



StorageTek® T9940 Tape Drive

Mass storage, archival and backup requirements dominate the business landscape today. The StorageTek® T9940 tape drive provides the extraordinary capacity, exceptional speed and reliable access needed to meet these challenging requirements in a most cost-effective manner.

Manage explosive growth – cost-effectively

Information continues to grow exponentially. Yet many IT budgets are flat or falling. The StorageTek® T9940 tape drive effectively addresses these business realities. The T9940 tape drive is a capacity-centric storage solution that offers exceptional connectivity, enterprise-class reliability, low-cost storage for high-volume data applications such as archive, backup, record retention and disaster recovery.

Multiple platform connectivity – for better management

The StorageTek T9940 tape drive is a powerful business tool that provides effective data management across today's popular operating environments. The drive supports ESCON, SCSI, and native Fibre Channel connectivity, providing flexible storage area network options and vastly improved storage resource utilization.

Comprehensive backups – in far less time

By taking advantage of the T9940 tape drive's ultra-high cartridge capacity, backup operations require significantly fewer cartridges. You save time. Combine this economy with the T9940 tape drive's 10 megabyte-per-second (native) data transfer rate, and you can reduce backup windows significantly. Most important, you can restore data quickly, from a single file, to a complete application or even the whole system, server or mainframe.

Future-proof investment protection

The StorageTek T9940 tape drive is compatible with most of StorageTek's current line of powerful automated tape libraries. Through advanced functionality, such as Adaptive Media Technology (AMT), you can easily adopt and mix new technologies, drives and media types, thereby enhancing the value of your StorageTek library investment. This flexibility also means you can have the optimum mix of access and capacity to economically meet your customer demands and business objectives.

Rely on StorageTek – the storage leader

With more than 32 years of industry experience, StorageTek continues to set the standard for reliable, scalable, cost-effective automated tape storage, backed by superior services and support worldwide. The T9940 tape drive is yet another example of our commitment to help you fulfill operating objectives of continuous operation and efficient resource management. Most important, the StorageTek T9940 tape drive delivers fast, economical, robust storage to meet today's IT needs and business realities.

Fast.
Hardworking.
Reliable.



STORAGETEK

T9940A tape drive specifications

Capacity and performance

Capacity, native	60 GB
Performance, native (uncompressed)	10 MB/sec
(compressed, maximum)	35 MB/sec

Access times*

Tape load and thread to ready	18 sec (formatted)
Average file access time	41 sec
Maximum/average rewind time	90/45 sec
Unload time	18 sec

Tape format

Recording format	Linear serpentine
Number of channels	16

Reliability

Mean time between failures (MTBF)	
Power on	290,000 hr @ 100% duty cycle
Tape load	240,000 hr @ 10 loads/day (100,000 loads)
Tape path motion (TPM)	196,000 hr @ 70% TPM duty cycle
Head life	8.5 yr @ 70% TPM duty cycle
Uncorrected bit error rate	1x10 ⁻¹⁸
Undetected bit error rate	1x10 ⁻³³

Interface data

Interface	1 Gigabit (Gb) Fibre Channel Ultra-SCSI HVD (40 MB/sec) ESCON 20 MB/sec (maximum)
Read/write compatibility interface	Proprietary format
Emulation modes	Native, 3490E, 3590

Physical data

Form factor	5.25 in (full height)
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Environmental data

Temperature	
Operating	+59° F to +90° F (+15° C to +32° C)
Non-operating	+50° F to +104° F (+10° C to +40° C)
Humidity	
Operating	20% to 80%
Non-operating	10% to 95%

Power source

Voltage	100-240 VAC @ 50-60 Hz
Power consumption/dissipation (operating maximum continuous - not peak)	82 VA / 280 BTU/hr

* The actions of the tape drive can be divided into four distinct phases:

Phase 1: Load time – the amount of time required to insert a cartridge in the drive, load the tape and prepare to read, write or search.

Phase 2: Average file access time – the amount of time required to search from the beginning of the tape to the mid-point; does not include load time.

Phase 3: Maximum rewind time – the amount of time required to rewind the tape from the end to the beginning of the tape. The average rewind time is the time to rewind a tape from the mid-point to the beginning, i.e. one-half of the maximum rewind time.

Phase 4: Unload time – the amount of time required to eject the cartridge from the drive.



About StorageTek®

StorageTek® (NYSE:STK), a \$2 billion worldwide company with headquarters in Louisville, Colo., delivers a broad range of storage solutions for digitized data. StorageTek solutions are easy to manage and allow universal access to data across servers, media types and storage networks. StorageTek is the innovator and global leader in virtual storage solutions for tape automation, disk storage systems and storage networking. Because of StorageTek, customers can manage and leverage their digital assets as their businesses grow, and can maximize IT productivity to ensure enterprise-class business continuity. For more information, see www.storageitek.com or call 1.800.786.7835.

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