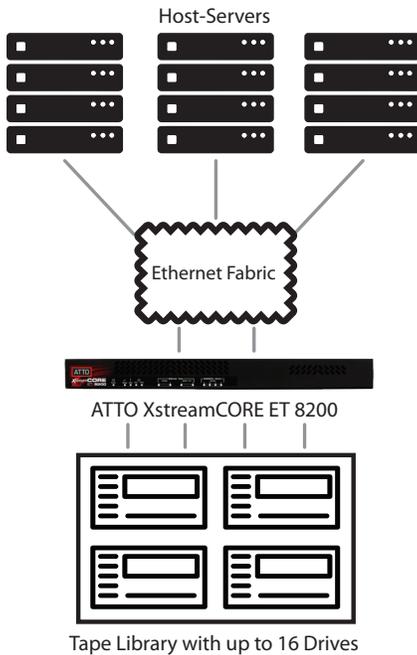# Extend Distance to Tape Devices

CONNECT LIBRARIES AND DRIVES TO ETHERNET OR FIBRE CHANNEL NETWORKS

EXTEND THE REACH OF SAS TAPE STORAGE

Host-Servers

Ethernet Fabric

ATTO XstreamCORE ET 8200

Tape Library with up to 16 Drives

XstreamCORE connects up to 16 SAS tape drives to an Ethernet fabric using iSCSI over TCP/IP, iSCSI over RDMA (iSER) or Fibre Channel. This allows organizations to remotely locate tape devices while benefitting from lower cost SAS connected tape drives and libraries.

TAPE DRIVE AND LIBRARY BENEFITS

Tape drives and libraries allow users to create backups on a consistent, regular schedule using a variety of backup software such as Veeam® Backup & Replication™ or they are able to copy data directly to tape with LTFS. This medium allows for backups that are lower cost and longer-lasting than hard drive backups. Individual LTO tape drives are available with SAS or Fibre Channel connectivity options while tape libraries typically have the same connection type and have the capability for slower 1Gb or 10Gb Ethernet.

TAPE DRIVE AND LIBRARY LIMITATIONS

When an organization wants to use a tape library remotely or outside of their primary data center the main option is Fibre Channel. This can be a challenge when there is no in-house Fibre Channel expertise or no physical method to connect Fibre Channel without a large investment. Existing Ethernet options may be too slow to keep up with demands of multiple LTO-8 drives due to their high rate of performance.

ATTO XSTREAMCORE™ CONNECTS SAS TAPE DEVICES OVER ETHERNET OR FIBRE CHANNEL

ATTO XstreamCORE™ interfaces with SAS tape drives or libraries allowing for full speed writes and reads to these devices over 40Gb Ethernet or 16Gb Fibre Channel. XstreamCORE then connects up to 64 hosts or backup servers directly to the tape devices over a fabric.

XSTREAMCORE ADVANTAGES

- XstreamCORE is a solid state 1U rackmount controller that was designed as an accelerated protocol converter to remotely connect SAS Tape devices, SATA optical devices and HDD/SSDs to Ethernet or Fibre Channel fabrics

- Total performance of up to 6.4GB/s throughput per controller allowing multiple connected LTO-8 SAS drives to take advantage of remote, high performance throughput

- XstreamCORE features ATTO SpeedWrite™ Early Response for Tape which keeps data paths between host and XstreamCORE filled with data to give a successful response to the host in parallel with sending commands to the drive. Hosts can send the next command down to XstreamCORE, making the system look like tape devices have double the queue depth. Multiple hosts can talk to different tape drives while all hosts benefit from SpeedWrite.

Extend Distance to Tape Devices

CONNECT LIBRARIES AND DRIVES TO ETHERNET NETWORKS

ABOUT ATTO TECHNOLOGY, INC.

For 30 years ATTO Technology, Inc. has been a global leader across the IT and media & entertainment markets, specializing in storage and network 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 and RAID adapters, network adapters, storage controllers, Thunderbolt™ adapters, and software. ATTO solutions provide a high level of 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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- XstreamCORE has switch-like features presenting SAS tape drives as Fibre Channel or iSCSI LUNs while also providing advanced LUN management features and diagnostics

- XstreamCORE features ATTO xCORE processor which accelerates all I/O in hardware ensuring consistent protocol conversion latency of less than 2 microseconds

- ATTO eCORE offload processor was developed to add and offload storage services and features from the I/O path, adding functionality while maintaining performance

ATTO Accelerated Protocol Conversion Appliance					
Product	**4K IOPS**	**Throughput**	**Host Ports**	**x4 SAS Ports**	**SKU**
XstreamCORE ET 8200	1.2M	6,400 MB/s	(2) - 40Gb Ethernet	4 (16 PHYs)	XCET-8200-002
XstreamCORE FC 7550	1.2M	6,400 MB/s	(4) - 16Gb Fibre Channel	4 (16 PHYs)	XCFC-7550-004