



# L180

## TAPE LIBRARY

### Key benefits

#### Increased reliability

For improved uptime, tape drives, fans and power supplies are hot-swappable. Uninterrupted and redundant power supplies are available. No routine maintenance is required.

#### Faster backup, restore, archiving

With throughput rates as high as 1.26 terabytes per hour, the L180 tape library gives you the speed you need to accelerate backup, restore and archiving.

#### Investment protection

The L180 tape library's Open Systems compatibility expands with your business, allowing you to store up to 34.8 terabytes and add drives as needed.

#### Easy management

Intelligent software monitors and collects library statistics. Web-based access allows easy remote monitoring. Streamlined management optimizes your use of space and increases availability.

#### SAN-ready

Connect to the future today and gain increased scalability, availability and sharability with flexible Fibre Channel connectivity.

#### Unmatched reliability

StorageTek's reputation for proven innovation and excellence is the foundation for the L40 tape library. They offer superior reliability and less downtime to Open Systems environments.

#### Increase availability

A native 2-gigabit Fibre Channel optical interface combined with StorageTek's T9840 and T9940 tape drives provides a leading-edge, all-Fibre Channel solution with dynamic worldwide naming capability.



### L180 tape library

With up to 174 slots and 34.8 terabytes of native capacity, the L180 tape library is ideal for mid-size and larger distributed, Open Systems, UNIX and Windows NT environments. This automated tape library features a high-speed native two-gigabit Fibre Channel interface for faster data sharing and use in storage area networks.

#### Enterprise-class performance

To keep information moving fast, the L180 tape library's robotics and digital vision system let all applications read and write simultaneously, with more than 450 cartridge exchanges per hour. Speed reduces backup windows and lets you restore data quickly. And the library's high drive-to-cartridge ratio is ideal for applications like digital imaging.

#### Flexible access to information

Your applications and environment — not storage limitations — should dictate access to information. A SAN-ready solution, the L180 tape library's native two-gigabit Fibre Channel and Ultra SCSI interfaces provide the right access, no matter what the job. And the library supports multiple tape technologies, including up to six T9840 tape drives or ten DLT, Super DLT and LTO Ultrium Generation 1 and 2 tape drives, so you can determine the right combination for your business needs.

#### Easy upgrade path

As a member of the L-Series™ automated tape library product line, the L180 tape library offers you an easy, cost-effective upgrade path. As your data storage requirements grow, you can seamlessly migrate to a higher capacity library.



### Baseline Implementation Services

StorageTek's Implementation Services helps you achieve the full benefits of your storage solution investments — right from the start. Baseline Implementation for the Enterprise tape library provides services to deliver and enable full functionality and utilization of your storage asset. Enterprise Tape Library Base service applies to the following:

- StorageTek mid-range tape libraries
  - OS/390 environments requiring Host Software Component (HSC) software
  - Open Systems environments requiring Automated Cartridge System Library Software (ACSL Manager™ software)
- Existing library environments requiring the reconfiguration of HSC software or ACSLS Manager software in order to implement an additional library

This service includes the installation and configuration or reconfiguration of library software, testing of library software utilities, as well as configuration of the library in your environment. If applicable, Backup Resource Monitor™ software is installed and set up to report on your backup operation. In addition, the service includes design validation, testing, documentation, project management and knowledge transfer.

In addition to Baseline Implementation Services, StorageTek offers two tiers of higher-level consulting services for organizations whose implementation needs go beyond the baseline level.

### Custom Implementation Services

StorageTek's Implementation Services helps you achieve the full benefits of your storage solution investments — right from the start. Custom Implementation Services for Enterprise Tape Library Migration provides the services you need for a complete migration solution. This service is designed to enable seamless migration of your existing tape environment to a StorageTek mid-range automated tape library. StorageTek Services provides a custom designed migration service that is specific to your environment and migration requirements and helps enable interoperability, functionality and availability of new and existing storage assets.

In addition to these Custom Implementation Services, StorageTek offers higher-level consulting services for organizations whose implementation needs go beyond this level.

### To learn more

To learn more about the L180 tape library and how it can help you calm the chaos in your storage environment, talk to your StorageTek representative or visit [www.storagetek.com](http://www.storagetek.com).



