

KEY FEATURES

BECAUSE EVERY BUSINESS
GROWS DIFFERENTLY

- 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

STORAGETEK SL3000 MODULAR LIBRARY SYSTEM

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. Oracle can help you stay ahead of the curve with a flexible solution that's easy to manage while it reduces environmental impact.



The cost-effective, eco-efficient StorageTek SL3000 modular library system offers flexibility, scalability, and high availability in a midrange storage solution.

Oracle's StorageTek SL3000 modular library system offers an innovative, eco-efficient approach to midrange storage with scalability up to 60 PB to accommodate growth.

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 just under 6,000 cartridge slots and from 1 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. You can grow at your own 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 Oracle's StorageTek T10000 tape drives; access-centric Oracle's StorageTek T9840 tape drives; or Linear Tape Open (LTO) tape drives from HP and IBM. The choice of Fibre Channel or FICON interfaces gives you 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, 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 Real Time Growth help you effectively operate and manage your storage environment.

Boost efficiency with the StorageTek SL3000 modular library system's unique centerline architecture, which alleviates robot contention. Robots travel one-third to one-half the distance required by competitive libraries, improving cartridge-to-drive performance by as much as 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 at little as one-tenth the library power.

Easy on Your Staff

Lower your administrative burden with an intelligent approach to storage management. The StorageTek SL3000 modular library system offers the 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 down to the slot in any configuration including non-contiguous resource assignments. Any Cartridge Any Slot technology further simplifies storage management by allowing any mix of supported drives and media spread throughout the library.

Oracle's 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 do the following:

- · Manage capacity and configure library partitions
- · Display library logs and status alerts
- · Run reports on drive and media statistics
- · Perform audits, self-tests, and diagnostics on the library and its components
- · Monitor library energy usage

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



For advanced tape management capabilities, Oracle's StorageTek ACSLS Manager software (ACSLS) eases the administrative burden of managing complex tape environments by centralizing library management. With ACSLS you can consolidate your library resources, optimize library performance, and fully utilize your available storage capacity. And through dynamic configuration capabilities and the queuing of commands during short-term outages, ACSLS can reduce downtime.

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. Non-disruptive, on-the-fly replacement of robotics, library electronics, power supplies, and drives helps sustain 24x7 operations. Dedicated TCP/IP and/or Fibre-Channel library control paths with optional dual control path technology increase overall library availability. 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. Among these components:

- · Rail technology and robotic communications enable easy installation, upgrades, and use
- · Robotics -robots and scanner technology
- Hardware cartridge access ports, arrays, fans, power supplies, operator panel, and more
- Firmware library code base and the StorageTek Library Console software interface
- · Electronics, cards, and cables
- RealTime growth capability scalability without downtime

To reduce the financial and legal risk associated with data loss, Oracle also offers solutions to protect data onsite, offsite, and in transit. Oracle's StorageTek VolSafe secure media technology, which provides write-once, read-many (WORM) capability, is available for the StorageTek T10000 and StorageTek T9840 tape drives. VolSafe technology complies with strict electronic storage regulatory and legal requirements. WORM capable media is also available for LTO tape drives.

The StorageTek SL3000 modular library system also works with Oracle Key Manager, 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 Oracle Key Manager complies with Federal Information Processing Standards Publications (FIPS PUBS) 140-2 and runs without regard to application, operating platform, or primary storage device.

Engage the Storage Experts

Oracle offers tailored mission critical services and support for your storage environment. Oracle Advanced Customer Services helps you address storage challenges by delivering installation, configuration, optimization and on-going monitoring and tailored support. Oracle service professionals help you achieve the highest levels of system performance and availability with diagnostic and monitoring tools that help anticipate, identify and remediate any potential issues. From tape library installation services to the design and implementation of key management encryption systems, Oracle service experts help you realize more value from your storage infrastructure - with less disruption to your business. For more information contact your Oracle representative, email acsdirect_us@oracle.com or visit oracle.com/acs.



