



ATTO Technology, Inc.

# Product Release Notes

## ThunderLink™ SH 2068 Flash Bundle Version 170111

### 1. General Release Information

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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 01/13/17. This information pertains to the flash bundles and BIOS utility associated with the ThunderLink SAS Host products.

### 2. New Features, Enhancements and Changes

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- **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

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**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.
- TLR has been disabled due to a hardware limitation and the device will automatically operate at 3Gb/s when using certain LTO tape drives.

#### 4. Affected Products

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

#### 5. Contacting ATTO Support

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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](mailto:techsupport@attotech.com)