

## ATTO ThunderLink® SH 2068

THUNDERBOLT™ 2 TO 6Gb SAS/SATA



ATTO's 6Gb/s SAS/SATA to Thunderbolt™ devices provide the highest available SAS and SATA performance for direct attached storage infrastructures.

### TECHNICAL FEATURES

- 20Gb Thunderbolt to 6Gb SAS/SATA with support for up to 128 disk or tape devices through expanders
- 6Gb/s SAS/SATA Support
- Dual 20Gbps Thunderbolt with Display Port and PCIe Support
- Thunderbolt certified for Mac and PC
- Dual ports enable daisy-chaining up to six devices
- Exclusive Advanced Data Streaming (ADS™) Technology
- ATTO ConfigTool™ for customized performance settings
- Proven interoperable with leading storage hardware and software vendors
- Industry's lowest power consumption
- Three-year standard product warranty
- RoHS Compliant
- Backwards compatible with 10Gb/s Thunderbolt

### INDUSTRY PROVEN TECHNOLOGY

ATTO Technology Inc. has nearly 30 years of experience developing first-to-market high performance and reliable storage connectivity solutions for customers. ATTO ThunderLink® SAS/SATA devices now provide creative professionals using Thunderbolt™ enabled hosts, cost effective access to storage not previously available using FireWire or USB. The integrated family of ThunderLink products boasts an extensive list of customer design wins and certifications with respected industry partners.

### FLEXIBLE CONNECTIVITY SOLUTIONS

6Gb/s SAS/SATA devices are an ideal solution for users looking to achieve efficient storage scalability. ThunderLink 6Gb/s devices offer driver support for Mac OS® X 10.9 and later and Windows® 7 and later, providing a single connectivity solution for customers with heterogeneous operating system environments.

### PERFORMANCE ENGINEERED

6Gb/s SAS/SATA devices are designed to provide flexible connectivity to SAS/SATA storage, and are engineered to manage latency for real-time environments. ATTO's Exclusive Advanced Data Streaming (ADS™) technology maximizes CPU processes to deliver smooth and reliable data transfers and the highest consistent performance. ATTO pays close attention to detail in board design and signal integrity to minimize transmission errors and data corruption. These differentiating capabilities make ATTO the premier choice for high-performance direct-attached SAS/SATA storage connectivity.

### ADVANCED MANAGEMENT TOOLS

ATTO's easy-to-use ConfigTool™ features an intuitive GUI that simplifies the installation, management and monitoring of the Thunderbolt device. With advanced troubleshooting and performance tuning capabilities, ConfigTool™ provides users with sophisticated diagnostics and the flexibility to control settings for specific applications.

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## APPLICATIONS

ATTO ThunderLink SAS/SATA products deliver high-performance and reliable connectivity solutions for the most demanding storage environments, including digital content creation, tape streaming and backup, rich content delivery, server clustering, and complex databases. ATTO ThunderLink SAS/SATA products enable users to achieve the ultimate in I/O performance for real-time and transactional applications.

## ADVANCED DATA STREAMING (ADS™)

Latency-management technology that controls the acceleration of data transfers to move large amounts of data faster and more efficiently.

## KEY FEATURES

- 6Gb/s SAS/SATA Support
- Auto Negotiation between 6Gb/s, 3Gb/s and 1.5Gb/s SAS/SATA devices
- Supports SSP, SMP, STP protocols
- SES, SNMP and S.M.A.R.T. support
- Flash ROM for easy field updates

## USER BENEFITS

- Highest available MB/s and IOPS performance
- Superior system performance with latest SAS/SATA technology
- Low power consumption

## MANAGEMENT TOOLS

- ConfigTool (w/GUI) management and configuration utility
- Command Line Interface for advanced functionality

## OPERATING SYSTEM SUPPORT

- Mac OS® X 10.9 and later
- Windows® 7 and later

## DIMENSIONS

- 8.66"(D) x 4.07"(W) x 1.20"(H)

## POWER ADAPTER

- Input: 100-240VAC, 50-60Hz, 0.6A Max
- Output: 12VDC

## EXTERNAL CONNECTIVITY

- (2) 6Gb x4 mini-SAS connectors (SFF-8088)

## ENVIRONMENTAL

### OPERATING TEMPERATURE :

- Temperature: 0-40° C
- Humidity: 10-90% non-condensing

### STORAGE TEMPERATURE :

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



ThunderLink®	SH 2068
Model Number	TLSH-2068-D00 TLSH-2068-DE0
Input Connectors	(2) 20Gb/s Thunderbolt™
Output Connectors	(2)x4 6Gb SAS/SATA
Connector Type	(2) SFF-8088
Form Factor	Desktop
Warranty	3 Year

## COMPLIANCE

- FCC Part 15 Subpart B, Class B
- EN55032, Class B/EN55024
- EN60950-1
- CTUVUS
- EU RoHS (2011/65/EU)
- TAA Compliant (Country Of Origin: USA)

## WARRANTY

- Three Years

## ORDERING INFORMATION

- Phone: 716-691-1999
- Thunderbolt 2 to 10GBASE-T
- ThunderLink FC 2068: TLFC-2068-D00
- ThunderLink FC 2068: TLFC-2068-DE0

## COMPLEMENTARY PRODUCTS

- ATTO Celerity™ Fibre Channel HBAs
- ATTO ExpressSAS® HBAs and RAID Adapters
- ATTO FastFrame™ NICs
- ATTO FibreBridge® Fibre Channel Bridges
- ATTO FibreConnect™ Fibre Channel Switches
- ATTO premium cables