

StorageTek SL8500 library

The StreamLine™ SL8500 modular library system provide advanced solutions for data protection and archiving. With its true mixed-media support and interfaces and its many continuous-operation features, the SL8500 library system is ideal for consolidating enterprise and midrange computing infrastructures.

The SL8500 library can be connected to GCOS 8 and open environments.

For enterprises around the world, data is growing exponentially while IT budgets are tight.

To calm the chaos brought by these dual challenges, organization needs to identify new ways to manage data growth without adding IT resources.

The answer is the StreamLine™ SL8500 modular library system. It makes enterprise tape easier to manage, share and grow.

Benefits

Consolidate

With its extreme scalability, support for mixed media and diverse operating environments, the SL8500 modular library system is ideal for the consolidation of many smaller libraries.

Increase throughput

High-performance robotics enable the library system to keep pace with the unpredictable peak workloads, as well as future demands for higher throughput as data continues to grow rapidly.

Grow with ease

The SL8500 library system scales from 1,448 to 6,500 useable slots and from 4 to 64 drives to accommodate years of growth in your storage environment.

Save space

With extremely high slot density, the SL8500 library system makes maximum use of the floor space in your data center.

Standard features

Mixed-drive support

The SL8500 library system supports StorageTek 9840 and 9940 tape drives as well as mid-range LTO Ultrium (open systems only).

Share resources

The SL8500 library system attaches to GCOS 8 and open environments. It can be shared across different backup applications.

High availability

The sophisticated new StreamLine architecture offers hot-swappable and fully redundant components, including multiple robots, to keep your library up and running. For even higher availability, you can add additional redundant components.

Remote management

The library system can be managed and monitored via a remote, network-based operator panel or an optional local touch-screen operator panel.

Options

- Capacity on demand
 - Redundant robotics
 - N+1 or 2N power
 - Touch-screen operator panel
 - Web-based monitoring
 - Open solution to provide:
 - Sharing of drives
 - Improved backup reliability
 - Transparent migration of drive tapes
 - Automated media migration
- Automation of other manual tasks, such as multiple copies, remote copies, etc.



- Capacity
- Expandability
- Performance
- High availability

Technical specifications

SL8500 library

Performance	SL8500 library with 16 drives	SL8500 library with 64 drives
Throughput per hour, native (uncompressed)	9840C (30 MB/sec): 1.7 TB/hr 9840B (19 MB/sec): 1.0 TB/hr 9840A (10 MB/sec): 0.5 TB/hr 9940B (30 MB/sec): 1.7 TB/hr LTO Ultrium Gener. 2 (30-35 MB/sec): up to 2.0 TB/hr	9840C (30 MB/sec): 6.9 TB/hr 9840B (19 MB/sec): 4.4 TB/hr 9840A (10 MB/sec): 2.3 TB/hr 9940B (30 MB/sec): 6.9 TB/hr LTO Ultrium Gener. 2 (30-35 MB/sec): up to 8.1 TB/hr
Audit time	<60 min	<60 min
Average cell to drive time	6.25 sec	6.25 sec

Capacity	SL8500 library with 1,448 cartridges	SL8500 library with 6,500 cartridges
Capacity native (uncompressed)	9840C (40 GB/cartridge): 58 TB 9840B (20 GB/cartridge): 29 TB 9840A (20 GB/cartridge): 29 TB 9940B (200 GB/cartridge): 290 TB LTO Ultrium Generation 2 (200 GB/cart.): 290 TB	9840C (40 GB/cartridge): 260 TB 9840B (20 GB/cartridge): 130 TB 9840A (20 GB/cartridge): 130 TB 9940B (200 GB/cartridge): 1,300 TB LTO Ultrium Generation 2 (200 GB/cart.): 1,300 TB
Types of drives	9840 ESCON and Fibre Channel 9940 Fibre Channel, LTO Ultrium Generation 2 Fibre Channel (open systems only)	9840 ESCON and Fibre Channel 9940 Fibre Channel LTO Ultrium Generation 2 Fibre Channel (open systems only)
Cartridge access port (CAP)	Standard 39 cartridge slot CAP	Standard 39 cartridge slot CAP
Mechanical		
Height	236.6 cm (93.15 in)	236.6 cm (93.15 in)
Length	276.23 cm (108.75 in)	562.6 cm (221.5 in)
Width	170.8 cm (67.25 in)	170.8 cm (67.25 in)
Weight	1954 kg (4309 lb)	5250 kg (11575 lb)

Environmental	SL8500 library
Temperature (operating)	+60° to +90° F (+16° to +32° C)
Temperature (non-operating)	+40° to +90° F (+4° to +32° C)
Relative humidity (operating and non-operating)	20%-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
Availability	
Mean exchanges/ swaps between failure (MEBF/MSBF)	2,000,000
Non-disruptive serviceability	Standard N+1 power for drives, robotics and library electronics that can be replaced while the library is operating
Compatibility	
Robotics control interfaces	TCP/IP (IEEE 802.3, 100 baseT, half-duplex)
Management	
Media management	Full mixed media, any cartridge can be placed in any cell, no required partitions
Operator panel	Standard web-accessible monitoring and control
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

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