



ATTO Technology, Inc.

Product Release Notes

Celerity 8Gb Fibre Channel Release v3.28 – macOS®

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the Celerity 8Gb Fibre Channel adapter product driver version 3.28, which was released on February 28, 2019. This information pertains to macOS® 10.11 and later.

2. Changes

- **Version 3.28 (Released 02/28/2019)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be utilized with this driver release.
 - **New Features/Enhancements**
 - Improvements when logging into ATTO 16/32Gb devices in PTP Direct
- **Version 3.27 (Released 11/5/2018)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be utilized with this driver release.
 - **New Features/Enhancements**
 - Add support for device protocol info display in CLI tools
- **Version 3.26 (Released 04/16/2018)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be utilized with this driver release.
 - **New Features/Enhancements**
 - Added support for a new flash bundle format that supports smaller download portions compatible with the maximum transfer size for the driver
 - Added a link reset to the rescan functionality to cover whole targets that have not been discovered yet
- **Version 3.25 (Released 12/18/2017)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be utilized with this driver release.
 - **New Features/Enhancements**
 - Added atdevinfo, atfcinfo, and atlocate CLI tools to the release package
- **Version 3.20 (Released 09/25/2017)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be utilized with this driver release.
 - **New Features/Enhancements**
 - Increased stability during tape I/O
 - Improvements to scheduling and processing device management
 - Changed the method for reporting device changes to macOS
- **Version 3.16 (Released 05/03/2017)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**

- Changed the default maximum transfer size to 512KB to improve 3rd party storage controller performance.
- **Version 3.10 (Released 12/20/2016)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Improved the speed of reporting devices to the OS.
 - Changed the default maximum transfer size to 512KB to improve third party storage controller performance.
- **Version 3.05 (Released 09/20/2016)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Added support for macOS Sierra
 - Added '-t <number>' option to system NVRAM parameters to change the number of targets.
- **Version 3.00 (Released 06/30/2016)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Added rotational logging to limit the size of the event log. Up to five 50 MB log files will now be created.
- **Version 2.56 (Released 05/09/2016)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Corrected an issue with Reinstatement Recovery Qualifier not being properly rejected when sent by a target to the adapter.
- **Version 2.55 (Released 01/21/2016)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Enhanced event log messages for temperature events.
- **Version 2.50 (Released 8/06/2015)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Added support for 10.11
 - Improved system resource utilization when using event logging services
 - Addressed OSX handling issue that could lead to I/O errors
 - Implemented T10-PI management improvements
 - Fixed a max transfer size processing issue
- **Version 2.45 (Released 3/16/2015)**
 - **New Features/Enhancement**
 - Fixed an issue with discovery with a Cisco switch
- **Version 2.40 (Released 10/30/2014)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Added support for Mac OS X 10.10
 - Fixed a fabric discovery issue.

- **Version 2.35 (Released 08/28/2014)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Enhanced diagnostic capabilities with improved event logging
 - Added support for atreset
 - Added support for device display in atinfo
 - Fixed a memory leak issue

- **Version 2.30 (Released 03/27/2014)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Corrected issue with Execution Throttle that could prevent I/O from being started

- **Version 2.11 (Released 4/17/2013)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Updated “—m” option for OS X 10.7 & later.

- **Version 2.10 (Released 3/7/2013)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Added support for Execution Throttle.
 - Task Management handling has been improved.
 - Improved PCI error interrupt processing.

- **Version 2.03 (Released 10/11/2012)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Added support to function on PowerPC systems.
 - Updated the memory allocation for x64 platforms for compatibility with OS X 10.8.2 and later.

- **Version 2.02 (Released 7/25/2012)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - The following applies to changes made from driver v2.01 to v2.02
 - **New Features/Enhancements**
 - Mac OS X Mountain Lion (10.8) Support.
 - This driver version does not support OS X Tiger (10.4), or earlier.

- **Version 2.01 (Released 4/23/2012)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Corrected incompatibility with certain other devices running in Point-to-Point where the 8xEN would reject the FLOGI because the Class 3 Parameters were not filled in.
 - Corrected an issue in which setting a saved multipathing configuration could fail when the device is not configurable.
 - Added a workaround for devices that report improper Inquiry data such that OS X finds LUNs that do not exist. These LUNs were displayed in the Configuration Tool as “LUN ??”.
 - Corrected several crashes and hangs that could occur during Thunderbolt hot plugging.

- **Version 2.0 (Released 2/2/2012)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Added MSI protocol support for 64-bit platforms.
 - Feature enhancement related to report errors and operation in degraded mode.
 - Thunderbolt hot plugging is supported.

- **Version 1.44 (Released 7/29/2011)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Unavailable paths can be discovered when they become available again by rescanning.

- **Version 1.43 (Released 6/10/2011)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Added a property to enable the driver in Thunderbolt topologies.
 - This version is included on the Mac OS X 10.7 (Lion) DVD.
 - **Additional OS Support**
 - Mac OS X 10.7 (Lion)

- **Version 1.35 (Released 7/30/2010)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Added support for T10-DIF
 - T10-DIF support in 8Gb Celerity is always enabled.
 - T10-DIF support implies that the driver will detect if a disk drive is formatted for T10-DIF. Upon detection of T10-DIF, the driver will automatically generate the DIF field on the writes, and check it on the reads.
 - This feature does not provide a mechanism to format the drive
 - Feature improvement related to interoperability.

- **Version 1.34 (Released 6/25/2010)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Provided solution for OS X to rescan the device for logical unit changes
 - The OSX command retry count changed to one instead of zero
 - The SCSI parity errors will be retried.
 - Resolved a possible issue where interrupts would no longer be processed after a chip reset.
 - Resolved a possible issue where FC exchanges could be lost after a port down event

- **Version 1.31 (Released 1/13/2010)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - The following applies to changes made from driver v1.20 to v1.31
 - **New Features/Enhancements**
 - Sense data with a sense key of Recovered Error is converted to successful command completion
 - The driver will wait up to 5 seconds for the system NVRAM options to become available to load advanced driver options

- Resolved a possible crash in Snow Leopard if highly fragmented or very large amount of memory is in use
- **Version 1.20 (Released 5/20/2009)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Updated the Uninstall.command script to display “Permission denied” when the sudo password is incorrect or blank. Note that the script will not work when the account has no password. See <http://support.apple.com/kb/TA25121>
 - Integrated TSDK 6.10
 - Auto topology now gives P2P a little more preference
 - A workaround was incorporated to accommodate a switch that was improperly assigning Area and Domain to certain Port IDs
 - The default Interrupt Coalescing setting is now None
- **Version 1.0 (Released 8/26/2008)**
 - **Note:** It is recommended that the latest flash bundle available on ATTO website be used with this driver release.
 - **New Features/Enhancements**
 - Initial release of Mac drivers for the Celerity 8Gb FC adapters

3. Known Advisements

- *“Deep” sleep is supported only on Intel Macs. PowerPC Macs will sleep, but not “deep” sleep, so the sleep light will not pulsate. As a result, when PowerPC systems are put to sleep, the fan speed will increase to the max until the system is awakened. Contact ATTO Tech Support for more information.*
- *macOS High Sierra has introduced User-Approved Kernel Extension Loading. For additional information on this update, please visit: <http://developer.apple.com/library/content/technotes/tn2459>*

4. Affected Products

Product Name	SKU
Celerity FC 81EN	CTFC-81EN-000
Celerity FC 82EN	CTFC-82EN-000
Celerity FC 84EN	CTFC-84EN-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