



Sun StorageTek™ SL3000 Modular Library System

Because every business grows differently



Highlights

- Gain the flexibility to scale at your own pace while paying only for the capacity you need
- Reduce costs by consolidating storage onto an eco-efficient library that can save space and power
- Simplify storage management with the industry's most flexible solution for partitioning, sharing, and managing
- Minimize risk with innovative technologies that have been proven in the most demanding enterprise environments
- Make the most of your solution and meet your needs for high data availability with the support and services you need to successfully install, optimize, and maintain your library



One thing is constant in today's business environment — change. Evolving data storage requirements can expose your business to risk and financial penalty if your solution doesn't give you the flexibility to keep up, no matter how fast data is growing. A parallel concern is the cost of people to manage the data and power to operate the storage solution.

Sun can help you stay ahead of the curve with a flexible solution that's easy to manage while it reduces environmental impact. The Sun StorageTek™ SL3000 modular library system offers an innovative, eco-efficient approach to midrange storage, giving you more choice and control in an environment that's changing at a head-spinning pace.

Designed for unfettered growth

Finally, a midrange library that offers uncompromising scalability, connectivity, and choice — key contributors to affordable growth.

The StorageTek SL3000 modular library system enables you to scale from 200 to 3000+ cartridge slots and from one to 56 tape drives in a footprint that grows linearly in a rack environment. The RealTime Growth™ capability enables you to install physical capacity in advance and tap into it incrementally, with Capacity on Demand license keys. You can grow at your pace and pay only for the capacity you need. This approach delivers seamless, non-disruptive scalability with no physical parts to install.

Because the StorageTek SL3000 modular library system doesn't dictate your choices, you're free to design storage the way you really want it. With Any Cartridge Any Slot™ technology, you can use the drive types that make sense for your access and storage needs. Choose capacity-centric StorageTek T10000 tape drives, access-centric StorageTek T9840 tape drives, or Linear Tape Open (LTO) 3 and 4 tape drives from StorageTek, HP, and IBM. The choice of Fibre Channel or FICON interfaces gives you enterprise-strength adaptability in mainframe and open systems environments.

Dollar-stretching efficiency

To help your storage dollars go further, the StorageTek SL3000 modular library system simplifies consolidation to help you save space, power, and money. Unmatched support for mixed and multiple operating environments enables you to consolidate within mainframe and open systems environments, or both. Designed to cost-effectively see your business through unpredictable growth and change, the StorageTek SL3000 modular library system is a smart storage investment.

You don't need to spend time on complicated, mind-boggling capacity planning. The StorageTek SL3000 modular library system offers time- and cost-saving features that utilize your existing equipment and seamlessly integrate with newer equipment. Features such as Any Cartridge Any Slot technology, true mixed-media support, no-restriction sharing, flexible partitioning, capacity on demand, and RealTime Growth help you operate and manage your storage environment more effectively.

Boost efficiency with the StorageTek SL3000 modular library system's unique Centerline architecture, which alleviates contention. Robots travel one-third to one-half the distance required by competitive libraries, improving cartridge-to-drive performance by up to 50 percent. And compared to competitive libraries, the StorageTek SL3000 modular library system can reduce your storage footprint by as much as 50 percent and consume up to 10 times less power*.

Easy on your staff

Lower your administrative burden with an intelligent approach to storage management. The StorageTek SL3000 modular library system offers the industry's most flexible solution for partitioning, sharing, and managing. Native physical partitioning requires no extra hardware or software. You can create up to eight partitions, assign them for mainframe and/or

open systems use, and address resources at the cartridge slot, tape drive slot, and cartridge access port levels. And Any Cartridge Any Slot technology further simplifies storage management.

