QUALSTAR RLS-8000 SERIES RACKMOUNT TAPE LIBRARY SYSTEMS

*FEATURING
CAPACITY ON DEMAND*

ULTRIUM LTO

The RLS-8000 Series delivers Qualstar's *Simply Reliable* Automated Tape Library technology in compact, 5U-high rackmount-able solutions. Offering superior performance and value, the RLS-8000 Series Tape Library family includes nine models yielding capacities up to 66 terabytes (native). Using typical data compression ratios, capacity can exceed 130 terabytes. Individual models house up to four LTO tape drives. Data transfer rates can exceed four terabytes per hour.

CAPACITY ON DEMAND (COD)
The RLS-8202, RLS-8204 and RLS-8404 models deliver a persuasive combination of low entry cost and easy capacity upgrades. Starting with twelve data tape slots, up to three or 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.

Q-LINK™ REMOTE MANAGER
Q-Link is the web browser-based remote library manager that allows any RLS Series 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.

DFA DRIVES SUPPORTED
RLS-8000 "D" models house LTO Direct Fibre Attach tape drives. These drives have Fibre Channel interfaces to connect directly to ports on switches or to servers. The RLS command interface uses ADI Surrogate SCSI, which eliminates separate physical connections to the library controller.*

RELIABLE, INTELLIGENT ROBOTICS
The RLS Series unique robotic mechanism is *Simply Reliable* by design. Leadscrew 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 autodiscovering, and all electrical and mechanical adjustments have been completely eliminated by sophisticated, adaptive "smart" logic design. 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 through-put 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. Our 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.

LOGICAL LIBRARY
Logical Library partitioning is built into every RLS Series library. It allows up to four servers 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.

QUALSTAR®

SIMPLY RELIABLE

QUALSTAR RLS-8000 SERIES RACKMOUNT TAPE LIBRARY SYSTEMS

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
- Three year warranty

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

COMPREHENSIVE USER INTERFACE

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

VERSATILITY

- Capacity on demand: add up to four 8-slot user-installed or factory option expansion kits
- Redundant hot-swappable power supply option
- ADI Surrogate SCSI library interface*
- Fibre Channel, LVD and SAS drives supported
- Logical Library partitioning
- Simultaneous random and multi-sequential operating modes
- Selectable recycling and dual-bin sequential modes

RLS SERIES LTO SPECIFICATIONS

*LTO 4 requires LVD/SCSI library command bus

	RLS-8236 / 8236D		RLS-8244	RLS-8204	RLS-8202	RLS-8444 / 8444D	RLS-8404 / 8404D
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
Drive 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)	5U		5U	5U	5U	5U	5U
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

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