB	600 GB	800 GB	
<b>Transfer Rate (2:1)</b>	2 MB/Sec – 7.2 GB/Hr	6 MB/Sec – 21.6 GB/Hr	6 MB/Sec – 21.6 GB/Hr	6 MB/Sec – 21.6 GB/Hr	6 MB/Sec – 21.6 GB/Hr	16 MB/Sec – 57.6 GB/Hr	32 MB/Sec – 115 GB/Hr	48 MB/Sec – 172.8 GB/Hr	60 MB/Sec – 216 GB/Hr	72 MB/Sec – 259.2 GB/Hr	160 MB/Sec – 576 GB/Hr	
<b>Backup time for full tape</b>	Backup 24 GB in under 3 hours. NB: Data restoration may take longer	Backup 40 GB in under 2 hours. NB: Data restoration may take longer	Backup 40 GB in under 2 hours. NB: Data restoration may take longer	Backup 72 GB in under 3½ hours. NB: Data restoration may take longer	Backup 72 GB in under 3½ hours. NB: Data restoration may take longer	Backup 160 GB in under 4 hours. NB: Data restoration may take longer	Backup 200 GB in under 2 hours. NB: Restoration may take longer	Backup 400 GB in under 2 hours. NB: Data restoration may take longer	Backup 400 GB in under 2 hours. NB: Data restoration may take longer	Backup 600 GB in under 2 hours. NB: Data restoration may take longer	Backup 800 GB in under 1½ hours. NB: Data restoration may take longer	
<b>Requirements</b>	For small companies looking for a low cost backup solution. DAT is the most popular technology drive ever. Over 9 million drives sold worldwide. DAT 24 is the 3rd generation, DAT 40 is the 4th generation and DAT 72 the 5th generation drive. All these drives have low footprint and are easy to install. Automatic cleaning of read/write head extra safety.					For medium size companies who wants an economical upgrade from DLT4000 format. DLT drives use standard DLT IV media and reads DLT40-media.			For midrange business customers requiring a direct attach tape backup solution of around 200GB capacity and higher data transfer than a DAT drive, or for clients who need more capacity and performance than the DAT drive they have today.			For medium to large size companies that wants backward compatibility with DLT media. SDLT320 is 2nd generation and SDLT600 is 3rd generation
<b>Disaster Recovery support. Check OBDR support <a href="http://www.hp.com/go/connect">www.hp.com/go/connect</a></b>	<b>All HP StorageWorks Tape Drives support OBDR (One-Button Disaster Recovery): HP's unique system restore feature that allows complete restoration of the total server environment including all configurations, applications and data files from the latest full tape backup, initiated literally by pressing one button.</b>											
<b>Media type</b>	DDS-3 media	DDS-4 tape	DDS-4 tape	DDS-5 tape	DDS-5 tape	DLT tape VS1	Ultrium 1 x 200 GB tape	Ultrium 2 x 400 GB tape	Ultrium 2 x 400 GB tape	Super DLTape2	Ultrium 3 x 800 GB tape	
<b>Read/Write Compatibility</b>	Reads DDS-1 and DDS-2	Reads DDS-1, DDS-2 and DDS-3	Reads DDS-1, DDS-2 and DDS-3	Reads and writes DDS-3 and DDS-4	Reads and writes DDS-3 and DDS-4	Reads DLT VS80	Full read-and-write compatible with Ultrium drives and media from other manufacturers	Read and Write compatible with LTO 1 & 2 drives and media	Reads and Writes Ultrium 1 and 2	Reads SDLT 320 and DLT VS 160	Reads Ultrium 2 and 3. Reads Ultrium 1	
<b>Interface</b>	USB 2.0	Wide Ultra3 SCSI (LVD/SE)	USB 2.0	Wide Ultra3 SCSI (LVD/SE)	USB 2.0	Wide Ultra3 SCSI (LVD)	Wide Ultra3 SCSI (LVDS)	Wide Ultra3 SCSI (LVDS)	Wide Ultra3 SCSI (LVDS)	Wide Ultra3 SCSI (LVDS)	Ultra 320 SCSI (LVDS)	
<b>Form Factor</b>	Half-height	Half-height	Half-height	Half-height	Half-height	Half-height	Half-height	Half-height	Half-height	Half-height	Full-height	
<b>Colour</b>	Carbonite	Carbon	Carbonite	Carbon	Carbonite	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon	
