

# Sun StorageTek™ 9840 Tape Cartridge

Fast access, high capacity,  
backward compatible



## Highlights

- **Boost efficiency** – Access-centric, two-reel design delivers fast average file access time of 8 seconds
- **Get higher capacity** – Store up to 75 GB capacity on a single, reusable cartridge
- **Increase productivity** – Higher data transfer rates reduce batch windows and accelerate data access, improving staff productivity
- **Cut costs** – Faster access enables you to meet more of your storage requirements with tape, minimizing the need for higher-cost disk
- **Protect your investments** – Backward compatible to three prior generations of StorageTek 9840 tape drives
- **Maintain 24x7 data availability** – Enterprise-class high duty cycles ensure availability and support 24x7 operations



In today's information-driven business environments, fast access to higher capacities of critical data is key to success. So is protecting your technology investments. The Sun StorageTek™ 9840 tape cartridge delivers faster access to up to 75 GB of data. Plus, it's backward-compatible with three prior generations of Sun StorageTek T9840 tape drives, and you can reuse existing cartridges. Together, the StorageTek 9840 tape cartridges and T9840 tape drives help you unleash your system resources.

### Access-centric technology

Designed concurrently with the StorageTek 9840D tape drive, the StorageTek 9840 tape cartridge provides fast access to up to 75 GB of uncompressed data on a single cartridge. The mid-point load design provides an average file access time of 8 seconds (first file) and an average access time of 16.5 seconds. When you pair the cartridges with the StorageTek 9840D tape drive, you can transfer native (uncompressed) data at rates as high as 30 MB/s.

### Easy integration

The StorageTek 9840 tape cartridges are certified and qualified for use with StorageTek T9840 tapes drives, and integrate easily with your current Sun tape automation systems and software.

### Durable design

The StorageTek 9840 tape cartridge's stability and precise alignment provide reliable data accessibility. The unique cartridge shell design ensures unmatched durability and protection, resulting in fewer damaged cartridges and reduced replacement and data recovery costs.

### Ready to use

You can save on resources and eliminate the pitfalls associated with poorly applied labels by having volume/serial number (VOLSER) labels applied prior to delivery. The cartridges are pre-labeled and initialized, then verified with a triple quality check.

## Applications

### Archiving and fixed-content distribution

When implemented with optional VolSafe secure media technology, the StorageTek 9840 tape cartridge helps manage and protect high-value, fixed-content data, and reduces the financial and legal risks associated with lost data. StorageTek VolSafe media utilizes Write-Once-Read-Many (WORM) technology to help you meet stringent regulatory and legal requirements. You can securely archive data on up to 75 GB of non-erasable, non-rewritable tape and recall it within seconds when you need it.

### Backup and restore

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

### Offline processing

Fast-access StorageTek T9840 tape drives and StorageTek 9840 tape cartridges provide an effective, cost-efficient option for offline processing operations.

### Engage the storage experts

Sun's StorageTek service professionals help you address storage challenges by delivering integrated services and solutions that optimize and manage storage performance over the life of your data. Our recognized, world-class customer care assures you that your technology investment is protected and your business will be responsive to change.

### Learn More

To learn more about Sun media technology, talk to your Sun tape media representative at 1-877-STK-TAPE or email:  
[us.mediaorders@sun.com](mailto:us.mediaorders@sun.com)  
[eame.mediaorders@sun.com](mailto:eame.mediaorders@sun.com)  
[la.mediaorders@sun.com](mailto:la.mediaorders@sun.com)

## StorageTek 9840 Tape Cartridge Specifications

### Performance

Tape load and thread to ready	8.5 sec
Average file access time (first file)	8 sec
Average access time	16.5 sec
Maximum/average rewind time	16/8 sec
Unload time	12.5 sec
Data transfer rate, native (uncompressed)	30 MB/s
Data transfer rate, native (compressed)	70 MB/s
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), 75 GB (T9840D)
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### Compatibility

Supported tape drives	T9840A, T9840B, T9840C, T9840D
Number of tracks	288 (T9840A, T9840B, T9840C), 576 (T9840D)
Form factor	Half-inch, 3480/3490E

### 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

### 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	+59°F to +90°F (+15°C to +32°C)
Storage up to four weeks	+40°F to +90°F (+5°C to +32°C)
Storage - archive	+59°F to +77°F (+15°C to +25°C)
Shipping	-10°F to +120°F (-23°C 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)