

Sun StorageTek™ SL500 Modular Library System

Scalable, rackmounted tape automation
that is ideal for growing environments



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™ SL500 modular library system addresses these challenges with one of the most scalable rackmounted tape automation solution on 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.

Highlights

- Enables you to start with the capacity you need and add cartridge slots or drives cost-effectively as your data volumes grow
- Scales in capacity and performance without decreasing reliability, to meet changing requirements in your datacenter
- Enables you to lower administration costs and to manage the library from just about anywhere in the world
- Enables cost-effective resource sharing and eliminates the need for additional router equipment through a SAN-ready native Fibre Channel interface

Genuine scalability and fast, reliable backups

The modular, flexible StorageTek SL500 modular tape library scales from 30 to 575 LTO slots, or 24 to 494 mixed media, with a maximum capacity of more than 460 terabytes of uncompressed data. It accommodates up to 18 tape drives with a maximum native data throughput of more than 7 terabytes per hour. This gives you the performance you need to handle the shrinking backup windows in your high-availability environments. The expandable drive capacity and use of the latest LTO or SDLT/DLT-S4 tape drive technology are also ideal for critical server applications with fast rates of data growth, such as email servers, database applications, and enterprise file servers.

Space saving

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

Investment protection

The StorageTek SL500 system expands to higher slot 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 Solaris™, Windows, UNIX®, or Linux environments.

The fast streaming performance and larger cartridge storage sizes make the StorageTek SL500

modular tape library system an ideal choice for a wide range of backup environments, from small remote sites to corporate datacenters. The StorageTek SL500 system gives you a very adaptable platform that can accommodate your current and future storage consolidation and data protection needs.

Engage the storage experts

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.

The SL500 modular library system is available with a Sun System Pack, sun.com/service/systempack/ratecard_sl500.html, which combines the product with support services as one optimized offering. Sun System Packs for storage go beyond the traditional warranty and include 24-hour technical support by phone, extended on-site coverage hours, Sun Vendor Integration Platform [SunVIPSM] cross vendor/platform interoperability problem management, and access to online learning resources to help you accelerate performance from day one. In short, you can get the flexible storage you want and the services you need at a price that is less than purchasing the hardware and services separately — and in some cases less than the storage product warranty.

Sun's StorageTek Implementation services, Data Migration services, and Storage Assessment can further help you achieve the full benefit of your storage investment and ensure your data is protected, properly migrated across your infrastructure, and that it can cost effectively grow with you. Covering more than 125 countries, our 2100-plus dedicated storage service professionals can help you gain and sustain measurable results with the reliability and flexibility you desire.

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 StorageTek SL500 modular library system — contact your Sun representative or visit sun.com/storagetek.

StorageTek SL500 Modular Library System Specifications

Performance

Throughput per hour, maximum native (uncompressed)	LTO 4 (18 drives, 100 MB/s) — over 7.7 TB/hr
	LTO 3 (18 drives, 68 to 80 MB/s) — over 5 TB/hr
	DLT S-4 (18 drives, 60 MB/s) — over 3.8 TB/hr
	SDLT 600 (18 drives, 36 MB/s) — over 2 TB/hr
	SDLT 320 (18 drives, 16 MB/s) — over 1 TB/hr

Capacity

Capacity, maximum native (uncompressed)	LTO 4 (800 GB/cart) — 460 TB (575 cartridges)
	LTO 3 (400 GB/cart) — 230 TB (575 cartridges)
	DLT S-4 (800 GB/cart) 395 TB (494 cartridges)
	SDLT 600 (300 GB/cart) — 148 TB (494 cartridges)
	SDLT 320 (160 GB/cart) — 79 TB (494 cartridges)

Number of cartridge slots	LTO: 30 to 575 slots
	Mixed media: 24 to 494 slots
	Base module: LTO: 30 slots Mixed media: 24 slots

Cartridge expansion module	LTO: 120 slots
	Mixed media: 113 slots

Number of tape drives/types	LTO: 1-18
	SDLT/DLT-S4: 1-18
	Mixed media: 1-18

Cartridge access port (CAP)*	Base module:
	5-cartridge capacity (LTO)
	4-cartridge capacity (mixed media)

Availability

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

Compatibility

Supported host platform Software	Solaris, UNIX, Windows, Linux Refer to the Sun StorageTek Interop Tool: extranet.storagetek.com/interop/interop
Robotics control interfaces	Robotics control interfaces Small Computer System Interface (SCSI)-3 Media Changer command set; low-voltage differential (LVD) or 4-GB Fibre Channel
Any Cartridge Any Slot technology	Simultaneous nonpartitioned 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° F to 104° F (10° C to 40° C), 20% to 80% relative humidity, noncondensing
Non-operating	-40° F to 140° F (-40° to 60° C) 10% to 95% relative humidity, noncondensing

Power

Voltage	100-127 VAC, 200-240 VAC @ 50-60 Hz single phase (autoranging)
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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