Storageflex™ LTO Half Height Drive

Leading Performance and Capacity

Storageflex™ LTO tape drives offer the best performance, reliability and value for small and medium-sized business users.

Overview

Tape forms the last line of defense in data protection for many organizations, but most importantly tape is the only long-term solution for managing data growth and reducing data storage costs. LTO tape technology is the industry standard for tape storage. Its eight-generation roadmap ensures that data written today can be restored tomorrow.

LTO tape technology is the most economical way for businesses to protect their ever expanding amount of digital data. Significant cost benefits can be achieved by deploying LTO tape technology due to its high capacities, small footprint and low power and cooling requirements. Storageflex™ LTO tape drives are available with compressed capacities up to 6.25TB* and performance up to 1.4 TB/hr* reducing backup and restore times to a minimum.

Storageflex™ LTO tape drives incorporate dynamic variable tape speed matching, allowing drives to constantly adapt speed to match the host/server data rate. This virtually eliminates "backhitching", improving media life and reducing wear and tear on the tape drives. Storageflex™ provides a full portfolio of LTO tape products including internal, external, rackmount and automation solutions.

Storageflex™ LTO-5 and LTO-6 tape drives support LTFS (Linear Tape File System). LTFS allows LTO-5 and LTO-6 tape drives to connect and operate just like a large hard disk. Users can drag and drop files to and from tape, search for files on tape and even play videos directly from tape. LTFS removes the need for expensive software and greatly simplifies archiving tasks.

Storageflex's extensive product testing program ensures that LTO drives are fully compatible with a wide range of servers, operating systems and backup software. Protect your business data for tomorrow with a Storageflex™ tape solution today.

Key Benefits

- **High Capacity**
  Up to 6.25TB* of data on a single cartridge

- **Leading Performance**
  Up to 1.4 TB/hr* reducing backup and restore times

- **Lower Storage Costs**
  LTO offers the lowest storage cost of any medium

- **Archiving**
  30-year archival life

- **Ease of Use**
  LTFS support for Windows, Linux and MacOS

- **Security**
  AES 256-bit hardware encryption (LTO-4/5/6)

- **Minimize Downtime**
  3-year Advance Replacement Service Warranty**

* Assumes a compression ratio of 2:1 on LTO-2/3/4/5 & 2.5:1 on LTO-6
** Availability dependent on location

Choose LTO tape drives for high capacity backup and archiving tasks with the lowest power consumption in the industry.

Specifications

	LTO-3 HH	LTO-4 HH	LTO-5 HH	LTO-6 HH
Capacity (native/compr.)	400GB / 800GB*	800GB / 1.6TB*	1.5TB / 3.0TB*	2.5TB / 6.25TB*
Transfer Rate (native/compr.)	60 MB/s / 120 MB/s*	80 MB/s / 160 MB/s*	140 MB/s / 280 MB/s*	160 MB/s / 400 MB/s*
Dynamic Speed Matching	20–60 MB/s / 40–120 MB/s*	33–80 MB/s / 66–160 MB/s*	47–140 MB/s / 94–280 MB/s*	54–160 MB/s / 135–400 MB/s*
Memory Buffer Size	128MB	128MB	256MB	512MB
Data Access Speed	70 sec.	70 sec.	70 sec.	50 sec.
Interface Type	Ultra 320 SCSI SAS 3Gb	Ultra 320 SCSI SAS 3Gb FC 4Gb	SAS 6Gb FC 8Gb	SAS 6Gb FC 8Gb
Interface Connector SCSI	68-pin HD (internal) 68-pin HD (internal)	68-pin HD (external) 68-pin HD (external)		
Interface Connector SAS	SFF8482 (internal)	SFF8482 (internal) SFF8088 (external)	SFF8482 (internal) SFF8088 (external)	SFF8482 (internal) SFF8088 (external)
Interface Connector FC			LC-Port (internal) LC Port (external)	LC-Port (internal)
Data Compression	1KB (2:1)	1KB (2:1)	1KB (2:1)	16KB (2.5:1)
Encryption	N/A	AES 256-bit	AES 256-bit	AES 256-bit
LTFS	N/A	N/A	Yes (2 partitions)	Yes (4 partitions)
Recording Format	LTO Ultrium 3, LTO Ultrium 2, LTO Ultrium 1 (read only)	LTO Ultrium 4, LTO Ultrium 3, LTO Ultrium 2 (read only)	LTO Ultrium 5, LTO Ultrium 4, LTO Ultrium 3 (read only)	LTO Ultrium 6, LTO Ultrium 5, LTO Ultrium 4 (read only)
Reliability				
MTBF Hours (100% duty cycle)	250,000 hours @ 100% duty cycle	250,000 hours @ 100% duty cycle	250,000 hours @ 100% duty cycle	250,000 hours @ 100% duty cycle
Head Life	60,000 tape running hours	60,000 tape running hours	60,000 tape running hours	60,000 tape running hours
Hard Error Rate	1×10^{-17} bits	1×10^{-17} bits	1×10^{-17} bits	1×10^{-17} bits
Environmental Specifications				
Temperature (Operating)	50° – 95°F	50° – 95°F	50° – 95°F	50° – 95°F
Temperature (Non-operating)	-40° – 151°F	-40° – 151°F	-40° – 151°F	-40° – 151°F
Relative Humidity (Operating)	20 – 80% (non-condensing)	20 – 80% (non-condensing)	20 – 80% (non-condensing)	20 – 80% (non-condensing)
Relative Humidity (Non-operating)	10 – 95% (non-condensing)	10 – 95% (non-condensing)	10 – 95% (non-condensing)	10 – 95% (non-condensing)
Power Requirements				
Idle	13 W	13 W	7 W	4 W
Typical	20 W	20 W	20 W	29 W
Maximum	33 W	33 W	33 W	39 W
Power Supply/ Required (int)	5V DC, 2.5A, 12V, 0.7A	5V DC, 2.5A, 12 V, 0.7A	5V DC, 2.5A, 12 V, 0.7A	5V DC, 3.7A, 12 V, 0.9A
Certification	CSA Certification to C22.2, No. 60950 (cCSAus), TUV EN60950 (IEC 60950), CE Declaration of Conformity, FCC 47 CFR Parts 15, NOM, VCCI. C-TICK, RRL, BSMI, GOSH CB Certificate and Report (IEC 60950)			
Warranty	3-years Advance Replacement Service Warranty**			

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** Availability dependent on location
‡ The LTO-5 HH FC external tape drive should not be operated in an environment where the temperature is greater than 35°C (95°F).

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