<b>OS support</b>	Win NT, Win 2000, NetWare, Tru64 Unix, OpenVMS, Linux, SCO, Sun Solaris	Win NT, Win 2000, NetWare, Tru64 Unix, OpenVMS, Linux, SCO, Sun Solaris	Win NT, Win 2000, NetWare, Tru64 Unix, OpenVMS, Linux, SCO, Sun Solaris	Win NT, Win 2000, MS Win Server 2003, NetWare, Tru64 Unix, OpenVMS, Linux, SCO, Sun Solaris	Win NT, Win 2000, MS Win Server 2003, NetWare, Tru64 Unix, OpenVMS, Linux, SCO, Sun Solaris	Win 2000, Win 2003, HP-UX, Alpha Tru64	Windows, Netware, HP-UX, Tru64, IBM AIX, Red Hat Linux, United Linux, Sun Solaris	Windows, Netware, HP-UX, Tru64, IBM AIX, Red Hat Linux, United Linux, Sun Solaris	Windows, Netware, HP-UX, Tru64, IBM AIX, Red Hat Linux, United Linux, Sun Solaris	Windows, Netware, HP-UX, Tru64, IBM AIX, Red Hat Linux, United Linux, Sun Solaris	Win 2000, Win 2003, Novell NetWare, HP-UX, HP Tru64 UNIX, Open VMS, Linux, Caldera	Windows, Netware, HP-UX, Tru64, IBM AIX, Red Hat Linux, United Linux, Sun Solaris
<b>What's in the Box</b>	1 piece of media, 1 cleaning tape, HP Data Protector Express software, HP StorageWorks CD. Internal: standard USB cable, USB cable for internal ProLiant connect, cable routing kit, screws. External: power supply, Fixed USB 2.0 cable.	1 piece of media, 1 cleaning tape, HP Data Protector Express software. Internal: mounting shelf and rails, screws, 50-68 pin adapter. External: power supply, SCSI cable (68 pin HD to 68 pin VHD, LVD/SE Ultra2, 2.5 m), LVD/SE multimode terminator.	1 piece of media, 1 cleaning tape, HP Data Protector Express software. Internal: mounting shelf and rails, screws, 50-68 pin adapter. External: power supply, SCSI cable (68 pin HD to 68 pin VHD, LVD/SE Ultra2, 2.5 m), LVD/SE multimode terminator.	1 piece of media, 1 cleaning tape, HP Data Protector Express software. Internal: mounting shelf and rails, screws, 50-68 pin adapter. External: power supply, SCSI cable (68 pin VHD to 68 pin HD, multimode, 2.5 m), LVD/SE SCSI multimode terminator.	1 piece of media, 1 cleaning tape, HP Data Protector Express software. Internal: mounting shelf and rails, screws, 50-68 pin adapter. External: power supply, SCSI cable (68 pin VHD to 68 pin HD, multimode, 2.5 m), LVD/SE SCSI multimode terminator.	One Internal VS160 Drive, HP StorageWorks Tape CD-ROM, 1 HP DLTape VS1 160GB Data Cartridge, Warranty Documentation, Media Documentation, HP Data Protector Express CD, 1 ribbon cable, self-terminated. External Drive, Internal spec plus 1 Ultra3/Ultra160 compliant SCSI cable, 68 VHDCI TO 68-PIN, HD, 2.5M, 1 terminator.	1 piece of media, HP Data Protector Express & Data Protector Software, HP StorageWorks Tape CD-ROM, documentation. Internal: internal SCSI cable, mounting rails. External: power supply, SCSI cable (HD 68 pin to VHDCI 68 pin).	1 piece of media, HP Data Protector Express & Data Protector Software, HP StorageWorks Tape CD-ROM, documentation. Internal: internal SCSI cable. External: power supply, SCSI cable (HD 68 pin to VHDCI 68 pin).	1 piece of media, 1 Cleaning tape, HP Data Protector Express & Data Protector software. Internal: mounting rails and Shelf. SCSI cable. External: power supply, 68 pin HD to 68 pin VHDCI multimode SCSI cable.	1 piece of media, 1 Cleaning tape, HP Data Protector Express & Data Protector software. Internal: mounting rails and Shelf. SCSI cable. External: power supply, SCSI terminator, Internal spec plus 1 Ultra3/Ultra160 compliant SCSI cable, 68 VHDCI TO 68-PIN, HD, 2.5M.	1 piece of media, 1 Cleaning tape, HP Data Protector Express & Data Protector software. Internal: mounting rails and Shelf. SCSI cable. External: power supply, 68 pin HD to 68 pin VHDCI multimode SCSI cable.	
