

# ATTO ExpressPCI FC 3322

Fibre Channel



Fastest  
HBAs  
Available

## Dual-channel, Low-profile 2-Gigabit Fibre Channel Host Adapter with PCI-X Interface

*The ATTO ExpressPCI FC 3322 host adapter incorporates dual independent channels of 2-Gigabit Fibre Channel performance on a single, low-profile host adapter.*

*Its low-profile design facilitates flexibility and maximum performance in high-density environments. With aggregate full-duplex throughput up to 800 MB/sec., the FC 3322 is designed to support data-intensive environments while, at the same time, using only one expansion slot, representing a cost-effective and efficient choice for a variety of environments.*

*ATTO offers a variety of configuration and management software options. This includes ATTO's exclusive ADS™ Technology that ensures maximum performance for both I/O and bandwidth-intensive applications, such as backup/archiving, fixed content, imaging, and digital video/audio solutions.*

## TECHNICAL HIGHLIGHTS

- Two independent channels
- 2.125-Gigabit Fibre Channel host adapter
- 400 MB/sec. per channel throughput in full-duplex mode
- 64-bit/133 MHz PCI-X interface
- Supports high-performance applications, including:
  - Backup/Archiving
  - Imaging/Fixed Content
  - Digital Video/Audio
- Exclusive ADS™ Technology enhances performance

ATTO

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# ATTO ExpressPCI FC 3322

## Hardware Specifications

### Fibre Channel Interface:

- 2.125-Gigabit data-transfer rates on each channel
- 400 MB/sec. per channel throughput in full-duplex mode
- Auto negotiation between 2-Gigabit and 1-Gigabit speeds
- Short-wave optical LC SFP pluggable connectors
- Supports all Fibre Channel topologies
  - Point-to-Point
  - Arbitrated Loop
  - Direct Fabric/Switch Attach
- Flash ROM for easy field upgrades
- Supports the following ANSI Fibre Channel standards:
  - FC-PH, FC-AL2, FC-FCP, FC-PLDA, FC-FLA, FCA-IP, IETF-IPFC, FC-Tape
- Simultaneous multi-protocol support

### Advanced FC Features:

- Support for SNIA HBA API
- Supports Target and Initiator Modes

### Advanced SCSI-FCP Support:

- Large command FIFO
- Asynchronous I/O support
- ASPI compatible
- Support for multiple block sizes

### Accelerated PCI Bus Management:

- 64/133 PCI-X system bus interface providing up to 1 GB/sec. aggregate bandwidth
- Supports PCI 2.2 and 99 specifications
- Supports PCI-X 1.0 specifications

## Software Specifications

### Driver Support:

- Windows® 2000
- Windows XP
- Windows 2003
- Linux

### Advanced Data Streaming (ADS™):

- Improved PCI system bandwidth use
- Optimized FC and SCSI-3 algorithms
- RISC processor for high performance
- Supports SCSI-3 tagged command queuing

## Environmental & Physical Characteristics

### Dimensions:

- Low Profile  
form factor: 2.5" x 6.521"

### Operating Environment:

- Temperature: 0-45° C
- Humidity: 10-90% non-condensing

### Power:

1.75 Amp @ 5 Volts (max)

### PCI Signal Compatibility:

3.3 Volts/5 Volts universal

### Airflow:

100 LFM (min.)

### Configuration:

- Easy to install connection plate with LEDs to monitor link, on-line and fault status for each channel (full-height bracket shown.)



## Fibre Channel Host Adapter Selection Chart

| PRODUCT FEATURES                | Multi-Channel 2-Gigabit Adapters |           |           | 2-Gigabit Adapters |         |
|---------------------------------|----------------------------------|-----------|-----------|--------------------|---------|
|                                 | FC 3342                          | FC 3322   | FC 3321   | FC 3300            | FC 3305 |
| Number of FC Channels           | 4                                | 2         | 2         | 1                  | 1       |
| Maximum Transfer Rate (MB/sec.) | 400*                             | 400*      | 400*      | 400                | 400     |
| 32-bit PCI Compatible           | •                                | •         | •         | •                  | •       |
| 64-bit PCI Compatible           | •                                | •         | •         | •                  | •       |
| Fabric & Loop Support           | •                                | •         | •         | •                  | •       |
| Cable Distances                 | 500M                             | 500m      | 500m      | 500m               | 10m     |
| 33 MHz PCI Compatible           | •                                | •         | •         | •                  | •       |
| 66 MHz PCI Compatible           | •                                | •         | •         | •                  | •       |
| PCI-X Compatible                | 133MHz                           | 133MHz    |           | 66MHz              | 66MHz   |
| Optical/Copper Interface        | SW LC SFP                        | SW LC SFP | SW LC SFF | Fixed SW LC        | HSSDC   |
| Class                           | 2,3                              | 2,3       | 2,3       | 2,3                | 2,3     |
| Full-duplex                     | •                                | •         | •         | •                  | •       |
| RAID Support                    | •                                | •         | •         | •                  | •       |
| Windows® 2000/XP/Server 2003    | •                                | •         | •         | •                  | •       |
| Solaris, Linux                  |                                  | Linux     | Linux     | •                  | •       |
| Mac® OS and Mac OS X Support    |                                  |           | OS X      | •                  | •       |
| * per channel                   |                                  |           |           |                    |         |

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