StorageTek T10000C Tape Drive
Frequently Asked Questions
January 31, 2011

Overview

Oracle’s StorageTek T10000C enterprise tape drive blends the highest capacity, performance, reliability, and data security to support demanding, 24/7 data center operations. The eco-efficient StorageTek T10000C tape drive also ensures the lowest total cost of ownership, and proven reliability with ongoing compatibility with StorageTek enterprise libraries as well as third-party hardware and software.

Basic Specifications

- **Capacity**: 5 TB Native Uncompressed
- **Data Transfer Rate**: 240 MB/sec Native Uncompressed

Customer Benefits

The Ultimate Archive

- **Lowest total cost of ownership**: Fewer drives, libraries and media do the same job with T10000C’s highest capacity and fastest throughput
- **Unprecedented performance**: StorageTek Accelerator features maximize data center efficiency
- **Best in class data availability**: Enterprise design and data integrity validation ensure reliable access to data
- **Simplified management**: A host of new data management tools, and compatibility with Oracle enterprise tape products make it simple to manage extreme amounts of data
- **Protect your data and your business**: Choose encryption and WORM technology—to meet evolving requirements for data security and compliance
Frequently Asked Questions

How can I lower my storage costs with the StorageTek T10000C?

The StorageTek T10000C’s 5 TB capacity means you can store the same data with fewer tape cartridges, smaller libraries and less floorspace.

The StorageTek T10000C’s 240 MB/sec means you can do the same work with fewer tape drives and less power.

What is the maximum amount of data that can be stored in a single tape library unit?

With the StorageTek T10000C tape drive in Oracle’s StorageTek SL8500 modular library system, Oracle is the first to offer a 1 exabyte tape system (assumes 2:1 compression).

What is the highest performing single tape library unit, in terms of data throughput?

With the StorageTek T10000C tape drive in the StorageTek SL8500 modular library system, Oracle is the first to offer a 1 PB/hour tape system (assumes 2:1 compression).

What differentiates the StorageTek T10000C from other tape drives?

Aside from having the highest capacity and performance, the StorageTek T10000C is designed for the enterprise and 24/7 operating environments. Key features that enable the StorageTek T10000C to outperform other tape drives are the dual head technology and the SafeGuide tape path.

How is dual head technology beneficial?

Dual head technology allows the StorageTek T10000C tape drive to write 32 tracks at once, allowing the tape to move slower through the tape path. A slower tape speed enables better servo control (fewer errors) and more efficient data writes, contributing to higher data reliability. Faster backhitching, more full tape operations before wearout and fewer passes to fill tape, contribute to less wear on the tape drive and media.

What is the SafeGuide tape path and how is it beneficial?

The SafeGuide tape path requires 18x less edge force to guide the tape (compared to LTO), provides less risk of track damage due to edge wear, and improves data reliability and long-term tape stability.

How does the StorageTek T10000C minimize starts, stops and backhitching?

The StorageTek T10000C offers a large 2 GB buffer, StorageTek File Sync Accelerator, and StorageTek Application Accelerator.

What interfaces are available for the StorageTek T10000C tape drive?

4 Gb Native Fibre Channel and Native FICON

What libraries is the StorageTek T10000C compatible with?

The StorageTek T10000C works with the StorageTek SL8500 and StorageTek SL3000 modular library systems.

Is the StorageTek T10000C compatible with the PowderHorn 9310?

No. The StorageTek T10000A was the last tape drive compatible with the PowderHorn 9310.

Does the StorageTek T10000C have partitioning?

Yes. The StorageTek T10000C offers StorageTek Tape Tiering Accelerator and StorageTek In-Drive Reclaim Accelerator, which take advantage of partitioning.

Can I write to Oracle’s existing StorageTek T10000 media with the StorageTek T10000C tape drive?

No. Oracle’s StorageTek T10000 T2 media is required to write 5 TB with the StorageTek T10000C tape drive.

Can the StorageTek T10000C read StorageTek T10000 media that was written with a StorageTek T10000A or StorageTek T10000B tape drive?

Yes. StorageTek T10000C can backward read StorageTek T10000 media written with the StorageTek T10000A or StorageTek T10000B tape drives.

Can the StorageTek T10000C read media that was written with a T9440 tape drive?

No. StorageTek T10000C can only backward read StorageTek T10000 media written with the StorageTek T10000A or StorageTek T10000B tape drives.
I don't need 5 TB on one cartridge and I would like to have faster access to my data, can the StorageTek T10000C help?

Yes, the StorageTek T10000 T2 Sport cartridge is only 1 TB, and offers an average access time of only 17 seconds, for fast access needs.

Can I ensure that data written with a StorageTek T10000C tape drive is never over-written?

Yes, StorageTek T10000 T2 media comes in a Write Once, Read Many (WORM) format to protect your data.

Is the StorageTek T10000C encryption enabled?

Yes, the StorageTek T10000C is compatible with the Oracle Key Manager, and offers data path key management.

Where can I get more information on the StorageTek T10000C tape drive?

Go to http://www.oracle.com/us/products/servers-storage/storage/tape-storage/index.html or contact your Oracle sales representative.