

# OmniLib/RLS



## LTO5 Automated Rack Mount Tape Library System

The OmniLib/RLS Series delivers Qualstar's *Simply Reliable* automated tape library technology to LTO users requiring compact, 5U-high rack-mountable solutions. Offering superior performance and value, the OmniLib/RLS LTO tape library family includes five models yielding capacities up to 66 terabytes (native). Using typical data compression ratios, capacity can exceed 132 terabytes. Individual models house up to four tape drives. Data transfer rates can exceed 1.7 terabytes per hour.



### CAPACITY ON DEMAND (COD)

The OmniLib/RLS deliver a persuasive combination of low entry cost and easy capacity upgrades. These models support one or two LTO full-height, or up to four half-height tape drives, giving users technology choices in compact 5U-high modules. Starting with twelve data tape slots, up to four, 8-slot expansion kits can be installed in just a few minutes. A simple software key and a pair of magazines is all it takes for users to easily add more capacity.

### HIGH AVAILABILITY PLUS Q-LINK™

OmniLib/RLS high availability options include hot-swappable redundant power supplies, true hot-swappable tape drives, and Q-Link, the web browser-based remote library manager. Q-Link allows any OmniLib/RLS tape library to be configured, monitored, diagnosed and managed from anywhere in the world. Using Q-Link, companies can deploy enterprise-class data protection without increasing staffs or degrading data security. Even firmware updates can be implemented remotely.

### INTERFACE CHOICES

The OmniLib/SANSmart fibre channel interface option supports the latest 2-gigabit per second SAN technology. The IPSmart™ iSCSI option offers dual Gigabit Ethernet ports for greater data throughput. Adding a library to an IP SAN is quick and easy.

### DFA DRIVES SUPPORTED

The OmniLib/RLS incorporates LTO 5 direct fibre-attach tape drives. These drives use 4Gb Fibre Channel interfaces to connect directly to ports on switches or to servers where SCSI cable length restrictions inhibit the desired installation. The OmniLib/RLS library control interface can be connected with SCSI, or with fibre channel using the FCO option.

### LOGICAL LIBRARY

Logical Library is built into every OmniLib/RLS SCSI library, enabling up to four SCSI connections to share a single library, even if each server is running a separate application. Systems that you couldn't afford to upgrade can now be protected automatically.

### RELIABLE, INTELLIGENT ROBOTICS

The OmniLib/RLS's unique robotic mechanism is *Simply Reliable* by design. Lead-screw based robotics using brushless DC motors and closed-loop servo control systems provide precise positioning and flawless media handling for years of dependable operation. All FRUs, options and tape drives are auto-discovering, and all electrical and mechanical adjustments have been completely eliminated by sophisticated, adaptive "smart" logic design. Built-in reliability is only part of the OmniLib/RLS story. Each tape drive is on a self-connecting mount that eliminates handling cables. Simply slide the drives in or out.

### EASY OPERATION

An intuitive menu-driven control system provides easy-to-use installation, configuration and operational information via the onboard LCD panel. Critical operating functions are displayed and an audible alarm signals conditions requiring immediate action. All of the information, functions and controls built into the front panel display are replicated in Q-Link. Tapes are housed in convenient magazines that simply snap in and out of the library. Removing and organizing tapes for offsite storage is easy.

### ADVANCED CARTRIDGE MANAGEMENT AND SECURITY

Barcode scanning enhances throughput and controls the media inventory. VIOP, a unique variable I/O port design, allows users to determine how many slots to commit to importing and exporting tapes. The exclusive Inventory Sentry senses whether the tapes or magazines have actually been removed when the door is opened. If they haven't, operation is resumed without causing a time consuming re-inventory.



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## Featuring Capacity On Demand

### ENGINEERED FOR RELIABILITY

- ◆ Auto-connecting user-installable tape drives
- ◆ All brushless motors
- ◆ Self-calibrating all-digital servo control system
- ◆ Auto-aligning, no mechanical or electrical adjustments
- ◆ Over 2,000,000 MEBF
- ◆ Automated tape drive cleaning

### EFFICIENT MEDIA CONTROL

- ◆ Barcode scanning of data cartridges
- ◆ All tapes are housed in convenient removable magazines
- ◆ VIOP, variable I/O port for inserting and removing cartridges or magazines
- ◆ Inventory Sentry minimizes offline time

### VERSATILITY

- ◆ Capacity on demand: add up to four 8-slot expansion kits
- ◆ Hot-swappable tape drive option
- ◆ Redundant hot-swappable power supply option
- ◆ OmniLib/SANSmart fibre channel option
- ◆ OmniLib/IPSmart iSCSI option
- ◆ Ultra2 LVD SCSI interface
- ◆ 4Gb DFA drives supported
- ◆ Multiple SCSI bus connections supported
- ◆ Logical Library Partitioning (SCSI only)
- ◆ Simultaneous random and multi-sequential operating modes
- ◆ Selectable recycling and dual-bin sequential modes

### COMPREHENSIVE USER INTERFACE

- ◆ Q-Link browser-based remotelibrary management option
- ◆ Back-lighted 80 character display
- ◆ Control panel menu system for easy installation, configuration, operation and maintenance

	OmniLib/RLS236		OmniLib/RLS444	OmniLib/RLS212	OmniLib/RLS236	OmniLib/RLS544	OmniLib/RLS512
Drive Type	LTO 4	LTO 5	LTO 4	LTO 4	LTO 4	LTO 5	LTO 5
Number of Drives	1 - 2		1 - 2	1 - 2	1 - 2	1 - 4	1 - 4
Number of Tapes	36		44	12 - 44	12 - 36	44	12 - 44
Native Capacity (TB)	28.8	54	35.2	9.6 - 35.2	9.6 - 28.8	66	18 - 66
Compressed Capacity (TB)*	57.6	108	70.4	19.2 - 70.4	19.2 - 57.6	132	36 - 132
Max Native Data Rate (TB/hr)	.9	1.0	.9	.9	.9	2.0	2.0
Max Compressed Data Rate (TB/hr)*	1.7	2.0	1.7	1.7	1.7	4.0	4.0
Interface Options	LVD, FC	SAS, FC	LVD, FC	LVD, FC	LVD	SAS, FC	SAS, FC
Field Expansion				Four, 8-slot increments	Three, 8-slot increments		Four, 8-slot increments
Average Exchange Time (seconds)	16		18	18	18	18	18
Time to Scan Barcodes (seconds)	62		78	78	78	78	78
Barcode Reader	Standard		Standard	Standard	Standard	Standard	Standard
Variable I/O Port	Standard		Standard	Standard	Standard	Standard	Standard
Height (in/cm)	50		50	50	50	50	50
Width (in/cm)	16.6 / 42.2		16.6 / 42.2	16.6 / 42.2	16.6 / 42.2	16.6 / 42.2	16.6 / 42.2
Depth (in/cm)	32.0 / 81.3		36.8 / 93.5	36.8 / 93.5	36.8 / 93.5	36.8 / 93.5	36.8 / 93.5
Net Weight (lb/kg)	104 / 47		147 / 67	147 / 67	147 / 67	147 / 67	147 / 67
Power Consumption LVD & SAS (watts, avg)	130		130	130	130	130	130
Power Consumption FC (watts, avg)	145		145	145	145	145	145

\* Using typical compression ratios

