

IBM System Storage TS3310 Tape Library



The IBM System Storage™ TS3310 Tape Library is a modular, scalable tape library designed to address the tape storage needs of rapidly growing companies who find themselves space and resource constrained with tape backup and other tape applications.

Designed around a 5 EIA high modular base library unit, the TS3310 is designed to scale vertically with expansion for LTO tape cartridges, drives and redundant power supplies.

Highlights

- **Modular, scalable tape library designed to grow as your needs grow**
- **Available in desktop, deskside and rack mounted configurations**
- **Designed for optimal data storage efficiency with high cartridge density using standard or WORM LTO™ data cartridges**
- **Hot-swap tape drives and power supplies**
- **Redundant power and host path connectivity failover options**
- **Remote Web-based management and SMI-S interface capable**

The base library module, model L5B, is the entry point for the product family. It contains all of the necessary robotics and intelligence to manage the 5U high library system, which houses up to 36 cartridges (30 storage slots and 6 Input/Output slots) and two LTO generation 4 and/or generation 3 tape drives.

The TS3310 model L5B can be expanded with the addition of expansion units, the model E9U.

Each model E9U contains 92 physical LTO cartridge storage cells and space for up to four LTO 4 and/or LTO 3 tape drives. The TS3310 supports either the standard or WORM LTO data cartridge. Additionally, the E9U has space for up to two (one redundant) power supply modules. (At least one power supply module must be installed if a drive is present in the E9U.)

For organizations unsure of their short or long term tape capacity needs, the TS3310 Tape Library's Capacity on Demand (COD) built-in capability allows the system to scale as needs grow. In the initial shipped configuration, an E9U has half of its storage cells enabled. As your business grows, the purchase of a capacity on demand key allows you to enable the second half of the model E9U storage cells.

Building on the success of IBM's patented Multi-path architecture, the TS3310 can be divided into one logical library per installed tape drive. These logical libraries can be simultaneously connected to a wide variety of different servers, running different operating systems and tape applications.

Designed for the ultimate in system availability, optional data path and control path feature can help support ongoing host connectivity under a variety of adverse conditions.

TS3310 Tape Library configurations

	3576 Model L5B	3576 Model L5B and four E9U models
Configuration	Base library	Base library and 4 expansion units
LTO storage slots (max)	30	396
LTO Input/Output slots (max)	6	54
Maximum tape drives	2	18
Total Physical Capacity (2:1 compression)	24 TB	up to 633.6 TB
Capacity on Demand increments	n/a	46 cartridges
Maximum logical libraries	2	18

TS3310 Tape Library at a glance

Form factor/height (H x W x D)	L5B: 219.7 mm (8.65 in) x 443.2 mm (17.45 in) x 801.4 mm (31.55 in) L5B+E9U: 620.8 mm (24.4 in) x 443.2 mm (17.45 in) x 801.4 mm (31.55 in)
Tape Drive Interface options	4 Gbps Fibre Channel and 3 Gbps SAS (LTO4 only), SCSI-U160 (LTO3 only)
Network interface	Ethernet
Power supply (std/max)	L5B: 1 standard (2 max) L5B+E9U: 2 standard (4 max); L5B+E9U+E9U: 3 standard (6 max); L5B+3 E9U: 4 std (8 max); L5B + 4 E9U: 5 std (10 max)
Hot-swap components	Power supplies, tape drives
RAID support	n/a
Systems management	SMI-S enabled
Operating systems supported	OS/400®, V5R2, V5R3, or later AIX 5L™ V5.1, V5.2, V5.3 or later Sun Solaris 8 and 9 Microsoft® Windows® 2000 Microsoft Windows 2003 HP-UX 11.0, HP-UX 11.11 and HP-UX 11.23' Linux® distributions: Red Hat Enterprise Linux Version 4 SUSE Linux Enterprise Server 9
Limited warranty	1 year 9 x 5 next business day
Weight	L5B: 38.6 kg (85 lb) max L5B+E9U: 88.5 kg (195 lb) max

For more information

Contact your IBM representative or
IBM Business Partner or visit:

ibm.com/storage/tape



MB, GB and TB equal 1,000,000, 1,000,000,000 and 1,000,000,000,000 bytes, respectively, where referring to storage capacity. Actual storage capacity will vary based upon many factors and may be less than stated. Some numbers given for storage capacities give capacity in native mode followed by capacity using data compression technology. (this paragraph is required only when we mention MB, GB, TB capacity statements/specifications)

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY, EITHER EXPRESSED OR IMPLIED. IBM EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements (e.g., IBM Customer Agreement, Statement of Limited Warranty, International Program License Agreement, etc.) under which they are provided.

References in this document to IBM products, programs or services do not imply that IBM intends to make such products, programs or services available in all countries in which IBM operates or does business. Any reference to an IBM program or product in this document is not intended to state or imply that only that program may be used. Any functionally equivalent program or product that does not infringe IBM's intellectual property rights may be used instead. It is the user's responsibility to evaluate and verify the operation of any non-IBM product, program or service.

IBM's customer is responsible for ensuring its own compliance with legal requirements. It is the customer's sole responsibility to obtain advice of competent legal counsel as to the identification and interpretation of any relevant laws and regulatory requirements that may affect the customer's business and any actions the customer may need to take to comply with such laws. IBM does not provide legal advice or represent or warrant that its services or products will ensure that the customer is in compliance with any law.

¹ HP-UX patches may be required.

© Copyright IBM Corporation 2007

IBM Systems and Technology Group
Route 100
Somers, New York 10589
U.S.A.

Produced in the United States
April 2007
All Rights Reserved

IBM, the IBM logo, AIX 5L, OS/400 and System Storage are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries or both.

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

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

Linear Tape Open, LTO and Ultrium are trademarks of Hewlett Packard, IBM and Certance in the United States, other countries or both.

Other company, product and service names may be trademarks or service marks of others.

This document could include technical inaccuracies or typographical errors. IBM may make changes, improvements or alterations to the products, programs and services described in this document, including termination of such products, programs and services, at any time and without notice. Any statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. The information contained in this document is current as of the initial date of publication only and is subject to change without notice. IBM shall have no responsibility to update such information.

IBM is not responsible for the performance or interoperability of any non-IBM products discussed herein. Performance data for IBM and non-IBM products and services contained in this document was derived under specific operating and environmental conditions. The actual results obtained by any party implementing such products or services will depend on a large number of factors specific to such party's operating environment and may vary significantly. IBM makes no representation that these results can be expected or obtained in any implementation of any such products or services.