



## ExpressSAS Host Adapter Release v1.16 - Linux

### 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 ExpressSAS Host adapter products v1.16 that was released on 4/3/2008. This information pertains to the Linux OS.

### 2. Changes

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- **Version 1.16 (Released 4/3/2009)**

- **Note:** It is recommended that firmware dated 2008\_11\_18 be utilized with this driver release.
- The following apply to changes made from v1.15 to v1.16
- **Incident Resolutions/Bug Fixes/Changes**
  - Resolved a resource leak when handling an SMP ioctl

- **Version 1.15 (Released 11/18/2008)**

- **Note:** It is recommended that firmware dated 2008\_11\_18 be utilized with this driver release.
- The following apply to changes made from v1.13 to v1.15
- **Incident Resolutions/Bug Fixes/Changes**
  - Resolved driver compilation issue for kernel 2.6.25
  - Resolved driver compilation issue for kernel 2.6.22 and older
  - Resolved an issue regarding the HBA not coming up at full speed under PCI Express 2.0. The problem occurred when using a specific Intel chipset, the MCH 5400
  - Fixed a bug in Linux Rescan Host Routine that could lead to invalid outstanding references to the driver. This would prevent the driver from being unloaded
  - Fixes to reset and abort handling.

- **Version 1.13 (Released 9/26/2008)**

- **Note:** It is recommended that firmware dated 2008\_07\_17 be utilized with this driver release.
- The following apply to changes made from v1.11 to v1.13
- **Incident Resolutions/Bug Fixes/Changes**
  - Fixed compilation issue in RH4U3
  - Updated compilation of driver for SUSE Xen Kernel
  - Certified with Novell SUSE® LINUX Enterprise Server 10 for AMD64® & Intel® EM64T® Service Pack 1 for SUSE® SLES 10

- **Version 1.11 (Released 7/24/2008)**

- **Note:** It is recommended that firmware dated 2008\_07\_17 be utilized with this driver release.
- The following apply to changes made from v1.10 to v1.11
- **Incident Resolutions/Bug Fixes/Changes**
  - Improvements made to power management to support hibernation
  - Improved support for kernel 2.6.25

- **Version 1.10 (Released 5/14/2008)**
  - **Note:** It is recommended that firmware dated 2008\_05\_09 be utilized with this driver release.
  - The following apply to changes made from v1.00 to v1.10
  - **New Features**
    - **Added support for ExpressSAS H30F:** With this release, ATTO has released an ExpressSAS H30F Host Adapter model with 16 internal mini-SAS ports for increased connectivity.
  - **Incident Resolutions/Bug Fixes/Changes**
    - Support added for ExpressSAS H30F
    - Initialization enhancements incorporated to support transport firmware updates
    - Improved power management functionality
    - Support added for Linux kernel 2.6.25
    - Addressed issues related to flashing the adapter while I/O is in progress
    - Enhanced support for applications to perform SMP commands
    - After initial discovery has completed, devices are now presented to the OS in order of ascending SAS address with SMP devices sorted last
    - Improved SATA device affiliation behind expanders when devices are moved between two adapters
    - Addressed an issue with installation in SUSE 9
  
- **Version 1.00 (Released 10/19/2007)**
  - Initial release for the ExpressSAS H380 and H308 Host adapters

### 3. Known Issues/Advisements

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- Kernel 2.6.26 is not supported
- Reference DOS/BIOS and Configuration Tool release notes for additional information

### 4. Affected Products

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Product Name	SKU
ExpressSAS H30F Host Adapter	ESAS-H30F-000

### 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)