

QUALSTAR SDLT TAPE LIBRARY SYSTEM

AUTOMATED TAPE LIBRARIES
FEATURING DLT AND
SuperDLT TECHNOLOGY



The TLS-6000 Series tape library family provides enterprise-class backup, archival and near-online data storage for SuperDLT™ technology users. TLS-6000 tape libraries are true automated tape libraries that allow users to store, archive and retrieve data without operator intervention, around the clock.

SEAMLESS, TRANSPARENT INTEGRATION

Concurrent data transfer between up to eight drives provides the high throughput necessary to backup large networks. Simultaneous reading and writing means procedures can be scheduled anytime, independent of any operator and with no interference with other operations. SANSmart technology and multiple SCSI buses increase throughput to meet narrowing backup windows. Backup, archive and storage management programs by all leading application developers support the TLS-6000 family, for easy integration and very low cost per gigabyte.

THE RIGHT SYSTEM FOR YOU NOW...

Offering unbeatable reliability, performance and value, our TLS-6000 SDLT tape library family includes 7 models spanning capacities from 400 gigabytes to over 144 terabytes. Individual models house one, two, four, or eight tape drives, delivering data transfer rates exceeding 1.8 terabytes per hour.

...AND THE EXPANDABLE SYSTEM FOR YOUR FUTURE

Field upgrade kits are available for several models that double the number of tapes, and additional drives are readily installed to increase throughput. Capacity expansion kits take less than an hour to install. Tape drives are housed in plug-in carri-



ers containing dedicated cooling fans to enhance drive reliability. Drives can be user-installed in less than one minute, without opening the library.

RELIABLE, INTELLIGENT ROBOTICS

Our unique robotic mechanism is simply better, by design. Leadscrew-based robotics using brushless motors and closed-loop servo control systems provide precise positioning and flawless media handling for years of dependable operation. All electrical and mechanical adjustments have been completely eliminated by sophisticated, adaptive "smart" logic design. Filtered positive air pressure within each unit eliminates airborne contamination for extended tape and head life.

POWERFUL USER INTERFACE

An intuitive menu-driven control system provides easy-to-use installation, configuration, and operational information via the large LCD panel. Critical operating messages are displayed, and an audible alarm signals conditions requiring immediate action. Q-Link, our web browser-based remote library manager, is optional on all models. Q-Link allows any TLS-6000 Series tape library to be configured, monitored and managed from anywhere in the world. Using Q-Link, companies can deploy enterprise-class data protection without increasing staff or degrading data security. Even firmware updates can be installed remotely.

ADVANCED CARTRIDGE MANAGEMENT AND SECURITY

Bar code scanning enhances throughput and controls the media inventory.

VIOP, a unique variable I/O port design, allows users to control how many slots to commit to importing and exporting tapes.

Our exclusive "Inventory Sentry" senses whether the tapes or magazines have actually been moved when the door is opened. If they haven't, operation is resumed without causing a time consuming reinventory.

SANSMART AND LOGICAL LIBRARY

The SANSmart Fibre Channel Options support the latest SAN and serverless-backup applications.

Logical Library is built into most TLS-6000 models and allows up to four servers to share a library, even if each server is running a separate application. Systems that you couldn't afford to upgrade can now be protected automatically.

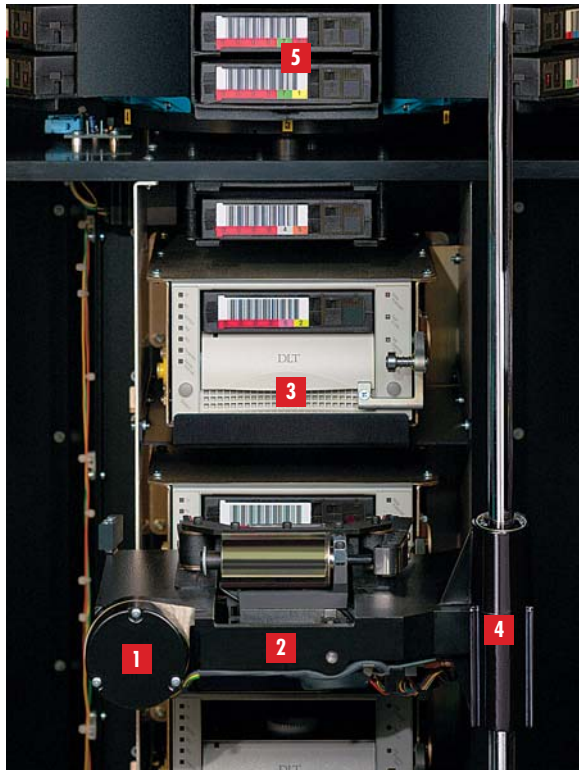
QUALSTAR: SIMPLY RELIABLE

Installation and support are provided by leading VARs and Integrators. Qualstar's *Simply Reliable* Tape Libraries are the preferred choice of IT professionals worldwide.

