

Fibre Channel and Ethernet Protocol Bridges

ATTO XstreamCORE®



Product Description

The ATTO Technology Inc. XstreamCORE® protocol bridge is an accelerated, high-performance platform that allows you to build your own high-performance flash, hybrid or capacity storage using standard serial-attached SCSI (SAS), solid-state drive (SSD) flash or hard-disk drives (HDD) and direct attached JBOD storage enclosures. By adding enterprise-class Fibre Channel SAN connectivity to low-cost SAS JBOD storage, the XstreamCORE enables applications such as shared storage and multi-site stretch clustering. ATTO's exceptionally fast acceleration architecture has dedicated memory modules and data paths so commands won't have to compete for shared system resources allowing more data transfers at faster transfer rates.

Market Background

As data growth is accelerating, system integrators and resellers are demanding higher performance on a larger scale. ATTO XstreamCORE protocol bridge responds to the need for improved performance capabilities with up to 3M 4K IOPS and less than four microseconds of latency for transfers between storage and server platforms. Performance-critical commands and all reads/ writes are accelerated in hardware. Furthermore, it provides end-to-end data protection to prevent silent data corruption.

XstreamCORE's performance improvements, combined with its reduced complexity and lower cost, coincide with the market's transition to software defined storage solutions.

Value Proposition

ATTO XstreamCORE eliminates the need for dedicated proprietary Flash and Hybrid storage enclosures that add a high amount of expense to an IT budget. XstreamCORE connects SAS and serial advanced technology attachment (SATA) storage to a high speed Fibre Channel SAN so that up to 240 SSD or HDD drives can be shared among multiple servers via clustering or across multiple sites through replication. In addition, the XstreamCORE helps organizations reduce capital and operating expenditure costs over proprietary storage solutions that may be much more costly to build, maintain and migrate.

Target Customers

System integrators and value added resellers whose customers' application environments include:

- Cloud computing
- Big data
- Virtualization

About ATTO

For over 30 years, ATTO Technology, Inc. has been a global leader across the IT and media & entertainment markets, specializing in network and storage connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO works with partners to deliver end-to-end solutions to better store, manage and deliver data. Working as an extension of customer's design teams, ATTO manufactures host bus adapters, network adapters, protocol bridges, Thunderbolt™ adapters, and software. ATTO solutions provide high level connectivity to all storage interfaces, including Fibre Channel, SAS/SATA, iSCSI, Ethernet, NVMe, NVMe over Fabrics and Thunderbolt. ATTO is the Power Behind the Storage.

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Customer Pain Points

Pain: I am looking for a way to increase the efficiency of current servers.

Solution: ATTO XstreamCORE offloads functions from servers and helps to reduce CPU utilization. Furthermore, it adds manageability, analytic capabilities and troubleshooting features.

Pain: Is there a way to share storage among a server cluster?

Solution: ATTO XstreamCORE has the ability to create your own private cloud. Architect a system based on your data center needs by adding enterprise Fibre Channel to SAS JBODs with capacity up to 1.4PB (w/ 6TB drives).

Pain: I want to be able to manage storage long-term.

Solution: Proprietary storage can lead to incompatibility and more expenses down the road. Using software defined storage makes migration and hardware refreshes easy.

Pain: Storage solutions can be costly.

Solution: ATTO XstreamCORE® allows you to build your own lower-cost storage using SAS JBOD enclosures. Pay as you grow by adding JBOD enclosures as more capacity is required. This results in fewer switch ports, SFPs, cables and controllers, which ultimately reduces solution cost.

Call to Action

- Engage with customers on their need for shared storage, stretch cluster, private cloud and tape storage solutions.
- Use ATTO XstreamCORE bridges to differentiate your proposals.

- Include Fibre Channel switches, ATTO Celerity™ Fibre Channel host bus adapters (HBAs) and ATTO cables to complete your solution.
- Engage in conversations with your customers regarding high-performance, low latency storage solutions for XstreamCORE protocol bridge platforms
- Gather information on which products/software may be needed to complete the solution (for qualification/certification)

Qualifying Questions

- Are you looking for a way to easily scale storage and assign allocations without impacting performance?
- Do you need a way to extend distance limitations and share SAS and SATA devices over a Fibre Channel SAN
- Could you use a way of simple maintenance that's independent of servers/filers so the network doesn't need to be taken down?
- Are you looking for a better way to virtualize storage?
- Do you need a solution that enables server/filer data replication between sites over long or short distances?

What's in it for you?

- Increased profitability through pre-qualified solutions that reduce engineering development and support costs?
- Working with the industry leader in high-performance storage connectivity?
- Increased customer trust by offering solutions that out-perform their current ones while maintaining total cost of ownership (TCO).

ATTO XstreamCORE® Differentiators	Customer Benefits
Adds SAN Connectivity and Advanced Management for DAS Storage	<ul style="list-style-type: none"> • Extends distance from clients to storage allowing. DAS tape and disk devices to be centrally located for easier management, maintenance and cooling. • Allows client workstations and servers to have high performance, direct networked access to tape for backup and restore.
xCORE™ Data Acceleration	<ul style="list-style-type: none"> • Multiple parallel I/O acceleration engines • End-to-end I/O processing and error detection • Hardware buffer allocation management • Real-time performance and latency analytics
eCORE™ Control Engine	<ul style="list-style-type: none"> • Adds common, open storage services • Reservation, storage routing and host zoning functions • Manages traffic for data mover functions • Error handling and debug functions
Data Center Ready	<ul style="list-style-type: none"> • Over 25,000 units installed in worldwide data centers • Cooling flow is front to rear to integrate with cooling systems which expel heat from the data center • Complies with international disposal and battery shipping regulations by eliminating the need for onboard batteries • Complies with international RoHS requirements.

