



Product Release Notes

ThunderLink™ SH 2068 Flash Bundle Version 170828

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the ThunderLink SAS Host 2068 flash bundle package which was released on 08/31/17. This information pertains to the flash bundles and BIOS utility associated with the ThunderLink SAS Host products.

2. New Features, Enhancements and Changes

- **Version 170828 (Released 08/31/17)**
 - SAS PHY speed automatically speeds down to 3Gb/s when an LTO drive is attached to reduce the number of read errors received
- **Version 170111 (Released 01/13/17)**
 - **New Features, Enhancements and Changes**
 - Updated logging to handle the number of cache segments allowing for smaller logs to analyze data more effectively
 - Improved handling of metadata resulting in performance improvements
 - Resolved a problem with cache eviction to prevent potential data corruption issue and deliver consistent
 - Advancements in write performance in 4K workflows.
 - Stability enhancements for RAID rebuilds when the latest generation of drives are utilized
 - Improvements to queue management resulting in increased consistency during RAID rebuilds
 - Updates to event logs to more accurately and cohesively display information
- **Version 160129 (Released 02/02/16)**
 - **New Features, Enhancements and Changes**
 - Improvements with reboot with remount when function when SATA drives are in use
 - SYNC CACHE command functionality enhancements
 - Additional Event logging filtering improvements
 - Addressed a data abort error during sleep
- **Version 150903 (Released 09/10/15)**
 - **New Features, Enhancements and Changes**
 - Incorporate firmware version 1.50. for product improvements.
- **Version 150203 (Released 02/23/15)**
 - **New Features, Enhancements and Changes**
 - Initial release of firmware for the ThunderLink SH 2068.

3. Known Issues/Advisements

Note: Please contact ATTO Technical Support if you need additional information or assistance with these configuration suggestions.

- There is an interoperability issue with Toshiba MK2002TSKB 3Gbps SATA drives. A workaround for the issue is to disable NCQ.
- Error with Apple software RAID Groups during a cable pull.
- An attached TLSH2068 may not reappear after repeated reboots with an HP 440, Dell 5810, or Acer Aspire S5. The work-around is to cycle power on the TLSH2068 after rebooting the host if the TLSH2068 is not present.

4. Affected Products

Product Name	SKU
ThunderLink SH 2068	TLSH-2068-D00/DE0

5. Contacting ATTO Support

ATTO Technology, Inc. is renowned for its technical support services. ATTO's goal is to provide you the quickest response possible for your technical support needs, and is available Monday-Friday, 8:00 AM to 8:00 PM EST (except holidays and plant closings).

ATTO Technical Support can be contacted via phone or email:

- Phone: 716.691.1999 ext. 242
- E-Mail: techsupport@attotech.com