<b>Part No. Internal</b>	DW069A	C5686C	DW022A	Q1522B	DW026A	A7565A	DW064A	DW016A	Q1518A	A7518A	Q1518A	
<b>Top Value:</b>	n/a	n/a	TV: Int AE305AT, Ext AE349AT TV Lite: Int AE306A, Ext AE347AM	TV: AE374AT TV Lite: AE375AM	TV: Int AE307AT, Ext AE350AT TV Lite: Int AE308A, Ext AE348AM	n/a	TV: AE303AT TV Lite: AE304A	TV: A7983AT TV Lite: AE301A	n/a	n/a	n/a	
<b>Incl. 4 extra tapes</b>												
<b>Part No. External</b>	DW070A	C5687D	DW023A	Q1523B	DW027A	A7571A	DW065B	DW017B	Q1520A	A7520A	Q1539B	
<b>Part No. Rack-Mount module for Tape Array 5300 (C7508A)</b>	C7498A	C7497C	n/a	Q1524C	n/a	n/a	C7492A	DW019A	Q1512B	n/a	Q1540A	
<b>1U Rack-Mount Solution including 1 drive*</b>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	DW028B	n/a	n/a	n/a	
<b>1U USB Rack-Mount Kits and **</b>	USB Variant Launch Jan 06											
<b>3U Rack-Mount Solution including 1 drive***</b>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	350546-B21	A7965A	Q1595A	
<b>Part No. media</b>	C5708A	C5718A	C5718A	C8010A	C8010A	C8007A	C7971A	C7972A	C7972A	Q2020A	C7973A or C7973W	
<b>Part No. Cleaning Cart'</b>	C5709A	C5709A	C5709A	C5709A	C5709A	C7998A	C7978A	C7978A	C7978A	C7982A	C7978A	
<b>SCSI HBA:</b>	Not needed	365289-B21 Single Ch PCI 64bit Ultra320, 268351-B21 Dual Ch Ultra320 SCSI HBA, 284688-B21 Dual Ch Ultra3 SCSI HBA	Not needed	365289-B21 Single Ch PCI 64bit Ultra320, 268351-B21 Dual Ch Ultra320 SCSI HBA, 284688-B21 Dual Ch Ultra3 SCSI HBA	365289-B21 Single Ch PCI 64bit Ultra320, 268351-B21 Dual Ch Ultra320 SCSI HBA, 284688-B21 Dual Ch Ultra3 SCSI HBA	Not needed	268351-B21 Dual Ch Ultra320 SCSI HBA, 154457-B21 Single Ch Wide Ultra3 SCSI HBA, 129803-B21 Dual Ch Wide Ultra3 SCSI HBA, 348757-B21 Dual Ch Wide Ultra2 SCSI HBA	268351-B21 Dual Ch Ultra320 SCSI HBA, 154457-B21 Single Ch Wide Ultra3 SCSI HBA, 129803-B21 Dual Ch Wide Ultra3 SCSI HBA	374654-B21 Single Ch Ultra320 SCSI HBA G2, 268351-B21 Dual Ch Ultra320 SCSI HBA, 284688-B21 Dual Ch Ultra3 SCSI HBA	374654-B21 Single Ch Ultra320 SCSI HBA G2, 268351-B21 Dual Ch Ultra320 SCSI HBA, 284688-B21 Dual Ch Ultra3 SCSI HBA	268351-B21 Dual Ch Ultra320 SCSI HBA, 154457-B21 Single Ch Wide Ultra3 SCSI HBA, 129803-B21 Dual Ch Wide Ultra3 SCSI HBA, 348757-B21 Dual Ch Wide Ultra2 SCSI HBA	
<b>Check for missing cables and HBAs on: <a href="http://www.hp.com/go/connect">www.hp.com/go/connect</a></b>												
<b>Warranty</b>	1 years exchange (parts only)	3 years exchange (parts only)	3 years exchange (parts only)	3 years exchange (parts only)	3 years exchange (parts only)	3 years exchange (parts only)	3 years exchange (parts only)	3 years exchange (parts only)	3 years exchange (parts only)	3 years exchange (parts only)	3 years exchange (parts only)	
<b>Care Pack: HW, 3 years, next day, 9x5, onsite</b>	H3155A	H3155A	H3155A	H3155A	H3155A	H3155A/E	H3157A	H3157A/E	H3157A	H3157/E	H3157A	
<b>Also available as autoloader?</b>	No	No	No	Yes	Yes	No	No	Yes	Yes	No	No	

\* 1U SCSI Rackmount kit only: A7445B: Fit internal drive sku  
 \*\* 1U USB Rackmount kit only: A8007A: Fit internal drive sku  
 \*\*\* 3U SCSI Rackmount Kit only: 274338-B22: Fit internal drive sku



Recommended Tape Backup Solutions				Entry-level servers							Mid-range and Enterprise servers						Storage servers							
