



L1400M

TAPE LIBRARY

Key benefits

Reduce risk

Boost your flexibility for managing, monitoring and controlling your tape library backup applications so you can react quickly to changing business conditions.

Reduce cost

Purchase the only capacity your business needs today and add incremental storage over time. Increase asset utilization and staff efficiency with improved management and monitoring capabilities in an integrated solution footprint.

Improve service levels

Through soft partitioning capability, you can share the L1400M with multiple applications and change partitions quickly and easily, thereby avoiding service interruptions. Tackle consolidation projects with confidence.

Improve backup success rates

Monitor your entire backup infrastructure — drives, library assets and switches — centrally from a single console. Identify reasons, such as hardware or software errors, for backup failures. Save valuable time using historical trend analysis to forecast capacity and media needs.

Simplify tape technology choices

Support multiple drive technologies and ease the transition to new tape technologies. Tune the system to your application mix, using StorageTek's high-performance T9840 and high-capacity T9940 tape drives, Super DLT and LTO Ultrium.



Keep up with evolving storage needs

Storage needs evolve constantly, and your tape library should be able to evolve with you, especially for critical applications such as backup/restore, consolidation and archive. The L1400M tape library redefines flexibility — to help you grow, adapt and manage change in larger distributed, open systems, UNIX and Windows NT environments.

With its powerful controlling, monitoring and managing software, Any Cartridge Any Slot™ technology for the L1400M tape library and proven robotics — this storage solution embraces change, so you can, too.

Boost efficiency and expandability

An evolutionary design that capitalizes on StorageTek's successful L700e tape library, the L1400M helps you expand storage capacity seamlessly with continuous capacity capability for the L1400M tape library. Buy only what you need, when you need it. Scale non-disruptively within your first library and minimize downtime when you upgrade capacity.

Reap benefits immediately

Accelerate ROI through StorageTek's implementation services. With StorageTek®, a storage pioneer for more than 30 years, you can tap into expert knowledge, skills and support to help you manage change cost effectively, year after year. To learn more, talk to your StorageTek representative or visit www.storagetek.com.

L1400M tape library specifications

Performance

Throughput per hour, native (uncompressed)	T9840A (12 drives, 10 MB/sec) – 432.0 GB/hr (single-frame)
	T9840A (24 drives, 10 MB/sec) – 864.0 GB/hr (dual-frame)
	T9840B (12 drives, 19 MB/sec) – 820.8 GB/hr (single-frame)
	T9840B (24 drives, 19 MB/sec) – 1.64 TB/hr (dual-frame)
	T9840C (12 drives, 30 MB/sec) – 1.296 TB/hr (single-frame)
	T9840C (24 drives, 30 MB/sec) – 2.592 TB/hr (dual-frame)
	T9940A (12 drives, 10 MB/sec) – 432.0 GB/hr (single-frame)
	T9940A (24 drives, 10 MB/sec) – 864.0 GB/hr (dual-frame)
	T9940B (12 drives, 30 MB/sec) – 1.296 TB/hr (single-frame)
	T9940B (24 drives, 30 MB/sec) – 2.592 TB/hr (dual-frame)
	LTO Ultrium Generation 1 (20 drives, 15 MB/sec) – 1.08 TB/hr (single-frame)
	LTO Ultrium Generation 1 (40 drives, 15 MB/sec) – 2.16 TB/hr (dual-frame)
	LTO Ultrium Generation 2 (20 drives, 30–35 MB/sec) – up to 2.52 TB/hr (single-frame)
	LTO Ultrium Generation 2 (40 drives, 30–35 MB/sec) – up to 5.04 TB/hr (dual-frame)
	SDLT 320 (20 drives, 16 MB/sec) – 1.152 TB/hr (single-frame)
	SDLT 320 (40 drives, 16 MB/sec) – 2.304 TB/hr (dual-frame)
Audit time	<4 min
Average cell to drive time	4.0 sec

Capacity

Capacity, native (uncompressed)	T9840A (20 GB/cart) – 13.56 TB (single-frame); 26.88 TB (dual-frame)
	T9840B (20 GB/cart) – 13.56 TB (single-frame); 26.88 TB (dual-frame)
	T9840C (40 GB/cart) – 27.12 TB (single-frame); 53.76 TB (dual-frame)
	T9940A (60 GB/cart) – 40.68 TB (single-frame); 80.64 TB (dual-frame)
	T9940B (200 GB/cart) – 135.6 TB (single-frame); 268.8 TB (dual-frame)
	LTO Ultrium Generation 1 (100 GB/cart) – 67.80 TB (single-frame)
	134.4 TB (dual-frame)
	LTO Ultrium Generation 2 (200 GB/cart) – 135.6 TB (single-frame)
	268.8 TB (dual-frame)
	SDLT 320 (160 GB/cart) – 108.48 TB (single-frame); 215.04 TB (dual-frame)
Number of cartridge slots	200, 300, 400, 500, 600, 678 (single-frame)
	900, 1000, 1100, 1200, 1300, 1344 (dual-frame)
Number of tape drives/types	1–12 T9840 and T9940 drives (single-frame)
	1–20 LTO 1 and 2, SDLT 220 and 320 drives or a combination (single-frame)
	1–24 T9840 and T9940 drives (dual-frame)
	1–40 LTO 1 and 2, SDLT 220 and 320 drives or a combination (dual-frame)
Cartridge access port (CAP)	Standard 20-cartridge-slot CAP. Second CAP for additional 20 cartridges optional
Pass-through-port (PTP)	2-cartridge transport mechanism (dual-frame)

Availability

Mean exchanges/swaps between failures (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	SCSI-3 media changer command set HVD (default), LVD and 2-Gb Fibre ACSLS Manager™ software or Library Manager control SCSI connection
Any Cartridge Any Slot™ technology	Simultaneous non-partitioned support of multiple tape and media types

Management

L-Series™ Library Admin software	Embedded Web-based library administration tool (optional)
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-configures the drives, slots and CAP, also identifies drive and media types
Continuous automation calibration	No periodic maintenance or alignment required

Mechanical

Library	
Height	72.0 in (182.9 cm)
Depth	37.5 in (95.3 cm)
Width	61.3 in (155.7 cm) (single-frame), 135.81 in (344.95 cm) (dual-frame)
Unit height	41.1u*
Weight	First frame 840.0 lb (381.0 kg) with expansion frame and covers plus second frame weight (single-frame) 761.0 lb (345.0 kg) without expansion frame — 840.0 lb (381.0 kg) with expansion frame and covers (dual-frame)
Pass-through-port (PTP)	
Height	7.0 in (17.8 cm) (dual-frame)
Depth	17.25 in (43.8 cm) (dual-frame)
Width	12.0 in (30.5 cm) (dual-frame)
Unit height	4u* (dual-frame)
Weight	92 lb (43 kg) (dual-frame)

Environmental

Temperature	
Operating	+59° to +90° F (+15° to +32° C)
Non-operating	+50° to +104° F (+10° to +40° C)
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)	1.75 A @ 120 V, 0.88 A @ 240 V, 716 BTU/hr
Drives	Drive power consumption varies. Refer to individual drive specifications

Regulatory compliance

Electromagnetic compatibility	FCC #47, part 15, subpart B, class A; VCCI class A European Union CE emissions standards; AS/NZS 3548; 1996 (Australia, N.Z.); ICES-003 (Canada)
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.storageitek.com, or call 1.800.275.4785 or 01.303.673.2800.

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