STORAGETEK T10000 TAPE CARTRIDGE FAMILY

Oracle's StorageTek T10000 and T10000 T2 tape cartridges work in tandem with Oracle's StorageTek T10000, T10000B, T10000C, and T10000D tape drives to address issues related to data growth, security, manageability, and cost.

KEY BENEFITS

- Save valuable floor space
- Extend media durability
- Reduce costs
- Protect storage Investments
- Boost confidence in business-critical applications

KEY FEATURES

- Store up to 8.5 TB of uncompressed data per standard cartridge and 1.6 TB per sport cartridge
- Unique hub lock design and the StorageTek T10000 tape cartridge SafeGuide system
- Minimize tape mounts and improve automation efficiency with a low-cost-per-gigabyte storage medium
- Reformat and reuse StorageTek T10000 tape cartridges with the next-generation tape
- Store confidently with performance-tested tape cartridge durability and longevity

Store Far More in the Same Footprint

With up to 8.5 TB native capacity, the StorageTek T10000 T2 tape cartridge, for the StorageTek T10000D tape drive, stores more data in the same footprint. For the StorageTek T10000A and T10000B tape drives, the StorageTek T10000 tape cartridge can store up to 1 TB of data to help you meet rapidly growing data storage requirements. Ultra-high capacity makes the StorageTek T10000 and T10000 T2 tape cartridges ideal for all high-volume backup, archiving, and disaster recovery applications.

Increase the Security of Your Data

The StorageTek T10000/T10000 T2 tape cartridges' SafeGuide system increases data security and includes features that can increase reliability and extend media life. A unique hub lock stabilizes media within the cartridge shell. A redesigned buckler mechanism securely attaches the cartridge leader to the drive leader. A long tape path guides the media more accurately and reduces tension on the tape—tape tension can reduce the life of heads and media. Data integrity is enhanced because the tape guides and rollers guide the media on its backside and do not contact the recording surface. The rollers also enhance stability by minimizing lateral tape motion.

Data security is further enhanced by StorageTek VolSafe tape cartridge secure media technology, which provides write once, read many (WORM) protection. StorageTek VolSafe tape cartridge technology provides physical, visual, and electronic features to differentiate it from non-StorageTek VolSafe tape cartridge technology.

Simplify Tape Operations

Simpler tape operations can improve access to data. With the same physical size as Oracle's StorageTek 9840 and StorageTek 9940 tape cartridges, the StorageTek T10000/T10000 T2 tape cartridges integrate simply and easily with your current StorageTek automated tape systems. The cartridges are system tested for use with the StorageTek full lineup of StorageTek T10000 tape drives, as well as StorageTek tape automation systems and software from Oracle and many third-party providers.

The StorageTek T10000/T10000T2 tape cartridges also can help you use staff resources more efficiently. StorageTek tape cartridges can be labeled prior to delivery with volume serial number (VOLSER) labels, then initialized and verified with a triple quality check.

Prelabeling typically reduces the occurrence of operational intervention caused by poorly applied labels. The StorageTek T10000/T10000T2 tape cartridges include an RFID tag that provides cartridge redundancy data such as VOLSER, file directories, and other data for improved data recovery and faster data access.

Protect Your Investment and Reduce Total Cost of Ownership

The StorageTek T10000/T10000T2 tape cartridges lower TCO through media reusability, higher cartridge capacity, and cartridge durability.

Each StorageTek T10000T2 tape cartridge can store up to eight and a half times as much data as the previous-generation tape cartridge, enabling massive scalability to match any expected future growth requirements. The tapes written in the StorageTek T10000C tape drive can be rewritten in the StorageTek T10000D tape drive at up to 8.5 TB capacity, enabling media reuse across two generations of tape drives. Accordingly, you might be able to buy fewer cartridges and conserve valuable floor space compared to your current tape technologies, all while maintaining ability to scale storage environment.

The StorageTek T10000 tape cartridge can be used in the StorageTek T10000, T10000B, T10000C, and T10000D tape drives. The tapes written in the StorageTek T10000 tape drive can be rewritten in the StorageTek T10000B tape drive at double the capacity, enabling media reuse across two generations of tape drives. StorageTek T10000 tape cartridges can be read back in StorageTek T10000C and T10000D tape drives, enabling customers to support existing tapes and promoting ease of migration to the next generation of StorageTek T10000 tape drives. As a result, you can extend initial media investment across four generations of drives.

