



ATTO Technology, Inc.

# FastStream™ SC 8200

SAS to SAS/SATA RAID Storage Controller



## Product Features

### Collaborative Workflow

- Multiple SAS links allow several workstations to access storage

### Instant Data Protection

- Aggregate inexpensive JBOD storage to create a high performance, data protected solution
- Multiple paths to storage provide additional reliability in the event of a link failure

### Blazing Fast Performance

- 6-Gigabit connectivity provides the highest available bandwidth for streaming applications
- The FastStream SC provides the performance to support digital film, YUV 10-bit uncompressed high definition video and multiple streams of DVCPRO HD video

### Smooth Data Streaming

- ADS technology manages latency to maximize stream counts within available bandwidth
- Allocate storage as needed on an application by application basis with the on-the-fly capacity expansion.
- Add additional storage 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 Controllers Enable High Performance Storage for Collaborative Environments

The ATTO FastStream SC 8200 enables shared storage using SAS connections available on editing workstations, PCIe slots are quite valuable, and the availability of these slots are becoming difficult to come by with production specific cards for video, compression, editing and sound cards among those vying for space.

FastStream Storage Controllers sit in front of JBOD storage to provide best of class performance and instant RAID parity protection. Mix SAS and SATA storage to integrate into a tiered storage solution and access non-block storage (Tape and Optical drives) alongside disk storage. FastStream adds advanced intelligence features such as Phone Home email alerts, real-time performance metrics, Multipathing, hot spares and more.

ATTO's Advanced Data Streaming (ADS™) technology manages latency by providing controlled acceleration for smooth data streaming. Normally, disk drive head contention limits performance by not providing enough constant bandwidth for many streams of video or audio, ADS eliminates contention issues to maintain the highest peak performance to allow more streams of video and audio than controllers with similar performance claims.

FastStream also features tunable rebuild technology which enables full access to data in degraded or rebuild mode providing maximum system bandwidth to applications while a RAID group repairs itself. This allows projects to complete on time and under budget in the event of a drive failure.

FastStream is suited for digital film production, high-definition video post, digital prepress, disk-to-disk backup, imaging, email compliance, data warehousing, data mining and transaction based environments.

## Technical Highlights

- DVRAID™ and RAID 0, 1, 4, 5, 6, 10, 40, 50 and 60
- Sixteen 6Gb SAS host device lanes via four four-lane connectors
- Eight 3Gb SAS/SATA device lanes via two four lane connectors
- Supports up to 128 SAS and/or SATA Storage Devices (Disk, Tape, etc)
- 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 8200

## Storage Controller

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>• 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	
SAS Host Interface	<ul style="list-style-type: none"> <li>• Sixteen 6Gb SAS/SATA ports via four mini-SAS SFF-8088 SAS connectors</li> </ul>
SAS/SATA Storage Interface	<ul style="list-style-type: none"> <li>• Eight 3Gb SAS/SATA ports via two mini-SAS SFF-8088 SAS 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	<ul style="list-style-type: none"> <li>• FSSC-8200-D00</li> </ul>