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## L180 tape library specifications

### Performance

Throughput per hour, native (uncompressed)	(maximum configurations)
	T9840A (6 drives, 10 MB/sec) – 216 GB/hr
	T9840B (6 drives, 19 MB/sec) – 410.4 GB/hr
	T9840C (6 drives, 30 MB/sec) – 648 GB/hr
	T9940B (6 drives, 30 MB/sec) – 648 GB/hr
	LTO Ultrium Generation 1 (10 drives, 15 MB/sec) – 540 GB/hr
	LTO Ultrium Generation 2 (10 drives, 30–35 MB/sec) – Up to 1.26 TB/hr
	SDLT 320 (10 drives, 16 MB/sec) – 576 GB/hr
Audit time	<4 min
Average cell to drive time	4.0 sec

### Capacity

Capacity, native (uncompressed)	(maximum configurations 174 cartridges)
	T9840A (20 GB/cart) – 3.48 TB
	T9840B (20 GB/cart) – 3.48 TB
	T9840C (40 GB/cart) – 6.96 TB
	T9940B (200 GB/cart) – 34.8 TB
	LTO Ultrium Generation 1 (100 GB/cart) – 17.48 TB
	LTO Ultrium Generation 2 (200 GB/cart) – 34.8 TB
	SDLT 320 (160 GB/cart) – 27.84 TB
Number of cartridge slots	84, 140, 174 plus six slots for diagnostic/cleaning cartridges
Number of tape drives/types	1–6 T9840 or T9940 drives 1–10 LTO Ultrium Generation 1 and 2, SDLT 220 and 320
Cartridge access port (CAP)	Standard, 10 cartridge capacity Two 5-cartridge removable magazines

### Availability

Mean exchanges/swaps between failure (MEBF/MSBF)	2,000,000
Mean time between failures (MTBF)	360,000 hr (full operation)
Mean time to repair (MTTR)	<30 min
Non-disruptive serviceability	Hot-swappable drives with power supply and fan, plus Ethernet and serial ports for diagnostics and reporting. Optional universal power supply.

### Compatibility

Supported host platforms	UNIX, Windows NT, Novell, Linux
Robotics control interfaces	LVD or HVD SCSI and option of an external FC router
Any Cartridge Any Slot™ technology	Simultaneous non-partitioned support of multiple tape and media types

### Management

Library Admin software	Advanced reporting monitoring and notification of the library (optional)
Library Manager software	Remote management and true library sharing between applications within a network (optional)
Framework Library Monitor software	Host-based and over SCSI. Allows the library to be centrally viewable via a framework application. (i.e. Computer Associates Unicenter, Hewlett-Packard OpenView, Tivoli NetView) (optional)
SNMP	Embedded SNMP agent that enables remote reporting, monitoring and notification via standard Ethernet connection
Digital vision system	Unique digital vision camera system performs continuous calibration and reads bar codes
Operator panel	User-friendly configuration and diagnostic controls, status display and viewing window
Automatic clean	Dedicated cleaning cartridge slot for tape drive cleaning by library or software command
Automatic self discovery	Self-configuring for cells, drives and CAPs
Continuous automation calibration	No periodic maintenance or alignment required

### Mechanical

Library	
Height	65.1 in (165.4 cm)
Depth	49.3 in (125.2 cm)
Width	28.3 in (71.9 cm)
Unit height	6u* of standard 19 inch rack
Weight	635.0 lb (288.0 kg)

### Environmental

Temperature	
Operating	+59° to +90° F (+15° to +32° C)
Non-operating	+50° to +104° F (+10° to +40° C)
Relative humidity	
Operating	20%–80%
Non-operating	10%–95%

### Power

Voltage	100–127 VAC, 200–240 VAC @ 50–60 Hz single phase (auto-ranging)
Library (operating maximum continuous — not peak)	1.0 A @ 120 V, 0.5 A @ 240 V, 410 BTU/hr
Drives	Drive power consumption varies. Refer to individual drive specifications

### Regulatory compliance

Electromagnetic compatibility	FCC (47 CFR 15, Subpart B) Class A CE (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3)VCCI (CISPR 22) Class A Canada (ICES-003) Class A
Safety	UL 1950; CAN/CSA 22.2 No. 950; EN60950

\* Rack space is measured in height and expressed as a u. One u is 1.75 in (4.45 cm) in height.



#### ABOUT STORAGETEK®

Storage Technology Corporation (NYSE: STK) is a \$2 billion global company that enables businesses, through its information lifecycle management strategy, to align the cost of storage with the value of information. The company's innovative storage solutions manage the complexity and growth of information, lower costs, improve efficiency and protect investments. For more information, visit [www.storagetek.com](http://www.storagetek.com), or call 1.800.275.4785 or 01.303.673.2800.

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