Category	Models	Form Factor	P/N	ML110	ML150	ML310	ML330	ML350	ML370	ML570	DL140	DL145	DL320	DL360	DL380	DL580	ML110 SS	ML350 SS	ML370 SS	DL380 SS	DL580 SS			
Internal tape drive * ML series server, use if 2x1 drive cage is NOT included * ML Rack or DL series server, use with 1U/3U/5U enclosure	DAT	DAT 24 USB (NEW!)	Half-height	DW069A	●	●	●	●	●	●	●	R	R	R	R	R	R	●	●	●	R	R		
		DAT 40	Half-height	C5686C	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	R	R	R	R	R	R	R	● <sup>5</sup>	●	●	R	R	
		DAT 40 USB (NEW!)	Half-height	DW022A	●	●	●	●	●	●	●	R	R	R	R	R	R	R	●	●	●	R	R	
		DAT 72	Half-height	Q1522B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	R	R	R	R	R	R	R	● <sup>5</sup>	●	●	R	R	
		DAT 72 USB (NEW!)	Half-height	DW026A	●	●	●	●	●	●	●	R	R	R	R	R	R	R	●	●	●	R	R	
	Ultrium	Ultrium 232	Half-height	DW064A	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	R	R	R	R	R	R	R	● <sup>5</sup>	●	●	R	R	
		Ultrium 230	Full height	Q1515A	R <sup>5</sup>	R <sup>5</sup>	R	R	●	●	R	R	R	R	R	R	R	R	R <sup>5</sup>	R	●	R	R	
		Ultrium 448	Half-height	DW016A	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	R	R	R	R	R	R	R	● <sup>5</sup>	●	●	R	R	
		Ultrium 460	Full-height	Q1518B	R <sup>5</sup>	R <sup>5</sup>	R	R	●	●	R	R	R	R	R	R	R	R	R <sup>5</sup>	●	●	R	R	
		Ultrium 960	Full-height	Q1538A	R <sup>5</sup>	R <sup>5</sup>	R	R	●	●	R	R	R	R	R	R	R	R	R <sup>5</sup>	●	●	R	R	
	DLT VS160	DLT VS80	1/2 height	337699-B21	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	● <sup>2</sup>	R	R	R	R	R	R	R	● <sup>5</sup>	●	●	R	R	
		DLT VS160	Half-height	A7569B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	● <sup>5</sup>	R	R	R	R	R	R	R	● <sup>5</sup>	●	●	R	R	
	SDLT	SDLT 320	Full height	257319-B21	R <sup>5</sup>	R <sup>5</sup>	R	R	●	●	R	R	R	R	R	R	R	R	R <sup>5</sup>	●	●	R	R	
		SDLT 600	Full-height	A7518B	R <sup>5</sup>	R <sup>5</sup>	R	R	●	●	R	R	R	R	R	R	R	R	R <sup>5</sup>	●	●	R	R	
Category	Models	Form Factor	P/N	ML110	ML150	ML310	ML330	ML350	ML370	ML570	DL140	DL145	DL320	DL360	DL380	DL580	ML110 SS	ML350 SS	ML370 SS	DL380 SS	DL580 SS			
External Tape Drive	DAT	DAT 24 USB (NEW!)	Half-height	DW070A	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		DAT 40	Half-height	C5687D	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●	
		DAT 40 USB (NEW!)	Half-height	DW023A	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		DAT 72	Half-height	Q1523B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●
		DAT 72 USB (NEW!)	Half-height	DW027A	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Ultrium	Ultrium 232	Half-height	DW065B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●	
		Ultrium 448	Half-height	DW017B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●	
		Ultrium 460	Full-height	Q1520B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●	
		Ultrium 960	Full-height	Q1539B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●	
		DLT VS160	DLT VS160	Half-height	A7571B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●
SDLT	SDLT 600	Full-height	A7520B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	R	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●		
Category	Models	Form Factor	P/N	ML110	ML150	ML310	ML330	ML350	ML370	ML570	DL140	DL145	DL320	DL360	DL380	DL580	ML110 SS	ML350 SS	ML370 SS	DL380 SS	DL580 SS			
