



STREAMLINE™

SL8500

MODULAR LIBRARY SYSTEM

Key benefits

Consolidate data

With extreme scalability and support for mixed media and diverse operating environments, the StreamLine SL8500 modular library system is ideal for consolidating many smaller libraries into one high-performance system.

Share resources

The SL8500 library system is designed to work well in mainframe, supercomputing, UNIX, Linux and Windows environments. It supports the enterprise T9840 and T9940 lines of tape drives, along with Linear Tape Open (LTO) Ultrium and Super DLT (SDLT) tape drives.

Increase availability

The SL8500 can be upgraded with additional drives and cartridge slots, without the need for system downtime. Redundant, hot-swappable robotics, power and electronic components maximize your system availability.

Increase throughput

High-performance robotics let the SL8500 modular library help you keep pace with unpredictable workload spikes and future throughput needs.

Grow with ease

The SL8500 modular library can scale from 1,448 slots to more than 300,000 slots — easily handling years of explosive growth in your storage requirements.

Save space

With its extremely high slot density, the SL8500 offers a lot of storage in a very small footprint. Make the most of your current data center.



StreamLine™ SL8500 modular library system

If your storage requirements are rapidly outpacing your IT budget, you probably need to simplify your data access strategy while holding the line on staff. Today, the StreamLine™ SL8500 modular library system is the foundation of many such strategies. And as you'd expect, it's from the experts at StorageTek®, the global leader in scalable storage solutions. With the SL8500, your organization can streamline its operations while maximizing availability and compliance — all with minimal cost and disruption, but with a maximum of security and flexibility.

The SL8500 modular library can accommodate growth up to 120 petabytes, making it an extremely flexible and compact option for intelligent archiving of vital corporate information. Perhaps that's no surprise, since StorageTek protects and manages more data than anyone else in the world.

Consolidation made easy

The SL8500 library system is the first offering in StorageTek's latest family of data protection and archive solutions. It provides broad support for mixed-media environments, along with the interfaces needed to consolidate and manage enterprise computing infrastructures.

Consolidation is even simpler, as different backup applications can seamlessly share the SL8500 modular library system. Plus, StorageTek's Any Cartridge Any Slot™ technology simplifies mixed-media access, since no hard partitions are required to support the different media types.



Reliability, availability, serviceability

There's no time for downtime in your demanding storage environment — especially for those unexpected outages that threaten business continuity. The SL8500 modular library system reduces this threat with a sophisticated new architecture that offers hot-swappable and fully redundant components, including multiple robots, designed to help keep your library system up and running.

With the StreamLine SL8500 modular library system, you can add additional redundant components to achieve your desired level of availability. RealTime Growth™ capability for the StreamLine library system lets you easily add slots and tape drives — all without scheduling downtime. The SL8500 will grow and adapt to your changing needs, now and for years to come.

Easy management

Library Console™ software for the StreamLine library system makes the SL8500 easy to manage and monitor via a remote, network-based operator panel or an optional local touch-screen operator panel. All of the basic functions available on the local operator panel are also available remotely via the Ethernet-based remote interface.

With its outstanding performance, excellent scalability and superior reliability, the SL8500 modular library system truly can simplify your access to vital information. This fully integrated and automated library has set new and higher standards of excellence for enterprise tape systems around the world.

Data protection and archiving

This modular library system was designed to handle enterprise requirements for high-performance, high-reliability backup and intelligent archiving, in both open systems and mainframe environments. Its fast robotics handle unpredictable peak workloads with ease, and the system also lets you add slots and drives for increased capacity and throughput, without any downtime requirements.

Backup consolidation

The SL8500 is an ideal solution for consolidating data from backup operations. Its seamless support for mixed media in heterogeneous environments give you the ability to share the library across servers, applications and media types, without the need for partition management.

Options

- RealTime Growth™ capability
- Redundant robotics
- N+1 or 2N power
- Redundant electronics
- One or two 39-cartridge cartridge access ports (CAPs)
- Touch-screen operator panel
- Remote monitoring



Interior photo of StreamLine SL8500 modular library system

STREAMLINE™ SL8500 MODULAR LIBRARY SYSTEM

- Integrated with Virtual Storage Manager® (VSM®) Open solution to provide:
 - Sharing of drives
 - Improved backup reliability
 - Transparent migration of drive types
 - Automated media migration
 - Automation of other manual processes, such as multiple copies and remote copies

Strong support

StorageTek's Professional Services team can help you improve your current infrastructure with a StreamLine SL8500 library deployment that includes assessment, design, implementation and migration services. Training, support and other SL8500 services are also available worldwide from our certified partners. Financing and leasing programs are available through StorageTek Financial Services Corporation.

Baseline Implementation Services

Achieve the full benefits of your storage solution investment, right from the start, with our Baseline Implementation Services for enterprise-class tape library systems:

- StreamLine SL8500 modular library systems operating in:
 - OS/390 environments requiring Host Software Component (HSC) software
 - Open systems environments requiring ACSLS Manager™ software
- Existing library environments that require reconfigured HSC software or ACSLS Manager software in order to add an additional library

This service covers the installation and configuration/reconfiguration of library software, testing of library software utilities, as well as the operational tuning of the library in your environment. StorageTek also offers design validation, testing, documentation, project management and knowledge transfer.

Custom Implementation Services

StorageTek's Custom Implementation Services can help provide a seamless migration of your existing tape environment to a StorageTek enterprise-class SL8500 library. These services are custom-tailored to maximize interoperability, functionality and availability of your new and existing storage assets.

Learn more

As a first step, we'd like to learn more about your needs, so we can propose a vendor-neutral, "best-of-breed" system that fits your exact requirements. We'll sit down with you and share our 35 years of industry experience in order to help you identify the best possible storage solution for your particular business challenges.

