

QUALSTAR RLS-8500 SERIES RACKMOUNT TAPE LIBRARY SYSTEMS

RELIABILITY,
PERFORMANCE
AND VALUE



The RLS-8500 Series extends Qualstar's well-respected RLS family of *Simply Reliable* automated tape libraries for users requiring high capacity rack mountable storage solutions. Offering superior performance and value, the RLS-8500 Series delivers capacities up to 171 terabytes (native) in just 10U of rack space. Using typical data compression ratios, capacity can exceed 342 terabytes. Up to five LTO 5 tape drives can be installed to deliver aggregate data transfer rates exceeding five terabytes per hour.

CAPACITY EXPANSION

The RLS-8560 model contains 54 data cartridge storage slots and four I/O slots. The RLS-85120 model houses 114 data slots. Installing a second, optional storage matrix into the RLS-8560 adds 60 slots, more than doubling its capacity. The expansion option can be easily installed by users in just a few minutes. No slot license fee is required for any RLS-8500 Series model.

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. Even firmware updates can be implemented remotely.

RELIABLE, INTELLIGENT ROBOTICS

The RLS-8500 Series unique robotic mechanisms are *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 auto-discovering, and all electrical and mechanical adjustments have been completely eliminated by sophisticated, adaptive "smart" logic design. Each tape drive is a self-connecting assembly that eliminates handling cables. Simply slide the drives in or out. All service access is through the front or rear of the unit. Once an RLS-8500 is installed in a rack, there is no need to ever dismount it.

EASY OPERATION

The RLS-8500 Series is equipped with a high resolution, color touch screen for local operation. An intuitive menu-driven control system provides easy-to-use installation, configuration and operation information. 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. If allowed by user security policies, Qualstar Technical Support can use Q-Link to monitor library operation to assist with configuration issues and troubleshooting.

ADVANCED CARTRIDGE MANAGEMENT AND SECURITY

Barcode scanning enhances throughput and controls the media inventory. RLS-8500 models offer one or two, 4-slot I/O ports for efficient control of imported and exported media. The tapes in the RLS-8500 are physically secured by keyed locks.

LOGICAL LIBRARY

Logical Library partitioning is built into RLS-8500 Series libraries. It allows up to five servers to share a single library, even if each server is running a separate application. Systems that weren't economical to upgrade can now be protected, automatically.



SIMPLY RELIABLE

QUALSTAR RLS-8500 SERIES RACKMOUNT TAPE LIBRARY SYSTEMS

RELIABILITY, PERFORMANCE AND VALUE



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
- Auto-discovery of all components
- Over 2,000,000 MEBF
- Automated tape drive cleaning
- Filtered, forced-air cooling

COMPREHENSIVE USER INTERFACE

- Q-Link browser-based remote library manager
- Color LCD touch control panel and menu system for easy installation, configuration, operation and maintenance

EFFICIENT MEDIA CONTROL

- Barcode scanner
- 4-slot I/O port standard
- Second I/O port option (requires capacity expansion)

VERSATILITY

- ADI library interface
- Rack mount kit included
- Fibre Channel and SAS drive support
- Logical Library partitioning
- All access through front and back of unit

VALUE

- 60-slot expansion option
- 54-slot expansion option with second I/O port
- N+1 power option
- Three year warranty

RLS-8500 SERIES SPECIFICATIONS	RLS-8560 / 85120
Drive Type	LTO 5
Number of Drives	1 – 5
Number of Tapes	54 / 114 ¹
Native Capacity (TB)	81 / 171
Compressed Capacity (TB)*	162 / 342
Max Native Data Rate (TB/hr)	2.5
Max Compressed Data Rate (TB/hr)*	5.0
Library Interface	ADI
Drive Interfaces	SAS, FC
Field Expansion	Add 60 slots to RLS-8560 ²
Average Exchange Time (seconds)	7.5
Time to Scan Barcodes (seconds)	149
Barcode Reader	Standard
Rack Mount Kit	Standard
I/O Port / Slots	1 port with 4 slots Optional second port ³
Height (in/cm)	10U (17.5 / 44.5)
Width (in/cm)	16.6 / 42.2
Depth (in/cm)	35.3 / 89.7
Net Weight (lb/kg)	164 / 74.4
Power Consumption (watts, avg)	TBA

1. 108 slots if second I/O port installed

3. Capacity upgrade option required

2. 54 slots with second I/O port option

* Using typical compression ratios



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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.

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Qualstar products are covered by one or more of the following patents: 6,271,982, 6,560,061 and 7,181,313. Other patents pending.

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SIMPLY RELIABLE