



ExpressSAS 6Gb RAID Flash Bundle v110418

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the ExpressSAS 6Gb RAID adapter flash bundle package, version 110418, which was released on April 21, 2011. This information pertains to the flash bundles and BIOS utility associated with the ExpressSAS 6Gb RAID product.

2. Changes

- **Version 110418 (Released 04/21/2011)**
 - The following apply to changes made from v3.03 to v3.04.
 - **New Features, Enhancements and Changes**
 - Incorporated firmware version 2.20
 - In the Configuration Tool, added an LED Control setting to the NVRAM panel
- **Version 110325 (Released 03/25/11)**
 - The following apply to changes made from v3.01 to v3.03.
 - **New Features, Enhancements and Changes**
 - Incorporated firmware version 2.12
 - NCQ is now enabled by default.
- **Version 110211 (Released 02/16/11)**
 - The following apply to changes made from v3.00 to v3.01.
 - **New Features, Enhancements and Changes**
 - Incorporated VDA firmware version 2.10
 - Performance improvements in IOPs and MB/s applications.
 - CacheAssure™ performance improvements when in High Protection mode.
 - SAS Multiplexing implemented. This enables the user to achieve performance improvements with 6Gb RAID when using slower 3Gb drives.
- **Version 101119 (Released 11/30/10)**
 - The following apply to changes made from v2.00 to v3.00.
 - **New Features, Enhancements and Changes**
 - Incorporated firmware version 2.05
 - Enhanced Intelligent Platform Management Interface (IPMI) and Serial Over Lan (SOL) support within BIOS and the configuration utility.
- **Version 100917 (Released 9/22/2010)**
 - The following apply to changes made from v1.10 to v2.00.

- **Note:** The upgrade from version 1.00 to 2.00 of the driver and firmware must be done in a specific order:
For Windows and OSX: "Any upgrade from a previous version to 2.00 for the driver and firmware must be done in a specific order. Version 2.00 firmware must be updated first with a flashbundle using the ATTO Configuration Tool. Once the new firmware is flashed, "DO NOT REBOOT," the 2.00 driver should be loaded. Your system will appear to freeze for up to three minutes while the new driver is loaded. A reboot is required to use the new update."
For Linux: Any upgrade from a previous version to 2.00 for the driver and firmware must also be done in a specific order. Version 2.00 firmware must be updated first with a flashbundle using the ATTO Configuration Tool or the Linux CLI tool, atflash_32 (for 32-bit OS) or atflash_x64 (for 64-bit OS) version 1.01. Once the new firmware is flashed, the 2.00 driver should be loaded using the "install.sh" script as described in the "installation instruction" in driver readme file. When the script asks if you would like to load the driver, type "N" for no and reboot the system to initiate all changes. Please note that if the driver is installed first you will not be able to install the 2.00 firmware using the ATTO Configuration Tool. Downgrading back to 1.00 will allow you to flash the 2.00 firmware.

New Features, Enhancements and Changes

- Initial Release and added support for the R60F.
 - Incorporate firmware version 2.00.
 - The driver to firmware communication mechanism has been improved. Driver versions 2.00 and later are only supported with version 2.00 and later firmware
- **Version 100712 (Released 07/15/10)**
 - The following apply to changes made from v1.00 to v1.10.
 - **New Features, Enhancements and Changes**
 - Incorporated firmware version 1.10
 - **Version 100520 (Released 05/21/10)**
 - **New Features, Enhancements and Changes**
 - Initial release for the R644, R680 and R608.

3. Known Issues/Advisements

- If a cable is disconnected or a drive is pulled during data transfer, commands may be lost and the interface may not recover, when connected to SATA drives through an expander.
- A RAID group may go offline and several drives may be marked as faulted, when writing to Seagate Barracuda ES.2 drives in certain enclosures.
- The adapter can be flashed with only one boot driver at a time. The options are BIOS, EFI 32 bit or EFI 64 bit.

4. Affected Products

Product Name	SKU
ExpressSAS R644 RAID Adapter	ESAS-R644-000
ExpressSAS R680 RAID Adapter	ESAS-R680-000
ExpressSAS R608 RAID Adapter	ESAS-R608-000
ExpressSAS R60F RAID Adapter	ESAS-R60F-000
ExpressSAS R644 RAID Adapter with CacheAssure	ESAS-R644-C00
ExpressSAS R680 RAID Adapter with CacheAssure	ESAS-R680-C00
ExpressSAS R608 RAID Adapter with CacheAssure	ESAS-R608-C00
ExpressSAS R60F RAID Adapter with CacheAssure	ESAS-R60F-C00

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