The Power Behind the Storage

What is it?	ATTO XstreamCORE® Storage Controllers	ATTO Celerity™ Fibre Channel HBAs	ATTO ThunderLink® Thunderbolt™ Adapters
What does it do?	• Add high-performance flash, hybrid or high-capacity storage using standard SAS SSD Flash or HDDs and direct-attached JBODs to any server architecture	• Provide faster and more efficient data transfers • Offer a complete high-bandwidth, low latency SAN connectivity solution	• Enable creative professionals to use high-end, data-intensive applications on Thunderbolt enabled workstations and laptops in highly mobile environments
How is it different?	• Add enterprise Fibre Channel SAN capabilities to SAS storage • Enable shared storage and multi-site stretch clustering • Aggregate up to 240 drives giving flexibility in architecting their data center • Build shared storage with very little latency - less than 4 microseconds for a full read/write cycle	• Incorporate ATTO Advanced Data Streaming (ADS™) Technology • Support for macOS®, Windows®, and Linux® • ATTO MultiPath Director™ • Optimized for media workflows	• The only Thunderbolt connectivity products able to handle any protocol and any host while addressing the demands of rapidly evolving work environments • Flexible connectivity for mobile workstation access to high-performance storage or enterprise networks
Available Configurations	• 12Gb SAS to 2 16Gb FC • 12Gb SAS to 4 16Gb FC • 12Gb SAS to 2 32Gb FC *Future • 12Gb SAS to 2 40Gb Ethernet *iSER and iSCSI	• 8Gb • Gen 6 16Gb • Gen 6 32Gb	• Thunderbolt 2 10GbE • Thunderbolt 2 8 or 16Gb FC • Thunderbolt 2 6 Gb SAS • Thunderbolt 3 40GbE Optical • Thunderbolt 3 16 or 32Gb FC • Thunderbolt 3 12Gb SAS

What is it?	ATTO ExpressSAS® SAS/SATA HBAs	ATTO FastFrame™ Ethernet Adapters
What does it do?	• Provide high-performance data protection to direct-attached SAS/SATA JBOD storage	• 4K video streaming and editing • Connecting to and from NAS and SAN storage
How is it different?	• A wide variety of port configurations as well as integrated software RAID • Offer flexibility for every range of application • Time-tested RAID stack provides confidence with high-performance data integrity • ATTO PowerCenter Pro™ integrated software provides RAID functionality	• ATTO Advanced Data Streaming (ADS™) Technology to provide high-bandwidth and managed latency for high-performance, enterprise-level iSCSI storage as well as standard 10GbE network infrastructures • Provide RDMA/RoCE support with best-in-class 1μs MPI ping latency for HPC and HFT environments • Support Energy Efficient Ethernet and are up to 30% more efficient in their power consumption, drastically reducing data center operating costs
Available Configurations	• 6Gb SAS • 12Gb SAS	• 10GbE • 40GbE • 25/40/50GbE • 1/10/25/40/50/100GbE

The Power Behind the Storage

For over 30 years, ATTO has been an innovator in storage and network connectivity, from developing the first solid-state storage device to the latest data center appliances. ATTO develops high-performance products that manage latency in the most demanding real-time environments, resulting in accelerated application performance and enhanced transaction processing. ATTO solutions enhance any environment from applications, infrastructure, and big data, to cloud and virtualized environments.

The Industry's Broadest Portfolio of Network & Storage Connectivity

Ethernet | Fibre Channel | Thunderbolt™ | SAS | Bridging & Acceleration

Accelerated Application Performance	Latency Management	Maximized Solution Performance	Bandwidth Optimization

ATTO Differentiators

Advanced Data Streaming™	ADS latency management technology is built into every ATTO host bus adapter (HBA), providing the fastest and most consistent time-to-data, delivering the best-in-industry aggregate bandwidth and predictable data transfers for high-performance applications.
MultiPath Director™	A proprietary technology available on ATTO Fibre Channel HBAs and Thunderbolt™ adapters that enables Linux®, macOS® and Windows® workstations and servers to connect directly to enterprise-class storage with redundant controllers, providing failover and load balancing capabilities across multiple paths to the storage.
***i*ntelligent Bridging Architecture™**	Powerful proprietary protocol bridging technology with extremely low latency, adding value and flexibility to system architectures.
Latency Scout™	Enables IT administrators to quickly isolate data center bottlenecks with real-time latency histograms, ensuring maximum infrastructure uptime and optimal performance.
SpeedWrite™	Keeps path between host and ATTO XstreamCORE® filled with data to boost tape write performance by up to 20% over direct connect SAS HBA.
PowerCenter Pro™	Easy-to-use, integrated software RAID solution that brings the performance and protection of RAID 0, 1, 1e and 10 to storage devices connected to ATTO HBAs and Thunderbolt 3 adapters.
FastFrame 360	Easy to use management for ATTO FastFrame™ and Thunderbolt™ Ethernet adapters that features performance tuning, monitoring and diagnostic tools to deliver the best peforming and most efficient storage network..

Support	How to Buy
ATTO provides customers with the finest in technical support for the lifetime of all product lines. It is our priority to understand customer workflows and their specific needs to provide the best technical assistance in the industry. Contact ATTO Technical Support at +1.716.691.1999, or to submit an inquiry, please visit our website: www.atto.com/corporate/contact-us/	www.atto.com/howtobuy Main Number: +1.716.691.1999 VARs and System Integrators can also purchase ATTO products from the How To Buy page.