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 scaling from 40 to 640 cartridge slots, and from 1 to 48 tape drives. The Q40 utilizes LTO-7, LTO-8, LTO-9 or LTO-10 tape drives, with each 3U Q40 base library module delivering up to 1.2 petabytes (LTO-10, native) or up to 3.0 petabytes (LTO-10, compressed) of storage capacity.

The Q40 base unit may be expanded with up to fifteen expansion modules, creating a single library system with as much as 48 petabytes (LTO-10 compressed) storage capacity in a single 48U rack. 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
- 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, LTO-9 or LTO-10 drives 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
- Encryption capable
- Drive firmware update via remote management interface
- Library firmware update via remote management interface or via control panel and USB thumb drive

QUALSTAR
The Data Storage Experts

1267 Flynn Rd. | Camarillo, CA 93012 | 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, LTO-9 or LTO-10	
Number of Drives Supported	1 - 3	Up to 48
Number of Tape Slots	40	Up to 640
Native Capacity with LTO-8 / LTO-9 / LTO-10	480 TB / 720 TB / 1.2 PB	7.68 PB / 11.52 PB / 19.2 PB
Max Compressed Capacity with LTO-8 / LTO-9 / LTO-10	1.20 PB / 1.80 PB / 3.0 PB	19.2 PB / 28.8 PB / 48 PB
Max Native Data Rate LTO-8 / LTO-9 / LTO-10 (HH) LTO-9 / LTO-10 (FH)	3.24 TB/hr 1.43 Tb/hr	51.84 TB/hr 22.88 TB/hr
Max Compressed Data Rate LTO-8 / LTO-9 / LTO-10 (HH) LTO-9 / LTO-10 (FH)	8.10 TB/hr 4.3 TB/hr	129.6 TB/hr 68.8 TB/hr
Library Interface	ADI	
Drive Interfaces	SAS, FC	
Field Expansion	1 base module + up to 15 expansion modules	
Barcode Reader	standard	
Rack Mount Kit	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	

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