



Sun StorageTek™ 9940 Tape Cartridge

Proven and secure



Highlights

- **Reduce costs** – the StorageTek 9940 tape cartridge is a low cost-per gigabyte, high-end, half-inch storage medium. It can help you save money by minimizing tape mounts and improving automation efficiency
- **Save valuable floor space** – with the ability to store up to 200 gigabytes of uncompressed data, the StorageTek 9940 tape cartridge helps you store more information in the same footprint
- **Protect data** – a ground-breaking cartridge design provides exceptional physical protection to prevent costly data loss
- **Protect investments** – based on the 3480 form factor, these cartridges integrate simply and easily with your current Sun StorageTek automated tape systems. When you use your StorageTek 9940 tape cartridges with the enhanced capacity StorageTek T9940B tape drive, you can increase the value of your storage media by greater than 300 percent
- **Simplify integration** – system testing with StorageTek T9940A and StorageTek T9940B tape drives and StorageTek libraries can save installation labor and time
- **Increase data security** – VolSafe® secure media technology (write once, read many or WORM) is available for securely and distributing critical data



As data volumes increase, you need to find innovative ways to store more data in the same footprint. This is the need met by Sun StorageTek™ 9940 tape cartridges. When paired with the Sun StorageTek™ T9940B tape drive, a single StorageTek 9940 tape cartridge stores up to 200 GB of native data, and far more with data compression. The result? You can meet your growing data storage requirements and unleash the value of your tape drives and libraries.

Capacity-centric technology

The StorageTek 9940 tape cartridge was designed so that when it is used with StorageTek T9940B tape drives it can store up to 200 GB of uncompressed data, or up to 400 GB with 2:1 data compression, on a single cartridge. This ultra-high capacity makes the StorageTek 9940 tape cartridge ideal for your high-volume archiving, backup, and disaster recovery applications.

Easy integration

Based on the 3480 form factor, the capacity-centric StorageTek 9940 tape cartridge integrates simply and easily with your current StorageTek automated tape systems. These cartridges are system-tested for use with Sun StorageTek T9940A/T9940B tape drives, as well as with supported StorageTek tape automation systems and software.

Durable design

The StorageTek 9940 tape cartridge, built to perform a minimum of 10,000 tape mounts, features a single-reel form factor with a leader block designed for high reliability. Its innovative heavy-duty shell design offers excellent physical 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. StorageTek 9940 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

Backup and restore

Using StorageTek 9940 tape cartridges with StorageTek T9940A/T9940B tape drives for backup and restore shortens backup and recovery times with high transfer rates and fewer cartridge mounts and dismounts. StorageTek 9940 tape cartridges preserve data through the most strenuous reading, writing, and retention processes.

Archiving

Pairing StorageTek 9940 tape cartridges with StorageTek T9940 tape drives provides a high-capacity choice for enterprise archiving systems requiring continuous use and long data retention periods. When implemented with Volsafe® secure media technology, the StorageTek T9940 tape drives help secure critical data as it is archived.

Disaster recovery

StorageTek 9940 tape cartridges have exceptional durability and longevity. With StorageTek

T9940A/T9940B tape drives, the StorageTek 9940 tape cartridges are ideal for enterprise disaster recovery processes that remotely vault data in tape form.

Options

VolSafe® technology

The StorageTek 9940 tape cartridge with VolSafe® secure media technology provides up to 200 GB (native) of non-erasable, non-rewritable storage when it is used with StorageTek T9940B tape drives. You retain the ability to recall that data within seconds.

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 service and customer care gives you confidence that your technology investment is protected and that your business will be responsive to change. To help you pinpoint opportunities to

Learn More

To learn more about StorageTek media cartridge technology, visit sun.com/storagetek or call your local Sun representative at
US: 1 877 STK TAPE
EAME: 33 (0) 1 69 038341

reduce costs, mitigate business risk and better leverage information assets, our consulting and managed services offerings deliver clarity, simplicity and choice in solutions that address regulatory concerns, complex storage growth, resource management and scalability challenges.

StorageTek 9940 Tape Cartridge Specifications

Performance

Tape speed	
Read and write	2.0 m/sec (79 ips) – T9940A 2.4 m/sec (95 ips) – T9940B
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)	60 GB (T9940A), 200 GB (T9940B)
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Compatibility

Supported tape drives	T9940A, T9940B
Number of tracks	288 (T9840A), 576 (T9940B)
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
Uncorrected bit error rate	1x10 ⁻³⁸
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	39.4 in. (1.0 m)

Environmental

Relative humidity	
Operating	20 to 80 percent
Storage up to four weeks	5 to 80 percent
Storage – archive	30 to 40 percent
Shipping	5 to 80 percent
Temperature (non-condensing)	
Operating	+60°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)