



## ThunderLink® NQ/NS 3402/3401/3102/3101 Release 1.10 - macOS®

### 1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the ThunderLink NQ 3402/3401 and NS 3102/3101, version 1.10, which was released on 03/29/18. This information pertains to macOS 10.11 and later.

### 2. Changes

- **Version 1.10 (Released 03/29/18)**
  - **New Features/Enhancements**
    - Improvements to the receive-side polling mechanism
    - Updates to transmit functionality to handle transmits in a separate thread
- **Version 1.03 (Released 01/17/18)**
  - **New Features/Enhancements**
    - Updated transmit functionality to improve efficiency.
    - Resolved an issue where the link would not come up if an interface was enabled using ifconfig.
- **Version 1.01 (Released 06/05/17)**
  - **New Features/Enhancements**
    - Initial release for the ThunderLink NQ 3402/3401
    - Initial release for the ThunderLink NS 3102/3101

### 3. Known Issues/Advisements

- 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>
- Increasing the RX buffer size to 4k and/or disabling interrupt moderation will assist in preventing dropped packets

### 4. Affected Products

Product Name	SKU
ThunderLink NQ 3401(QSFP+)	TLNQ-3401-D00/DE0
ThunderLink NQ 3402(QSFP+)	TLNQ-3402-D00/DE0
ThunderLink NS 3101(SFP+)	TLNQ-3101-D00/DE0
ThunderLink NS 3102(SFP+)	TLNQ-3102-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
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