Internal Hot Plug	DAT 40	Half-height	Q1546A		● <sup>1</sup>	● <sup>1</sup>	● <sup>1</sup>	● <sup>1</sup>	●	●					●	●		●	●	●	●			
	DAT 72	Half-height	Q1529A		● <sup>1</sup>	● <sup>1</sup>	● <sup>1</sup>	● <sup>1</sup>	●	●					●	●		●	●	●	●			
Category	Models	Form Factor	P/N	ML110	ML150	ML310	ML330	ML350	ML370	ML570	DL140	DL145	DL320	DL360	DL380	DL580	ML110 SS	ML350 SS	ML370 SS	DL380 SS	DL580 SS			
Rack Mount	Enclosure only Requires internal tape drives, reference Internal section above for part numbers	1U (for DAT or Ultrium 232)	1U	A7445B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●			
		3U (for DAT or Ultrium)	3U	274338-B22	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●		
	Pre-Configured Tape Drives This is a 1U or 3U rack mount enclosure with a single tape drive included	Ultrium 448	3U	DW028B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●		
		Ultrium 460	3U	350546-B22	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●		
		Ultrium 960	3U	Q1595B	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●	●	●	●	●	●	●	● <sup>5</sup>	●	●	●	●		
Category	Models	Form Factor	P/N	ML110	ML150	ML310	ML330	ML350	ML370	ML570	DL140	DL145	DL320	DL360	DL380	DL580	ML110 SS	ML350 SS	ML370 SS	DL380 SS	DL580 SS			
Tape Array 5300 (requires 2 part numbers to complete order)	Enclosure only Requires hot-swap array modules	Tape Array 5300 (for DAT or Ultrium only)	3U	C7508B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
		DAT 40	Half-height	C7497B	R	R	R	R	R	R	R							R	R	R	R	R		
	Hot-Swap Array Modules (DAT and Ultrium) Only can be used with a Tape Array 5300 Enclosure	DAT 72	Half-height	Q1524C	R	R	R	R	R	R	R							R	R	R	R	R		
		Ultrium 448	Half-height	DW019A	R	R	R	R	R	R	R							R	R	R	R	R		
		Ultrium 230	Full height	C7470B	R	R	R	R	R	R	R							R	R	R	R	R		
		Ultrium 460	Full-height	C1512B	R	R	R	R	R	R	R							R	R	R	R	●		
		Ultrium 960	Full-height	Q1540A	R	R	R	R	R	R	R							R	R	R	R	●		
Category	Models	Form Factor	P/N	ML110	ML150	ML310	ML330	ML350	ML370	ML570	DL140	DL145	DL320	DL360	DL380	DL580	ML110 SS	ML350 SS	ML370 SS	DL380 SS	DL580 SS			
DAT Autoloaders	DAT 72x6 Autoloader (Internal)	Half-height	Q1566A	●	●	●	●	●	●	● <sup>3</sup>	●	●	R	●	R	R	● <sup>5</sup>	●	●	R	R			
	DAT 72x6 Autoloader (External)	Half-height	Q1567A	● <sup>5</sup>	● <sup>5</sup>	●	●	●	●	●			●	●	●	●	● <sup>5</sup>	●	●	●	●			

For Tape Array configuration, P/N C7508A, please see your NSS Specialist

- 1 – The 244059-B21 – ML3xx 2-bay hot-plug SCSI drive cage must be installed
- 2 – The 344257-B21 – full height fan kit must be ordered for use in this configuration
- 3 – Order the C743A 68-pin HD to 68-pin VHDCI converter for this configuration. DL140, DL145 and Blade servers are supported with HP automated backup solutions but are not supported with these tape products. See [www.hp.com/go/connect](http://www.hp.com/go/connect) for more support information
- 4 – Requires optional SCSI controller to operate internal DAT 24 (single-ended SCSI device) in G4 models of MSL350, ML370, DL360 and DL380
- 5 – Requires optional SCSI controller to operate internal SCSI devices in the SATA and hot-plug SCSI models

● Supported. For internal drives this includes internal and Rack-Mount  
 R Rack-Mount only supported.  
