



ATTO Technology, Inc.

# FastStream™ SC 8500

SAN Storage Controller for SAS/SATA Storage



## Product Features

### Collaborative Workflow

- Multiple fibre channel ports allow small workgroups to share storage without the need for an expensive fibre channel switch

### Instant Data Protection

- Aggregate inexpensive JBOD storage to create a high performance, data protected solution
- When used with ATTO Celerity Multipathing additional reliability is provided in the event of a Fibre Channel link failure

### Blazing Fast Performance

- 8-Gigabit connectivity provides the highest available bandwidth for streaming applications
- Single lane performance burst speed provides up to 800 MBps
- The FastStream SC provides the performance to support 4K and 2K digital film or YUV 10-bit uncompressed high definition video

### Smooth Data Streaming

- Support for multiple workstations accessing data over a SAN
- Add additional storage with on-the-fly capacity expansion and expand existing RAID groups while keeping all data intact

### One-click Installation

- One button setup wizards optimize for Video, Audio, Database and General IT environments

## FastStream Storage Controller provides 8-Gigabit Fibre Channel RAID Protected Storage for high performance applications

The FastStream SC 8500 Storage Controller is a scalable RAID controller that delivers high performance access to data and data protection for applications in DVA and IT infrastructures including 4K and 2K digital film production, high-definition video post, digital prepress, disk-to-disk backup, imaging, email compliance, data warehousing, data mining and transaction based environments.

ATTO FastStream Storage Controllers provide best of class performance and instant RAID parity protection to any SAS or SATA storage device; FastStream allows you to mix SAS and SATA storage to integrate into a tiered storage solution and access non-block storage (Tape and Optical drives) alongside your disk storage.

Designed as a 1U external appliance which integrates with SAS or SATA storage to provide instant RAID protection to up to 10 JBOD arrays, the FastStream SC 8500 provides a cost-effective alternative to purchasing additional RAID arrays. Whenever storage needs exceed existing capacity Online Capacity Expansion allows you to expand or add new RAID groups just by connecting an additional JBOD drive enclosure.

By utilizing the “one-click” set-up wizard provided by the ExpressNAV™ Storage Manager, tailoring storage to your environment has never been easier. Advanced intelligence features such as Phone Home email alerts and real-time performance metrics make it simple to manage and maintain your storage.

## Technical Highlights

- DVRAID™ and RAID 0, 1, 4, 5, 6, 10, 40, 50 and 60
- Celerity Multipathing support for OS X, Windows and Linux
- Four 8-Gigabit Fibre Channel Host Ports
- Eight 3-Gigabit SAS / SATA wide Device Lanes via two (x4) connectors
- Supports up to 128 SAS and/or SATA Storage Devices (Disk, Tape, etc)
- Up to 1.4 GB/sec throughput with SAS
- 1GB ECC protected cache memory
- SCSI Enclosure Services
- Advanced Management via the ExpressNAV™ Storage Manager
- Drive Verification and Performance Metrics
- Email Alert Notification
- RoHS Compliant
- 2 Year Warranty

Technical Specification  
FastStream SC 8500

## Storage Appliance

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

Technical Features	
RAID Levels	<ul style="list-style-type: none"> <li>• JBOD, DVRAID, 0, 1, 4, 5, 6, 10, 40, 50 and 60 plus N-way mirroring</li> </ul>
Key Features	<ul style="list-style-type: none"> <li>• Celerity Multipathing Support</li> <li>• Tunable RAID Rebuild Priority</li> <li>• Connect up to 128 storage devices</li> <li>• Dedicated and Global Hot Spares</li> <li>• Configuration Cloning</li> <li>• Drive Initialization and Verification</li> <li>• Partitioning of RAID Volumes</li> <li>• Port Mapping for LUN Isolation</li> <li>• SCSI Enclosure Services (SES)</li> <li>• Configurable Sector Sizes to 8KB</li> <li>• Enclosure Aware RAID Group Creation</li> <li>• Hot Swap with Auto Rebuild</li> <li>• Battery Backed Event Log</li> <li>• ECC Protected Memory</li> <li>• Phone Home email Error Notification</li> <li>• Field Upgradeable Firmware</li> </ul>
Hardware Specifications	
Fibre Channel Interface	<ul style="list-style-type: none"> <li>• 8-Gigabit, auto-negotiates to 4/2 Gigabit devices</li> <li>• Four Optical SFP (Small Form Factor Pluggable) Fibre Channel ports</li> <li>• Full support for direct connect for F-port fabric switches</li> <li>• Class 3 and Intermix ANSI Fibre Channel Specifications</li> <li>• PLDA, public loop login (NL-ports) and fabric connect (N-port)</li> <li>• Full-duplex transmissions</li> </ul>
SAS/SATA Interface	<ul style="list-style-type: none"> <li>• Eight 3-Gb SAS/SATA lanes via two four-port MiniSAS (SFF-8080) connectors</li> </ul>
Management Interface	<ul style="list-style-type: none"> <li>• RJ-45 connector for Ethernet management port</li> <li>• RS-232 serial header console port</li> </ul>
Management	
Setup and Monitoring	<ul style="list-style-type: none"> <li>• Simplified one-click setup allows for system setup in just minutes</li> <li>• Built in read-only drive performance monitoring allows you to gauge storage performance while host-based applications are in use</li> </ul>
Local and Network Management	<ul style="list-style-type: none"> <li>• ExpressNAV™ storage manager browser-based user interface for remote configuration, management and diagnostic capabilities</li> <li>• Local diagnostics supported via CLI, Telnet and FTP</li> <li>• Command line and menu-based ASCII text management access via the Ethernet management port and ExpressNAV</li> </ul>
Environmental & Physical Specifications	
Dimensions	<ul style="list-style-type: none"> <li>• 1.69" (1U) H x 17.31" W x 9.9" L</li> </ul>
Operating Environment	<ul style="list-style-type: none"> <li>• Temperature: 5 - 40° C • Humidity: 10 - 90% non-condensing</li> </ul>
Storage Environment	<ul style="list-style-type: none"> <li>• Temperature: -40 - 70° C • Humidity: 5 - 95% non-condensing</li> </ul>
Power	<ul style="list-style-type: none"> <li>• Input: 100-240 VAC, 2.5A, 47-63 Hz</li> </ul>
Fixed Airflow	<ul style="list-style-type: none"> <li>• 11 CFM</li> <li>• Ambient air not to exceed 40° C</li> </ul>
RoHS Compliant	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Ordering Information	
Model Number	FSSC-8500-D00 / 8500 - Available January 2009