

SOLUTION BRIEF

ATTO

About ATTO

For over 30 years, ATTO Technology, 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.

All trademarks, trade names, service marks and logos referenced herein belong to their respective companies.

Build iSCSI Mass Storage with ATTO Eliminate the need for server controller nodes

ATTO XstreamCORE® Server Node Replacement to Convert SAS to iSCSI

ATTO XstreamCORE® ET 8200 is a solid state 1U rackmount controller that was designed as an accelerated protocol converter that connects up to 960 SAS/SATA SSDs or HDDs via JBOD enclosures to Ethernet fabrics.

Each XstreamCORE bridge connects to Ethernet via two 40Gb Ethernet ports and transfers data from attached SAS/SATA devices to host computers using iSCSI over TCP/IP or the more deterministic iSER protocol which transmits iSCSI over RDMA with less than 2 microseconds of added latency.

ATTO XstreamCORE Advantages

- XstreamCORE features the ATTO xCORE processor which accelerates all I/O in hardware ensuring a deterministic, consistent protocol conversion latency of less than 2 microseconds
- ATTO eCORE™ processor technology was developed to offload storage services and features from the I/O path to maintain consistent performance and latencies
- Allows the use of commodity JBODs to scale up to 960 total SSD/HDD devices



XstreamCORE ET 8200

ATTO intelligent Bridge

Product	4K IOPS	Throughput	Ethernet Ports	x4 SAS Ports	SKU
XstreamCORE ET 8200	1.1M	6,400 MB/s	(2) - 40Gb Ethernet	4 (16 PHYs)	XCET-8200-002

Attaches and maps up to 960 SAS/SATA drives to up to 64 iSCSI initiators via iSCSI over TCP/IP or iSCSI over RDMA (iSER)

vmware®
READY

STORAGE

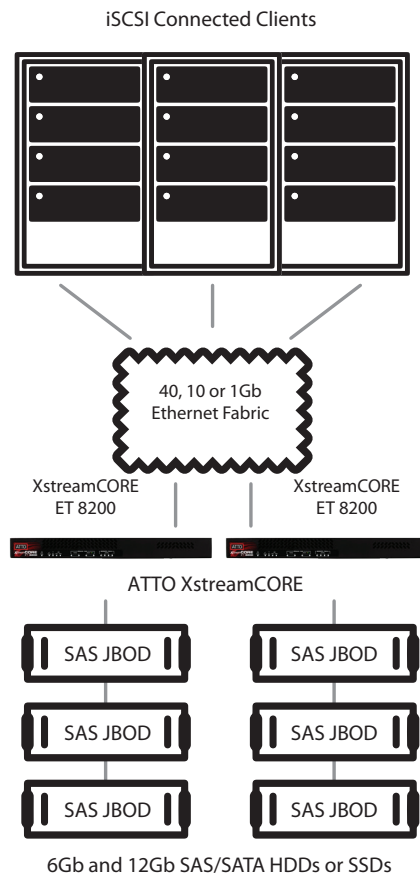
The Power Behind the Storage

+1.716.691.1999 | atto.com

- No server maintenance, software development associated with using a server controller node to convert SAS to iSCSI protocol
- SSDs and HDDs presented individually as iSCSI LUNs, no need to invest in high cost solutions like RAID Arrays, Enterprise storage or All Flash Arrays when the extra licensing or added software features are not required
- x86 Server based architectures have inherent latency that is added as more services and features are enabled in software, more CPU is dedicated so latency increases over time. x86 protocol conversion is done in software which leads to much higher latencies than with XstreamCORE
- All components warranted and supported by one vendor

XstreamCORE iSCSI Mass Storage

With XstreamCORE connected to SAS JBOD storage arrays, admins and storage owners can create up to 64 targets consisting of any arrangement of up to 960 SSD or HDD drives and assign them to client servers connected via iSCSI over TCP/IP or iSCSI over RDMA (iSER).



ATTO XstreamCORE® ET 8200

- 40Gb Ethernet to SAS

