



StorageTek® L700e Tape Library

KEY BUSINESS BENEFITS

With the StorageTek® L700e tape library, your business will benefit from:

Increased storage capacity – A unique Pass Through Port enables you to connect two StorageTek L700e tape libraries, allowing expansion beyond the current 678 cartridge slot capacity to 1,344 cartridge slots – essentially doubling your capacity.

Unparalleled flexibility – StorageTek's Adaptive Media Technology allows the scalable L700e tape library to handle multiple tape drive technologies, including StorageTek's T9840 and T9940, as well as DLT, SDLT and LTO Ultrium technologies. This capability accommodates multiple cartridge types, so you never have to change tape slots, software or robotics.

Powerful performance – 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™ and Digital Vision System.

Unlimited access – The L700e tape library has a native Fibre Channel optical interface. Combine it with StorageTek's native Fibre Channel T9840 and T9940 tape drives for a leading-edge, all-Fibre solution.

Remote management capabilities – Effective library management is performed through a choice of StorageTek Library Manager or ACSLS™. Manual intervention is eliminated through self-balancing between tape drives and cartridge activity.

THE 'e' IS FOR EFFICIENT, EFFECTIVE AND EVOLUTIONARY

The StorageTek® L700e tape library is an evolutionary step beyond the already successful StorageTek L700 tape library. It is designed so that you can seamlessly, cost-effectively increase storage capacity as your business grows. By taking advantage of a unique Pass Through Port (PTP), two StorageTek L700e tape libraries can be connected, allowing expansion beyond the current 678 cartridge slot capacity and essentially doubling your storage.

For high transaction rate applications, the L700e tape library supports the StorageTek high-performance T9840 and high-capacity T9940 tape drives. You may also integrate DLT, SDLT and LTO Ultrium tape drives and tune the system to your application mix.

Using StorageTek's Adaptive Media Technology, each L700e tape library can handle multiple tape drive types, including StorageTek's T9840 and T9940, as well as DLT, SDLT and LTO Ultrium. In addition, you can balance capacity and performance needs across the dual L700e tape library configuration for a more efficient, effective solution. Customize your library's configuration further by utilizing the 13 units of rack space provided in each StorageTek L700e tape library.

With advanced features including native Fibre Channel connectivity, a web-based monitoring interface, mixed media support and high availability options, the StorageTek L700e tape library is the most reliable, flexible, high-performance tape library in its class. It's *the* reliable choice for the safety of your data.



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L700e tape library specifications

Functional data

Number of cartridge slots	216, 384, 678 (single frame) Up to 1344 (dual frame) Plus 12 slots for diagnostic and cleaning cartridges	
Number of tape drives/types	Single frame: One to twelve T9840 and T9940 tape drives One to twenty LTO Ultrium, SDLT, and DLT 8000 tape drives	Dual frame: One to twenty-four T9840 and T9940 tape drives One to forty LTO Ultrium, SDLT, and DLT 8000 tape drives

Capacity and performance

Capacity, native (uncompressed) (maximum configurations)	Single frame (678 cartridges): T9840A (20 GB/cart) – 13.56 TB T9840B (20 GB/cart) – 13.56 TB T9940A (60 GB/cart) – 40.68 TB LTO Ultrium (100 GB/cart) – 67.8 TB SDLT (110 GB/cart) – 74.58 TB DLT 8000 (40 GB/cart) – 27.12 TB	Dual frame (1344 cartridges): T9840A (20 GB/cart) – 26.88 TB T9840B (20 GB/cart) – 26.88 TB T9940A (60 GB/cart) – 80.64 TB LTO Ultrium (100 GB/cart) – 134.4 TB SDLT (110 GB/cart) – 147.84 TB DLT 8000 (40 GB/cart) – 53.76 TB
Throughput per hour, native (uncompressed) (maximum configurations)	Single frame: T9840A (12 drives, 10 MB/sec) – 432 GB/hr T9840B (12 drives, 19 MB/sec) – 820.8 GB/hr T9940A (12 drives, 10 MB/sec) – 432 GB/hr LTO Ultrium (20 drives, 15 MB/sec) – 1.08 TB/hr SDLT (20 drives, 11 MB/sec) – 792 GB/hr DLT 8000 (20 drives, 6 MB/sec) – 432 GB/hr	Dual frame: T9840A (24 drives, 10 MB/sec) – 864 GB/hr T9840B (24 drives, 19 MB/sec) – 1.64 TB/hr T9940A (24 drives, 10 MB/sec) – 864 GB/hr LTO Ultrium (40 drives, 15 MB/sec) – 2.16 TB/hr SDLT (40 drives, 11 MB/sec) – 1.58 TB/hr DLT 8000 (40 drives, 6 MB/sec) – 864 GB/hr

