QUALSTAR® Q40

Expandable Rackmount Tape Library System

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 40 to 640 cartridge slots, and throughput scaling from one to 48 tape drives. The Q40 utilizes LTO-7, LTO-8 or LTO-9 HH tape drives with SAS or FC interface and LTO-9 FH tape drives with FC interface. The Q40 library base module delivers up to 720 TB (LTO-9 native), or up to 1.8 PB (LTO-9 compressed), of storage capacity

The Q40 base unit may be connected to up to fifteen additional expansion modules to create of a single library system with up to 28.8 PB (LTO-9 compressed) storage capacity in a single 48U rack space. The Q40 uses a single robot to service all drives and media, maximizing cost effectiveness.

The user control panel employs an intuitive GUI and setup wizards to make the system easy to configure and operate. An integrated browser-based remote management interface (RMI) enables IT administrators to remotely configure, manage, and diagnose the library from anywhere in the world.

KEY FEATURES & BENEFITS

ENGINEERED FOR RELIABILITY

- 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

VERSATILITY

- Expandable in the field to 640 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 allow easy local configuration, operation, and maintenance

EFFICIENT MEDIA CONTROL

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

VALUE

- Three-year warranty with fast replacement service
- Rackmount kit included

HIGHLIGHTS

- 40 to 640 cartridges (base + 15 expansion modules)
- 1 to 3 drives per module, up to 48 drives
- LTO-7, LTO-8 or LTO-9 drives with SAS, FC
- Partitioning and encryption licence included
- 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
- WORM, LTFS, KPIM support
- Drive firmware update via remote management interface
- Library firmware update via remote management interface or via control panel and USB thumb drive

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1 Jenner, Suite 200 | Irvine, CA 92618 | 877.886.2758 | Qualstar.com | OTC: QBAK

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Unit shown comprises a base module plus one expansion module.

Q40 SPECIFICATIONS	BASE MODULE	EXPANDABLE TO
Drive Type	LTO-7, LTO-8 LTO9 (HH) or LTO-9 FH	
Number of Drives Supported	1 - 3	up to 48
Number of Tape Slots	40	up to 640
Native Capacity with LTO-7 / LTO-8 / LTO-9	240 TB / 480 TB / 720 TB	3.84 PB / 7.68 PB / 11.52 PB
Compressed Capacity with LTO-7 / LTO-8 / LTO-9	600 TB / 1.20 PB / 1.80 PB	9.60 PB / 19.20 PB / 28.80 PB
Native Data Rate LTO-7 / LTO-8 / LTO-9 (SAS & FC)	up to 3.24 TB/hr.	up to 51.84 TB/hr.
Compressed Data Rate LTO-7 / LTO-8 / LTO-9 (SAS & FC)	up to 8.10 TB/hr.	up to 129.60 TB/hr.
Library Interface	ADI	
Drive Interfaces	SAS, FC (HH drives), FC (LTO-9 FH)	
Field Expansion	1 base module + up to 15 expansion modules	
Barcode Reader / remote control card / rack mount kit	standard / standard / standard	
Partitioning and encryption licence	standard	
Configurable Number of I/O Port Slots	0 or 5	0 or 5 per module
Height (1U = 1.75 inches / 44.45 mm)	3U	up to 48U 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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