



L700E

TAPE LIBRARY

Key benefits

Increase capacity

A unique pass-through-port (PTP) allows two L700e tape libraries to be connected for a maximum capacity of 1,344 cartridge slots.

Embrace change

StorageTek's Any Cartridge Any Slot™ technology allows the L700e tape library to handle multiple tape drive technologies, including StorageTek's T9840 and T9940, as well as DLT, SDLT and LTO Ultrium¹ tape drives. Multiple cartridge types are accommodated, so you never have to change tape slots, software or robotics.

Leverage resources

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

Manage with ease

Remote management is simplified with StorageTek's Library Manager software or 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 StorageTek's T9840 and T9940 tape drives provides a leading-edge, all-Fibre Channel solution with dynamic worldwide naming capability.

¹LTO Ultrium tape drives are from Hewlett-Packard, IBM and Certance.



L700e tape library

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

Efficient and expansive

The L700e tape library is an evolutionary step beyond StorageTek's already successful L700 tape library. It is designed to seamlessly and cost effectively expand storage capacity as your business grows. By taking advantage of a unique pass-through-port (PTP), two L700e tape libraries can be connected into a single system, nearly doubling the single-system capacity of 678 cartridges to a maximum capacity of 1,344 cartridge slots.

Exceeding enterprise expectations

The L700e tape library exceeds expectations for throughput and data access across the enterprise. It supports StorageTek's high-performance T9840 and high-capacity T9940 tape drives for high-transaction-rate applications. StorageTek's Any Cartridge Any Slot™ technology also makes it easy to integrate multiple other tape drive types, including Super DLT from Quantum, as well as 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.

Embracing evolution

With its single- or dual-frame configuration, the L700e tape library is designed for the ever-evolving enterprise. This highly scalable, automated tape library is ideal for larger distributed, Open Systems, UNIX and Windows NT environments. And since it comes from StorageTek® — a storage pioneer for over 30 years — you're not just getting a tape library. You're also getting knowledge, skills and support to solve storage challenges and manage change, year after year.



Baseline Implementation Services

StorageTek's Implementation Services helps you achieve the full benefits of your storage solution investments — right from the start. The Baseline Implementation Services for midrange tape library base offering covers implementation of tape libraries in environments not requiring ACSLS Manager™ or Host Software Component (HSC) software. This offering provides the services to transfer knowledge to your organization.

The service includes establishing host connectivity to the library and the integration of the library into your existing backup operation including the setup of media controls. StorageTek Backup Resource Monitor™ software is installed and set up to report on your backup operation. In addition, the service includes design validation, documentation and project management.

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.

To learn more

To learn more about the L700e 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.

L700E

TAPE LIBRARY

L700e tape library specifications

Performance

	L700e (dual-frame) library	L700e (single-frame) library
Throughput per hour, native (uncompressed)	T9840A (24 drives, 10 MB/sec) — 864.0 GB/hr T9840B (24 drives, 19 MB/sec) — 1.64 TB/hr T9840C (24 drives, 30 MB/sec) — 2.592 TB/hr T9940A (24 drives, 10 MB/sec) — 864.0 GB/hr T9940B (24 drives, 30 MB/sec) — 2.592 TB/hr LTO Ultrium Generation 1 (40 drives, 15 MB/sec) — 2.16 TB/hr LTO Ultrium Generation 2 (40 drives, 30–35 MB/sec) — up to 5.04 TB/hr SDLT 320 (40 drives, 16 MB/sec) — 2.304 TB/hr	T9840A (12 drives, 10 MB/sec) — 432.0 GB/hr T9840B (12 drives, 19 MB/sec) — 820.8 GB/hr T9840C (12 drives, 30 MB/sec) — 1.296 TB/hr T9940A (12 drives, 10 MB/sec) — 432.0 GB/hr T9940B (12 drives, 30 MB/sec) — 1.296 TB/hr LTO Ultrium Generation 1 (20 drives, 15 MB/sec) — 1.08 TB/hr LTO Ultrium Generation 2 (20 drives, 30–35 MB/sec) — up to 2.52 TB/hr SDLT 320 (20 drives, 16 MB/sec) — 1.152 TB/hr
Audit time	<4 min	<4 min
Average cell to drive time	4.0 sec	4.0 sec

Capacity

Capacity, native (uncompressed)	T9840A (20 GB/cart) — 26.88 TB T9840B (20 GB/cart) — 26.88 TB T9840C (40 GB/cart) — 53.76 TB T9940A (60 GB/cart) — 80.64 TB T9940B (200 GB/cart) — 268.8 TB LTO Ultrium Generation 1 (100 GB/cart) — 134.4 TB LTO Ultrium Generation 2 (200 GB/cart) — 268.8 TB SDLT 320 (160 GB/cart) — 215.04 TB	T9840A (20 GB/cart) — 13.56 TB T9840B (20 GB/cart) — 13.56 TB T9840C (40 GB/cart) — 27.12 TB T9940A (60 GB/cart) — 40.68 TB T9940B (200 GB/cart) — 135.6 TB LTO Ultrium Generation 1 (100 GB/cart) — 67.80 TB LTO Ultrium Generation 2 (200 GB/cart) — 135.6 TB SDLT 320 (160 GB/cart) — 108.48 TB
Number of cartridge slots	216, 384, 678, 882, 1,050, 1,344 (dual-frame)	216, 384, 678 (single-frame)
Number of tape drives/types	1–24 T9840 and T9940 drives 1–40 LTO 1 and 2, SDLT 220 and 320 drives or a combination	1–12 T9840 and T9940 drives 1–20 LTO 1 and 2, SDLT 220 and 320 drives or a combination
Cartridge access port (CAP)	Standard 20-cartridge-slot CAP. Second CAP for additional 20 cartridges optional	Standard 20-cartridge-slot CAP. Second CAP for additional 20 cartridges optional
Pass-through-port (PTP)	2-cartridge transport mechanism	

Availability

Mean exchanges/swaps between failures (MEBF/MSBF)	2,000,000	2,000,000
Mean time between failures (MTBF)	360,000 hr (full operation)	360,000 hr (full operation)
Mean time to repair (MTTR)	<30 min	<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.	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	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	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	Simultaneous non-partitioned support of multiple tape and media types

L700e tape library specifications (cont'd)

Management

	L700e (dual-frame) library	L700e (single-frame) library
Library Admin software	Embedded Web-based library administration tool (optional)	Embedded Web-based library administration tool (optional)
Digital vision system	Unique digital vision camera system performs continuous calibration and reads bar codes	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	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	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	Self-configures the drives, slots and CAP. Also identifies drive and media types
Continuous automation calibration	No periodic maintenance or alignment required	No periodic maintenance or alignment required

Mechanical

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

Environmental

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

Power

Voltage	100–127 VAC, 200–240 VAC @ 50–60 Hz single phase (auto-ranging)	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	1.75 A @ 120 V, 0.88 A @ 240 V, 716 BTU/hr
Drives	Drive power consumption varies. Refer to individual drive specifications	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)	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	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, or call 1.800.275.4785 or 01.303.673.2800.

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