

HP DAT 72 tape storage for NonStop S-series servers

Data sheet

DAT 72 tape drives utilize Digital Data Storage (DDS) technology, which provides capacity, reliability, and low cost, resulting in excellent media investment protection and remarkably low cost of ownership.

HP announces the availability of HP StorageWorks DAT 72 tape drives for use with HP NonStop S-series servers.

HP StorageWorks DAT 72 tape drives are based on the Digital Data Storage (DDS) format, the most successful tape backup format of all time, with an installed base of more than 9 million drives. DDS technology has led the tape market for so many years because of its capacity, reliability, and low cost. DAT 72 tape drives for NonStop servers have backward compatibility with two previous DDS generations, providing excellent media investment protection. The low cost of DDS media contributes to DAT's extraordinarily low cost of ownership.

Key features and benefits

- Utilizes the successful and popular DDS technology
- Provides extraordinarily low cost of ownership
- Provides backward compatibility with previous DDS generations
- Offers a uniquely enhanced and expanded user interface that makes operations easier

What's new

The HP StorageWorks DAT 72 tape drive is now available in three configurations for use with NonStop S-series servers. These include a single cartridge manual-load tape drive and a model equipped with a six-media cartridge automatic cartridge loader (ACL), both designed for table-top use. Additionally, a NEBS-compliant version suitable for use in telco "central office" applications is also available. The telco package is a two-tape drive unit. Each unit is a single cartridge manual-load tape drive, housed in a 19-inch rack-mount package that also includes a 48-volt power supply. Complete ordering information for all three models is provided below.

The DAT 72 tape drives have added value in the form of an enhanced and expanded user interface. The interface provides valuable information essential to effective use and maintenance of the DAT 72 tape drive. Information available at the push of a front-panel button includes drive identification, firmware revision level, transfer rate, current operational mode, compression on/off, compression ratio, remaining cartridge capacity, and other information. Making this information easily available ensures NonStop server tape operations run more efficiently and with reduced operator error.

The DAT 72 tape drive products provide a replacement path for the 5142ACL DDS-3 DAT tape drive, which was discontinued from sales at the end of 2003, as well as other DDS-3 tape drives for NonStop systems. Customers that choose to replace their 5142ACL tape drive or add to their capacity by purchasing the new DAT 72 drives should know that the DAT 72 product is capable of reading and writing in a format useable by the DDS-3 tape drives; however, a specific process must be followed in order to achieve that compatibility. Tapes written by the DAT 72 product in the default configuration are not readable by earlier generations of DAT tape drives. A tape migration strategy and plan is required for customers in a mixed-DDS tape media environment.

Benefits of StorageWorks DAT 72 tape drive products

The StorageWorks DAT 72 products provide

- Native cartridge capacity of 36 gigabytes at up to a 3-megabyte-per-second transfer rate
- Up to 2:1 compression, with a potential for up to 72 gigabytes per cartridge and a 6-megabyte-per-second transfer rate
- Unique user interface on the DAT 72 tape drives that make operations easier

Technical specifications

System requirements

Hardware	Any NonStop S-series server SCSI port
Software	HP NonStop Kernel operating system, Release Version Update (RVU) G06.23 and later
	or
	RVU G06.10 and later with Open System Management (OSM) and OSM prerequisite SPRs as follows:

OSM Prerequisite SPRs

<i>RVU G06.10</i>	T1089ABK (SP) T9753AFC (I/O drivers; requires system load)
<i>RVU G06.11–G06.20</i>	T1089ABK
<i>RVU G06.21 and later</i>	No additional SPRs required for OSM

OSM SPRs

T2723AAB (OSM connection library)
T2724AAB (OSM provider interface library)
T2725AAB (OSM configuration)
T2726AAB (OSM XML API)
T2727AAB (OSM CIMOM)
T2728AAB (OSM service provider)
T2730AAB (OSM event viewer)
T2751AAB (OSM Web-based suite)

Ordering information

Product ID	Description
5242	HP DAT 72, single-cartridge table-top tape drive
5242ACL	HP DAT 72 tape drive with 6-media slot ACL
5242-2SE	HP DAT 72 2-tape drive unit, NEBS compliant, 19-in. rack mountable
514M	Media magazine for ACL-equipped DAT tape drives

Controller hardware options

Any NonStop S-series PMF CRU SCSI port	
1980	IOMF2 SCSI port
6760 and 6762	ServerNet/DA with SCSI PIC

SCSI cables—copper

519-001W	SCSI cable, 1 m (3.3 ft)
519-003W	SCSI cable, 3 m (9.8 ft)

519-010K	SCSI cable, 10 m (32.8 ft)
519-015W	SCSI cable, 15 m (49.2 ft)
519-020W	SCSI cable, 20 m (65.6 ft)
519-023W	SCSI cable, 23 m (75.4 ft)

SCSI extenders for long-distance attachment

DAT 72 tape drives for NonStop servers can be attached at distances beyond copper SCSI limitations through the use of the SCSI extender products listed below. The two types of SCSI extenders are used in series along with a customer-supplied single-mode fiber cable. The connection using SCSI extenders is described as follows:

Host → 519-0x cable → CTSFE → single-mode fiber cable
 → CTFSE → 519-0x cable → Super DLT tape drive

CTSFE	SCSI extender, host side
CTFSE	SCSI extender, device side
7290	half-height NonStop S-series enclosure, (optional)
7291	half-height NonStop S-series enclosure add-on (optional)

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For more information, go to www.hp.com/go/nonstop.
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