



ATTO Technology, Inc.

Product Release Notes

ThunderLink™ NS 1101 and NT 1102 Release v2.00 - Mac OS® X

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the ThunderLink NS 1101 and NT 1102 Thunderbolt Desklink Devices, version 2.00, which was released on 06/17/15. This information pertains to the Mac OS X OS X 10.6.8 and later platform for Intel® based systems.

2. Changes

- **Version 2.00 (Released 06/17/15)**
 - **New Features, Enhancements and Changes**
 - 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 atcnavr 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 and Changes**
 - 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 and Changes**
 - Corrected an issue with transmit handling.

- **Version 1.12 (Released 07/11/14)**
 - **New Features, Enhancements and Changes**
 - 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 and Changes**
 - Added an installer option to apply system-wide network tuning settings.
 - Added PCIe pause support for Thunderbolt hot plugging in OS X 10.9.
 - Added support for ThunderLink NS 2102 & NT 2102.
 - Corrected an issue where the link might not come up after an Ethernet cable pull.
 - Added a feature to log all driver output to a file. This file will be collected by Config Tool diagnostics. *Note: The log file will not be deleted when the driver is uninstalled.*
 - Added a feature to write fatal driver events to the OS X system log. *Note: See the driver readme to change the event log mask to log additional events.*
- **Version 1.10 (Released 10/15/13)**
 - **New Features, Enhancements and Changes**
 - Mac OS X Mavericks (10.9) Support.
 - Improved handling of direct attached copper cables.
 - Optimized dynamic interrupt coalescing functionality.
 - Corrected an issue when transmitting data residing in non-aligned memory.
 - Corrected an issue when disabling an ethernet interface during periods of high network activity.
 - Improvements have been made so the driver will only deactivate transmit rings that are active.
 - Updated '--m' option to work in OS X 10.7 and later.
 - Improved the chip reset procedure.
- **Version 1.02 (Released 10/08/12)**
 - **New Features, Enhancements and Changes**
 - Improved performance.
- **Version 1.01 (Released 09/26/12)**
 - **New Features, Enhancements and Changes**
 - Updated the memory allocation for x64 platforms for compatibility with OS X 10.8.2 and later.
- **Version 1.00 (Released 08/17/12)**
 - **New Features, Enhancements and Changes**
 - Initial release for the ThunderLink NS 1101 and NT 1102 Desklink device.

3. Known Issues/Advisements

- Intermittent performance drops may occur in isolated, high-bandwidth use cases where general IP network traffic is being heavily utilized. Please contact ATTO Support in these situations.

4. Affected Products

Product Name	SKU
ThunderLink NS 1101 Desklink Device	TLNS-1101-D00/DE0
ThunderLink NT 1102 Desklink Device	TLNT-1102-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. Please visit attotech.com/support for technical support hours.

ATTO Technical Support can be contacted via phone or email:

- Phone: 716.691.1999 ext. 242
- E-Mail: techsupport@attotech.com