StorageTek Library Console software, which comes with the StorageTek SL3000 modular library system, enables your staff to easily monitor and manage your library via a remote, network-based operator panel or an optional local, touch-screen operator panel. Either way, you maintain convenient, consistent control through software that lets you:

- Display status and reports for the library and its components, including drives, cartridges, and robots
- Locate cartridge tapes inside the library
- Perform an audit of the library
- Run diagnostic tests and load microcode

The StorageTek SL3000 modular library system can be shared across heterogeneous Solaris™, AS/400, mainframe, UNIX®, and Windows NT environments, so you can easily match the library configuration to your backup requirements. What's more, with StorageTek Virtual Tape Library and StorageTek Virtual Storage Manager, you can use your library in a virtual enterprise environment.



Aggressively risk averse

The StorageTek SL3000 modular library system keeps risk at bay with innovative technologies that have been proven in the most demanding enterprise environments. Nondisruptive, on-the-fly replacement of robotics, power supplies, and drives helps sustain 24x7 operations. In addition, many components of the SL3000 are the same as those of the StorageTek SL8500 modular library system, the enterprise standard for reliability, availability, and serviceability, including:

- Rail technology, robotic communications and design that enable easy installation, upgrades and use
- **Robotics** – TallBot™ robots and scanner technology
- **Hardware** – cartridge access ports, arrays, fans, power supplies, operator panel, and more
- **Firmware** – library code base and Library Console™ software interface
- Electronics, cards and cables
- **Real-time growth capability** – scalability without downtime

To reduce the financial and legal risk associated with data loss, Sun also offers solutions to protect data onsite, offsite, and in transit. VolSafe™ secure media technology, which provides Write-Once, Read-Many (WORM) capability, is available for the StorageTek T10000 and T9840 tape drives. VolSafe technology complies with stringent electronic storage regulatory and legal requirements.

The StorageTek SL3000 modular library system also works with the StorageTek Crypto Key Management Station (KMS), an appliance that provides a simple, centralized, scalable solution for managing the keys used to encrypt and decrypt data written by the tape drives. The platform-independent Crypto KMS complies with Federal Information Processing Standards Publications (FIPS PUBS) 140-2 and runs without regard to application, operating platform, or primary storage device.

Excellence from day one

Sun provides the support and services you need to successfully install, optimize, and maintain your StorageTek SL3000 modular library system.

In addition to professional services for assessment, design, and implementation, Sun offers training to help your staff get up to speed quickly. And to help you meet your need for high data availability, Sun offers StorageTek Service Plans that deliver proven expertise and responsive, consistent service quality.

Engage the storage experts

Sun's 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 implementation services address utilization, availability, capability planning, and management efficiency, helping you quickly realize the benefits from your investment. Our consulting and managed services offer clear and simple choices in solutions that address your regulatory concerns, complex storage growth, resource management, and scalability. Sun's dedicated storage service professionals can help you gain and sustain measurable results with the reliability and flexibility that you require.

*Library power only

Learn More.

For more information about the StorageTek SL3000 modular library system, visit sun.com/storagetek or contact your Sun sales representative.



