# STORAGETEK®

# L5500
## TAPE LIBRARY

## Key benefits

### Grow without limits

The L5500 tape library scales from 1,500 slots to over 132,000 slots and 960 drives for a native storage capacity of 26.4 petabytes. It's virtually impossible to outgrow this library.

### Go configure

With ACSLS Manager™ software for control and management, the L5500 tape library supports a wide variety of backup applications and drives. Configure as needed, and get more mileage out of your capital assets.

### Mix and match

Fibre Channel, SCSI, ESCON and FICON connectivity supports a variety of drives and drive interfaces, including LTO Ultrium[1] with the enterprise-class T9840 and T9940 tape drives.

### Store data reliably

StorageTek's proven PowderHorn® tape library architecture provides confirmed robotics and enterprise reliability, so backups happen without interruption and data remains accessible across the enterprise.

### Get help with one call

StorageTek® is your single source for storage products, accessories, applications, standardized media, expert maintenance and technical support. You work with one knowledgeable resource to save time, money and headaches.

[1] LTO Ultrium Generation 1 and Generation 2 tape drives are made by Hewlett-Packard, IBM and Certance.



## L5500 tape library

With the L5500 tape library, you can consolidate tape storage into one large system to address the triple threat of ever-increasing storage needs, tighter budgets and leaner IT staffs. It's never been easier to simplify tape storage, clear a growth path for the future, and reduce storage costs and headaches along the way.

### Scale almost to infinity

The L5500 tape library can scale to 26.4 petabytes (native). And yet its enormous capacity is just the beginning. With throughput that can exceed 100 terabytes per hour, the L5500 tape library provides enterprise-class data transfers, so backup windows are shorter and crucial data remains available across the enterprise.

### Consolidate, configure, get creative

The L5500 tape library supports a mix of high-performance drives, so the configurations can be fine-tuned to meet changing business needs and a variety of applications. Add StorageTek's ACSLS Manager™ software and you can create an environment with multiple backup applications running simultaneously and seamlessly across a variety of servers. You have just one consolidated system to manage — and just one call to make for accessories, upgrades or worldwide support.

## Baseline Implementation Services

StorageTek's Implementation Services helps you achieve the full benefits of your storage solution investments — right from the start. Baseline Implementation for the Enterprise tape library provides services to deliver and enable full functionality and utilization of your storage asset.

This service includes the installation and configuration or reconfiguration of library software, testing of library software utilities, as well as configuration of the library in your environment. If applicable, Backup Resource Monitor™ software is installed and set up to report on your backup operation. In addition, the service includes design validation, testing, documentation, project management and knowledge transfer.

In addition to Baseline Implementation Services, StorageTek offers two tiers of higher-level consulting services for organizations whose implementation needs go beyond the baseline level.

## Custom Implementation Services

StorageTek's Implementation Services helps you achieve the full benefits of your storage solution investments — right from the start. Custom Implementation Services for Enterprise Tape Library Migration provides the services you need for a complete migration solution. This service is designed to enable seamless migration of your existing tape environment to a StorageTek enterprise-class automated tape library. StorageTek Services provides a custom designed migration service that is specific to your environment and migration requirements and helps enable interoperability, functionality and availability of new and existing storage assets.

In addition to these Custom Implementation Services, StorageTek offers higher-level consulting services for organizations whose implementation needs go beyond this level.

## To learn more

To learn more about the L5500 tape library and how it can help you calm the chaos in your storage environment, talk to your StorageTek representative or visit www.storagetek.com.

