



ATTO Technology, Inc.



## iSCSI-to-FC Bridge

iPBridge™ 2700 R/D

The ATTO iSCSI to Fibre Channel bridge is a performance tuned, highly manageable, intelligent protocol translator which allow iSCSI initiators to connect to FC targets

### Performance Engineered

ATTO iPBridge™ products are engineered with an advanced architecture which provides high-performance by leveraging the latest hardware technology combined with ATTO's intelligent bridging architecture. ATTO iPBridge products provide industry leading performance with value added features that have addressed customer connectivity needs for over 18 years.

### More than a Bridge

The iPBridge enables users to manage storage infrastructures with features not found in direct connect technologies. Advanced read ahead and write cache algorithms in the iPBridge give users the highest level of performance. Robust error processing enables the iPBridge to manage disk and communication errors between targets and initiators. Email notification of errors and persistent error and trace logs assist troubleshooting in the field to minimize downtime. Virtual Drive Response makes failed or incomplete tape backups a thing of the past. ACL and CHAP authenticate host machines at login, stopping unauthorized users from accessing sensitive data.

### Easy-to-use Management Tools

ExpressNAV™ System Manager is a remote management user interface for configuration, monitoring and management of ATTO Bridge products. Advanced tuning features include; performance monitoring, diagnostic and troubleshooting capabilities, and phone home email notification. Several management interfaces are available including GUI, CLI, telnet, SNMP and FTP. Streamline storage management with the tools you need to confidently and efficiently manage your storage infrastructure.

### Industry Leading Support

With ongoing dedicated support ATTO provides peace of mind that OEM solutions will make it to market on time. During the product lifecycle, vendor response can be critical to the success of a solution. ATTO has dedicated program management with an escalation process and a guaranteed response time. ATTO also provides regular firmware updates and maintenance programs to keep up with advances in technology.

### Technical Features

- Connects (4) Gigabit Ethernet iSCSI ports to (2) 4Gb Fibre Channel ports
- Windows®, Linux, Mac® (ATTO Xtend SAN) iSCSI initiator compliance
- Gigabit iSCSI connectivity auto-negotiates to 10/100/1000 iSCSI
- MultiPath Director™ support available for iSCSI and Fibre channel links
- Virtual LAN (VLAN) enhances security while lessening the effort associated with managing larger networks
- Access Control List (ACL) support to limit storage access to defined users
- Supports several device types including hard drives, tape drives and CD libraries
- intelligent Bridging Architecture provides optimized performance
- Virtual Drive Response™ (VDR) reduces failed backups due to busy or slow-to-respond storage devices
- SpeedWrite™ feature enhances write performance by efficiently managing outstanding commands
- Advanced management, remote administration and system diagnostics via the ExpressNAV™ System Manager
- 2-year standard product warranty



ATTO Technology, Inc.

## Technical Specifications

### Technology

iPBridge™ products are based on the ATTO intelligent Bridging Architecture which combines powerful hardware with an efficient software data engine to deliver high performance with valuable features and minimal overhead. ATTO Bridges set the standard for customers that need to deliver a total system approach to storage connectivity.

### Bridging Features

- The core control logic driving ATTO Bridge products is optimized to maintain priority for data transfers while providing memory management and cooperative multi-tasking
- The Universal Virtual Device Architecture (UVDA) is a common code base that supports protocol conversion between hosts and targets. UVDA products are designed to move data quickly and efficiently
- Virtual Device Manager (VDM) is a proprietary software architecture that assures the smooth flow of data. VDM minimizes overhead by creating a virtual link between initiators and targets on a per-command basis
- The Data Routing Fabric topology incorporates advanced ASIC, firmware and interface technologies that enable users to configure bridges to specific operating environments
- Virtual Drive Response™ (VDR) improves reliability by reducing failed or incomplete backups

### Operating Temperature

#### Operating Environment:

- Temperature: 5° to 40° C
- Humidity: 10 - 90% non-condensing

#### Storage Environment:

- Temperature: -40° to 70° C
- Humidity: 5 - 95% non-condensing

### Power and Airflow

#### Desktop/Rackmount:

- Input 100-240 VAC @ 1.7-0.8A
- 11 CFM (Ambient air not to exceed 40° C)

### Connectivity and Notification

- All connectors on rear side of bridge
- External LEDs for power, ready and fault status, iSCSI activity, Fibre Channel activity, link and speed, Ethernet activity and link

#### iSCSI Ethernet Connectors:

- (4) Independent GbE iSCSI ports
- Supports IPv4
- Compliance with IEEE802.3ab Gig-E
- Supports 9K Jumbo Frames

#### Fibre Channel Connectors:

- (2) 4Gb SFP Fibre Channel connectors
- Optical SFP modules included
- Full support for FC-AL, PLDA and public loop
- Support for direct connect to F-port switches
- Multi-target mode allows each FC device to have its own Target (LUN) name

### Management Interfaces

- 10/100 RJ-45 Ethernet port
- RS-232 serial header console port

### Product Dimensions

#### 1U Rackmount and desktop units:

- Height 1.579" - Length 10.00" - Width 16.494"
- Rackmount units have mounting hardware that will extend the width to fit a 19" rack.

### Management Tools

- User friendly ExpressNAV™ System Manager is an integrated tool which provides remote configuration, management and diagnostic capabilities
- Local diagnostics supported via Command Line Interface (CLI), Telnet, SNMP and FTP
- Persistent Event Log to assist troubleshooting
- Field Upgradeable Firmware
- Performance monitoring and error logging
- Temperature monitoring
- Phone home email notification of errors
- SCSI Enclosure Services (SES)
- Multiple levels of password protection

### OEM Customization

- Hardware configuration options allow for unique board ID to define initialization and characteristics of the OEM product
- Software configuration can define value-add features to the basic bridging hardware
- OEM configuration files store OEM specific parameters in NVRAM which enable features, product naming and look and feel of the user interface for the OEM product
- Product labeling program to allow OEM logo and naming to appear on the front of the rackmount or desktop enclosure

### Agency Approvals and Compliance

#### Desktop and Rackmount models:

- FCC Class A
- CE (EN55022/EN55024/60950)

#### All models:

- RoHS Compliant 2002/95/EC

### Warranty

- 2 years



ATTO iPBridge™ 2700	
Input Connectors	(4) 1Gb Ethernet iSCSI (RJ-45)
Output Connectors	(2) 4Gb Fibre Channel (SFP)
Max Transfer Rate	Up to 400MB/s
SAN Connectivity	Interconnect FC and iSCSI SANs
Active Initiators Supported	50
Memory Type	ECC
Form Factor	1U Desktop/Rackmount
Model Number / SKU	IPBR-2700-DR0 (rackmount)