

# QUALSTAR RLS SERIES TAPE LIBRARY SYSTEM

RACKMOUNT  
AUTOMATED  
TAPE LIBRARIES



The RLS Series delivers Qualstar's *Simply Reliable* Automated Tape Library technology to users requiring AIT™ and SuperAIT™ format rackmountable solutions. The RLS Series gives users technology choices without compromising quality or reliability, in compact 5U-high modules. Offering superior performance and value, four models yield capacities up to 28 terabytes (native). Using typical data compression ratios, capacity can exceed 72 terabytes. Depending on the tape drive technology chosen, individual models house up to four tape drives. Data transfer rates can exceed 1.1 terabytes per hour. Built-in reliability is only part of the RLS Series story. Each drive is on a self-connecting mount that eliminates handling cables. Simply slide the drives in or out.

## **HIGH AVAILABILITY PLUS Q-LINK™**

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 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.

## **INTERFACE CHOICES**

The SANSmart Fibre Channel interface option supports the latest

SAN technology. The IPSmart™ iSCSI option offers dual Gigabit Ethernet ports for greater data throughput. Adding a library to a SAN just got easier.

## **INVESTMENT PROTECTION**

Featuring IPM (Interface Personality Module) architecture, RLS Series libraries can be reconfigured in seconds for SCSI, Fibre Channel or iSCSI by simply plugging in the appropriate IPM.

A field capacity expansion kit is also available to economically upgrade the RLS-4445 to an RLS-4470.

## **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.

## **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 has never been easier.

## **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.

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 reinventory.

## **LOGICAL LIBRARY**

Logical Library is built into every RLS Series SCSI library. It allows up to four SCSI-connected 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.



**SIMPLY RELIABLE**

# QUALSTAR RLS SERIES TAPE LIBRARY SYSTEM

## RACKMOUNT AUTOMATED TAPE LIBRARIES



### ENGINEERED FOR RELIABILITY

- Auto-connecting hot-pluggable 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

### COMPREHENSIVE USER INTERFACE

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

### VERSATILITY

- Hot-swappable tape drive option
- Redundant hot-swappable power supply option
- SANSmart Fibre Channel option
- IPSmart iSCSI option
- Ultra2 LVD SCSI interface
- Multiple SCSI bus connections supported
- Logical Library Partitioning (SCSI only)
- Simultaneous random and multi-sequential operating modes
- Selectable recycling and dual-bin sequential modes

### RLS SERIES SPECIFICATIONS

4 MODELS TO CHOOSE FROM	RLS-4221			RLS-4445			RLS-4470			RLS-5244
Drive Type	AIT-3	AIT-4	AIT-5	AIT-3	AIT-4	AIT-5	AIT-3	AIT-4	AIT-5	SAIT-1
Number of Drives	1 - 2			1 - 4			1 - 4			1 - 2
Number of Tapes	22			45			70			44
Native Capacity (TB)	2.2	4.4	8.8	4.5	9	18	7	14	28	22
Compressed Capacity (TB)*	5.7	11.4	22.8	11.7	23.4	46.8	18.2	36.4	72.8	57.2
Max. Native Data Rate (GB/hr)	86	172	172	172	345	345	172	345	345	216
Max. Comp. Data Rate (GB/hr)*	224	449	449	449	898	898	449	898	898	561
Field Expansion				To 4470						
Avg. Exchange Time (seconds)	15			15			22			18
Time to Scan Barcodes (seconds)	30			62			85			78
Barcode Reader	Optional			Optional			Optional			Optional
Variable I/O Port	Standard			Standard			Standard			Standard
Height (in/cm)	5U			5U			5U			5U
Width (in/cm)	16.6 / 42.2			16.6 / 42.2			16.6 / 42.2			16.6 / 42.2
Depth (in/cm)	32 / 81.3			32 / 81.3			32 / 81.3			36.8 / 93.5
Net Weight (lb/kg)	65 / 30			87 / 39			92 / 42			150 / 68
Power Consumption SCSI (watts, avg)	100			100			100			100
Power Consumption FCI (watts, avg)	115			115			115			115

\* Using typical compression ratios

**QUALSTAR CORPORATION**  
3990-B Heritage Oak Court  
Simi Valley, CA 93063

NASDAQ: QBAK

Fax: 805-583-7749  
Tel: 805-583-7744  
800-468-0680  
E-mail: sales@qualstar.com  
Website: www.qualstar.com

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

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# SIMPLY RELIABLE