

# IBM TS1160 Tape Drive

Gain fast access to data and  
secured long-term retention



## Highlights

Improve data security  
with support for encryption  
and key management

Extend storage investments  
for existing IBM tape  
automation solutions

Meet compliance  
requirements with  
write once, read many  
(WORM) support

Optimize drive usage with  
support for Fiber Channel  
and SAS interfaces

Massive data proliferation has led to many challenges in the handling and securing of sensitive information. Modern use cases, such as big data, cloud or analytics sometimes require a hyperscale approach to be able to meet important business goals in a cost-effective and timely manner. The IBM TS1160 Tape Drive is an ideal storage solution for large-scale computing environments and is designed to lower the total cost of ownership. This drive offers an easier way to improve capacity, deliver fast access to data and provide secured long-term retention for less than the cost of disk or flash solutions.

IBM TS1160 Tape Drive offers significantly improved capacity and throughput when compared with the previous IBM TS1150 Tape Drive—thanks to the introduction of IBM 3592 Tape Cartridge JE supporting complete integration with Software Defined Storage, helping to further improve data management and reduce storage costs. Deploying a heterogeneous server environment can simplify your overall storage setup and enable simultaneous support of a wide range of platforms. The IBM TS1160 Tape Drive offers multiplatform support for most open-systems servers, including IBM Power® Systems, and back-end attachments for Virtual Tape environments.

## Access information at the speed of business

Leverage performance to handle the requirements of your business needs. The TS1160 tape drive supports a native data transfer rate of up to 400 MBps (up to 900 MBps with compression) to deliver information at the speed your business demands.



### **Improve data security with support for encryption and key management**

The IBM TS1160 Tape Drive features NIST-approved AES-256 encryption and automated encryption key lifecycle management—powered by IBM Guardium® Key Lifecycle Manager. Secured data combined with automated data and control path failover can help in decreasing the risk of operational interruptions in most cybersecure infrastructures.

### **Extend storage investments for existing IBM tape automation solutions**

The recent enhancement of the sixth-generation IBM TS1160 Tape Drive offers improvements to capacity and workflow management. This updated drive has a native capacity of up to 20 TB uncompressed (60 TB when compressed). The drive is also compatible with previous IBM tape drive automations, which can help you maximize the value of both your new and existing resources.

### **Meet compliance requirements with write once, read many (WORM) support**

Lower the total cost of ownership for your storage system with the flexibility offered by the IBM TS1160 Tape Drive. Consolidate your tape drive solutions with a single tape drive that addresses both the need for high capacity as well as fast access to data. Support data retention needs with 3592 WORM cartridges for advanced media partitioning and more flexible overall management. On JE media, the IBM TS1160 Tape Drive supports read and write permissions with a total capacity of up to 20 TB.

### **Optimize drive usage with support for Fiber Channel and SAS interfaces**

To help optimize drive usage and reduce infrastructure requirements, the IBM TS1160 Tape Drive has been designed to be shareable over storage area networks (SANs) through existing Fiber Channel 16 Gb and SAS 12 Gb interfaces. It offers multiplatform support and can scale from midrange to enterprise environments, delivering flexible storage for heterogeneous server environments. The IBM TS1160 Tape Drive also supports the IBM System Storage TS4500 Tape Library and offers rack-mounted and stand-alone installation variations.

## IBM TS1160 Tape Drive specifications

### Characteristics

Recording technique	Linear Serpentine		
Native capacity (uncompressed)	20 TB (using JE media), 15 TB / 10 TB (using JD media), 7 TB (using JC media)		
Native sustained data rate (uncompressed)	400 MBps (type E media)		
Burst data rate	1600 MBps		
High-speed search (max)	12.4 mps end-end search rate		
Warranty	One year		
Dimensions	60F/S Model: 86 mm H x 156 mm W x 374 mm D (3.4 in x 6.1 in x 14.7 in)		
Weight	60F/60S Model: 3.97 kg (8.75 lbs)		
<b>Operating environment</b>	Recommended	Allowable	Power off
Temperature	16° to 25° C (60° F to 77° F)	16° to 32° C (60° F to 90° F)	5° to 45° C (40° F to 113° F) Dry-bulb
Relative humidity	20% to 50% non-condensing	20% to 80% non-condensing	8% to 80% non-condensing
Maximum dew point temperature	22° C (72° F)		
Power dissipation (drive and integrated blower)	56 Watts		

### Platform support datasheet

Power Systems™	IBM AIX®, IBM i™, Linux®	
	IBM System p IBM System i IBM System x	IBM AIX and Linux IBM i and IBM OS/400® See open system support
Open Systems	Oracle	Solaris
	Servers with Intel or AMD processors	SUSE Linux, Red Hat®, Microsoft Windows
Storage SDS	IBM Storage Archive IBM Storage Protect	



### **Why IBM?**

The performance and availability of your storage environment can either enhance or hamper your business processes. That's where IBM comes in. With more than 70 years of experience in delivering tape-based storage technology, IBM Storage solutions deliver the scalability, security, and reliability that organizations need to manage the massive volumes of data common in enterprise environments today.

Innovative technology, excellent performance and a broad portfolio of tested storage hardware, software, solutions, and offerings are just a few of the reasons why you should consider storage solutions from IBM—including the IBM TS1160 Tape Drive.

### **For more information**

To learn more about the IBM TS1160 Tape Drive, contact your IBM representative or IBM business partner or visit [ibm.com/products/enterprise-tape-drive](https://ibm.com/products/enterprise-tape-drive).

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