To learn more about StorageTek — or how the StreamLine SL8500 modular library system can help simplify your data access and management — please contact your StorageTek representative or visit www.storagetek.com.

StreamLine™ SL8500 modular library system specifications

Performance	SL8500 (min config) modular library system	SL8500 (max config of 32 libraries) modular library system
Throughput per hour, native (uncompressed)	T9840C (64 drives, 30 MB/sec) – 6.9 TB/hr T9840B (64 drives, 19 MB/sec) – 4.4 TB/hr T9840A (64 drives, 10 MB/sec) – 2.3 TB/hr T9940B (64 drives, 30 MB/sec) – 6.9 TB/hr LTO Gen 2 (64 drives, 30–35 MB/sec) – up to 8.1 TB/hr LTO Gen 3 (64 drives, 80 MB/sec) – 18.4 TB/hr SDLT 600 (64 drives, 36 MB/sec) – 8.3 TB/hr	T9840C (2,048 drives, 30 MB/sec) – 221 TB/hr T9840B (2,048 drives, 19 MB/sec) – 140 TB/hr T9840A (2,048 drives, 10 MB/sec) – 74 TB/hr T9940B (2,048 drives, 30 MB/sec) – 221 TB/hr LTO Gen 2 (2,048 drives, 30–35 MB/sec) – up to 258 TB/hr LTO Gen 3 (2,048 drives, 80 MB/sec) – up to 590 TB/hr SDLT 600 (2,048 drives, 36 MB/sec) – 265 TB/hr
Audit time	<60 min	<60 min
Average cell to drive time	5 sec	5 sec

Capacity

Capacity, native (uncompressed)	T9840C (1,448 carts, 40 GB/cart) – 58 TB T9840B (1,448 carts, 20 GB/cart) – 29 TB T9840A (1,448 carts, 20 GB/cart) – 29 TB T9940B (1,448 carts, 200 GB/cart) – 290 TB LTO Gen 2 (1,448 carts, 200 GB/cart) – 290 TB LTO Gen 3 (1,448 carts, 400 GB/cart) – 579 TB SDLT 600 (1,448 carts, 300 GB/cart) – 434 TB	T9840C (300,000 carts, 40 GB/cart) – 12 PB T9840B (300,000 carts, 20 GB/cart) – 6 PB T9840A (300,000 carts, 20 GB/cart) – 6 PB T9940B (300,000 carts, 200 GB/cart) – 60 PB LTO Gen 2 (300,000 carts, 200 GB/cart) – 60 PB LTO Gen 3 (300,000 carts, 400 GB/cart) – 120 PB SDLT 600 (300,000 carts, 300 GB/cart) – 90 PB
Number of cartridge slots	Starts at 1,448 customer-usable slots	300,000 customer-usable slots
Number of tape drives/types	Up to 64 drives of any combination of supported drives, including: T9840 ESCON, Fibre Channel and FICON, T9940 ESCON, Fibre Channel and FICON, LTO Ultrium Gen Fibre Channel, SDLT Fibre Channel	Up to 2,048 drives of any combination of supported drives, including: T9840 ESCON, Fibre Channel and FICON, T9940 ESCON, Fibre Channel and FICON, LTO Ultrium Gen Fibre Channel, SDLT Fibre Channel
Cartridge access port (CAP)	Standard 39-cartridge slot CAP, optional 39 additional slots (78 total)	Up to 2,496 cartridge slots

Availability

Mean exchanges/swaps between failure 2,000,000 per robot	
Non-disruptive serviceability	Standard N+1 power for drives, robotics and library electronics that can be replaced while the library is operating.

Compatibility

Supported host platforms	All major operating systems
Robotics control interfaces	TCP/IP (IEEE 802.3, 100 baseT, half-duplex)
Any Cartridge Any Slot™ technology	Both minimum and maximum configurations support full mixed media, any cartridge can be placed in any cell, no required partitions

Management

Digital vision system	Unique digital vision camera system performs continuous calibration and reads bar codes
Operator panel	Standard Web-accessible monitoring and control
Automatic clean	Additional dedicated cleaning cartridge slots are included for tape drive cleaning for multiple drive types by library or software command
Automatic self-discovery	Auto-discovery and auto-configuration for all drive, media types, slots and CAP
Continuous automation calibration	No periodic maintenance or alignment required

Mechanical

Library		
Height	93.15 in (236.6 cm)	93.15 in (236.6 cm)
Depth	109 in (276.9 cm)	296.5 in (753.0 cm)
Width	67.3 in (170.81 cm)	2,338 in (5938.0 cm)
Weight (library only)	4,309 lb (1,954 kg)	247,830 lb (112,423 kg)

Environmental

Temperature (operating)	+60° to +90° F (+16° to +32° C)
Temperature (non-operating)	+40° to +90° F (+4° to +32° C)
Relative humidity (operating)	20% to 80%
Relative humidity (non-operating)	20% to 80%

Power

Voltage	Choice of 220–240 VAC @ 50–60 Hz single phase or three phase (Delta, Wye or SUVA) — optional redundant inputs of any of the above.
Drives	Drive power consumption varies (refer to individual drive specifications).
Power consumption/dissipation	Varies by configuration

Regulatory compliance

Safety	UL 1950; CAN/CSA 22.2 No. 950; EN60950
Emissions	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
Immunity	European Union CE immunity standards (CISPR24/EN55024)



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.

WORLD HEADQUARTERS

Storage Technology Corporation
One StorageTek Drive
Louisville, Colorado 80028 USA
1.800.877.9220 or 01.303.673.5151

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