



ATTO Technology, Inc.

FastStream™ TSM

Tape Storage Management that Enhances Efficiency and Productivity of Tape Storage Systems

The amount of data organizations need to backup is increasing at a prodigious rate. This places added pressure on IT departments to efficiently utilize and manage their tape storage. The inherent capabilities of tape storage, while adequate for routine backups, is quickly being outpaced by the demands data proliferation and government regulations are making.

The ATTO FastStream Tape Storage Manager offers a wealth of benefits to users utilizing tape storage systems in their backup infrastructures. By adding a FastStream Tape Storage Manager to a tape storage system, the storage is enhanced with features such as increased performance, enhanced data protection and improved management capabilities in their tape storage.

The FastStream Tape Storage Manager enhances the performance of tape systems with SpeedWrite™, an ATTO-designed performance enhancing capability, which ensures the path between the host and tape manager is continuously filled with data, reducing the latency associated with pauses between Write commands.

The FastStream Tape Storage Manager also offers support for striping, mirroring and parity protection. By adding RAID to tape systems, both the performance and reliability of your storage is improved. By operating attached devices in parallel as a Striped set, performance of tape systems is enhanced. The RAID capabilities of the FastStream Tape Storage Manager increases the reliability of your storage, and allows for a level of data protection that is not achievable with a traditional tape storage system.

Management of tape storage is also improved with an ATTO FastStream Tape Storage Manager and the included ExpressNAV™, which simplifies configuration, administration and diagnostics by utilizing an easy-to-use web-based GUI.

The FastStream Tape Storage Manager offers two 4-Gb Fibre Channel host interfaces, while options for the target interface include Ultra320 SCSI and 4-Gb Fibre Channel. With a high-performance architecture and industry-leading support for 4-Gb Fibre Channel, FastStream Tape Storage Managers are the optimal choice for users seeking to make the most of their tape storage.



Product Features

Blazing Fast Performance

- Backup more data in less time with aggregate performance through multiple ports at over 1.5 TB/hr.
- Reduce backup windows by running multiple concurrent backups

Smooth Data Streaming

- Maximize media performance with Speedwrite™, an ATTO-designed technology which efficiently queues outstanding write commands
- Reduce failed backups due to busy or slow-to-respond storage with ATTO's exclusive Virtual Drive Response (VDR)
- Optimize server performance by offloading backup duties with Serverless Backup support

One Click Installation

- Simplify configuration and management of FastStreams with ExpressNAV™, ATTO's easy-to-use web-based GUI
- Reduce time spent on initial set-up with features such as automatic LUN mapping
- Quickly and easily integrate additional bridges into SANs with the ability to save and restore bridge configurations

SAN Connectivity

- Single point of management for storage behind the bridge
- Add Fibre Channel connectivity to SCSI tape storage

Technical Specification
FastStream™ TSM

Technical Highlights

- Two 4-Gigabit Fibre Channel host interface ports
- Two 4-Gigabit Fibre Channel or two Ultra320 SCSI device interface ports
- 800 MB/sec. maximum throughput
- Mirroring, Striping, Parity Protection
- Features intelligent Bridging Architecture for optimized performance
- Port mapping
- SNMP, MIB support
- ExpressNAV™ browser-based GUI for remote administration and diagnostics
- SpeedWrite™ enhances write performance by efficiently managing outstanding commands
- RoHS Compliant
- 2-year standard product warranty

Appliance Preliminary

For More Information:
www.ATTOTech.com
or to Purchase:
www.ATTOSTore.com
(716) 691-1999



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Preliminary

Hardware	
Host Interface	<ul style="list-style-type: none"> • Two 4-Gigabit Fibre Channel ports auto negotiate to 1- and 2-Gigabit Fibre Channel • SFP Fibre Channel Connectors • Support for direct connect to F-port fabric switches • Full support for full duplex Fibre Channel data transfers • Full support for FC-AL, PLDA and public loop login
Device Interface	<ul style="list-style-type: none"> • Two 4-Gigabit Fibre Channel ports or two Ultra320 SCSI busses • Fibre Channel ports auto-negotiate to 1- and 2-Gigabit Fibre Channel • SCSI ports backwards compatible with all previous SCSI protocols
Management	
Device Management Physical Interface	<ul style="list-style-type: none"> • Serial through RS-232 Port • Network through 10/100 BaseT Ethernet Port (Telnet, FTP and SNMP)
Device Management User Interface	<ul style="list-style-type: none"> • Command Line Interface (CLI) • ATTO ExpressNAV™ web-based integrated management console • Performance reporting and Error Logging (CLI commands)
LEDs	<ul style="list-style-type: none"> • Power • Ready • Fault • FC activity, link and speed • SCSI activity and link • Ethernet activity and link
Agency Approvals (Pending)	
Safety and Environmental	<ul style="list-style-type: none"> • FCC Class A • CE (EN55022/EC50024) • CSA • RoHS Compliant
Environmental and Physical Specifications	
Dimensions	<ul style="list-style-type: none"> • Desktop: 1U H x 11" L x 17" W • Embedded: 6.193" W x 6.299" L
Operating Environment	<ul style="list-style-type: none"> • Temperature: 0-40° C • Humidity: 20-80% non-condensing
Power	<ul style="list-style-type: none"> • Desktop - Input: 100-240 VAC+-18% 50/60 Hz • Embedded - Input: 5A @ 5V
Configurations	<ul style="list-style-type: none"> • 1U Desktop/Rack mount • 4U cPCI Embedded



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