StorageTek StreamLine™ SL500
Modular Library System

STORAGETEK™

Highlights

- **Affordable and scalable.** Start with the capacity you need and add cartridge slots or drive bays cost-effectively as your data volumes grow, up to 575 LTO slots or 18 tape drives.

- **Reliable expansion.** The Sun StorageTek StreamLine SL500 modular library system easily scales in capacity and performance without decreasing reliability to meet changing requirements in your data center.

- **Lower administrative costs.** The enhanced remote management software enables you to manage the library from just about anywhere in the world.

- **Investment protection.** The SAN-ready native Fibre Channel interface enables cost-effective resource sharing and eliminates the need for additional router equipment.

> As data volumes continue to grow, backup windows continue to shrink — so most storage libraries in midrange backup environments quickly hit their capacity and performance limits. The Sun StorageTek StreamLine™ SL500 modular library system addresses these challenges with the most scalable rack mounted tape automation solution in the market today. You can start with a cost-effective configuration that meets your current backup requirements and add modules as necessary without increasing administrative complexity or reducing reliability.

Genuine scalability and fast, reliable backups

The modular, flexible SL500 scales from 30 cartridge slots to 575 slots with a capacity of more than 200 terabytes of uncompressed data. It accommodates up to 18 tape drives with an uncompressed data throughput of more than 5 terabytes per hour. This gives you the performance you need for the shrinking backup windows in your high-availability environments. The expandable drive capacity and use of the latest Linear Tape Open (LTO) tape drive technology are also ideal for critical server applications with fast rates of data growth, such as e-mail servers, database applications, and enterprise file servers.

Space saving

The rack mountable approach and dense cartridge slot design make the SL500 modular library system a good fit in environments where space is at a premium. You can configure a stand-alone tape automation rack or combine the SL500 in a rack with servers and disk storage arrays.

Investment protection

The SL500 expands to higher slot count and drive counts using the same robotics and library automation architecture. You can add capacity with simple library upgrades, extending the useful life of the equipment and preserving your investment. In addition, standard interfaces and the StorageTek library control software enable you to easily share resources by connecting to other devices across multiple Windows, UNIX®, or Linux environments.

The fast streaming performance and larger cartridge storage sizes make the SL500 an ideal choice for a wide range of backup environments, from small remote sites to corporate data centers. The SL500 modular library system gives you a very adaptable platform that can accommodate your current and future storage consolidation and data protection needs.

Sun microsystems

Baseline Implementation services

Sun's StorageTek Implementation services help customers achieve the full benefits of their storage solution investments — right from the start. These services include establishing host connectivity to the library and the integration of the library into the customer's existing backup operation, including the setup of media controls. This offering provides the services to transfer knowledge to the customer's organization.

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 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.

Learn more

As a first step, we'd like to learn more about your needs, so we can propose a scalable, yet affordable, system that fits your requirements. To learn more about Sun — or the StreamLine SL500 modular library system — please contact your Sun representative or visit www.sun.com/storagetek.

StreamLine SL500 Modular Library System Specifications

Performance

Throughput per hour, native (uncompressed)	(maximum configuration) LTO 2 (18 drives; 30–35 MB/sec) — over 2 TB/hr
	(maximum configuration) LTO 3 (18 drives; 68–80 MB/sec) — over 5 TB/hr
	SDLT 320 (18 drives; 16 MB/sec) — over 1 TB/hr
	SDLT 600 (18 drives; 36 MB/sec) — over 2 TB/hr

Capacity

Capacity, native (uncompressed)	(maximum configuration 575 cartridges; mixed media maximum configuration 494 cartridges)
	LTO 2 (200 GB/cart) — 115 TB
	LTO 3 (400 GB/cart) — 230 TB
	SDLT 320 (160 GB/cart) — 79 TB
	SDLT 600 (300 GB/cart) — 148 TB
Number of cartridge slots	30–575 slots; 24-494 slots mixed media
	Base module: 30 LTO cartridge slots; 24 slots mixed media
	Cartridge expansion module: 120 additional LTO cartridge slots; 113 additional slots mixed media (without CAP)
Number of tape drives/types	1–18 LTO 2; LTO 3, SDLT 320 or SDLT 600 Drive expansion module: 4 drives, LTO or SDLT
Cartridge access port (CAP)*	Base module, 5-cartridge capacity (LTO only); 4-cartridge capacity (mixed media)

Availability

Mean exchanges/swaps between failure (MEBF/MSBF)	2,000,000
Mean time to repair (MTTR)	<30 min
Non-disruptive serviceability	Hot-swappable drives, Ethernet and serial ports for diagnostics and reporting. Redundant hot-swappable power supplies with redundant fans

Compatibility

Supported host platform	UNIX, Windows, Linux
Robotics control interfaces	Robotics control interfaces Small Computer System Interface (SCSI) -3 Media Changer command set: low-voltage differential (LVD) or 2-Gb Fibre Channel
Any Cartridge Any Slot™ technology	Simultaneous non-partitioned support of multiple tape and media types

Management

Digital vision system	Unique digital vision camera system that performs continuous calibration and reads bar codes
Operator panel	Optional user-friendly configuration and diagnostic controls, status display and viewing window
Automatic clean	Configurable cleaning cartridge slot for tape drive cleaning by library or software command
Automatic self-discovery	Self-configuring for cells, drives, and cartridge access ports
Continuous automation calibration	No periodic maintenance or alignment required

Mechanical

Base module	(Minimum configuration)
Height	14.0 in. (35.6 cm)
Depth	33.14 in. (81.1 cm)
Width	18.9 in. (48.0 cm)
Unit height	8u**
Weight	76.4 lb (34.56 kg)
Drive expansion module	
Height	14.0 in. (35.6 cm)
Depth	33.14 in. (81.1 cm)
Width	18.9 in. (48.0 cm)
Unit height	8u**
Weight	59.0 lb (26.9 kg)
Cartridge expansion module	
Height	14.0 in. (35.6 cm)
Depth	31.62 in. (80.3 cm)
Width	18.9 in. (48.0 cm)
Unit height	8u**
Weight	44.2 lb (20.1 kg)

Environmental

Temperature	
Operating	+50° to +104° F (+10° to 40° C)
Non-operating	+50° to +104° F (+10° to 40° C)
Relative 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)	1.42 A @ 120 V or 0.75 A @ 240 V, 614 BTU/hr
Drives	Drive power consumption varies. Refer to individual drive specifications.

Regulatory compliance

Electromagnetic compatibility	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
Safety	UL 1950 CAN/CSA 22.2 No. 950; EN60950

*CAP slots can be configured as data cartridge slots.
**Rack space is measured in height and expressed as a u. One u is 1.75 in. (4.45 cm) in height.

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