Adding Ethernet connectivity to HPE StoreEver MSL SAS libraries

An introduction to HPE StoreEver MSL tape solution

HPE StoreEver MSL tape libraries provide secure, scalable, and low-cost LTO Ultrium storage solutions that protect your data behind an air gap and help you neutralize the impact of ransomware attacks.

Expanding the potential of HPE StoreEver tape with Ethernet

To connect your HPE StoreEver MSL tape library to a network, the most common options are:

1. Connecting the library to a backup server via a SAS interface and sending all the backup traffic through a dedicated host.

2. Connecting a tape library, such as the HPE StoreEver MSL3040 Tape Library, to a Fibre Channel SAN, allowing multiple servers to access the tape device across the dedicated storage network.

But if your network environment is primarily Ethernet-based, how can you connect your tape library and benefit from the low cost, scalability, and security of HPE LTO tape?

The answer is high-speed Ethernet connectivity for SAS with HPE and ATTO Technology Inc.
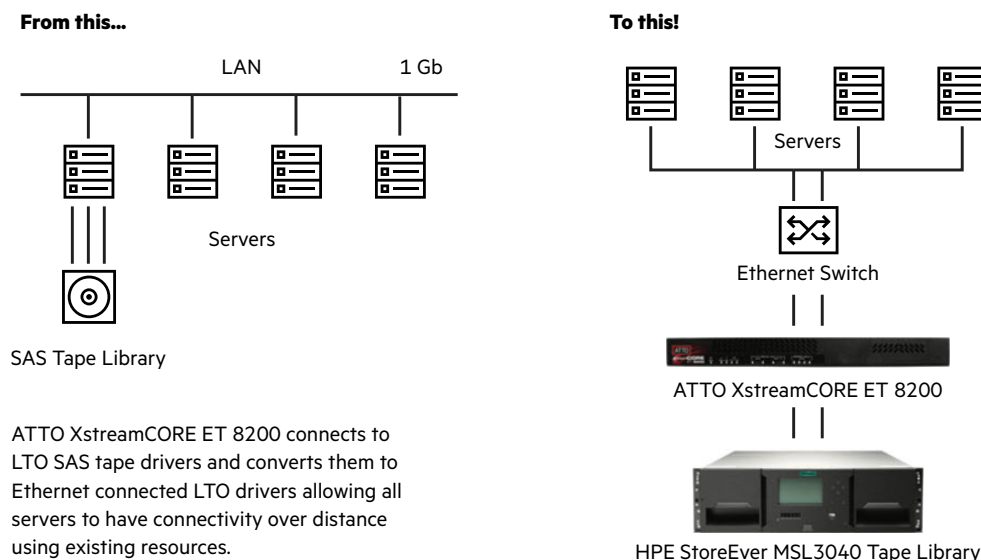
From this...

LAN   1 Gb

Servers

SAS Tape Library

ATTO XstreamCORE ET 8200 connects to LTO SAS tape drivers and converts them to Ethernet connected LTO drivers allowing all servers to have connectivity over distance using existing resources.

To this!

Servers

Ethernet Switch

ATTO XstreamCORE ET 8200

HPE StoreEver MSL3040 Tape Library

Figure 1. Example of how customers can migrate from SAS to Ethernet connectivity using an ATTO XstreamCORE ET 8200

ATTO XstreamCORE ET 8200 40 Gb adds Ethernet to SAS tape drives

The ATTO XstreamCORE ET 8200 40 Gb intelligent bridge allows you to remotely connect to SAS tape drives over standard Ethernet networks using iSCSI and iSER protocols. It adds shared storage benefits to SAS storage at direct attached speeds.

When combined with HPE StoreEver MSL LTO tape libraries, you can deliver Ethernet connected LTO tape for open compute, cloud-based, and hyperscale environments.

XstreamCORE provides Ethernet remote access to an HPE StoreEver MSL SAS-connected tape library, enabling the movement of tape storage away from computer resources. Optimized for high performance with multiple hardware acceleration engines, XstreamCORE provides industry-leading performance to up to 64 servers.

Key benefits of HPE StoreEver
• Scalable, low-cost storage for petabytes of data using LTO tape

• Advanced features of HPE Command View for Tape Libraries making it easy to manage your library from a single pane of glass, anywhere in the world

• Investment protection to re-use and upgrade older tape drives

• Ransomware protection provided by having data securely offline behind an airgap

Key benefits of ATTO XstreamCORE ET 8200 40 Gb
• Delivers the same performance as direct-attached SAS—no latency penalties

• Enables shared and distributed backup workflow over Ethernet, improving network performance and efficiency

• Requires fewer fabric switch ports

• Provides advanced monitoring and management by the ATTO bridge controller

• Supports up to 16 tape drives and libraries to be directly connected to the controller

• Communicates with multiple hosts and different tape drives

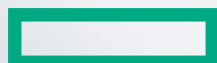• Is easy to configure and maintain

Table 1. Technical specifications

Features	ATTO XstreamCORE ET 8200 high-performance intelligent bridge tech specs
Input connectors	Two 40 Gb Ethernet
Output connectors	Four 12 Gb (x4) SAS
Protocols supported	iSCSI; iSCSI extensions for RDMA (iSER)
SAS devices supported	16 (using 4x1 SAS fanout cables) SAS LTO tape drivers
Max. performance	6000 MB/s
Form factor	1U Rackmount
Power supplies	2 hot-swap redundant supplies
Warranty	2-year standard warranty; optional advanced replacement and five year warranty available

Supported SAS tape drives

LTO-5 (for 1/8 autoloader, MSL2024 and MSL6480); LTO-6; LTO-7; LTO-8; LTO-9

Certified HPE StoreEver MSL Tape Libraries

1/8 G2 Autoloader	MSL2024	MSL3040	MSL6480

Product information
ATTO XstreamCORE 8200 XCET-8200-TP2

1m Cable CBL-8079-EX1

3m Cable CBL-8078-EX1

Resources

HPE Interoperability information:
hpe.com/Storage/StoreEverSupportMatrix

ATTO: atto.com/products

ATTO How to Buy: atto.com/howtobuy/

Learn more at
HPE.com/storage/storeever

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