# L5500

## TAPE LIBRARY

## L5500 tape library specifications

| Performance | Single LSM | 24 LSM |
|---|---|---|
| Throughput per hour, native (uncompressed) | T9840A (80 drives, 10 MB/sec) — 2.88 TB/hr<br>T9840B (80 drives, 19 MB/sec) — 5.47 TB/hr<br>T9840C (80 drives, 30 MB/sec) — 8.64 TB/hr<br>T9940A (80 drives, 10 MB/sec) — 2.88 TB/hr<br>T9940B (80 drives, 30 MB/sec) — 8.64 TB/hr<br>LTO Ultrium Generation 1 (80 drives, 15 MB/sec) — 4.32 TB/hr<br>LTO Ultrium Generation 2 (80 drives, 30–35 MB/sec) — up to 10.08 TB/hr | T9840A (960 drives, 10 MB/sec) — 34.56 TB/hr<br>T9840B (960 drives, 19 MB/sec) — 65.66 TB/hr<br>T9840C (960 drives, 30 MB/sec) — 103.68 TB/hr<br>T9940A (960 drives, 10 MB/sec) — 34.56 TB/hr<br>T9940B (960 drives, 30 MB/sec) — 103.68 TB/hr<br>LTO Ultrium Generation 1 (960 drives, 15 MB/sec) — 51.84 TB/hr<br>LTO Ultrium Generation 2 (960 drives, 30–35 MB/sec) — up to 120.96 TB/hr |
| Audit time | 45 min–1 hr | 45 min–1 hr |
| Average cell to drive time | 6.25 sec | 6.25 sec |

| Capacity | | |
|---|---|---|
| Capacity, native (uncompressed) | T9840A (3,500 carts, 20 GB/cart) — 70 TB<br>T9840B (3,500 carts, 20 GB/cart) — 70 TB<br>T9840C (3,500 carts, 40 GB/cart) — 140 TB<br>T9940A (3,500 carts, 60 GB/cart) — 210 TB<br>T9940B (3,500 carts, 200 GB/cart) — 700 TB<br>LTO Ultrium Generation 1 (5,500 carts, 100 GB/cart) — 550 TB<br>LTO Ultrium Generation 2 (5,500 carts, 200 GB/cart) — 1.1 PB | T9840A (84,000 carts, 20 GB/cart) — 1.68 PB<br>T9840B (84,000 carts, 20 GB/cart) — 1.68 PB<br>T9840C (84,000 carts, 40 GB/cart) — 3.36 PB<br>T9940A (84,000 carts, 60 GB/cart) – 5.04 PB<br>T9940B (84,000 carts, 200 GB/cart) — 16.8 PB<br>LTO Ultrium Generation 1 (132,000 carts, 100 GB/cart) — 13.2 PB<br>LTO Ultrium Generation 2 (132,000 carts, 200 GB/cart) – 26.4 PB |
| Number of cartridge slots | 1,500, 2,000, 2,500, 3,000, 3,500, 4,000, 4,500, 5,000 or 5,500 per library | 1,500, 2,000, 2,500, 3,000, 3,500, 4,000, 4,500, 5,000 or 5,500 per library |
| Number of tape drives/types | Up to 4 drive frames per LSM (stand-alone)<br>Up to 2 drive frames per LSM (dense pack configuration)<br>1–20 T9840, T9940, LTO Ultrium Generation 1 and LTO Ultrium Generation 2 drives or a combination in each frame<br>Up to 17 T9840 and T9940 drives in a mixed-media frame | Up to 4 drive frames per LSM (stand-alone)<br>Up to 2 drive frames per LSM (dense pack configuration)<br>1–20 T9840, T9940, LTO Ultrium Generation 1 and LTO Ultrium Generation 2 drives or a combination in each frame<br>Up to 17 T9840 and T9940 drives in a mixed-media frame |
| Cartridge access port (CAP) | Standard 80-cartridge-slot CAP | Standard 80-cartridge-slot CAP |
| Pass-through-port (PTP) | No PTP required for single LSM | Up to four PTPs per LSM |

| Availability | | |
|---|---|---|
| Mean exchanges/swaps between failures (MEBF/MSBF) | 2,000,000 | 2,000,000 |
| Mean time to repair (MTTR) | <30 min | <30 min |
| Non-disruptive serviceability | Redundant robotic hands, redundant AC input (optional), redundant library management units (optional) | Redundant robotic hands, redundant AC input (optional), redundant library management units (optional) |

