



# 9840

## TAPE CARTRIDGE

### Key benefits

#### Accelerate data access

With the StorageTek® 9840 tape cartridges, access to your data is faster than with any other tape technology, saving you time and money.

#### Cut costs

Faster data access enables you to meet more of your storage requirements with tape, minimizing the need for higher-cost disk.

#### Protect data

An innovative cartridge design provides exceptional physical protection to prevent costly data loss.

#### Increase productivity

Faster data transfer rates enable you to reduce batch windows and accelerate data access, freeing up valuable staff time.

#### Unleash trapped profits

The 9840 tape cartridges integrate easily with current StorageTek libraries, enabling you to capture more value from your automation investments.

#### Increase data security

A VolSafe® secure media technology, (write once, read many or WORM) is available for securely archiving and distributing critical data.



### 9840 tape cartridge

In today's information-driven business environments, fast access to data is key to success. The StorageTek® 9840 tape cartridge responds to this need. With an average access time of just 12 seconds, these cartridges enable you to get to your data faster than you would with any other tape technology. Working together with StorageTek's T9840 tape drives, 9840 cartridges help you unleash your system resources.

#### Access-centric technology

The 9840 tape cartridge was designed concurrently with T9840C tape drives to provide fast access to data and storage of up to 40 gigabytes of uncompressed data on a single cartridge. The 9840 cartridge's midpoint load design provides access to data in 12 seconds, on average. When you pair these cartridges with the T9840C tape drive, you can transfer native data at rates as high as 30 megabytes per second.

#### Easy integration

Based on the 3480 form factor, these access-centric cartridges integrate simply and easily with your current StorageTek automated tape systems. The 9840 tape cartridges are certified and qualified for use with T9840 tape drives, as well as supported tape automation systems and software from StorageTek.

#### Durable design

The 9840 tape cartridge is designed to provide stability and precise alignment to provide reliable data accessibility. The unique cartridge shell design provides unmatched durability and protection, which means fewer damaged cartridges and lower replacement and data recovery costs.

#### Ready to use

You can save resources by having VOLSER (volume serial number) labels applied prior to delivery. 9840 tape cartridges can be pre-labeled and initialized, then verified with a triple quality check. This process reduces the pitfalls associated with poorly applied labels.

## Applications

### Fixed-content distribution

Tape libraries can act as a high-volume source for a large-capacity storage device for fixed-content data when outfitted with fast-access T9840 tape drives and 9840 tape cartridges. When implemented with VolSafe® secure media technology, the T9840 tape drive helps secure high-value, fixed-content data while it is used.

### Backup and restore

Using 9840 tape cartridges with T9840 tape drives for backup and restore shortens backup and recovery times and improves system response time. 9840 tape cartridges preserve data through the most strenuous reading, writing and retention processes.

### Offline processing

Fast-access T9840 tape drives with 9840 tape cartridges provide a cost-efficient option to disk for offline processing applications.

## Archiving

The 9840 tape cartridge with VolSafe secure media technology provides non-erasable, non-rewritable media for secure archival of critical data, while retaining the ability to recall that data within seconds.

## Options

### VolSafe® technology

StorageTek's 9840 tape cartridge with VolSafe® secure media technology provides 20 gigabytes (native) of non-erasable, non-rewritable storage with T9840B tape drives and 40 gigabytes with T9840C tape drives.

## To learn more

To learn more about StorageTek's media cartridge technology and how it can help you unleash trapped profits in your storage environment, talk to your StorageTek representative or visit [www.storageitek.com](http://www.storageitek.com).

# 9840 tape cartridge specifications

## Performance

Tape speed	
Read and write	2.0 m/sec (79 ips) — T9840A 4.0 m/sec (158 ips) — T9840B 3.4 m/sec (134 ips) — T9840C
Search and rewind	11.0 m/sec (440 ips)
Formulation	Advanced metal particle (AMP)
Coercivity	1625+/-75 Oersteds (130+/16.0 KA/m)
Substrate	Polyethylene naphthalate (PEN)
Track-following servo	Factory pre-recorded

## Capacity

Capacity, native (uncompressed)	20 GB (T9840A/B) 40 GB (T9840C)
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## Availability

Archival life	15–30 years
Short-length durability	80,000 read/write passes minimum
Long-length durability	6,500 read/write passes minimum (361 full file read/write passes minimum)
Uncorrected bit error rate	1x10 <sup>-18</sup>
Permanent errors	0
Loads/unloads	10,000 minimum

## Compatibility

Supported tape drives	T9840A, T9840B, T9840C
Number of tracks	288 (T9840A, T9840B, T9840C)
Form factor	Half-inch, 3480/3490E

## Mechanical

Height	1.0 in (25.4 cm)
Depth	4.92 in (125 cm)
Width	4.29 in (109.0 cm)
Weight	9.17 oz (262.0 g)
Drop strength	38.4 in (1.0 m)

## Environmental

Relative humidity	
Operating	20%–80%
Storage up to four weeks	5%–80%
Storage — archive	30%–40%
Shipping	5%–80%
Temperature (non-condensing)	
Operating	+60° to +90° F (+15° to +32° C)
Storage up to four weeks	+40° to +90° F (+5° to +32° C)
Storage — archive	+59° to +77° F (+15° to +25° C)
Shipping	-10° to +120° F (-23° to +49° C)
Wet bulb maximum	
Operating	+78° F (+26° C)
Storage up to four weeks	+78° F (+26° C)
Storage — archive	+78° F (+26° C)
Shipping	+78° F (+26° C)

## ABOUT STORAGE TEK®

Storage Technology Corporation (NYSE: STK) is a \$2 billion global company that enables businesses, through its information lifecycle management strategy, to align the cost of storage with the value of information. The company's innovative storage solutions manage the complexity and growth of information, lower costs, improve efficiency and protect investments. For more information, visit [www.storageitek.com](http://www.storageitek.com), or call 1.800.275.4785 or 01.303.673.2800.

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