 Recommended Solution for this server.



Category		Model	P/N	Benefit
Internal Tape Drive * ML series server, use if 2x1 drive cage is NOT included * ML Rack or DL series server, use with 1U/3U/5U enclosure	DAT	DAT 24 USB NEW!	DW069A	DAT 24 USB Fastest, dependable backup solution for smaller servers; provides 12 GB native capacity If a rack model server, use in a 1U USB HP Rack-mount Kit (Part No: A8007A) Order tape media DAT 24 GB data cartridge, single pack (Part No: C5708A)
		DAT 40	C5686C	DAT 40 Provides 20 GB native capacity; backwards compatible with DDS-2/DDS-3 media If a rack model server, use in a 1U or 3U HP Rack-mount Kit (Part No: A7445A or Part No: 274338-822) and also order the HP 64-bit/133-MHz single channel Ultra320 SCSI HBA G2 (Part No: 374654-821). Note: For DL320 and DL360, this will fill up the only available PCI slot Order tape media DAT 40 GB data cartridge, single pack, Part No: C5718A
		DAT 40 USB NEW!	DW022A	DAT 40 USB Fastest, dependable backup solution for smaller servers; provides 20 GB native capacity If a rack model server, use in a 1U USB HP Rack-mount Kit (Part No: A8007A) Order tape media DAT 40 GB data cartridge, single pack (Part No: C5718A) Top Value skus: TV: AE305AT ; TV Lite: AE306A
		DAT 72	Q1522B	DAT 72 Provides 36GB native capacity; backwards compatible with DDS-3/DDS-4 media If a rack model server, use in a 1U or 3U HP Rack-mount Kit (Part No: A7445A or Part No: 274338-822) and also order the HP 64-bit/133-MHz single channel Ultra320 SCSI HBA G2 (Part No: 374654-821). Note: For DL320 and DL360, this will fill up the only available PCI slot Order tape media DAT 72 GB data cartridge, single pack, Part No: C8010A Top Value skus: TV: AE374AT ; TV Lite: AE375AM
		DAT 72 USB NEW!	DW026A	DAT 72 USB Provides unprecedented levels of capacity, reliability and low cost of ownership in a DDS drive; provides 36 GB native capacity If a rack model server, use in a 1U USB HP Rack-mount Kit (Part No: A8007A) Order tape media DAT 72 GB data cartridge, single pack, Part No: C8010A Top Value skus: TV: AE307AT ; TV Lite: AE308A
	Ultrium	Ultrium 232	DW064A	Ultrium 232 Our lowest priced Ultrium tape drive; 100 GB native capacity If a rack model server, use in a 1U or 3U HP Rack-mount Kit (Part No: A7445A or Part No: 274338-822) For rack-mount, order either the 64-bit/133MHz Dual Channel Ultra320 SCSI adapter Part No: 268351-821 or HP 64-bit/133-MHz single channel Ultra320 SCSI HBA G2 (Part No: 374654-821) Note: For DL320 and DL360, this will fill up the only available PCI slot. Order tape media Ultrium data cartridge 200 GB, single pack, Part No: C7971A Top Value skus: TV: AE303AT ; TV Lite: AE304A
		Ultrium 448	DW016A	Ultrium 448 Half height 400 GB drive with all the benefits of the Ultrium 460 but in a half package. 200 GB native capacity If a rack model server, use in a 1U or 3U HP Rack-mount Kit (Part No: A7445A or Part No: 274338-822) For rackmount, order the 64-bit/133MHz Dual Channel Ultra320 SCSI adapter Part No: 268351-821 Note: For DL320 and DL360, this will fill up the only available PCI slot. Order tape media Ultrium 400 GB data cartridge, single pack, Part No: C7972A Top Value skus: TV: A7983AT ; TV Lite: AE301A
		Ultrium 460	Q1518B	Ultrium 460 Highest capacity Ultrium drive; 200 GB native capacity If a rack model server, use in a 3U HP Rack-mount Kit (Part No: 274338-822) For rackmount, order the 64-bit/133MHz Dual Channel Ultra320 SCSI adapter Part No: 268351-821 Note: For DL320 and DL360, this will fill up the only available PCI slot. Order tape media Ultrium 400 GB data cartridge, single pack, Part No: C7972A
