

StorageTek™ L700e Tape Library



Highlights

• Embrace change

The StorageTek Any Cartridge Any Slot™ technology allows the L700e tape library to handle multiple tape drive technologies, including the new enterprise StorageTek T10000, fast-access T9840, and high-capacity T9940 families of tape drives, as well as the midrange DLT, SDLT, and LTO tape drives. Multiple cartridge types are accommodated, so you never have to change tape slots, software, or robotics.

• Leverage resources

The StorageTek L700e tape library lets all your applications read and write simultaneously, and multiple applications can share its large data pool thanks to the StorageTek 4D Robotics™ technology and digital vision system.

• Manage with ease

Remote management is simplified with the StorageTek Library Manager software or StorageTek ACSLS Manager™ software. Manual intervention is eliminated through self-balancing between tape drives and cartridge activity.

• Increase availability

A native 2-gigabit Fibre Channel optical interface, combined with the StorageTek T10000, T9840, and T9940 tape drives, provide a leading-edge, all-Fibre Channel solution with dynamic worldwide naming capability.



Storage needs evolve constantly. Shouldn't your tape library do the same?

The Sun StorageTek™ L700e tape library is all about freedom — freedom to grow, to adapt, to manage change as new business challenges arise. With its scalable capacity, multiple configuration options, proven robotics, and powerful software, this is one storage solution that embraces change — so you can, too.

Exceeding enterprise expectations

The L700e delivers the performance needed in today's 24 x 7 environments using industry-leading robotic performance — 450 cartridge exchanges per hour — to keep pace with multiple host applications. The L700e tape library exceeds expectations for throughput and data access across the enterprise. It supports the highly efficient T10000, high-performance T9840, and high-capacity T9940 tape drives for high transaction-rate applications. The StorageTek Any Cartridge Any Slot™ technology also makes it easy to integrate multiple other tape drive types — including Super DLT (SDLT) and Linear Tape Open (LTO) Ultrium — and tune the system to your application mix. You can configure this library to balance capacity and performance, and customize the way you use each library module's 13 units of rack space.

With advanced features that include native 2-gigabit Fibre Channel connectivity, a Web-based monitoring interface, mixed-media support, and high availability options, the ultra-reliable L700e tape library will delight data users and protect data across the enterprise.

When you need to grow, two L700e tape libraries are connected together, expanding capacity beyond the 678-cartridge slots to a robust 1344 cartridge slots — nearly doubling overall capacity. The revolutionary L700e tape library architecture sets the standard with advanced performance, unprecedented flexibility, simplicity of management, and investment protection. As a result, the L700e architecture gives you the ability to collect, move, store, share, and protect your information and easily manage it anywhere, anytime.

Engage the storage experts

Sun StorageTek service professionals help you address storage challenges by delivering integrated services and solutions that optimize and manage storage performance over the life of your data. Our recognized, world-class service and customer care give you confidence that your technology investment is protected and that your business will be responsive to change. We can help you pinpoint opportunities to reduce

L700e Tape Library Specifications

Performance

Throughput per hour, native (uncompressed)	T10000 (12 drives, 120 MB/sec) – 5.2 TB/hr (single-frame) T10000 (24 drives, 120 MB/sec) – 10.4 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)
	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 2 (20 drives, 30–35 MB/sec) – up to 2.52 TB/hr (single-frame) LTO 2 (40 drives, 30–35 MB/sec) – up to 5.04 TB/hr (dual-frame) LTO 3 (20 drives, 80 MB/sec) – 5.75 TB/hr (single-frame) LTO 3 (40 drives, 80 MB/sec) – 11.52 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) SDLT 600 (20 drives, 36 MB/sec) – 2.59 TB/hr (single-frame) SDLT 600 (40 drives, 36 MB/sec) – 5.18 TB/hr (dual-frame)
Audit time	<4 min
Average cell to drive time	4.0 sec

Capacity

Capacity, native (uncompressed)	T10000 (500 GB/cart) – 339 TB (single-frame); 672 TB (dual-frame)
	T9840C (40 GB/cart) – 27.12 TB (single-frame); 53.76 TB (dual-frame)
	T9940B (200 GB/cart) – 135.6 TB (single-frame); 268.8 TB (dual-frame)
	LTO 2 (200 GB/cart) – 135.6 TB (single-frame); 268.8 TB (dual-frame) LTO 3 (400 GB/cart) – 271.2 TB (single-frame); 542.4 TB (dual-frame)
	SDLT 320 (160 GB/cart) – 108.48 TB (single-frame); 215.04 TB (dual-frame) SDLT 600 (300 MB/cart) – 203.4 TB (single-frame); 406.8 TB (dual-frame)
Number of cartridge slots	216, 384, 678, 882, 1050, 1344 (dual-frame required beyond 678 slots)
Number of tape drives/types	1–12 T10000, T9840, and T9940 drives (single-frame) 1–20 LTO 1, 2, and 3; SDLT 220, 320, and 600 drives; or a combination (single-frame) 1–24 T10000, T9840, and T9940 drives (dual-frame) 1–40 LTO 1, 2 and 3; SDLT 220, 320, and 600 drives; or a combination (dual-frame)
Cartridge access port (CAP)	Standard 20-cartridge-slot CAP. Second CAP for additional 20 cartridges optional – 80 CAP slots maximum
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

costs, mitigate business risk, and better leverage information assets. Our consulting and managed services offer clear and simple choices in solutions that address your regulatory concerns, complex storage growth, resource management, and scalability challenges. Covering over 125 countries, more than 2100 dedicated storage service professionals can help you gain and sustain measurable results with the reliability and flexibility that you require.

Management

StorageTek 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% to 80%
Non-operating	10% to 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.

Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA Phone 1-650-960-1300 or 1-800-555-9SUN Web sun.com

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