

Q80™ OVERVIEW

The Qualstar Q80 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 Q80 system offers capacity scaling from eighty to five hundred and sixty cartridge slots, and throughput scaling from one to forty-two tape drives. The Q80 utilizes either LTO-6 or LTO-7 tape drives, with each 6U high Q80 library module delivering up to 480 Terabytes (LTO-7, native) of storage capacity or up to 1.2 Petabytes (LTO-7, compressed). The Q80 base unit may be expanded with up to six additional expansion modules supporting creation of a single library system with as much as 8.4 Petabytes (compressed) storage capacity in a single 42U rack. The Q80 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 identical functionality 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 Q80 system is easy to service and repair, with field replaceable tape drives, power supply 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

Versatility

- Expandable in the field to 560 tape slots
- ADI library interface
- Fibre Channel and SAS drive interface support
- Logical library partitioning



Unit shown above is base module plus one expansion module

Comprehensive User Interface

- Browser-based remote library manager
- 5.7" color LCD touch control panel and menu system for easy local configuration, operation and maintenance

Efficient Media Control

- Barcode scanner
- I/O Port configurable to none or 10 cartridges per module

Value

- Two-year warranty
- Rackmount kit included
- N+1 power with dual line cords standard



• Unit shown above is base module plus six expansion modules
• Rack is not included

Q80 SPECIFICATIONS	BASE MODULE	EXPANDABLE TO
Drive Type	LTO-6 or LTO-7	
Number of Drives Supported	1 - 6	Up to 42
Number of Tape Slots	80	Up to 560
Native Capacity with LTO-6 / LTO-7	200 TB / 480TB	1.4 PB / 3.36 PB
Max Compressed Capacity with LTO-6 / LTO-7	500 TB / 1.2 PB	3.5 PB / 8.4 PB
Max Native Data Rate with LTO-6 / LTO-7	3.46 TB/hr. / 6.48 TB/hr.	24.19 TB/hr. / 45.36 TB/hr.
Max Compressed Data Rate with LTO-6 / LTO-7	8.64 TB/hr. / 16.20 TB/hr.	60.48 TB/hr. / 113.40 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 10	0 or 10 per Module
Height (1U = 1.75 inches / 44.45 mm)	6U	Up to 42U in 6U increments
Width (in. / cm.)	18.7 / 47.5	
Depth (in. / cm.)	35.1 / 89.2	
Weight per Module (lb. / kg.) without tape drives	90 / 41	80 / 37 per module
Power Consumption (watts)	< 350 (peak)	< 350 (peak per Module)

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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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HIGHLIGHTS

- 80 to 560 cartridges (base + 6 expansion modules)
- 1 to 6 drives per module, up to 42 drives
- LTO-6 or LTO-7 with SAS, FC
- 5.7" Touch screen 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