



StorageTek® T9840B Fibre Channel Tape Drive

With nearly double the native data transfer rate as the original StorageTek® 9840 tape drive, 2 Gb native Fibre Channel support, and the high duty cycle needed for SAN environments, the StorageTek® T9840B Fibre Channel tape drive is unmatched.

The fastest, hardest-working tape drive in the industry

The StorageTek® T9840B tape drive has virtually no speed limit. It is the first tape drive with a native 2 Gb Fibre Channel (FC) interface and the ability to attach directly to leading-edge 2 Gb host bus adapters (HBAs) – all without having to buy a separate interface or sacrifice backward compatibility with 1 Gb FC. This is how you slash backup times in half or transfer twice as much data per second. And as for fast data access, the T9840B tape drive's mid-point load technology ensures access rates averaging just twelve seconds.

Non-stop performance

The T9840B FC tape drive delivers the high duty cycle performance that SAN environments and high transaction applications demand. Its flexible attachment supports both Public/Private Arbitrated Loops and Fabric Point-to-Point connectivity, ensuring attachment to the widest range of switches and routers. To complete the picture, StorageTek's original 9840 tape cartridge, which can store 20 GB (native) and 40-80 GB with compression, also works with the T9840B FC tape drive.

So, your investment in tape media is protected. And because it was designed with automated environments in mind, it has remarkable speed, capacity and reliability – the kind that delivers successful, high duty cycle, automated tape mounts every time.

Protect your business and your investments

Extending the well-documented reliability of StorageTek tape drives, the T9840B FC tape drive's dual "IN" ports allow you to attach to two HBAs for standby redundancy. Backward and forward compatibility and StorageTek's advanced Adaptive Media Technology (AMT) enable you to easily mix media and drives within libraries to improve control, balance performance, save space, reduce costs and better manage information.

And because the fast, high duty cycle T9840B FC tape drive can do the work of two, or even three, typical mid-range tape drives, you can eliminate extra hardware, reduce SAN complexity and simplify management.

Fast.
Hardworking.
Reliable.



T9840B tape drive specifications

Capacity and performance

Capacity, native	20 GB
Performance, native (uncompressed)	19 MB/sec
(compressed, maximum)	70 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	2 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)
-------------	-----------------------

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.storageitek.com or call 1.800.786.7835.

World Headquarters

Storage Technology Corporation
One StorageTek Drive
Louisville, Colorado 80028 USA
Phone: 1.800.786.7835
Fax: 719.536.4053

International Offices

Australia: 61.2.9433.1700

Austria: 0800.20.16.31

Belgium: 0800.75.327

Brazil: 55.11.3044.4599

Canada: 905.602.5586

China: 86.10.6849.2393

Denmark: 8088.0744

Finland: 08001.13361

France: 0800.82.83.57

Germany: 0800.181.6238

Hong Kong: 852.8200.0791

Italy: 800.790.852

Japan: 03.3746.9711

Korea: 82.2.2191.1100

Malaysia: 603.772.41125

Mexico: 52.5.258.8000

The Netherlands: 0800.022.8496

Norway: 800.11.220

Singapore: 65.774.9248

Spain: 900.99.33.66

Sweden: 46.8.506.866.00

Switzerland: 0800.83.87.65

United Kingdom: 0800.731.8852

Specifications/features may change without notice.

©Copyright 2002 Storage Technology Corporation, Louisville, CO. All rights reserved. Printed in USA. StorageTek, the logo and Information Made Powerful are either registered trademarks or trademarks of Storage Technology Corporation. Other product names mentioned may be trademarks of Storage Technology Corporation or other vendors/manufacturers.