



Product Release Notes

ThunderStream® SC 4808 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 ThunderStream RAID Storage Controller 4808 flash bundle package which was released on 08/31/17. This information pertains to the flash bundles and BIOS utility associated with the ThunderStream RAID Storage Controller products.

2. 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
 - Significant upgrades to Unified VDA RAID Engine, including new hot spot coalescing architecture, new pre-fetch engine, and updated RAID data cache management. These changes provide additional performance and stability in various application ecosystems.
 - Improved performance for user applications, especially in small block writes and “blended” I/O with large block transfers that have small reads/writes mixed in to the data stream.
 - 512MB DRAM Support provides enhanced read ahead caching and higher performance.

- Added RAID/HBA pass through mode support as a new feature
- Improved RAID platform stability

- **Version 15_02_03 (Released 02/23/15)**
 - **New Features, Enhancements and Changes**
 - Initial release of the ThunderStream 4808

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.
- Core file processing is greatly improved with 1.60, but if an exception occurs in the TSSC4808D while the host is asleep/off, no core file will be captured for that exception.
- On certain uses back-end deferred errors are not always handled correctly
- Hibernation with a Dell 5810 results in the adapter being reported as “degraded mode” after waking from hibernation. The work-around is to cycle power on the TSSC4808D after waking from hibernation.

3. Affected Products

Product Name	SKU
ThunderStream SC 4808D	TSSC-4808-D00/DE0

4. 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