

IBM System Storage TS3100 Tape Library Express Model



Highlights

- **Designed to support the new IBM LTO™ Ultrium™ 4 and the LTO Ultrium 3 Tape Drives for increased capacity and performance including 4 Gbps fibre channel, Low Voltage Differential (LVD) SCSI and 3 Gbps SAS attachment**
- **Designed to support cost-effective backup, save and restore and archival storage in sequential or random access mode with a standard bar-code reader**
- **Designed to offer outstanding capacity, performance and reliability for midrange and network tape-storage environments in a 2U form factor with the 24 data-cartridge slots and a dedicated mail slot**
- **Remote library management through a standard Web interface supports flexibility and greater administrative control of storage operations**
- **Ultrium 4 native data capacities up to 19.2 TB (38.4 with 2:1 compression) with 24 data cartridge slots and the use of LTO Ultrium 4 Tape Drive with a native data rate of 120 MBps**
- **Ultrium 3 native physical data capacities up to 9.6 TB (up to 19.2 TB using 2:1 compression) with the 24 data-cartridge slots, and the use of LTO Ultrium 3 Tape Drive with a native data rate of up to 80 MBps**

The IBM System Storage™ TS3100 Tape Library Express Model and its storage management applications are designed to address capacity, performance, data protection, reliability, availability, affordability and application requirements. It is designed as a functionally rich, entry tape-storage solution incorporating LTO Ultrium tape technology. The IBM TS3100 Express model is an excellent solution for large-capacity or high-performance tape backup with or without random access. The TS3100 is also an excellent choice for tape automation for IBM System p™, IBM RS/6000®, IBM System i™, IBM AS/400®, IBM System x™ and other open systems.

The IBM TS3100 Tape Library Express is well-suited for handling backup, save and restore and archival data-storage needs for small to medium-size environments. With its single Ultrium 4 or Ultrium 3 Tape Drive and 24 tape cartridge capacity, the IBM TS3100 model is designed to leverage LTO technology

to cost effectively handle growing storage requirements. The TS3100 Tape Library is configured with two removable cartridge magazines, one on the left side and one on the right. Additionally, the left magazine includes a single mail slot to help support continuous library operation while importing/exporting media. A bar-code reader is standard in the library, supporting the library's operation in sequential or random access mode. The TS3100 also comes standard with remote management capabilities to allow for remote administration of the tape library through a Web interface.

The new IBM Ultrium 4 drive has more than double the drive throughput of the third-generation LTO Ultrium Tape Drives and up to nearly ten times the

throughput of the first-generation drive. The IBM LTO Ultrium 4 Tape Drives are designed to support up to 120 MBps native data-transfer rates. In addition, with the use of the new IBM TotalStorage® LTO Ultrium 800 GB Data Cartridge, the IBM Ultrium 4 Tape Drive doubles tape-cartridge physical capacity up to 800 GB native physical capacity (1.6 TB with a 2:1 compression), providing an IBM TS3100 Tape Library capacity of up to 38.4 TB with a 2:1 compression or 19.2 TB native. The IBM Ultrium 4 Tape Drives are designed to read and write third-generation LTO Ultrium data cartridges and read LTO Ultrium 2 data cartridges with improved data rates. The new Ultrium 4 technology helps support the encryption of data when using either IBM LTO 4 four Gbps FC or 3 Gbps SAS tape drives. As storage needs grow, you can

build on this storage investment by moving to higher capacity and performance automated libraries employing the new IBM Ultrium 4 Tape Drive technology.

The IBM TS3100 Tape Library Express features LVD SCSI, native switched, 4 Gbps fibre-channel and 3 Gbps SAS interfaces for Ultrium 4 drives (LVD SCSI and 4 Gbps FC for Ultrium 3 drives) and can attach to a wide variety of open system servers. The sequential or random access library comes in a stand-alone base configuration with the option of an industry-standard 19-inch rack mount kit. The IBM TS3100 also has an LCD display and indicators for power, drive and activity, error status and message information.

IBM System Storage TS3100 Tape Library Express Model at a glance

Drive options	Ultrium 4: LVD SCSI—FC (8143); 4 Gbps Fibre Channel—FC(8144); 3 Gbps SAS—FC(8145) Ultrium 3: LVD SCSI—FC (8043); 4 Gbps Fibre Channel—FC (8044)
Available Models:	3573 L2U 3573L3S (Express model, PN) includes IBM LTO Ultrium 3 LVD Ultra160 attach, SCSI tape drive, rack mount kit 3573F3S (Express model, PN) includes IBM LTO Ultrium 3 four Gbps Fibre Channel tape drive, rack mount kit 3573L4S (High Volume, PN) includes IBM LTO Ultrium 4 LVD Ultra160 attach SCSI tape drive 3573F4S (High Volume, PN) includes IBM LTO Ultrium 4 four Gbps Fibre Channel tape drive 3573S4S (High Volume, PN) includes IBM LTO Ultrium 4 three Gbps SAS tape drive
Optional feature codes	
Rack mount	7002
Right-side magazine set	8106
Tape drive type	IBM LTO Ultrium 4 or IBM LTO Ultrium 3
Number of drives	1
Number of tape cartridges	24
Number of mail slots	1
Physical capacity	Up to 1.6 TB per cartridge compressed; 800 GB native with LTO4 Up to 800 GB per cartridge compressed; 400 GB native with LTO3 Up to 38.4 TB per tape library compressed; 19.6 TB native Up to 19.2 TB per tape library compressed; 9.6 TB native
Data transfer rate	Up to 120 MBps native with LTO Ultrium 4 Up to 80 MBps native with LTO Ultrium 3
Dimensions (W x H x D)	
Stand alone	17.6 in (447.5 mm) x 3.84 in (97.6 mm) x 31.9 in (810 mm)
Rack mount	17.6 in (447.5 mm) x 3.44 in (87.6 mm) x 29.13 in (740 mm)
Weight	33 lb (15 kg)
Operating Environment	
Temperature	54 to 95 degrees F, 12 to 35 degrees C
Relative humidity	20% RH to 80% RH (non-condensing)
Electrical power	1.3 amps at 100 V ac, 0.7 amps at 240 V ac
Attachment and systems support	The TS3100 features LVD Ultra160, 4 Gbps Fibre Channel and 3 Gbps SAS (LTO4 only) interfaces, attaching to IBM System p, IBM System i, IBM System x, RS/6000 SP™, AS/400 and IBM Netfinity® systems, and non-IBM servers, workstations and personal computers
Operating Systems support	Native device-driver support is available for IBM AIX®, IBM OS/400®, IBM i5/OS®, Windows® 2000, Windows Server® 2003, Sun Solaris, HP-UX, Red Hat and United Linux®.

For more information

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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.

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