



ATTO XstreamCORE® 8100T

ATTO XstreamCORE 8100T Bridge adds Ethernet connectivity to SAS Tape storage to provide remote connectivity, sharing and common services with minimal added latency.

Technical Features

- Extend ethernet-enabled shared connectivity to SAS tape drives and libraries
- Connects up to 4 SAS Tape Drives using a x4 12Gb mini-SAS HD connector
- iSCSI Network Protocol enables Ethernet connectivity and maximizes interoperability
- ATTO Distributed Software Architecture (ADSA) provides an integrated and multitasking environment that self optimizes to changing I/O patterns while prioritizing data traffic and minimizing latency
- ATTO Advanced Data Streaming™ provides controlled acceleration for smooth data streaming
- Proprietary SpeedWrite™ and SpeedRead™¹ technology enhances tape performance over iSCSI
- Simplified and automatic SAS LUN mapping and management
- LTFS support for simplified access to data stored on LTO Ultrium
- Dedicated Ethernet management port allows easy remote configuration and adds diagnostics capabilities
- Ensure secured access to tape devices with access controlled

1 Patent Pending

ATTO XstreamCORE® 8100T 10Gb Ethernet to 12Gb SAS Intelligent Bridge

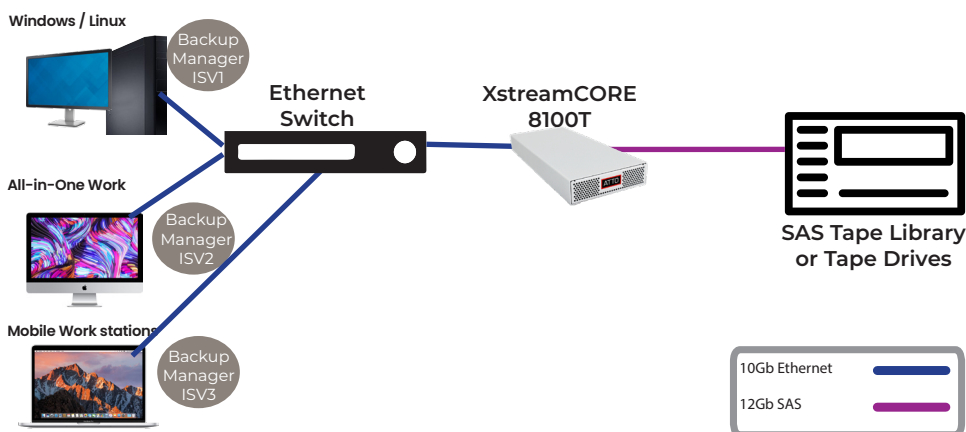
Extend SAS Tape Drive Connectivity Beyond the Rack

Over the last decade, IT complexity has grown exponentially as data growth continues to strain critical infrastructure resources. The development of cloud platforms, big data, data analytics, and distributed computing has led to an increase in the number and scale of data center deployments. Extending connectivity to SAS tape beyond the rack has always been challenging as it is limited by the SAS interface.

Data protection and backup has moved to a decentralized model which has resulted in the creation of silos across multiple locations. This could be within the same data center, across a campus or even at edge computing locations. ATTO XstreamCORE 8100T helps bridge this gap by elevating common control for backup and archive workflows across an Ethernet network. Additionally, File and Object Storage are growing at a much faster rate than block storage. Ethernet is better suited to handling this unstructured data while providing a lower cost of implementation compared to Fibre Channel tape connectivity.

Power Backup & Archive with Unmatched Simplicity and Efficiency

ATTO XstreamCORE 8100T is a simple, purpose-built, and cost-effective intelligent bridging solution allowing businesses and enterprises to deploy secured and shared access to tape storage over a 10Gb Ethernet iSCSI network. Powered by a custom chipset and ATTO engineered software, 8100T sets a new standard for tape library connectivity. 8100T allows up to eight iSCSI host logins to connect up to four SAS tape drives with an aggregate throughput of up to 2000 MBps, maximizing drive shareability.



