



ATTO Technology, Inc.

# Product Release Notes

## Celerity 8Gb Fibre Channel Release v1.36 - Windows

### 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 Celerity 8-Gb Fibre Channel adapter product v1.36 that was released on 5/4/2012. This information pertains to the Windows 8, 7, Vista, XP, Server 2003, 2008, 2008 R2 OS and 2012.

### 2. Changes

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- **Version 1.36 (Released 5/4/2012)**
  - **Note:** It is recommended that the latest firmware available on ATTO website be utilized with this driver release.
  - **New Features**
    - Addressed an incompatibility with certain Promise devices running in Point-to-Point.
    - A potential problem where booting off the card on certain systems was corrected.
- **Version 1.35 (Released 7/29/2011)**
  - **Note:** It is recommended that the latest firmware available on ATTO website be utilized with this driver release.
  - **New Features**
    - We now register the Node Name of the first channel on an adapter as the serial number when registering HBA attributes with the Management Server.
    - Performance improvements were made for use with Power Center.
    - PLOGI and PRLI are retried, in the event of timing out, due to the commands getting lost on the other side of the switch.
- **Version 1.34 (Released 3/31/2011)**
  - **Note:** It is recommended that the latest firmware available on ATTO website be utilized with this driver release.
  - **New Features**
    - Feature Improvement related to command out operation
    - Improved resolution of Port Down Timeout (OEM feature)
    - Various improvements related to Target Mode operation
    - Added support for troubleshooting script.
- **Version 1.32 (Released 12/7/2010)**
  - **Note:** It is recommended that the latest firmware available on ATTO website be utilized with this driver release.
  - **New Features**
    - Feature Improvement related to chip reset operation.
    - Interoperability improvement related to Target mode operation.
    - CLI tools are now included in the driver package.
    - Instructions to activate T10-DIF support are now included in ReadMe.
    - Microsoft certified 8Gb Celerity drivers for Windows 2003 (x86/x64) and 2008 (x86/x64 and R2 x64)
- **Version 1.30 (Released 7/30/2010)**
  - **Note:** It is recommended that the latest firmware available on ATTO website be utilized with this driver release.

- **New Features**
  - Support added for T10-DIF
    - The registry T10Dif default setting is 0 (disabled). To enable, change setting to one (1).
    - When enabled, 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 improvements related to Target Mode operation
- **Version 1.20 (Released 11/19/2009)**
  - **Note:** It is recommended that firmware dated 11/19/09 be utilized with this driver release.
  - **New Features**
    - Implemented Message Signaled Interrupts (MSI) for x64 drivers (x86 performs better without it).
    - Changed the INF file to tell the OS that we don't need I/O space mappings. This helps later OSes to do a better job of allocating resources to secondary PCI busses.
    - Insure that a non-zero E\_D\_TOV value is used in Point-to-Point direct connect mode. Some initiator was sending a PLOGI with this set to 0, causing second and subsequent connections to fail.
    - A system hang problem on the Del T610 was corrected.
    - An error log event was added to report when the Initiator invokes a Task Management function.
    - Several code optimizations were made
    - Added support for CLI tools.
    - In Target Mode, if we receive a SCSI command and there are no available XCBs or Exchanges, we will now attempt to respond with a SCSI Busy response. Previously commands were dropped, causing the initiator to time them out and retry them.
    - A problem where a target would no longer respond to commands after a link down/up was resolved.
    - Descriptor Format Sense Data will now be interpreted correctly when reporting events to the OS.
- **Version 1.10 (Released 5/20/2009)**
  - **Note:**
  - **New Features**
    - Resolved and issues where the LUN Masking Util did not apply saved configuration after reboot
    - Windows fails to properly negotiate sleep states with StorPort Driver in Windows Vista 32 bit
    - Resolved Auto Topology issues
    - A problem was fixed where a recovery command for a timeout could get out on the wire before the ABTS for the command that timed out
    - If Initiator Mode is disabled, the Initiator bit in the RFF\_ID Name Server registration request is now cleared
    - A double completion problem in Target Mode was fixed
    - Registry entry TargetModeLinkDelay was added so that in Target Mode applications, the link won't come up until the upper level SCSTMD driver connects
    - The version 1 Target Mode interface now defaults FctmdFeatures to FCTMD\_-FEATURE\_IMMEDIATE\_LOGIN
    - In Target Mode, the bytes were swapped for ResidualLength for cases of Data Overruns
    - Auto topology now gives P2P a little more preference
    - A workaround was incorporated to accommodate a switch that was improperly assigning a conflicting Area and Domain to certain Port IDs
    - A problem where RSCNs would not get processed after a certain number of them were received was corrected
    - The default Interrupt Coalescing is now NONE
    - ADISC Replies were using the wrong R\_CTL bits

- When rejecting the login from the Fabric Controller, we now return a Reject Reason of Command Not Supported. This causes the Fabric Controller to stop attempting to log in indefinitely
  - Work-around was implemented for the QLogic 5600 switch that stops responding to logins to the Management Server after 500 logins. This problem occurred during automated cable pull testing. The symptom was that after a cable pull, discovery was not started and targets didn't show up
  - HBA API calls that send low-level Fibre Channel requests (such as CT\_PASSTHRU) were truncating the returned Response Length to the length of the Request. That has been fixed
- **Version 1.0 (Released 8/26/2008)**
    - **Note:** It is recommended that firmware dated 8/26/08 be utilized with this driver release.
    - The following apply to driver v1.00
    - **New Features**
      - Initial release of Windows drivers for the Celerity 8Gb FC adapters
    - **Supported OS**
      - Windows XP (x86, x64)
      - Windows Vista (x86, x64)
      - Windows Server 2003 (x86, x64)
      - Windows Server 2008 (x86, x64)

### 3. Known Issues/Advisements

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- We have seen some problems with certain combinations of auto-topology settings. In some cases the link may not be established on startup or after cable pulls. Setting both ports of a link to the desired topology will resolve this issue.

### 4. Affected Products

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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

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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:

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