



ATTO Technology, Inc.

Product Release Notes

ExpressSAS Host Adapter 12Gb v1.10 - Linux

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the ExpressSAS 12Gb HBA product line driver version 1.10 that was released on December 16, 2014. This information pertains to the following Linux operating systems: Red Hat Enterprise Linux 5, 6 and 7 (i386, x86, x64), SUSE Linux Enterprise Server 11 SP2 and 11 SP3 (i386, x86, x64).

2. Changes

- **Version 1.10 (Released 12/16/2014)**

- **Note:** It is recommended that firmware dated 11/13/2014 be used with this driver release.
- **New Features, Enhancements and Changes**
 - Added support for the ExpressSAS H1244, H1248 and H1288 host adapters.
 - Fixed several issues with recovering a device if task management fails.
 - Fixed an issue with the driver's device scan where devices would be blocked from the system if they didn't have a valid LUN 0.
 - In target mode, when configured for multiple targets, fixed an issue with task management handling that could abort I/O for targets not applicable to the task management.
 - Fixed an issue that could prevent the OS from seeing devices that swapped positions in the topology.
 - Fixed an issue that could cause devices to not be reinserted into a RAID group correctly. This could occur during power management cycles or during cable pull/replug within the link down timeout period.
 - Fixed an issue that could cause RAID groups to be degraded when resuming from power management.
 - In the presence of multiple logical SAS ports, when the controller is reset or resumes from power management, fixed an issue that could result in the SAS ports not containing the correct PHYs. This could result in improper SAS discovery or detection of read-only ports.
 - Fixed an issue that could cause a RAID group to disappear after a controller reset.
 - Fixed an issue that could cause the adapter to go degraded before initialization is complete.
 - Fixed a port reset issue that could cause newly attached devices to not be discovered.
 - Fixed an issue that could cause discovery to be blocked forever if discovery command timeout recovery required a controller reset.
 - All discovery operations in flight are correctly aborted if a controller reset occurs.
 - I/O connection errors due to incomplete expander routing are now retried.
 - Increased the discovery command timeout to account for slow SATA SSDs.
 - Fixed an issue with aborting timed out discovery requests.
 - Resolved issue where Modinfo did not display all of the available parameters.
 - Resolved issue where cat /proc/scsis output had some errors in formatting.

- **Version 1.05 (Released 8/1/2014)**
 - **Note:** It is recommended that firmware dated 7/30/2014 be used with this driver release.
 - **New Features, Enhancements and Changes**
 - Fixed a potential crash when replacing a member of a RAID group.
 - Resolved an issue regarding correct interpretation of descriptor based sense data during the driver's device scan.
 - Fixed the potential for a direct attached wide ported device or expander to not be removed when the link went down.
 - Always log warning or critical RAID messages.
 - Increase the time to wait for devices to become ready from 30 to 60 seconds.

- **Version 1.00 (Released 5/2/2014)**
 - **Note:** It is recommended that firmware dated 4/23/2014 be used with this driver release.
 - **New Features, Enhancements and Changes**
 - This is the initial release of the ExpressSAS 12G HBA driver for Linux.

3. Known Issues/Advisements

- None

4. Affected Products

Product Name
ExpressSAS H1208
ExpressSAS H1280
ExpressSAS H12F0
ExpressSAS H120F
ExpressSAS H1244
ExpressSAS H1248
ExpressSAS H1288

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 6:00 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