



ATTO Technology, Inc.

Product Release Notes

ThunderLink® NS 2101/2102 and NT 2102 Release v2.10 - Mac OS®

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the ThunderLink NS 2101/2102 and NT 2102 Thunderbolt 2 Devices, version 2.10, which was released on 11/15/2016. This information pertains to the OS X® 10.9 and later as well as macOS Sierra platforms for Intel® based systems.

2. Changes

- **Version 2.10 (Released 11/15/16)**
 - **New Features/Enhancements**
 - Added '-t <number>' option to system NVRAM parameters to change the number of targets.
 - Adjusted default TCP Segmentation Offloads size to 64k
 - Implemented support for Large Receive Offload (LRO) to improve stability and performance with multiple streams
 - Resolved congestion issues resulting in improved transmit throughput and quality
- **Version 2.07 (Released 09/06/2016)**
 - **New Features/Enhancements**
 - Added support for macOS Sierra
 - Added rotational logging to limit the size of the event log.
 - Corrected a rare issue that could cause a transmit timeout to occur.
- **Version 2.05 (Released 09/30/15)**
 - **New Features/Enhancements**
 - Added support for Mac OS 10.11
- **Version 2.00 (Released 06/17/15)**
 - **New Features/Enhancements**
 - General performance improvements.
 - DCB is no longer supported by default. DCB can be enabled using the atcnavr CLI tool, but enabling DCB disables support for link-level PAUSE.
 - When DCB is disabled, link-level PAUSE is optionally supported.
 - Corrected an issue with chip reset functionality.
 - Expanded support for statistics reported by the atnetstat CLI tool.
 - Added support for disabling Receive Side Coalescing using the atcnavr CLI tool.
 - Added support for fine grained control of interrupt coalescing settings using the atcnavr CLI tool.
 - Added support for changing TSO segment length using the atcnavr CLI tool.
 - Added support for disabling TSO using the atcnavr CLI tool.
 - Added support for adjusting ring buffer lengths using the atcnavr CLI tool.
 - Added support for adjusting transmit queue length using the atcnavr CLI tool.
 - The atnetstat CLI tool is now included in the installer.
 - Adjusted packet memory allocation to improve performance.
 - Adjusted transmit functionality to reduce CPU utilization.

- Fixed processing of the max transfer size values set by the Config Tool.
 - Fixed flow control and link speed settings viewed using the atcnanvr CLI tool to accurately reflect the settings the system is using.
 - SCSI status of task set full and busy are retried infinitely to circumvent OS X handling that can lead to I/O errors.
 - The event logging service has been improved to use less system resources.
- **Version 1.21 (Released 04/07/15)**
 - **New Features/Enhancements**
 - Updated the "Use optimized network settings" installer option to work on OS X 10.10 Yosemite
 - Improved performance by adjusting default transmit parameters and packet memory allocation
 - Resolved an issue that could prevent the use of jumbo frames
- **Version 1.15 (Released 12/04/14)**
 - **New Features/Enhancements**
 - Corrected an issue with transmit handling.
- **Version 1.12 (Released 07/11/14)**
 - **New Features/Enhancements**
 - Added support for Receive Side Coalescing.
 - Resolved a leak in the I/O request pool when the driver is unloaded and reloaded within 60 seconds.
- **Version 1.11 (Released 05/09/14)**
 - **New Features/Enhancements**
 - Initial release for the ThunderLink NS and NT 2102 Devices.

3. Known Issues/Advisements

- N/A

4. Affected Products

Product Name	SKU
ThunderLink NS 2102 Device	TLNS-2102-D00/DE0
ThunderLink NS 2102 Device (Low Profile)	TLNS-2102-D01/DE1
ThunderLink NS 2102 Device	TLNS-2102-D00/DE0
ThunderLink NT 2102 Device	TLNT-2102-D00/DE0

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@atto.com