QUALSTAR
DATA STORAGE SOLUTIONS

QUALSTAR Q40™
EXPANDABLE RACKMOUNT TAPE LIBRARY SYSTEM

Q40™ OVERVIEW

The Qualstar Q40 scalable tape library is designed to be *Simply Reliable*™, providing superior performance and scalability for short-term backup/disaster recovery and long-term archiving requirements. The Q40 system offers capacity scaling from thirty-two to two hundred and seventy-two cartridge slots, and throughput scaling from one to twenty-one tape drives. The Q40 utilizes LTO-6, LTO-7 or LTO-8 tape drives with SAS or FC interface. Each 3U high Q40 library base module delivers up to 384 terabytes (LTO-8, native) of storage capacity or up to 960 terabytes (LTO-8, compressed). The Q40 base unit may be expanded with up to six additional expansion modules supporting creation of a single library system with as much as 8.16 petabytes (compressed) storage capacity in a single 21U of rack space. The Q40 uses a single robot to service all drives and media, maximizing cost effectiveness.

The operator control panel uses an intuitive GUI and incorporates wizards, making the system easy to configure and use. The Q40 may also be accessed remotely via the integrated browser-based remote management interface (RMI). This enables IT administrators to remotely configure, manage and diagnose the library from anywhere in the world via the Internet. The Q40 system is easy to service and repair, with field replaceable tape drives, power supplies and controller board units.

KEY FEATURES & BENEFITS

Engineered for Reliability

- Auto-connecting, user-installable tape drives
- Self-calibrating all-digital servo control system
- Auto-aligning: No mechanical or electrical adjustments
- Auto-discovery of all components
- Rated at 2,000,000 tape load/unload cycles
- Automated tape drive cleaning

Unit shown is base module plus one expansion module.

Versatility

- Expandable in the field to 272 tape slots
- ADI library interface
- Fibre Channel and SAS drive interface support
- Logical library partitioning

Comprehensive User Interface

- Browser-based remote library manager
- 4” monochrome display with button controls for easy local configuration, operation and maintenance

Efficient Media Control

- Barcode scanner
- I/O Port configurable to either none or three cartridges per module

Value

- Two-year warranty
- Rackmount kit included

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Q40 SPECIFICATIONS	BASE MODULE	EXPANDABLE TO
Drive Type	LTO-6, LTO-7 or LTO-8	
Number of Drives Supported	1 - 3	Up to 21
Number of Tape Slots	32	Up to 272
Native Capacity with LTO-6 / LTO-7 / LTO-8	80 TB / 192 TB / 384 TB	680 TB / 1.63 PB / 3.26 PB
Max Compressed Capacity with LTO-6 / LTO-7 / LTO-8	200 TB / 480 TB / 960 TB	1.7 PB / 4.08 PB / 8.16 PB
Max Native Data Rate (LTO-6 / LTO-7 & LTO-8)	1.73 TB/hr. / 3.24 TB/hr.	14 TB/hr. / 22.5 TB/hr.
Max Compressed Data Rate (LTO-6 / LTO-7 & LTO-8)	4.3 TB/hr. / 10.32 TB/hr.	30.2 TB/hr. / 72.45 TB/hr.
Library Interface	ADI	
Drive Interfaces	SAS, FC	
Field Expansion	1 Base Module + up to 6 Expansion Modules	
Barcode Reader	Standard	
Rack Mount Kit	Standard	
Configurable Number of I/O Port Slots	0 or 3	0 or 3 per Module
Height (1U = 1.75 inches / 44.45 mm)	3U	Up to 21U in 3U increments
Width (in. / cm.)	18.98 / 48.2	
Depth (in. / cm.)	34.27 / 87.3	
Weight per Module (lb. / kg.) without tape drives	55.34 / 25.1	
Power Consumption (watts)	230 (peak)	

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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 are pending.

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HIGHLIGHTS

- 32 to 272 cartridges (base + 6 expansion modules)
- 1 to 3 drives per module, up to 21 drives
- LTO-6, LTO-7 or LTO-8 with SAS, FC
- 4" Monochrome display in base unit
- Simple expansion, no special alignment required
- Ball bearing slides standard
- Removable magazines for bulk loading/unloading
- Remote management via Ethernet
- IPV6, SNMP with SSL & TLS
- Drive firmware update via remote management interface
- Library firmware update via remote management interface or via control panel and USB thumb drive

QUALSTAR CORPORATION
www.Qualstar.com
Tel: 805-583-7744