



ATTO Technology, Inc.

Product Release Notes

ExpressSAS Host Adapter 6 Gb Flash Bundle Version 090128

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the ExpressSAS 6Gb Host Adapter flash bundle package, version 090128, which was released on 02/18/2009. This information pertains to the flash bundles and BIOS utility associated with the ExpressSAS 6Gb Host Adapter products.

2. Changes

- **Version 090128 / BIOS V1.01 (Released 02/18/09)**
 - Resolved issues that may cause the driver to crash or hang if a device rejects a discovery command on initial load.
 - Resolved any unexpected target ID changes after a cable pull and reinsertion, when a SATA device is connected behind an expander.
- **Version 081205 / BIOS V1.00 (Released 12/11/08)**
 - Initial release for the ExpressSAS H680 and H608 host adapter products

3. Known Issues/Advisements

1. The firmware will not attempt to open simultaneous connections on multiple PHYs to a wide ported end device. This results in write performance limited to the bandwidth of one PHY
2. Staggered spin-up for SATA is not currently supported
3. The ENABLE NOTIFY SPINUP primitive is not generated for SAS staggered spin-up functionality. However, most drives will spin-up after power-up when a Start Unit command or the first media access occurs giving the illusion that staggered spin-up is working. Some drives may not spin-up without the primitive after receiving a Stop Unit Command
4. A link may not recover after a bus reset is issued due to a resource allocation issue. This only effects Windows XP since the first level of error recovery is a bus reset
5. ATAPI devices are not currently supported (e.g. SATA CD and DVD drives)
6. SAS multiplexing is not currently supported
7. SATA port multipliers and port selectors are not supported
8. SGPIO is not currently supported
9. SATA commands may not complete after a link reset is issued

4. Affected Products

Product Name	SKU
ExpressSAS H680 Host Adapter	ESAS-H680-000
ExpressSAS H608 Host Adapter	ESAS-H608-000
ExpressSAS H6F0 Host Adapter	ESAS-H6F0-000
ExpressSAS H60F Host Adapter	ESAS-H60F-000
ExpressSAS H644 Host Adapter	ESAS-H644-000

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