XstreamCORE 8100T features patented ATTO SpeedWrite technology to ensure that tape drives fully utilize the available bandwidth. The bridge is equipped with a dedicated management interface that uses a secure CLI or a user-friendly web-based tool for ease of setup and diagnostics. XstreamCORE 8100T offers a secure digital pathway to integrate data resilience for protecting sensitive business applications and customer data, ensuring workplace collaboration and productivity, and fueling growth.

ATTO Data Acceleration

ATTO Distributed Software Architecture (ADSA) is the heart of the XstreamCORE 8100T.

A self-optimizing real-time operating system designed specifically for embedded hardware, ADSA acts as a translator of one protocol to another and integrates advanced protocol, error handling and application requirements into an existing infrastructure. The on-board data acceleration technology features multiple parallel I/O engines with end-end I/O processing and intelligent management of hardware buffer allocation.

The ATTO Distributed Software System provides a cooperative, multi-tasking environment complete with a core set of services for our product applications. ADSA architecture is designed to maximize workflow productivity and enhance control over backup and archive platforms.

Designed for Sustainability

Sharing libraries typically requires costly Fibre Channel infrastructure, or the use of servers in front of the tape libraries to enable Ethernet connectivity. Servers require more power and cooling, expensive licenses, maintenance, and take up rack space.

ATTO XstreamCORE 8100T intelligent bridges provide a simple, low-maintenance connectivity option. Each bridge consumes less than 30 Watts and can easily be embedded in a tape library using standard connections, or a small external chassis can be installed in a standard data center 1U rack. This results in lower power budget requirements for the infrastructure design.

Connectivity

Ethernet Specifications

- 2x 10GbE SFP+ (or) RJ45 SFP ports
- IPv4/IPv6
- iSCSI Network Protocol Support
- Multi-Initiator Access

SAS Specifications

- Single x4 12Gb/s mini-SAS HD connector
- Auto negotiates 12Gb/6Gb
- SAS-2, SAS-3
- SAS TLR

Tape Drive Specifications

- Supports up to four SAS Tape drives per bridge
- Supports LTO 5 (or) later

Management

- Dedicated RJ45 1GbE management port
- Built-in ACL (Access Control List) support to limit target visibility
- CHAP Authentication to prevent unauthorized access to target devices
- CLI over SSH, File Transfer over SFTP
- Simplified configuration and diagnostics capabilities via CLI
- User friendly web-based GUI for easy setup, configuration, and management.
- Core dump error and event log analysis
- Built-in temperature monitoring
- Support for leading ISVs

Form Factor

- Standalone/Desktop

Product Dimensions

- 1.2" x 4.0" x 9.4" (30.5mm x 103.5mm x 240mm)
- Weight 2.05 pounds (with SFPs) 2.00 pounds (without SFPs)

Operating System Support

- OS independent - iSCSI initiator required

Power and Airflow

- Typical Power 23W, Max Power 25W
- 100% duty cycle at 35°C
- 200 LFM airflow - Ambient air not to exceed 40°C

Operating Environment

- Temperature 5°C - 40°C at 10,000 ft
- Humidity 10% - 90% non-condensing

Agency Approvals & Compliance

Safety

- EN62368, UL 62368

EMI/EMC

- FCC Part 15 Class A, EN55032 class A, EN55024, ICES-003 Class A, AS/NZS, VCCI
- RoHS 3 2016/863/EU

Warranty

- Three year standard product warranty

ATTO XstreamCORE	XCET-8100-TS0	XCET-8100-TN0
Input Connectors	(2) 10Gb Ethernet	(2) 10Gb Ethernet
Connector Type ¹	SFP+ Optical	RJ45 SFP Copper
Tape Drive Interface	(1) 12Gb/s miniSAS HD	(1) 12Gb/s miniSAS HD
Connector Type	SFF 8644	SFF 8644
Number of Supported Drives	Up to 4	Up to 4
Tape Drive Generation	LTO 7 or later	LTO 7 or later
Power	25W	29W
Form Factor²	Desktop	Desktop

¹ SFP modules are included. Contact ATTO sales for long range options.

² Unit(s) can be easily rack mounted using ATTO FlexRack™

About ATTO

For over 35 years, ATTO Technology, 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.

Contact ATTO for OEM specifications and custom configurations.