



Highlights

- Deliver high-performance, high-capacity storage with a proven, cost-effective tape drive
 - Leverage IBM® Spectrum Archive™ featuring Linear Tape File System™ (LTFS) technology to support for fast access to data
 - Protect, retain and secure critical data with encryption
 - Extend storage investments with support for existing IBM tape automation
 - Take advantage of write-once-read-many (WORM) cartridges for long-term data retention
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IBM TS1150 tape drive

Reduce the costs of long-term data protection in big-data, cloud, mobile and social environments

In today's data-hungry world, cost-efficient storage is more important than ever. Business analytics have increased the value of data stored for long periods of time, while end-user demands for data accessibility just keep escalating—thanks to the growing use of cloud, mobile and social media technologies. Yet storing massive volumes of static, rarely accessed data on expensive storage media can put a huge strain on shrinking IT budgets.

The IBM TS1150 tape drive gives organizations an easy way to deliver fast access to data, improve security and provide long-term retention—and for less expense than disk solutions. TS1150 offers high-performance, flexible data storage with support for data encryption. This fifth-generation drive can help protect investments in tape automation by offering compatibility with existing automation. Plus, an upgrade model is available for existing IBM TS1140 tape drives. What's more, TS1150 supports the LTFS format in IBM Spectrum Archive for direct, intuitive and graphical access to data.

TS1150 supports IBM TS4500 and IBM TS3500 tape libraries as well as IBM racks that enable stand-alone installation. TS1150 features three options for type D media. The IBM 3592 Advanced data tape cartridge, JD, provides up to 10 TB native capacity, and up to 10 TB are provided by the IBM 3592 Advanced WORM cartridge, JZ. A type D 3592 Economy cartridge, JL, is also available, storing 2 TB and providing fast access to data. TS1150 can also read and write on previous media, type C (JC, JY and JK).



To help optimize drive utilization and reduce infrastructure requirements, TS1150 can be shared among supported hosts on a storage area network (SAN). It also offers multiplatform support and can scale from midrange to enterprise environments—delivering flexible storage for heterogeneous server environments.



Deliver fast access to dynamic data

TS1150 offers the performance needed to meet today's dynamic data requirements. The drive supports a native data transfer rate of up to 360 MBps to deliver information at the speed demanded by cloud, mobile and social media users.

TS1150 also helps simplify big-data management by transferring data at up to 700 MBps with data compression.

Choose the right tape drive for all your needs

Help lower cost of ownership with the flexibility of TS1150. Reduce the need to purchase two different tape drives by choosing a tape storage solution that addresses the need for both high capacity and fast access to data. Support data retention needs with 3592 WORM cartridges and support for media partitioning for more flexible data management. Also, promote data interchange with the ability to read and write tapes in TS1140 formats, as well as the ability to improve the capacity of JC/JY media from 4 to 7 TB and JK media from 500 to 900 GB.

Use encryption to help protect data

Security is an important issue when storing, accessing and managing your data. Encryption can help organizations protect data against theft or accidental loss, particularly data that contains the personal or sensitive information of individual customers.

Reduce the need for host-based encryption—and the concurrent drain on performance—or reduce the use of specialized encryption appliances using the built-in data encryption capabilities of TS1150. This capability is intended to protect information if tape cartridges are lost or stolen by supporting the storage of the data in an encrypted form.

Organizations can generate and manage encryption keys for TS1150 tape drives across a distributed environment with IBM Security Key Lifecycle Manager. This solution provides the interface between IBM encrypting tape drives and external keystores.

To further protect mission-critical data, TS1150 delivers advanced technology—such as advanced, interleaved error-correction codes and factory-written servo tracks on the tape cartridge—to provide precise head positioning. In addition, unique functions such as a virtual backhitch and a high-resolution directory help improve small file-write performance and improve recall access to data respectively.



attached to an IBM TS7700 virtualization engine. By supporting such a wide range of platforms simultaneously, TS1150 helps simplify the storage environment.

In addition, IBM Spectrum Protect™ and other compatible software offerings can be used with TS1150 for storage and tape management. Supported software and applications can be obtained separately from IBM, IBM Business Partners or independent software vendors (ISVs).

Media capacity cartridge options

The IBM 3592 cartridges used in TS1150 tape drives are available in short and advanced lengths and in rewritable and WORM formats. Cartridges are available in packs of 20 and can be ordered as labeled and initialized, initialized only, or unlabeled and uninitialized. An RFID label option is also available. For more information on media options, contact your IBM representative or IBM Business Partner, or visit: ibm.com/systems/storage/media.

Help lower costs with Spectrum Archive support

TS1150 can help reduce the costs of long-term data retention by including support for Spectrum Archive with LTFS technology, allowing users and applications direct access to files and directories stored on tape. Spectrum Archive provides an easy-to-use interface that enables organizations to automatically move infrequently accessed data from disk to tape without the need for proprietary tape applications. This allows data centers to add extensive capacity with lower media, floor space and power costs. And users can access archived data with drag-and-drop simplicity—just as if it were stored on disk.

Simplify storage management

TS1150 offers support for most open-systems servers, including IBM Power Systems™. TS1150 can support z Systems™ environments when installed in an IBM TS3500 tape library

IBM TS1150 tape drive at a glance

Native capacity (uncompressed)	10 TB (using JD/JZ media), 7 TB (using JC/JY media) or 2 TB (using JL media)
Native sustained data rate (uncompressed)	360 MBps (type D media) 300 MBps (type C media re-formatted)
Burst data rate	800 MBps
High-speed search (maximum)	12.4 m/s end-end search rate



Take the next step. [Click here](#)
➔ See the full list of specifications.

Why IBM?

Innovative technology, open standards, excellent performance, and a broad portfolio of proven storage software, hardware and solutions offerings—all backed by IBM with its recognized industry leadership—are just a few of the reasons to consider storage solutions from IBM. In addition, IBM delivers some of the best storage products, technologies, services and solutions in the industry without the complexity of dealing with different hardware and software vendors.

For more information

To learn more about the IBM TS1150 tape drive, contact your IBM representative or IBM Business Partner, or visit:

ibm.com/systems/storage/tape/ts1150

Additionally, IBM Global Financing can help you acquire the IT solutions that your business needs in the most cost-effective and strategic way possible. For credit-qualified clients we can customize an IT financing solution to suit your business requirements, enable effective cash management, and improve your total cost of ownership. IBM Global Financing is your smartest choice to fund critical IT investments and propel your business forward. For more information, visit:

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Produced in the United States of America
August 2015

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



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