Library features/hardware

Cartridge Access Port (CAP)	Standard, 20-cartridge capacity; second CAP for additional 20 cartridges optional
Digital vision system	Unique digital vision system performs continuous calibration and reads bar codes
Operator panel	User-friendly configuration and diagnostic controls, status display, viewing window
Pass Through Port (PTP)	2-cartridge transport mechanism

Library product/performance enhancements

Average cell to drive time	4 sec
Audit time	Less than 4 minutes
AutoClean	Library or software-initiated tape drive cleaning uses the dedicated cleaning cartridge slot
Automatic self discovery	Self configuring for cells, tape drives and CAPs
Continuous automation calibration	No periodic maintenance or alignment required
L-Series Library Admin	Optional embedded web-based library administration tool
Maintenance	No periodic maintenance required
Media management	Adaptive Media Technology provides non-partitioned full, mixed-media capabilities
Non-disruptive serviceability	Hot-swappable drives, redundant power supplies and fans, serial port and Ethernet port for diagnostics, optional Universal Power Supply (UPS)
Robotics control interfaces	SCSI-3 media changer command set HVD (default), LVD and Fibre Channel ACSLs or StorageTek Library Manager control SCSI connection

Reliability

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)	Less than 30 min

Physical data

Dimensions (W x H x D)	
Library	61.3 in x 72.0 in x 37.5 in (155.7 cm x 184.6 cm x 95.3 cm) 44.1 in (112 cm) depth with capacity expansion frame 30.3 in (76.96 cm) depth without covers or expansion frame
Pass Through Port (PTP)	12.0 in x 72.0 in x 17.25 in (30.48 cm x 184.6 cm x 43.82 cm)
Weight	
Library	761 lb (345 kg) 840 lb (381 kg) with expansion frame and covers
Pass Through Port (PTP)	92 lb (43 kg)
Rack Space	13 u* of standard 19 in rack space

Environmental data

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

Power source

Power input	100-127VAC, 200-240VAC @ 50-60 Hz single phase (auto-ranging)
Power consumption	
Library	1.75A @ 120VAC, 0.88A @ 240VAC, 716 BTU/hr
Tape drives	Drive power consumption varies. Refer to individual drive specification sheets.

Agency certifications

Safety	CSA standard CAN/CSAC22.2, no. 950-95; UL Listed to UL 1950, 3rd Edition; GS licensed to EN 60950, 2nd Edition, 1991 + A1, A2, A3, A4; Nemko, Semko, Demko, Finko certified to EN 60950 (1992) A1/A2/A3/A4/A11, EMKO-TSE (74-SEC) 207/94; CB test certified
Emissions	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)
Immunity	European Union CE immunity standards

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



About StorageTek®

StorageTek® (NYSE:STK), a \$2 billion worldwide company with headquarters in Louisville, Colo., delivers a broad range of storage solutions for digitized data. StorageTek solutions are easy to manage and allow universal access to data across servers, media types and storage networks. StorageTek is the innovator and global leader in virtual storage solutions for tape automation, disk storage systems and storage networking. Because of StorageTek, customers can manage and leverage their digital assets as their businesses grow, and can maximize IT productivity to ensure enterprise-class business continuity. For more information, see www.storageitek.com or call 1.800.786.7835.

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