

SOLUTION BRIEF

ATTO

ATTO and Qualstar LTO Tape Solutions

ATTO XstreamCORE® ET 8200 40Gb Ethernet to SAS



Benefits

- Long distance backups/restores
- Highly scalable architecture
- Easily share across multiple hosts
- Fewer fabric switch ports required
- Added backup diagnostic capabilities
- Simple setup & configuration
- Negligible added latency

Qualstar Q24

Compact LTO tape library



Key Highlights

- 24 cartridge slots in two 12-slot magazines
- 1 available single-slot I/O port
- 1 half-height LTO-6, LTO-7 or LTO-8 tape drive; second drive optional
- Up to 720 TB with LTO-8 compression (2.5:1)
- 2U height x 19" rack mount
- Barcode reader standard for fast inventory management
- Remote management capability simplifies IT administration

Solving Ethernet-based Backup and Archiving

Data centers are experiencing a rapid shift towards Ethernet based storage solutions. The bulk of the data is unstructured data which is more effectively supported by File and Object based Ethernet storage solutions. This, along with the push towards hyper-converged infrastructures, contribute to the transition.

The flexibility of Ethernet, lower cost components and ability to use existing data center infrastructure as well as IT personnel are also driving the push towards Ethernet. This solution allows IT administrators to move forward with greater versatility by designing unique, highly scalable Ethernet-based archival storage architectures.

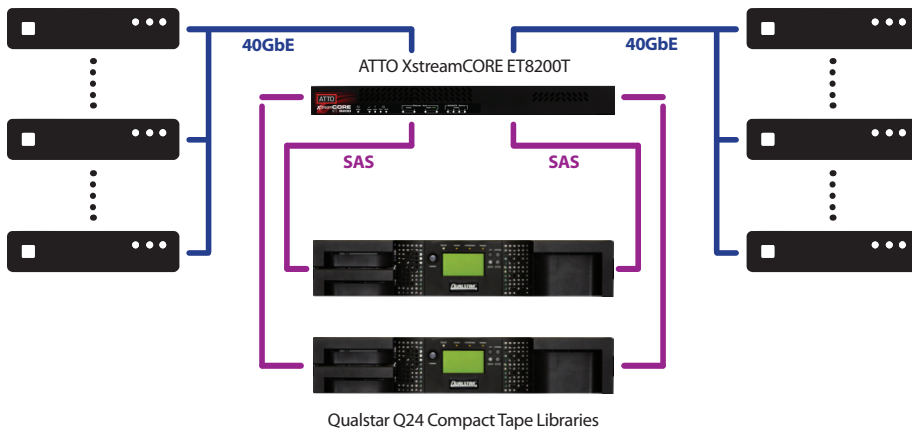
Qualstar Compact Tape Libraries and ATTO XstreamCORE

ATTO XstreamCORE 8200 is a 1U bridge that allows Qualstar tape libraries to connect to Ethernet networks. Each bridge will allow a maximum of 64 local or remote hosts to connect with up to 16 SAS tape drives using the iSCSI or iSER (iSCSI Extensions for RDMA using RoCE V2) protocols.

Easily map tape drives to one or more hosts - and remap if necessary due to failures or maintenance downtime using a command line interface or the ATTO XstreamVIEW™ web based management console. The tape drives respond as if directly connected to the hosts.

ATTO XstreamCORE intelligent bridges are more than simple protocol converters. ATTO's exclusive xCORE acceleration engine implements the entire TCP/IP stack in hardware without CPU intervention. Designed for deterministic latency, the result is hardware-accelerated iSCSI with less than two microseconds of added latency.

ATTO XstreamCORE intelligent bridges also include Advanced Tape Error Recovery technology that works to reduce the impact of tape errors on the completion of backups and restores. Save time and money during installs and troubleshooting with advanced monitoring and diagnostic capabilities. A persistent time-stamped event log can gather over 40,000 software, hardware and network events.



About Qualstar

Qualstar Corporation was founded in California in 1984 to develop and manufacture digital storage solutions. By 1995, the company had concentrated its efforts on magnetic tape libraries used to store, retrieve, and manage digital data. Qualstar's libraries provide the ideal storage solution for the growing number of organizations that require a way to keep critical but rarely accessed information safe and secure for long-term storage. Backed by more than 35 years of experience, Qualstar has earned a reputation for trust and reliability. Today, the company offers a full range of tape libraries in various sizes and configurations to meet any requirements. It maintains a global footprint and is currently in the process of establishing a presence in China. Learn more at Qualstar.com

About ATTO

For over 30 years, ATTO Technology, Inc. has been a global leader across the IT and media & entertainment markets, specializing in network and storage connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO works with partners to deliver end-to-end solutions to better store, manage and deliver data. Working as an extension of customer's design teams, ATTO manufactures host bus adapters, network adapters, protocol bridges, Thunderbolt™ adapters, and software. ATTO solutions provide high level connectivity to all storage interfaces, including Fibre Channel, SAS/SATA, iSCSI, Ethernet, NVMe, NVMe over Fabrics and Thunderbolt. ATTO is the Power Behind the Storage.

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Features	XstreamCORE ET 8200 Tech Specs
Input Connectors	(2) 40GbE QSFP+
Output Connectors	(4) x4 12Gb mini-SAS HD (16 connections)
Network Protocols	iSCSI and iSER (iSCSI Extensions for RDMA using RoCE V2)
SAS Devices Supports	Up to (16) LTO-6, LTO-7 or LTO-8 tape drives
Hosts Supported	Up to 64
Form Factor	1U Rackmount – 1.735"H x 9.90"D x 17.31"W
Power Supplies	Dual hot swap redundant
Serial Management Port	RS-232 or USB
Management Protocols	SSH, SFTP, SNMPv3, SMTP, Redfish/Swordfish
Internet Protocols	IPv4, IPv6, DHCP
Warranty	2 year standard warranty - Optional advanced replacement 5 year

Qualstar Compact Tape Libraries

From simple installation to easy maintenance, the Q24 Compact LTO tape library is designed with reliability and the customer experience in mind. Feature-rich and compact in a rackmountable 2U enclosure, the Q24 offers capacities up to 288 terabytes (native) and 720 terabytes (compressed). The unit's built-in menu-driven operator control panel is intuitive, and the integrated browser-based remote management interface (RMI) offers all the same functionality. This enables IT administrators to remotely configure, manage and diagnose the library from anywhere in the world via the Internet. All field-replaceable components—such as the tape drive, power supply, and controller board—are removable with standard tools.