



ATTO Technology, Inc.

FastStream™ SC 8200E

Embeddable SAS to SAS/SATA RAID Controller



Embeddable RAID Controller adds instant RAID protection and ensures high storage availability

Product Features

Collaborative Workflow

- Multiple SAS links allow several workstations to access storage

Instant Data Protection

- Instantly add parity protection to storage to ensure data is protected without compromising performance
- 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

The ATTO FastStream SC 8200E 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.

The FastStream SC 8200E was designed as an embeddable microATX RAID Controller which integrates with SAS and/or SATA storage to provide instant RAID protection and advanced intelligence features. FastStream RAID Controllers can be seamlessly integrated into standard ATX or custom storage enclosures to provide a high performance storage solution. OEM-only features are available to provide a more synergistic look and feel to your product.

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 6-Gb SAS host device lanes via four four-lane connectors
- Eight 3-Gb SAS/SATA device lanes via two four lane connectors
- Optional External four lane connector for capacity expansion
- 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 Error Notification
- RoHS Compliant

Technical Specification
FastStream SC Embedded

microATX RAID Controller

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



FastStream™ SC 8200E

ATTO Technology, Inc. RAID Storage Controller

Technical Features	
RAID Levels	<ul style="list-style-type: none"> • JBOD, DVRAID, 0, 1, 4, 5, 6, 10, 40, 50 and 60 plus N-way mirroring
Key Features	<ul style="list-style-type: none"> • Multipathing Support • Tunable RAID Rebuild Priority • Connect up to 128 storage devices • Dedicated and Global Hot Spares • Configuration Cloning • Drive Initialization and Verification • Partitioning of RAID Volumes • Port Mapping for LUN Isolation • SCSI Enclosure Services (SES) • Configurable Sector Sizes to 8KB • Enclosure Aware RAID Group Creation • Hot Swap with Auto Rebuild • Battery Backed Event Log • ECC Protected Memory • Phone Home email Error Notification • Field Upgradeable Firmware
Hardware Specifications	
SAS Host Interface	<ul style="list-style-type: none"> • Sixteen 6Gb SAS/SATA phys via four (x4) mini-SAS SFF-8088 SAS connectors
SAS/SATA Storage Interface	<ul style="list-style-type: none"> • Eight 3Gb SAS/SATA phys via two internal (x4) SFF-8084 SAS connectors • Optional external 3Gb SAS/SATA SFF-8088 mini-SAS connector
Management Interface	<ul style="list-style-type: none"> • RJ-45 connector for Ethernet management port • RS-232 serial header console port
Management	
Setup and Monitoring	<ul style="list-style-type: none"> • Simplified one-click setup allows for system setup in just minutes • Built in read-only drive performance monitoring allows you to gauge storage performance while host-based applications are in use
Local and Network Management	<ul style="list-style-type: none"> • ExpressNAV™ storage manager browser-based user interface for remote configuration, management and diagnostic capabilities • Local diagnostics supported via CLI, Telnet and FTP • Command line and menu-based ASCII text management access via the Ethernet management port and ExpressNAV
Environmental & Physical Specifications	
Dimensions	<ul style="list-style-type: none"> • 177.80mm (w) x 1U* (h) x 244mm (l) (*Up to 3U depending on configuration)
Operating Environment	<ul style="list-style-type: none"> • Temperature: 5 - 40° C • Humidity: 10 - 90% non-condensing
Storage Environment	<ul style="list-style-type: none"> • Temperature: -40 - 70° C • Humidity: 5 - 95% non-condensing
Power	<ul style="list-style-type: none"> • Input: 12 VDC +/- 10%, 6A
Recommended Airflow	<ul style="list-style-type: none"> • 11 CFM • Ambient air not to exceed 40° C
RoHS Compliant	<ul style="list-style-type: none"> • Yes
Ordering Information	
Model Number	<ul style="list-style-type: none"> • FSSC-8200-E00

Technical Specification
FastStream SC Embedded



Power Behind the Storage

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