

IBM TS4300 Tape Library

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

Modular Design for Scalability

The IBM® TS4300 Tape Library is a high-density, highly scalable, easy-to-manage solution designed to keep data securely stored long-term, while helping reduce the costs associated with data center space and utilities. Its modular design enables you to increase cartridge and drive capacity as needed—scale vertically up to sixteen modules with expansion for Linear Tape-Open (LTO) Ultrium cartridges, drives and redundant power supplies.

The modular architecture facilitates scalability of both cartridge and drive capacities according to demand. This library, based on a compact 3U-high modular base, supports vertical expansion with up to sixteen modules, incorporating the base, Linear Tape-Open (LTO) Ultrium cartridges, drives, and redundant power supplies. A solitary robot efficiently manages operations across all modules within the stack. In a fully expanded setup, a TS4300 can accommodate up to 640 LTO cartridges.



Security Compliance Capabilities

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 escalating exponentially. Data stored on offline tape or write-once media, is nearly impervious to hacking.

Base Library for Complete Management

The base library contains all 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.

Lenovo

Simplify Tape Storage Deployment and Management

The 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 Storage Archive	<ul style="list-style-type: none"> Enables users of the latest LTO Ultrium 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 Storage 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 Manager	<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

IBM® TS4300 Tape Library Configurations

	Minimum - TS4300 base module only (3U)	Intermediate - TS4300 base module with 6 expansion modules (21U)	Maximum - TS4300 base module with 15 expansion modules (48U)
LTO Ultrium cartridge capacity	40	280	640
Cartridges for I/O slots	Per module: 5	Per 7-module library: 35	Per 16-module library: 80
Tape drives	1 FH LTO, 3 HH LTO, or 1 FH and 1 HH LTO	7 FH LTO or 21 HH LTO HH/FH tape drive mix 19/1 up to 7/7	16 FH LTO or 48 HH LTO HH/FH tape drive mix 46/1 up to 16/16
Maximum capacity	LTO-10: Up to 1.6PB LTO-9: Up to 720TB LTO-8: Up to 480TB LTO-7 (M8): Up to 360TB LTO-7: Up to 240TB	LTO-10: Up to 11.2PB LTO-9: Up to 5.04PB LTO-8: Up to 3.36PB LTO-7 (M8): Up to 2.52PB LTO-7: Up to 1.68PB	LTO-10: Up to 25.6PB LTO-9: Up to 11.52PB LTO-8: Up to 7.68PB LTO-7 (M8): Up to 5.76PB LTO-7: Up to 3.84PB
Logical libraries	1	21	21

Specifications - TS4300 Tape Library

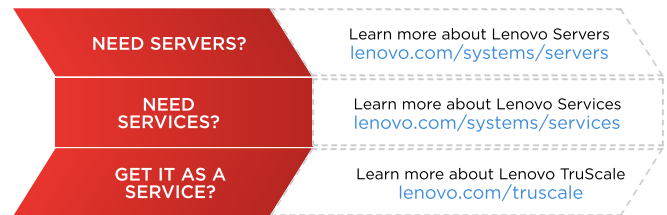
Form Factor	Base module: 3U rack-mount or stand-alone
Cartridge capacity	<ul style="list-style-type: none"> • 40TB native capacity/up to 100 TB compressed capacity (LTO-10)* • 18TB native capacity/up to 45TB compressed capacity (LTO-9) • 12TB native capacity/up to 30TB compressed capacity (LTO-8) • 9TB LTO-7 initialized LTO-8 Type M (M8) • 6TB native capacity/up to 15TB compressed capacity (LTO-7) <p>*Machine Type 7DMN supports LTO 10, 9 and 8. Machine Type 6741 supports LTO 9, 8, 7 and 6.</p>
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
Host operating systems	For the list of supported operating systems, refer to the IBM System Storage Interoperation Center (SSIC): www.ibm.com/systems/support/storage/ssic
Warranty	3-year customer-replaceable unit (CRU) limited warranty with 9x5 next business day parts delivered
Weight	Base module maximum 28kg (61.5 lb.) Expansion module maximum 22.6kg (49.6 lb.)
Dimensions (H x W x D)	114mm (4.48 in.) x 446mm (17.56 in.) x 873mm (34.37 in.)

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US\$62 billion revenue global technology powerhouse, ranked #171 in the Fortune Global 500, employing 77,000 people around the world, and serving millions of customers every day in 180 markets. Focused on a bold vision to deliver smarter technology for all, Lenovo is expanding into new growth areas of infrastructure, mobile, solutions and services. This transformation is building a more inclusive, trustworthy, and sustainable digital society for everyone, everywhere.

For More Information

To learn more about the IBM TS4300 Tape Library, contact your Lenovo representative or Business Partner, or visit: lenovo.com/storage. For detailed specifications, read the [IBM TS4300 Tape Library](#) product guide.



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