| Compatibility | | |
|---|---|---|
| Supported host platforms | All major operating systems | All major operating systems |
| Robotics control interfaces | TCP/IP (IEEE 802.3 10 baseT, half-duplex) or RS423 ACSLS Manager host software control | TCP/IP (IEEE 802.3 10 baseT, half-duplex) or RS423 ACSLS Manager host software control |

| Management | | |
|---|---|---|
| Media management | Partitioned between LTO Ultrium and T9840/T9940 technology | Partitioned between LTO Ultrium and T9840/T9940 technology |
| Digital vision system | Unique digital vision camera system performs continuous calibration and reads bar codes | Unique digital vision camera system performs continuous calibration and reads bar codes |
| Operator panel | User-friendly configuration and diagnostic controls, status display and viewing window | User-friendly configuration and diagnostic controls, status display and viewing window |
| Automatic clean | Dedicated cleaning cartridge slot for tape drive cleaning by library or software command | Dedicated cleaning cartridge slot for tape drive cleaning by library or software command |
| Automatic self-discovery | Self-configuring for cells, drives and CAPs | Self-configuring for cells, drives and CAPs |
| Continuous automation calibration | No periodic maintenance or alignment required | No periodic maintenance or alignment required |

# L5500 tape library specifications (cont'd)

| Mechanical | Single LSM | 24 LSM |
|---|---|---|
| Library | | |
|   Height | 92.5 in (234.9 cm) | 92.5 in (234.9 cm) |
|   Diameter | 128 in (325 cm) | 128 in (325 cm) |
| Weight | | |
|   Empty | 5,400 lb (2,449 kg) | 5,400 lb (2,449 kg) |
|   Loaded | 8,400 lb (3,810 kg) | 8,400 lb (3,810 kg) |

| Environmental | | |
|---|---|---|
| Temperature | | |
|   Operating | +60° to +90° F (+16° to +32° C) | +60° to +90° F (+16° to +32° C) |
|   Non-operating | +40° to +90° F (+4.4° to +32° C) | +40° to +90° F (+4.4° to +32° C) |
| Relative humidity | | |
|   Operating | 20%–80% | 20%–80% |
|   Non-operating | 10%–90% | 10%–90% |

| Power | | |
|---|---|---|
| Voltage | 220–240 VAC @ 50–60 Hz single phase (auto-ranging) | 220–240 VAC @ 50–60 Hz single phase (auto-ranging) |
| Library (operating maximum continuous — not peak) | 1.75 A @ 120 V, 0.88 A @ 240 V, 716 BTU/hr | 1.75 A @ 120 V, 0.88 A @ 240 V, 716 BTU/hr |
| Drives | Drive power consumption varies. Refer to individual drive specifications | Drive power consumption varies. Refer to individual drive specifications |
| Power consumption/dissipation | Max 12 amps per single phase @ 180 VAC (200 VAC nominal) 1.1 KW, 1.5 kVA, 3.75 Btu/hour, 950 kCAL/hour | Max 12 amps per single phase @ 180 VAC (200 VAC nominal) 1.1 KW, 1.5 kVA, 3.75 Btu/hour, 950 kCAL/hour |

| Regulatory compliance | | |
|---|---|---|
| Safety | UL 1950; CAN/CSA 22.2 No. 950; EN60950 | UL 1950; CAN/CSA 22.2 No. 950; EN60950 |
| 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 | 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 |



## ABOUT STORAGETEK®

Storage Technology Corporation (NYSE: STK) is a $2 billion global company that enables businesses, through its information lifecycle management strategy, to align the cost of storage with the value of information. The company's innovative storage solutions manage the complexity and growth of information, lower costs, improve efficiency and protect investments. For more information, visit www.storagetek.com, or call 1.800.275.4785 or 01.303.673.2800.

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