



Highlights

- Scale tape storage capacity as needed, with one 3U base module and up to six expansion modules, all in the same rack
 - Help meet compliance requirements with secure, long-term data storage
 - Deploy a storage solution that offers ease of installation and management
 - Rapidly remediate data storage issues with error recovery and reporting, library health monitoring and auto-recovery
 - Help reduce the costs of data center space for storage and related utilities with a high-density solution
-

IBM TS4300 Tape Library

Supports secure, long-term data storage in a highly scalable tape library

Requirements for secure, long-term data retention—especially in the financial services, healthcare and life sciences industries—are common and increasingly stringent, with data volumes growing massively as a result. Tape storage offers a less costly long-term storage option than disk drives or flash. And data stored on tape kept offline, or on write-once media, is nearly invulnerable to hacking. IBM® TS4300 Tape Library is a high-density, highly scalable, easy-to-manage tape library designed to keep data securely stored long-term, while helping reduce the costs associated with data center space and utilities.

Its modular design enables users to increase cartridge and drive capacity as needed. Built around a 3U-high, modular base library, TS4300 can scale vertically with up to seven modules (including the base library), with expansion for Linear Tape-Open (LTO) Ultrium 7 and 6 cartridges, drives and redundant power supplies. A single robot manages all modules in the stack.

In a seven-module configuration, TS4300 offers a capacity of more than 270 LTO cartridges. A wizard for installation and configuration enables users to install, expand and service the library without special training.

To help meet security and compliance requirements, TS4300 supports write-once-read-many (WORM) cartridges to enhance data protection. Additionally, IBM plans to enhance the TS4300 with data encryption within LTO tape drives and encryption key management with IBM Security Key Lifecycle Manager.¹



www.pmddatasolutions.com

Start with a base library

The TS4300 base library contains all of the necessary robotics and intelligence to manage the base library system, with a maximum of 40 slots of LTO cartridge capacity per module, five input/output (I/O) slots, and support for three combinations of full- and/or half-height (FH or HH) LTO drives per module. The TS4300 base library is rack- or tabletop mountable. Module expansions are only rack-mountable.



IBM TS4300 Tape Library

Quickly locate stored data

TS4300 leverages IBM Spectrum Archive™ for direct, intuitive and graphical access to data stored in IBM tape drives and libraries by incorporating the IBM Linear Tape File System™ (LTFS) format standard. LTFS compatibility allows tape-stored data to be accessed as if it were on disk or flash storage.

Simplify tape storage deployment and management

TS4300 is based on an embedded, open-source software architecture to help speed deployment and simplify management. Best-in-class error recovery and reporting, library health monitoring and alerting, and auto-recovery features help to speed diagnostics and resolution. An automation drive interface significantly increases drive communication speed for faster code updates and log downloads.

IBM offers diverse management software solutions for TS4300 to enhance the use of multipath architecture, as well as the use of a single TS4300 library. The library software includes application programming interface (API) hooks that enable easy integration of IBM software.

Management software options	
IBM Spectrum Archive	<ul style="list-style-type: none"> Enables users of LTO Ultrium 7 and 6 tape library systems to inventory cartridges and read, write and search data on any cartridge Enables writing metadata and tagging of individual files for easy and fast access to files stored on cartridges
IBM Spectrum Protect™	<ul style="list-style-type: none"> Enables users to create, manage and optimize archives Provides management of concurrent copies of content, plus active, inactive and off-site content
IBM Security Key Lifecycle Manager¹	<ul style="list-style-type: none"> Enhances data security while dramatically reducing the number of encryption keys to be managed Simplifies encryption key management with an intuitive user interface for configuration and management Helps minimize the risk of loss or breach of sensitive information
Advanced reporting	<ul style="list-style-type: none"> Provides graphical displays for diagnostic and trend analysis data to help evaluate tape drive and media performance and drive utilization parameters Identifies drives or groups of drives that are nearing capacity with a Drive Resource Utilization Report Measures and evaluates media performance with a Media Integrity Report Provides detailed instructions and error reports to identify and diagnose a faulty customer-replaceable unit (CRU)



IBM TS4300 Tape Library configurations

	Base module	TS4300 base library with 6 expansion modules
Maximum LTO Ultrium cartridges	32	272
Maximum LTO Ultrium I/O slots	5	35
Maximum tape drives	1 FH LTO, 3 HH LTO, or 1 FH and 1 HH LTO	7 FH LTO or 21 HH LTO HH/FH drive mixture range 19/1 or 7/7
Total physical capacity	192 TB	1.632 PB
Maximum logical libraries	1	7

TS4300 Tape Library at a glance

Form factor	3U
Tape drive options	6 TB native capacity/up to 15 TB compressed capacity (LTO Ultrium 7) 2.5 TB native capacity/up to 6.25 TB compressed capacity (LTO Ultrium 6)
Network interface	Ethernet
Power supply	1 standard power supply, optional 2nd redundant supply
Hot-swap components	Power supplies, tape drives
Systems management	Storage Management Initiative Specification (SMI-S) enabled
Operating systems supported	Selected IBM servers and other Linux and Microsoft Windows open-system servers
Limited warranty	Three-year in-warranty coverage of select parts
Weight	Base unit maximum 28 kg (61.5 lb) Expansion unit maximum 22.6 kg (49.6 lb)
Dimensions (H x W x D)	114 mm (4.48 in.) x 446 mm (17.56 in.) x 873 mm (34.37 in.)



Why IBM?

With more than 60 years of experience in delivering tape-based storage technology, IBM Storage solutions deliver the scalability, security and ease-of-use that organizations need to manage the massive volumes of data that have become common today. TS4300 Tape Library delivers a highly scalable, modular option that can expand as data storage requirements grow, while helping to avoid the costs of additional data center space and related utilities required to manage other, more expensive storage options.

For more information

To learn more about IBM TS4300 Tape Library, please contact your IBM representative or IBM Business Partner, or visit: ibm.com/us-en/marketplace/ts4300

Additionally, IBM Global Financing provides numerous payment options to help you acquire the technology you need to grow your business. We provide full lifecycle management of IT products and services, from acquisition to disposition. For more information, visit: ibm.com/financing



© Copyright IBM Corporation 2017

IBM Systems
Route 100
Somers, NY 10589

Produced in the United States of America
July 2017

IBM, the IBM logo, ibm.com, IBM Spectrum Archive, IBM Spectrum Protect, and Linear Tape File System are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml

Linear Tape-Open, LTO, the LTO Logo, Ultrium and the Ultrium logo are trademarks of HP, IBM Corp. and Quantum in the U.S. and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

Actual available storage capacity may be reported for both uncompressed and compressed data and will vary and may be less than stated.

¹ IBM's roadmap includes introducing Library-Managed Encryption capability including support to IBM Security Key Lifecycle Manager in 4Q 2017.



Please Recycle



www.pmddatasolutions.com

TSD03237-USEN-00