Sun StorageTek™ SL3000 Modular Library System Specifications

	StorageTek SL3000 Modular Library System (Base Module Only)	StorageTek SL3000 Modular Library System (Large Configuration)
Performance		
Throughput per hour, native (uncompressed)	StorageTek T10000B (24 drives, 120 MB/s) – 10.4 TB/hr*	StorageTek T10000B (56 drives, 120 MB/s) – 24.2 TB/hr*
	StorageTek T10000 (24 drives, 120 MB/s) – 10.4 TB/hr	StorageTek T10000 (56 drives, 120 MB/s) – 24.2 TB/hr
	StorageTek T9840D (24 drives, 30 MB/s) – 2.6 TB/hr*	StorageTek T9840D (56 drives, 30 MB/s) – 6 TB/hr*
	StorageTek T9840C (24 drives, 30 MB/s) – 2.6 TB/hr	StorageTek T9840C (56 drives, 30 MB/s) – 6 TB/hr
	StorageTek LTO 4 (24 drives, 120 MB/s) – 10.4 TB/hr	StorageTek LTO 4 (56 drives, 120 MB/s) – 24.2 TB/hr
	StorageTek LTO 3 (24 drives, 80 MB/s) – 6.9 TB/hr	StorageTek LTO 3 (56 drives, 80 MB/s) – 16.1 TB/hr
Capacity		
Capacity, native (uncompressed)	StorageTek T10000B (300 carts, 1 TB/cart) – 343 TB*	StorageTek T10000B (3000 carts, 1 TB/cart) – 3 PB*
	StorageTek T10000 (300 carts, 500 GB/cart) – 171.5 TB	StorageTek T10000 (3000 carts, 500 GB/cart) – 1.5 PB
	StorageTek T9840D (300 carts, 75 GB/cart) – 25.7 TB*	StorageTek T9840D (3000 carts, 75 GB/cart) – 225 TB*
	StorageTek T9840C (300 carts, 40 GB/cart) – 13.7 TB	StorageTek T9840C (3000 carts, 40 GB/cart) – 120 TB
	StorageTek LTO 4 (300 carts, 800 GB/cart) – 274.4 TB	StorageTek LTO 4 (3000 carts, 800 GB/cart) – 2.4 PB
	StorageTek LTO 3 (300 carts, 400 GB/cart) – 137.2 TB	StorageTek LTO 3 (3000 carts, 400 GB/cart) – 1.2 PB
Number of cartridge slots	200 to 5925 customer-usable slots	
Number of tape drives/types	1 to 56 drives of any combination of supported drives, including StorageTek T10000 Fibre Channel and FICON; StorageTek T9840, Fibre Channel, and FICON; and LTO Fibre Channel	
Cartridge access port (CAP)	One standard, 26-slot CAP (with optional CAP on Drive and Cartridge Expansion Modules), 234-slot bulk-load CAP per optional Access Expansion Module (AEM)	
Availability		
Nondisruptive serviceability	PDU (with 2N), CAP motor and control card, cooling fans, DC Power supplies, drives, robotics (with AEM), and tape drives	
Library HW availability (with 2N power, redundant robotics and AEM)	.9999	
Compatibility		
Supported host platforms	A wide variety, including Solaris, z/OS, AS/400, AIX, HP-UX, Windows, and Linux environments. Please check with your Sun account rep for your specific environment	
Robotics control interfaces	TCP/IP (IEEE 802.3, 100 baseT, half-duplex) with HSC or ACSLS, SMC-3 media changer command set with 2 Gb Fibre Channel	
Any Cartridge Any Slot technology	Any supported cartridge type can be placed in any cell; no partitions or special drive or cartridge frames are required	
Management		
Digital vision system	Unique digital vision camera system performs continuous calibration and reads bar codes	
Operator panel	TCP/IP remote monitoring is standard	
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		
Height	77.5 in. / 1.97 m	77.5 in. / 1.97 m
Depth	48.0 in. / 122.1 cm	48.0 in. / 122.1 cm
Width	36.0 in. / 91.4 cm	181.3 in. / 460.5 cm
Weight (library only: Base, DEM, and 4 CEMs)	796 lbs / 361.1 kg	2,935 lbs / 1331.3 kg
Environmental		
Temperature (operating)	60°F to 90°F (16°C to 32°C)	
Temperature (non-operating)	40°F to 90°F (4°C to 32°C)	
Relative humidity (operating)	20 percent to 80 percent	
Relative humidity (non-operating)	20 percent to 80 percent	
Power		
Voltage	Choice of 100-127 or 200-240 VAC @ 50-60 Hz	
Drives	Drive power consumption varies (refer to individual drive specifications)	
Power consumption/dissipation	Varies by configuration	
Redundancy	Standard N+1 for DC power supplies; optional 2N for AC power source; optional 2N+1	
Regulatory compliance		
Safety	UL 60950-1, -23; CAN/CSA-C22.2 No. 60950-1-07, -23-07; EN/IEC 60950-1, -23	
Emissions	FCC (47 CFR 15, Subpart B) Class A; CE (EN55022 Class A, EN61000-3-2, EN61000-3-3); VCCI V-3 Class A; ICES-003 Class A, KN22 Class A, and AS/NZS CISPR22 Class A	
Immunity	EN55024, KN24 and CISPR24	

*Check with sales representative for availability

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