

ATTO Celerity FC-42XS Storage Adapter

Storage Adapter

4-Gb!!

Dual-channel 4-Gigabit Fibre Channel Storage Adapter Featuring ADS™ Technology

The fastest storage technology just got better!

The Celerity FC-42XS is the next generation in storage technology, leveraging the latest in storage performance – 4-Gigabit Fibre Channel – for the fastest throughput available today. ATTO Celerity storage adapters are an integrated family of advanced storage connectivity solutions.

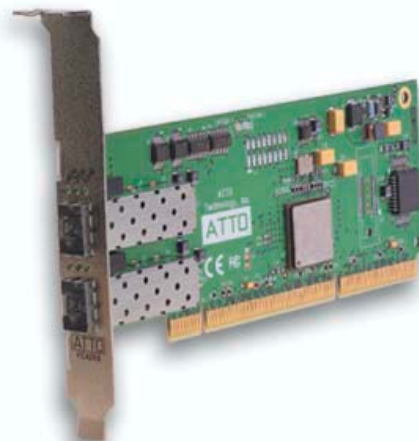
With speeds of up to 800 MB/sec., the FC-42XS is capable of supporting the most intensive data applications, including digital content creation, tape streaming and backup, rich content delivery, and complex database environments.

The dual-channel Celerity FC-42XS storage adapter provides the highest performing throughput for Fibre Channel applications while protecting technology investments via backward compatibility with existing infrastructure.

To ensure a smooth transition path, the FC-42XS leverages the existing Celerity FC software and hardware architecture, allowing ATTO to deliver industry-leading quality and stable software architecture.

The FC-42XS is part of ATTO's Celerity family of storage connectivity products. These products are designed to provide reliable connectivity, intelligence and scalability. Meeting tomorrow's connectivity needs today, Celerity FC storage adapters extend the capabilities of software and hardware, relieving them from their data-management burdens.

Increase overall system performance and drive intelligence all the way to the edge of the SAN. Celerity, a platform for advanced storage connectivity.



TECHNICAL HIGHLIGHTS

- Dual-channel 4-Gigabit Fibre Channel storage adapter
- 800 MB/sec. throughput in full-duplex mode
- Exclusive Advanced Data Streaming (ADS™) Technology
- Proven industry interoperability with support for SNIA HBA API
- Driver support for Linux, Windows® and Mac® OS X
- Backward compatible with 2-Gig and 1-Gig Fibre Channel
- 2-year standard product warranty

ATTO

ATTO Technology, Inc.
attotech.com

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155 CrossPoint Parkway • Amherst, NY 14068 • 716.691.1999

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Hardware Specifications

Fibre Channel Interface

- Two independent FC ports
- 4-Gigabit FC data-transfer rates
- 800 MB/sec. maximum full-duplex throughput
- Supports all FC topologies: direct fabric, arbitrated loop and point-to-point
- ANSI Fibre Channel: FC-PH, FC-FCP, FC FCP2, FC-AL, FC-AL2, FC-PLDA, FC-FLA
- Flash ROM for easy field upgrades
- FC Class 3 support
- Local management and diagnostics
- Buffer Credits: 8 @ 512 bytes; 8 @ 2k bytes

Advanced FC Capabilities:

- Supports SNIA HBA API
- Supports Target and Initiator modes
- LUN masking
- Interrupt coalescing

PCI Bus Specifications:

- 64-bit, 133 MHz PCI-X
- PCI-X 1.0a compliant
- PCI 2.2 compliant
- 3.3V PCI signaling only

External Connectivity:

- Easy-to-install full height connection bracket
- External LEDs for on-line and speed status for each channel
- Two (2) transceivers included

Software Specifications:

Driver Support:

- Windows Server 2003
- Windows XP
- Windows 2000
- Linux (Red Hat, SUSE)
- Mac OS X (10.3.x Panther)
- Universal boot support
- Advanced Data Streaming (ADS™) Technology

Agency Approvals

- FCC Rules, part 15, Class B
- CE Mark: CISPR 22:2002/EN55022:2002, Class B

Environmental & Physical Specifications

Dimensions:

- Conforms to PCI half height, half length form factor specifications
- Length: 6.600"
- Height: 2.536"

Operating Environment:

- Temperature: 0 - 45° C (32° - 113°F)
- Humidity: 5 to 95% non-condensing

Storage Environment:

- Temperature: -40° to 70°C (-40° to 158°F)
- Humidity: 5 to 95% non-condensing

Power: 3.3V @ 1.5A max

Airflow: 100 lf/m (min) recommended

Optical Cabling:

- 50/125µm up to 150m @ 4-Gb
- 50/125µm up to 300m @ 2-Gb
- 50/125µm up to 500m @ 1-Gb

Celerity FC Product Family

PRODUCT FEATURES	FC-44ES	FC-42XS	FC-41XS	FC-24XL	FC-22XH	FC-21PS
Fibre Channel Ports	4	2	1	4	4/2 ¹	1
Fibre Channel Protocol	4-Gb	4-Gb	4-Gb	2-Gb	2-Gb	2-Gb
Maximum Transfer Rate (half duplex)	1.6 GB/sec.	800 MB/sec.	400 MB/sec.	800 MB/sec.	400 MB/sec.	200 MB/sec.
Maximum Transfer Rate (full duplex)	2 GB/sec. ²	1 GB/sec. ³	800 MB/sec.	1 GB/sec. ³	800 MB/sec.	400 MB/sec.
Bus Type	PCIe	PCI-X	PCI-X	PCI-X	PCI-X	PCI
Bus Characteristics ⁴	8 lane	64-bit, 133 MHz	64-bit, 133 MHz	64-bit, 133 MHz	64-bit, 133 MHz	64-bit, 66 MHz
Optical Interface	SFP LC	SFP LC	SFP LC	SFP LC	SFP LC	SFF LC
Maximum Cable Length	300m @ 2-Gb 150m @ 4-Gb	300m @ 2-Gb 150m @ 4-Gb	300m @ 2-Gb 150m @ 4-Gb	500m @ 1-Gb 300m @ 2-Gb	500m @ 1-Gb 300m @ 2-Gb	500m @ 1-Gb 300m @ 2-Gb
Advanced Data Streaming (ADS™) Technology	•	•	•	•	•	•
Software RAID Support ⁵	•	•	•	•	•	•
Developer's Kit (Target Mode & API)	•	•	•	•	•	•
Developer's Kit (Advanced)	-	-	-	•	-	-
Integrated Offload & Processing Center (IOPC)	-	-	-	•	-	-
Onboard Memory for Direct Memory Transfers	-	-	-	•	-	-
Integrated Hub Technology	-	-	-	-	•	-
Windows Driver Support	•	•	•	•	•	•
Linux (Red Hat, SUSE) Driver Support	•	•	•	•	•	•
Mac OS X (Panther) Driver Support	-	•	•	•	•	•

1 ATTO's onboard hub technology allows for up to four external connections to two FC channels

2 Performance ceiling is constrained by PCI Express bus configuration (8 lane)

3 Performance ceiling is constrained by 133 MHz PCI-X bus transfer speed

4 Backward compatible to 32-bit and 33 MHz PCI; FC-24XL and FC-22XH are 3.3V; FC-21PS is 3.3V/5V Universal

5 ATTO ExpressStripe for OS X available; other software RAID supported

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