



ATTO Technology, Inc.

## Product Release Notes

# ThunderLink® NS 2101/2102 and NT 2102 Release v2.12 - macOS®

## 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 ThunderLink NS 2101/2102 and NT 2102 Thunderbolt 2 Devices, version 2.12, which was released on 12/04/2017. This information pertains to macOS 10.10 and later.

## 2. Changes

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- **Version 2.12 (Released 12/04/2017)**
  - **New Features/Enhancements**
    - Updated transmit functionality to improve efficiency and overall performance
    - Added support for setting TSO segment length to values up to 64K using atcnanvr CLI tool
    - Updated support for Receive Side Coalescing (RSC)
    - Improvements to reporting of sense data to the operating system
- **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
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- **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 atcnanvr 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 atcnanvr CLI tool.
    - Added support for fine grained control of interrupt coalescing settings using the atcnanvr CLI tool.
    - Added support for changing TSO segment length using the atcnanvr CLI tool.
    - Added support for disabling TSO using the atcnanvr CLI tool.
    - Added support for adjusting ring buffer lengths using the atcnanvr CLI tool.
    - Added support for adjusting transmit queue length using the atcnanvr 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

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- 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>
- 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

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| 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

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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)