		Ultrium 960	Q1538A	Ultrium 960 Highest capacity Ultrium drive; 400 GB native capacity If a rack model server, use in a 3U HP Rack-mount Kit (Part No: 274338-822) For rackmount, order the 64-bit/133MHz Dual Channel Ultra320 SCSI adapter Part No: 268351-821 Note: For DL320 and DL360, this will fill up the only available PCI slot. Order tape media Ultrium 800 GB data cartridge, single pack, Part No: C7973A. For regulatory compliance needs, HP offers 800 GB Write-Once Read-Many (WORM) data cartridge, single pack, Part No: C7973W
	External Tape Drive	DAT	DAT 24 USB NEW!	DW070A
DAT 40			C5687D	DAT 40 Provides 20 GB native capacity; backwards compatible with DDS-2/DDS-3 media May need to order HP 64-bit/133-MHz single channel Ultra320 SCSI HBA G2 (Part No: 374654-821). Order tape media DAT 40 GB data cartridge, single pack, Part No: C5718A
DAT 40 USB NEW!			DW023A	DAT 40 USB Fastest, dependable backup solution for smaller servers; provides 20 GB native capacity Order tape media DAT 40 GB data cartridge, single pack, Part No: C8010A Top Value skus: TV: AE349AT ; TV Lite: AE347AM
DAT 72			Q1523B	DAT 72 Provides 36 GB native capacity; backwards compatible with DDS-3/DDS-4 media Also, may need to order the HP 64-bit/133-MHz single channel Ultra320 SCSI HBA G2 (Part No: 374654-821). Note: For DL320 and DL360, this will fill up the only available PCI slot For ML350, also order the VHDCI Internal to External SCSI Option Kit Part No: 333370-821 Order tape media DAT 72 GB data cartridge, single pack, Part No: C8010A
DAT 72 USB NEW!			DW027A	DAT 72 USB Provides unprecedented levels of capacity, reliability and low cost of ownership in a DDS drive; provides 36 GB native capacity Order tape media DAT 72 GB data cartridge, single pack, Part No: C8010A Top Value skus: TV: AE350AT ; TV Lite: AE348AM
Ultrium		Ultrium 232	DW065B	Ultrium 232 Our lowest priced Ultrium tape drive; 100 GB native capacity Also may need to order either the 64-bit/133MHz Dual Channel Ultra320 SCSI adapter Part No: 268351-821 or HP 64-bit/133-MHz single channel Ultra320 SCSI HBA G2 (Part No: 374654-821) Note: For DL320 and DL360, this will fill up the only available PCI slot. For ML350, also order the VHDCI Internal to External SCSI Option Kit Part No: 333370-821 Order tape media Ultrium data cartridge 200 GB, single pack, Part No: C7971A
		Ultrium 448	DW017B	Ultrium 448 Half height 400 GB drive with all the benefits of the Ultrium 460 but in a half package. 200 GB native capacity Also may need to order the 64-bit/133MHz Dual Channel Ultra320 SCSI adapter Part No: 268351-821 Note: For DL320 and DL360, this will fill up the only available PCI slot Also order the VHDCI Internal to External SCSI Option Kit Part No: 333370-821 Order tape media Ultrium 400 GB data cartridge, single pack, Part No: C7972A
		Ultrium 460	Q1520B	Ultrium 460 Highest capacity Ultrium drive; 200 GB native capacity Also may need to order the 64-bit/133MHz Dual Channel Ultra320 SCSI adapter Part No: 268351-821 Note: For DL320 and DL360, this will fill up the only available PCI slot Also order the VHDCI Internal to External SCSI Option Kit Part No: 333370-821 Order tape media Ultrium 400 GB data cartridge, single pack, Part No: C7972A
		Ultrium 960	Q1539B	Ultrium 960 Highest capacity Ultrium drive; 400 GB native capacity Also may need to order the 64-bit/133MHz Dual Channel Ultra320 SCSI adapter Part No: 268351-821 Note: For DL320 and DL360, this will fill up the only available PCI slot Also order the VHDCI Internal to External SCSI Option Kit Part No: 333370-821 Order tape media Ultrium 800 GB data cartridge, single pack, Part No: C7973A. For regulatory compliance needs, HP offers 800 GB Write-Once Read-Many (WORM) data cartridge, single pack, Part No: C7973W