



T9840A Tape Drive

Drive for speed, robustness and access

Seconds count. For transaction-intensive applications such as e-tailing, banking, medical applications, data mining and customer service, you need a data storage solution that ensures immediate, economical, and reliable retrieval. Backup and archive requirements are also important, but for you, speed and direct access—for restores or handling inquiries—are critical in the race to please customers and users.

Sprint through Nearline® automation searches, inquiries and restores

Enable web-based and other direct inquiries around the clock. StorageTek's T9840A "access-centric" tape drive moves data at 10 megabytes (native) per second. Mid-point load improves average search time to just eight seconds, so access to your data—and answer—is never far away.

Reduce the risk of business interruption

Keep your business running smoothly by maximizing cartridge utilization and by minimizing handling. Each T9840A cartridge allows you to store 20 gigabytes (native), which with compression typically means between 40 and 80 gigabytes or more. This translates to fewer loads and unloads. In automated environments, you can free up storage slots for new applications or move more manual tapes under library control.

Manage resources efficiently

Enterprise-class reliability is combined with versatile connectivity options—SCSI, ESCON, native Fibre Channel—so that the T9840A can support all your favorite applications and platforms and keep overall storage management operations simple.

Protect your investment

In keeping with StorageTek's Open, Intelligent and Integrated™ approach, the T9840A access-centric tape drive is compatible with current StorageTek® tape libraries. With our advanced AMT (Adaptive Media Technology) functionality you can mix media and drives within a library, yet retain easy control. This allows you to optimize floor space, balance performance and capacity, and keep costs under control.

Rely on the storage leader

StorageTek continues to set the standard for reliable, scalable, cost-effective tape storage and superior worldwide customer service and support. The T9840A can help you fulfill operating objectives such as maintaining continuous operations, managing resources efficiently and providing your customers—internal or external—what they need most: fast, reliable, continuous access to ever-increasing amounts of data.



T9840A tape drive specifications

Capacity and performance

Capacity, native	20 GB
Performance, native (uncompressed)	10 MB/sec
(compressed, maximum)	35 MB/sec

Access times*

Tape load and thread to ready	4 sec (formatted)
Average file access time (first file)	8 sec
Average file access time (subsequent file)	11 sec
Maximum/average rewind time	16/8 sec
Unload time	4 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)	216,000 hr @ 70% 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)
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)	101 VA/345 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.storagetek.com or call 1.800.786.7835.

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