

*High capacity, performance half-height Linear Tape-Open Tape Drive designed for the small – midrange open systems environment for a competitive price*



## **IBM System Storage TS2230 Tape Drive Express LTO3 HH Model**



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### **Highlights**

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- ***An entry-level Ultrium™ tape solution for the midrange and network tape storage environments***
- ***Double the storage capacity of existing HH LTO2 drives in the market***
- ***Adheres to widely supported Linear Tape-Open® (LTO) standards***
- ***Designed to provide cost-effective backup, save and restore, and archival storage external to the server***

Today, data is a key corporate asset in all types of businesses. The ability to access data quickly and reliably is critical to your success. Whether your business utilizes a high-performance network server or individual workstations, archiving and retrieving data in a dependable and consistent manner is mission critical.

The IBM System Storage™ TS2230 Tape Drive Express LTO3 HH Model—the entry-level IBM System Storage tape product family offering—is the answer to growing storage requirements and shrinking backup windows. By leveraging advanced Linear Tape-Open technology and the half-high format, the TS2230 Tape Drive is suited for handling the backup, save and restore, and archival data storage needs of a wide range of small systems.

The System Storage TS2230 Tape Drive Express LTO3 HH Model is an excellent tape storage solution for businesses requiring backup or low-cost, real-time archival of their data within a small window of time. The TS2230 has a storage capacity of up to 800 GB (with 2:1 compression) in conjunction with the IBM TotalStorage® LTO Ultrium 400 GB data cartridge, which is double the capacity of the Ultrium 2™ technology. Along with its higher capacity, the performance of the TS2230 Tape Drive has more than doubled over the previous generation of half-high LTO drives in the market for a native data transfer rate of up to 60 MBps. The TS2230 Tape Drive provides an excellent alternative to slower and smaller capacity 1/4-inch, 4 mm and 8 mm DLT/SDLT tape drives.

#### **Advanced features**

The IBM System Storage TS2230 Tape Drive Express LTO3 HH Model features either a SCSI Ultra160 Low Voltage Differential (LVD) or a 3 Gbps Serial Attached SCSI (SAS) interface for connection to a wide spectrum of open system servers. In addition to reading and writing to LTO Ultrium 3 tape cartridges, the TS2230 can read and write to LTO Ultrium 2 cartridges and read LTO Ultrium cartridges. The TS2230 features the half-high tape format in an external drive enclosure; this format is nearly half the physical height of existing LTO Generation 3 tape drives in the market, including the IBM TotalStorage 3580.

#### **Software support**

You can help increase the power of the IBM System Storage TS2230 Tape Drive Express LTO3 HH Model by managing it with tape management solutions such as IBM Tivoli® Storage Manager or other third-party storage software.

#### **Media**

You can order data and cleaning cartridges for the IBM System Storage TS2230 Tape Drive Express LTO3 HH Model at the time of purchase or from IBM Media, IBM Supplies Distribution and authorized dealers. Call 1 888 IBM-Media (1 888 426-6334) toll-free in the United States and Canada.

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## IBM System Storage TS2230 Tape Drive Express LTO3 HH Model at a glance

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**Model number:** 3580S3E (SAS version); 3580L3E (LVD SCSI version)

**Rack-mount option:** 96P1565

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### Characteristics

Tape drive type: IBM LTO Ultrium 3 Half-High  
Capacity per cartridge<sup>1</sup>: Up to 800 GB compressed; 400 GB native  
Sustained data transfer rate<sup>1</sup>: Up to 60 MBps native  
Media type: IBM Ultrium 3  
Data cartridge: IBM TotalStorage LTO Ultrium 400 GB Data Cartridge (P/N 24R1922)  
Cleaning cartridge: IBM TotalStorage LTO Cleaning Cartridge (P/N 35L2086)  
Dimensions: 25.0 cm W x 6.0 cm H x 27.5 cm D (9.85 in x 2.36 in x 10.8 in)  
Weight: 4.08 kg (9.03 lb)  
Warranty: Three-year, Customer Replaceable Unit (CRU) service in most countries

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### Operating environment

Temperature: 10° to 38° C (50° to 100° F)  
Relative humidity: 20% to 80% (non-condensing)  
Electrical power: 1.0–0.5 A at 100–240 V AC, 50/60 Hz  
Attachment and systems support<sup>2</sup>: The TS2230 features an LVD Ultra160 SCSI and a 3 Gbps SAS interface attaching to IBM p5, System p™, i5, System i™, System x™, RS/6000®, RS/6000 SP™, AS/400® and Netfinity® systems as well as to non-IBM servers and workstations. The TS2230 connects to Fibre Channel server adapters through selected IBM Storage Area Network Data Gateway products.  
Operating systems support: Native device driver support is available for IBM AIX®, OS/400® and i5/OS®; Microsoft® Windows® 2000 (build 2195 or greater) and Windows Server® 2003 (build 3790 or greater); Sun Solaris 8 and 9; HP-UX 11.0 and 11i; and Red Hat Enterprise Linux® 3; SUSE Linux Enterprise Server 8.

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## For more information

Contact your IBM representative or IBM Business Partner or visit:

- [ibm.com/totalstorage/lto](http://ibm.com/totalstorage/lto)
- [ibm.com/servers/eserver/express/storage](http://ibm.com/servers/eserver/express/storage)



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<sup>1</sup> Based on 2:1 compression

<sup>2</sup> Contact your IBM Representative for additional information