StorageTek SL3000 Modular Library System Specifications

	StorageTek SL3000 Modular Library System (Base Module Only)	StorageTek SL3000 Modular Library System (Large Configuration)
Performance		
	StorageTek T10000C (24 drives, 240 MB/sec) – 20.7 TB/hr.	StorageTek T10000C (56 drives, 240 MB/sec) – 48.4 TB/hr.
	StorageTek T10000B (24 drives, 120 MB/sec) – 10.4 TB/hr.	StorageTek T10000B (56 drives, 120 MB/sec) – 24.2 TB/hr.
Throughput per hour, native (uncompressed)	StorageTek T9840D (24 drives, 30 MB/sec) – 2.6 TB/hr.	StorageTek T9840D (56 drives, 30 MB/sec) – 6 TB/hr.
	StorageTek LTO 5 (24 drives, 140 MB/sec) – 12.1 TB/hr.	StorageTek LTO 5 (56 drives, 140 MB/sec) – 28.2 TB/hr.
	StorageTek LTO 4 (24 drives, 120 MB/sec) – 10.4 TB/hr.	StorageTek LTO 4 (56 drives, 120 MB/sec) – 24.2 TB/hr.
Capacity		
	StorageTek T10000C (300 carts, 5 TB/cart) – 1.5 PB	StorageTek T10000C (3,000 carts, 5 TB/cart) – 15 PB
	StorageTek T10000B (300 carts, 1 TB/cart) – 300 TB	StorageTek T10000B (3,000 carts, 1 TB/cart) – 3 PB
Capacity, native (uncompressed)	StorageTek T9840D (300 carts, 75 GB/cart) – 22.5 TB	StorageTek T9840D (3,000 carts, 75 GB/cart) – 225 TB
	StorageTek LTO 5 (300 carts, 1.5 TB/cart) – 450 TB	StorageTek LTO 5 (3,000 carts, 1.5 TB/cart) – 4.5 PB
	StorageTek LTO 4 (300 carts, 800 GB/cart) – 240 TB	StorageTek LTO 4 (3,000 carts, 800 GB/cart) – 2.4 PB
Number of cartridge slots	200 to 5,925 customer-usable slots	
Number of tape drives/types	1 to 56 drives in 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		
Non-disruptive serviceability	PDU (optional 2N), CAP motor and control card, cooling fans, DC power supplies, tape drives, and robotics (with AEM)	
Mean exchanges/swaps between failures (MEBF/MSBF)	2,000,000 per robot	
Library HW availability	0.99992 (with 2N power, redundant electronics, redundant robotics, and AEM)	
Compatibility		
Supported host platforms	Wide variety, including Solaris, z/OS, AS/400, AIX, HP-UX, Windows, and Linux environments; please check with your Oracle account rep for your specific environment.	
Robotics control interfaces	TCP/IP (IEEE 802.3, 100BASE-T, 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		
StorageTek Library Console	TCP/IP remote monitoring is standard. Touch screen operator panel is optional.	
Digital vision system	Unique digital vision camera system performs continuous calibration and reads bar codes.	
Continuous automation calibration	No periodic maintenance or alignment required.	
Automatic self-discovery	Auto-discovery and auto-configuration for all drives, media types, slots, and CAP.	
Automatic clean	Additional dedicated cleaning cartridge slots are included for tape drive cleaning for multiple drive types by library or software command.	
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	StorageTek SL3000 Modular Library System (Base Module Only)	StorageTek SL3000 Modular Library System (Large Configuration)	
Mechanical			
Height	77.6 in. / 1.97 m	77.6 in. / 1.97 m	
Depth	49.0 in. / 124 cm	49.0 in. / 124 cm	
Width	36.0 in. / 91.5 cm	187.1 in. / 475.3 cm	
Weight (library only)	790 lb. / 361 kg (Base)	2,914 lb. / 1,326 kg (Base, DEM, and 4 CEMs)	
Environmental			
Temperature (operating)	+60°F to +90°F (+16°C to +32°C)		
Temperature (nonoperating)	+40°F to +90°F (+4°C to +32°C)		
Relative humidity (operating)	20% – 80%		
Relative humidity (nonoperating)	20% – 80%		
Power			
Voltage	Choice of 100 VAC - 127 VAC or 200 VAC - 240 VAC @ 50 Hz -60 Hz		
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 for AC and DC redundancy		
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		

Contact Us

For more information about Oracle's StorageTek SL3000 modular library system, please visit oracle.com/storage or call +1.800.786.0404 to speak to an Oracle representative.



Oracle is committed to developing practices and products that help protect the environment

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Hardware and Software, Engineered to Work Together

