

# ATTO iSCSI Mac Initiator – Xtend SAN

Create Storage Area Networks Using Existing Gigabit Ethernet Infrastructures, Providing the Interface for Mac-based iSCSI Environments



*The Xtend SAN iSCSI Initiator package is software that can be installed on OS X compatible servers, workstations and laptops to enable the iSCSI protocol to be used for direct communication with iSCSI-ready storage devices over an existing Ethernet network.*

*The iSCSI protocol allows user to network multiple host and storage devices together in a Storage Area Network (SAN) at a fraction of the cost and effort of Fibre Channel.*

*With an easy-to-use GUI-based installation and configuration utility, set-up and management is simple. Users can take advantage of their existing Ethernet expertise and network infrastructure to create a complete storage solution with the ATTO iPBridge family of products (iSCSI-to-SCSI and iSCSI-to-Fibre Channel converters) or any other native iSCSI target device.*

*More cost effective than Fibre Channel, the SCSI block level-based iSCSI protocol enables users to maximize the speed of Gigabit Ethernet to create Storage Area Networks without the overhead costs typically associated with Fibre Channel.*

## TECHNICAL HIGHLIGHTS

- High performance - capable of supporting multiple streams of uncompressed video
- iSCSI v1.0 draft 20 protocol support
- iSCSI error handling and recovery level 0
- Intuitive GUI-based installation and management
- Compatible with OS X 3.5 or later
- Compatible with leading Ethernet switches and Network Interface Cards
- Compatible with leading ISV solutions
- Compatible with the ATTO iPBridge models 1500, 1550, 2500 and 2700

ATTO Software

ATTO

ATTO Technology, Inc.  
attotech.com

155 CrossPoint Parkway • Amherst, NY 14068 • 716.691.1999



## Software Specifications

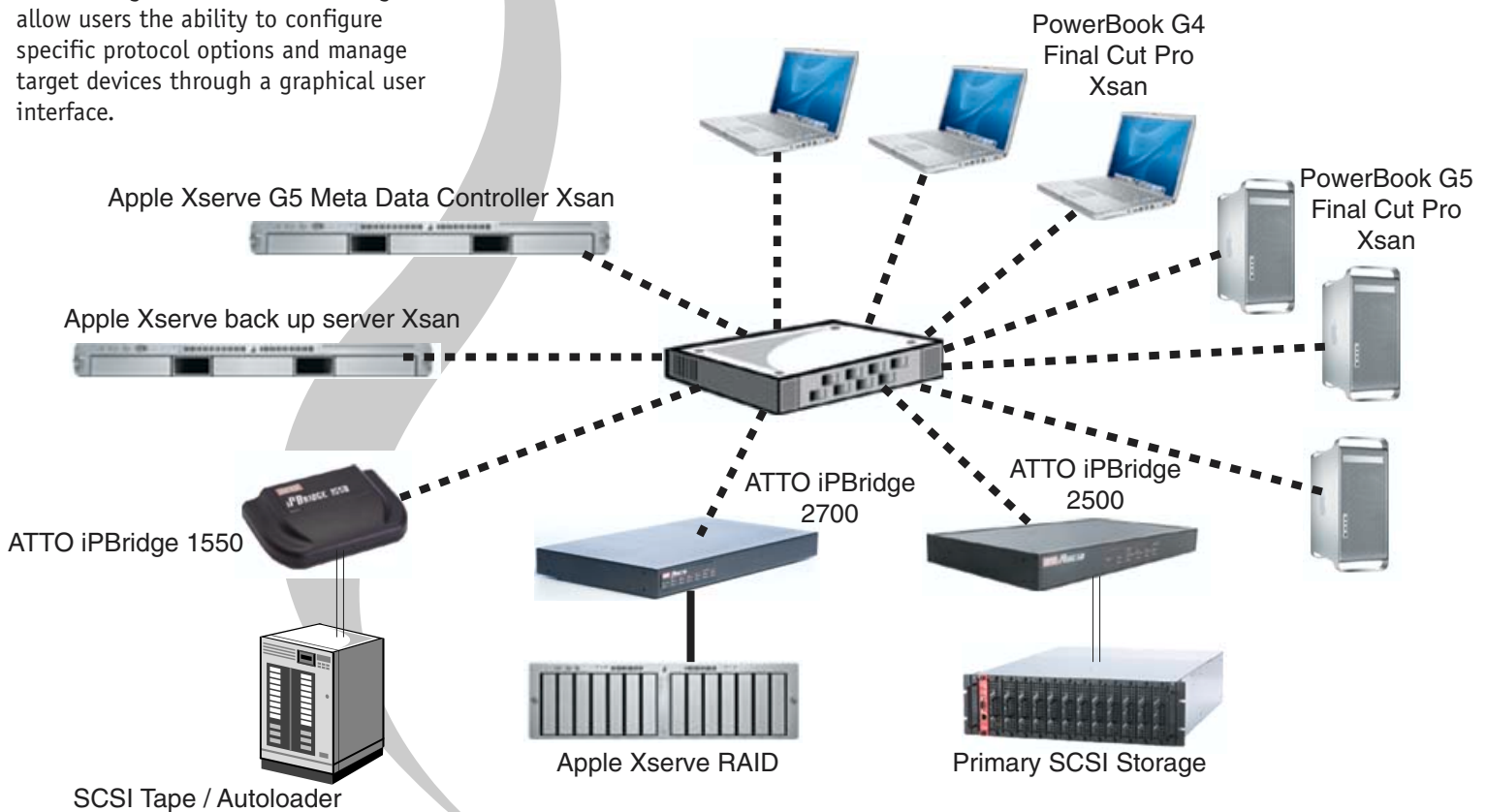
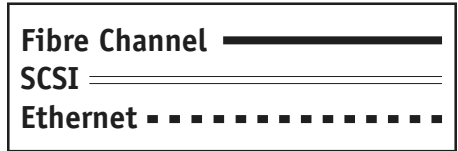
• The ATTO Xtend SAN package for Mac OS X consists of an iSCSI device driver, an initiator service manager, and a management interface:

–The iSCSI Device Driver is responsible for moving data from the storage stack over to the network stack, where it can be passed to and from the outside world using a standard Gigabit Ethernet network.

–The iSCSI Initiator service manages all iSCSI initiators in a host by aggregating device discovery information and security protocols.

–The management interface is designed to allow users the ability to configure specific protocol options and manage target devices through a graphical user interface.

A software-based iSCSI initiator is used to allow the host computers to communicate using the iSCSI protocol over a standard Ethernet infrastructure. When compared to other IP networking protocols, iSCSI stands out because it uses the SCSI block-based storage commands running over the TCP/IP transport. Block-based commands provide for much more efficient I/O when using applications to communicate to storage devices.



## An Example of an iSCSI DV SAN

Xtend SAN is installed on the Xserves, PowerBooks and Power Macs

Xtend SAN is software that runs on a host and initiates I/O to an iSCSI target, such as a bridge or storage device, that responds to the Read/Write requests. This product, coupled with the ATTO iPBridge product line, allows current SCSI storage to be networked, stored and backed-up over Ethernet, bringing a cost-effective solution to the Macintosh market.

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