- **SIMPLY RELIABLE PATENTED ROBOTIC DESIGN FOR EXCEPTIONALLY LONG LIFE**
- **WORLDWIDE REMOTE MANAGEMENT VIA Q-LINK REDUCES COSTS**
- **EASY UPGRADE TO THE LATEST SDLT DRIVE TECHNOLOGY**
- **FILTERED, PRESSURIZED FORCED AIR COOLING FOR LONGER MEDIA LIFE**
- **VARIABLE I/O PORT FOR FAST BULK MEDIA EXCHANGE**

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ENGINEERED FOR RELIABILITY

- All brushless motors, no belts or pulleys **1**
- Self-calibrating, all-digital servo control system **2**
- Pre-wired tape drive mounting slots **3**
- Auto-aligning, no mechanical or electrical adjustments **4**
- Pressurized, filtered, forced air cooling with redundant fans
- Over 1,000,000 MEBF
- Automated tape drive cleaning

COMPREHENSIVE USER INTERFACE

- Q-Link remote library manager option
- Back-lighted 80 character display
- Control panel menu system for easy installation, configuration, operation and maintenance

VERSATILITY

- LVD SCSI interface
- Multiple SCSI bus connections supported
- 2Gb SANSmart Fibre Channel options
- Q-Link browser-based remote library manager option
- Logical Library dynamic partitioning
- Simultaneous random and multi-sequential operating modes
- Selectable recycling and dual-bin sequential modes
- Rackmount kit options

EFFICIENT MEDIA CONTROL

- Bar code scanning of data cartridges **5**
- Key locked door with a large window
- VIOP, variable I/O port for inserting and removing cartridges or magazines
- Inventory Sentry minimizes offline time

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Qualstar Corporation does not warrant the MEBF to be representative of any particular unit installed for customer use. Failure rates are derived from a large database of test samples. The individual failure rate will vary from unit to unit.

All information and specifications are based on our knowledge of the products at the time of printing. Qualstar reserves the right to change specifications without notice.

Qualstar and the Qualstar logo are registered trademarks of Qualstar Corporation. DLT, SuperDLT, SDLT and the DLTape logo are trademarks of Quantum Corporation. All other trademarks are the property of their respective owners.

Qualstar products are covered by one or more of the following patents: 6,560,061 and 6,271,982. Other patents pending.

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7 MODELS TO CHOOSE FROM		6110	6210	6220	6430	6460	68120	68240
Number of Drives		1	1-2	1-2	1-4	1-4	1-8	1-8
Number of Tapes		10	10	20	30	60	120	240
Native Capacity (TB)	SDLT 600	3.0	3.0	6.0	9.0	18.0	36.0	72.0
	SDLT 320	1.6	1.6	3.2	4.8	9.6	19.2	38.4
	DLT 8000	400 GB	400 GB	800 GB	1.2	2.4	4.8	9.6
Compressed Capacity (TB)*	SDLT 600	6.0	6.0	12.0	18.0	36.0	72.0	144.0
	SDLT 320	3.2	3.2	6.4	9.6	19.2	38.4	76.8
	DLT 8000	800 GB	800 GB	1.6	2.4	4.8	9.6	19.2
Max Native Data Rate (GB/hr.)	SDLT 600	115	230	230	460	460	921	921
	SDLT 320	57	115	115	230	230	460	460
	DLT 8000	21	43	43	86	86	172	172
Max Comp. Date Rate (GB/hr.)*	SDLT 600	230	460	460	921	921	1.8 TB/hr.	1.8 TB/hr.
	SDLT 320	115	230	230	460	460	921	921
	DLT 8000	43	86	86	172	172	345	345
Avg Exchange Time (seconds)		16	16	17	17	17	18	18
Time to Scan Barcodes (seconds)		12	12	26	41	91	92	108
Barcode Reader		Opt.	Opt.	Opt.	Std.	Std.	Std.	Std.
I/O Port			Opt.	Opt.	Std.	Std.	Std.	Std.
Field Expansion Kit			Yes		Yes		Yes	
Height (in./cm)		23/58	35/88		44/113		62/157	
Width (in./cm)		13/33	13/33		19/48		37/95	
Depth (in./cm)		25/63	25/63		30/77		30/77	
Net Weight (lb./kg)		58/26	89/40		153/69		359/163	
Power Consumption (watts/avg.)		100	150		250		470	

* Using 2:1 compression ratio



SIMPLY RELIABLE