Tape Cartridge	StorageTek T10000 Tape Cartridge	StorageTek T10000 T2 Tape Cartridge
StorageTek T10000A tape drive	Read/Write	NA
StorageTek T10000B tape drive	Read/Write	NA
StorageTek T10000C tape drive	Read Only	Read/Write
StorageTek T10000D tape drive	Read Only	Read/Write

Cartridge replacement due to damage or wear and tear can be an unexpected cost. The StorageTek T10000 and T10000T2 tape cartridges are built for long-term, cost-effective use. The heavy-duty casing of the StorageTek T10000 tape cartridge family, along with a lockable cartridge hub, reduces the risk of damage to data and ensures maximum level of protection for media.

Engage the Storage Experts

Oracle offers tailored mission-critical services and support for your storage environment. Oracle Advanced Customer Support Services helps you address storage challenges by delivering installation, configuration, optimization, and on-going monitoring and tailored support. Oracle service professionals help you achieve the highest levels of system performance and availability with diagnostic and monitoring tools that help anticipate, identify, and remediate any potential issues. From tape library installation services to the design and implementation of key management encryption systems, Oracle service experts help you realize more value from your storage infrastructure—with less disruption to your business. For more information, contact your Oracle representative, email acsdirect_us@oracle.com or visit oracle.com/acs.

Use Optional Media Conversion Services

When you want to organize and optimize media to reduce downtime, risk, and maintenance, turn to Oracle for expert assistance. Customized media conversion services can help you move data in optical, tape, and disk formats to new or different technology that offers higher

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capacity, lower cost, and lower risk. Sample service activities may include assistance converting WORM optical to WORM VolSafe tape. And when optimizing data center facilities, tailored tape relocation services can expedite data center relocation and rack relocation activities.

StorageTek T10000 and T10000 T2 Tape Cartridge Specifications

Specifications	
Formulation	StorageTek T10000 tape cartridge: Advanced metal particle
	StorageTek T10000 T2 tape cartridge: Barium Ferrite
Tape length and thickness	StorageTek T10000 tape cartridge: 3008.5 ft. (917 m) and 6.5 μm
	StorageTek T10000 T2 tape cartridge: 3763 ft. (1147 m) and 5.2 μm
Substrate	StorageTek T10000 tape cartridge: Polyethylene naphthalate (PEN)
	StorageTek T10000 T2 tape cartridge: Aramid
Track-following servo	Factory prerecorded
Capacity	
Capacity, native (uncompressed)	• StorageTek T10000 tape cartridge: 500 GB (StorageTek T10000) / 1 TB (StorageTek T10000B)
	• StorageTek T10000 tape cartridge, sport: 120 GB (StorageTek T10000) / 240 GB (StorageTek T10000B)
	• StorageTek T10000 T2 tape cartridge: 5 TB (StorageTek T10000C) / 8.5 TB (StorageTek T10000D)
	• StorageTek T10000 T2 tape cartridge, sport: 1 TB (StorageTek T10000C) / 1.6TB (StorageTek T10000D)
Availability	
Archival life	30 years
Uncorrected bit error rate	1x10-19
Loads/unloads	15,000 (T10000); 25,000 (T10000 T2)
Compatibility	
Supported tape drives	• StorageTek T10000 tape cartridge: StorageTek T10000, StorageTek T10000B, StorageTek T10000C (read only), StorageTek T10000D (read only)
	• StorageTek T10000 T2 tape cartridge: StorageTek T10000C, StorageTek T10000D
Number of tracks	768 (T10000), 1,152 (StorageTek T10000B), 3,584 (StorageTek T10000C), 4,608 (StorageTek T10000D)
Form factor	Half-inch, 3480/3490E

Cleaning Cartridge	
StorageTek T10000 T2	Compatibility: StorageTek T10000A, StorageTek T10000B, StorageTek T10000C, StorageTek T10000D

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Mechanical	
Height	1.0 in. (2.54 cm)
Depth	4.92 in. (12.50 cm)
Width	4.29 in. (10.90 cm)
Weight	T10000: 9.31 oz. (263.9 g) T10000 T2: 9.52 oz (270 g)
Environmental	
Relative Humidity	
Operating	20%–80%
Storage up to four weeks	5%–80%
Storage, archive	15%–50%
Shipping	5%–80%
Temperature (Noncondensing)	
Operating	T10000: +50°F to +113°F (+10°C to +45°C) T10000 T2: +50°F to +113°F (+10°C to +45°C)
Storage up to four weeks	+50°F to +90°F (+10°C to +32°C)
Storage, archive	+59°F to +79°F (+15°C to +26°C)
Shipping	− 9°F to +120°F (− 23°C to +49°C)
Wet Bulb Maximum	
Operating	+79°F (+26°C)
Storage up to four weeks	+79°F (+26°C)
Storage, archive	+79°F (+26°C)
Shipping	+79°F (+26°C)

Contact Us

For more information about Oracle's StorageTek T10000 or StorageTek T10000 T2 tape cartridges, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

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