SOLUTION BRIEF

Dell + Spectra Logic: Ethernet-Connected Tape Storage with ATTO XstreamCORE® 8100T

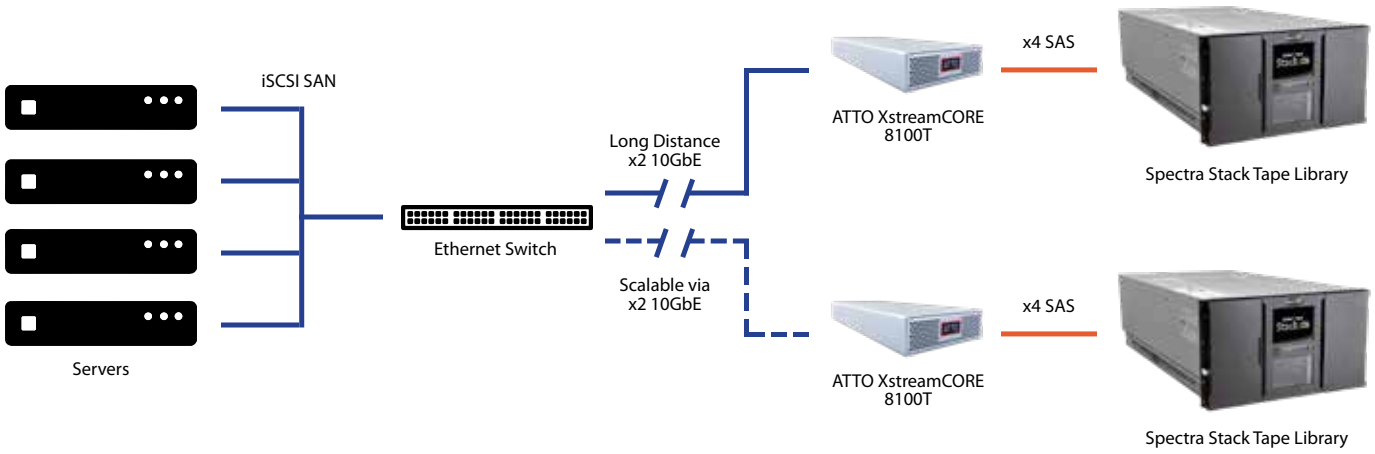
Scalable, Secure, Modern Data Backup & Archive

Organizations are experiencing rapid data growth—from AI-driven workflows and video to financial and healthcare records—requiring secure, durable, and sustainable long-term storage. Tape remains unmatched for cost efficiency, reliability, and energy savings, but legacy direct-attached SAS systems can limit scalability and sharing.

The Spectra® Stack Tape Library combined with the ATTO XstreamCORE 8100T iSCSI-to-SAS Bridge enables Ethernet-connected tape storage that integrates into existing network infrastructure. This modern architecture simplifies deployment, removes direct-attach constraints, and allows centralized, shareable, and remotely accessible tape resources.

Key Advantages

- **Seamless Ethernet Integration –** Connect tape infrastructure to Ethernet networks using existing infrastructure.
- **Scalable Capacity –** Add library modules or additional bridges to scale capacity as needed, without the need to provision, configure, or manage additional servers.
- **Backup and Archive over long distances –** No longer constrained by SAS limitations. Support remote facilities without co-located servers.
- **Cost Efficiency –** Lowest cost per terabyte for archive storage, with significant energy savings compared to disk-based systems.



Summary

The Dell + Spectra Stack with ATTO 8100T solution transforms tape storage into a modern, Ethernet-integrated resource. It delivers enterprise-class scalability, security, and sustainability—meeting the demands of AI-driven, data-intensive environments while preserving the long-term value of archived data.

Download Spec Sheets

ATTO XstreamCORE Intelligent Bridges

Spectra Stack Tape Libraries

ATTO XstreamCORE 8100T:
Intelligent Bridge

The ATTO XstreamCORE 8100T connects SAS LTO tape drives to 10Gb Ethernet networks via iSCSI, enabling multiple hosts to share tape devices.

ATTO XstreamCORE 8100T front

ATTO XstreamCORE 8100T connectivity

Technical Specifications:

- **Network Connectivity:** 2 x 10GbE SFP+/RJ45 ports (iSCSI)
- **Tape Drives Supported:** Up to 4 SAS LTO drives (LTO-5 or later)
- **Tape Connector:** Single x4 12Gb/s miniSAS HD
- **Maximum Throughput:** 2,000 MB/s
- **Security Features:** CHAP authentication and Access Control Lists (ACLs) for secure tape access
- **Additional Features:** Supports LTFS and tape hardware management
- **Operating System Independent**

Deployment:

The 8100T is installed between the Spectra Stack library and the ethernet network, enabling seamless integration with existing Ethernet infrastructure.

Dell Part Numbers:

XCET-8100-TN0	AD408055
XCET-8100-TS0	AD407891

Learn more about ATTO 8100T intelligent bridges:
8100T product page at atto.com

Spectra Stack Tape Library:
Modular and Scalable

The Spectra Stack is designed for enterprises with growing data needs, offering modular expansion and high reliability for backup and archive workloads.

Spectra Stack 6U library module

Technical Specifications:

- **Tape Drives Supported:**
  - **Control Module:** Up to 3 full-height (FH) drives
  - **Expansion Module:** Up to 3 FH drives
  - **Maximum Configuration (1 control + 6 expansion modules):** 21 FH drives
- **Media Slots:** 80 per module; up to 560 in maximum configuration
- **Native Capacity:** 3.2 PB per module; up to 22.4 PB in maximum configuration
- **Compressed Capacity (2.5:1 ratio):** 8.0 PB per module; up to 42.0 PB in maximum configuration
- **Throughput:** 4.3 TB/hr per module; up to 30.2 TB/hr in maximum configuration
- **Supported Tape Technology:** LTO-10 | LTO-9 | LTO-8 | LTO-7 | LTO-6 | LTO-5
- **Partitioning:** Supports up to 20 concurrent library partitions for streamlined data management
- **Duty Cycle:** 100%, ideal for dynamic or unpredictable workloads

Learn more about Spectra Stack libraries:
Spectra Stack product page at spectralogic.com