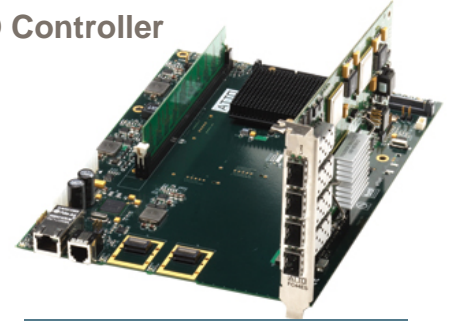




ATTO Technology, Inc.

# FastStream™ SC 8500E

Embeddable FC to SAS/SATA RAID Controller



## Embeddable RAID Controller provides high bandwidth 8-Gigabit storage targets

### 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

- Instantly add parity protection to storage to ensure data is protected without compromising performance
- When used with ATTO Celerity Multipathing, multiple paths to storage provide additional reliability 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

The ATTO FastStream SC 8500E is an embeddable 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.

ATTO designed the FastStream to take advantage of the latest in storage connectivity and processor technology, these two benefits provide a path for OEMs to provide products with the fastest time to market. By embedding the FastStream SC 8500E into a storage product and private labeling the browser interface, OEM customers can be sure to lower OEM development costs while creating a portfolio which compliments existing product lines.

Designed as an embeddable microATX RAID Controller which integrates with SAS and/or SATA storage to provide instant RAID protection and advanced intelligence, FastStream RAID Controllers can be seamlessly integrated into standard ATX or custom storage enclosures to provide a high performance storage solution.

The FastStream 8500E adds advanced intelligence features such as Phone Home email alerts, real-time performance metrics, N-way mirroring, global hot spares and more. Users can add storage as needed, when needed with the capacity expansion feature. Specific OEM-only features are available to provide a more synergistic look and feel to your product.

### Technical Highlights

- DVRAID™ and RAID 0, 1, 4, 5, 6, 10, 40, 50 and 60
- Celerity Multipathing support for OS X, Windows & Linux
- Four 8-Gigabit Fibre Channel Host Ports
- Eight 3-Gb SAS/SATA Device Lanes via two four-port connectors
- Supports up to 32 SAS and/or SATA Disk Drives in a single enclosure
- Optional External four lane connector for capacity expansion
- Up to 1.4 GB/sec throughput with SAS
- 1GB ECC Protected Cache Memory
- SCSI Enclosure Services
- ExpressNAV™ Storage Manager user interface
- Drive Verification and Performance Metrics
- Email Alert Notification
- RoHS Compliant

Technical Specification  
FastStream SC Embedded

microATX RAID Controller  
OEM Only

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



# FastStream™ SC 8500E

ATTO Technology, Inc. RAID Storage Controller

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>• ATTO Celerity Multipathing Support</li> <li>• Tunable RAID Rebuild Priority</li> <li>• Real-time Performance Metrics</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>• Media Error Handling</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> </ul>
SAS/SATA Interface	<ul style="list-style-type: none"> <li>• Eight 3-Gb SAS/SATA lanes via two internal SFF-8084 SAS connectors</li> <li>• Optional external 3-Gb SAS/SATA SFF-8088 miniSAS connector</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>• 177.80mm (w) x 1U* (h) x 244mm (l) (*Up to 3U depending on configuration)</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: 12 VDC +/- 10%, 6A</li> </ul>
Recommended Airflow	<ul style="list-style-type: none"> <li>• 11 CFM - Ambient air not to exceed 40° C</li> </ul>
RoHS Compliant	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Ordering Information	
Model Numbers	FSSC-8500-E00 / 8500E

Technical Specification  
FastStream SC Embedded



Power Behind the Storage

For More Information:  
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