



ThunderLink® NS 3252

ATTO ThunderLink® Thunderbolt™ 5/4/3 to 25GbE adapters provide maximum throughput for high bandwidth network connectivity for demanding IT and media & entertainment applications.

Technical Features

- Dual Thunderbolt 5/4/3 (40Gb/s USB-C) connectors
- (2) SFP28 optical multimode modules included
- Supports 4K video file transfer and display simultaneously with dual 40Gb/s Thunderbolt 5/4/3
- Daisy chain up to five additional Thunderbolt technology enabled devices
- Backwards compatible with 20Gb/s (Thunderbolt 2) and 10Gb/s Thunderbolt devices
- Backwards compatible with Thunderbolt 2 hosts via Apple legacy adapter
- ATTO Advanced Data Streaming (ADS™) Technology
- Minimized interrupts for low latency
- TCP, UDP and IPv4 checksum offloading and Tx/TCP segmentation offloading
- Industry's lowest power consumption
- Support for downstream USB 3.1 and 3.1v2 devices
- Three-year standard product warranty
- RoHS Compliant

ATTO ThunderLink® NS 3252 Thunderbolt™ 5/4/3 to 25Gb Ethernet

Industry Proven Technology

ATTO has over 30 years of experience developing first-to-market high performance and reliable storage connectivity solutions for customers. ATTO ThunderLink Ethernet adapters now provide creative professionals using Thunderbolt enabled hosts, cost effective access to storage not previously available using FireWire or USB. The integrated family of ThunderLink adapters boasts an extensive list of customer design wins and certifications with respected industry partners. Now, the combination of ATTO and 25GbE is being integrated with the latest in cutting edge high performance Thunderbolt connectivity.

Flexible Connectivity Solutions

ATTO 25GbE adapters provide the most flexible and scalable connectivity for today's high bandwidth content creation environments. Growing adoption of 25GbE combined with increased bandwidth of Thunderbolt 3 delivers much-needed performance benefits to bandwidth intensive applications.

Performance Engineered

When faced with the challenge of architecting solutions that allow guaranteed delivery and easy deployment into your workflow, ATTO ThunderLink provides a purpose-built solution. With 25Gb/s data transfer rates and multiple offloads (TCP, IPv4, UDP), ATTO Ethernet Thunderbolt adapters are the premier connectivity choice for bandwidth-intensive applications such as data back-up and restoration, IP content delivery, medical imaging, and video rendering.

Advanced Management Tools

ATTO ThunderLink 25GbE adapters provide a common foundation for both local and storage networks. ThunderLink NS 3252 leverages standard OS management and monitoring tools to dramatically reduce the cost and complexity of a data center's administration and infrastructure.

About ATTO

For over 30 years, ATTO Technology, has been a global leader across the IT and media & entertainment markets, specializing in network and storage connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO works with partners to deliver end-to-end solutions to better store, manage and deliver data.

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Applications

ATTO ThunderLink® 25GbE adapter solutions allow the unparalleled performance of 25 Gigabit Ethernet to meet the performance and economic needs of today's growing data centers. ThunderLink NS 3252 is ideal for applications that require low latency, high bandwidth data transfers, such as data back-up and restoration, video-on-demand and video streaming, medical imaging, and clustered databases.

Key Features

- Data rate per port: 25GbE
- Tx/TCP segmentation offload (Large Send Offload—LSO)
- Low latency interrupts
- PCI-SIG SR-IOV support
- Interrupt levels MSI, MSI-X
- Plug and play specification support
- Advanced Packet Filtering
- VLAN support with tag filtering, insertion and stripping

Advanced Software Features

- Adaptive load balancing
- Teaming support
- PCI Hot Plug/Active peripheral interconnect

Management Tools

- Easy system monitoring with Simple Network Management Protocol (SNMP) and Remote
- Network Monitoring (RMON) Statistic Counters
- Watchdog timer for chip/driver status monitoring

Connectivity

- 25Gb/s SFP28
- Backwards compatible with 10GbE SFP+
- 2 LED indicators per port
- TLNS-3252 using ATTO 25/10G SFPs
- **25G Speed:**
 - 100 meters on OM4
 - 70 meters on OM3
- **10G Speed:**
 - 100 meters on OM3

Thunderbolt™ Cabling

- 40Gb/s cables are designated with a "3" marking

Network Standards

- IEEE802.3ae: 10GBASE-SR, 10GBASE-LR
- IEEE 802.3az (Energy Efficient Ethernet)
- IEEE 802.1p (Priority Encoding)
- IEEE 802.1q (VLAN tagging)
- IEEE 802.3ad (Link aggregation)
- IEEE 802.1qbb (Priority flow control)
- IEEE 802.1qaz (Enhanced Transmission)
- IEEE 802.3AD (Load-balancing, failover)

Operating System Support

- Windows®
- macOS®
- Linux®

Power Adapter

- 100-240VAC, 50-60Hz, 0.6A Max
- 12VDC

Compliance

- FCC Part 15 Subpart B, Class B
- EN55032, Class B/EN55024
- IEC62368-1
- EN60825-1
- EN60825-2
- cTUVus
- EU RoHS (2011/65/EU), (EU) 2015/863
- TAA Compliant (Country of Origin: USA)

Operating Temperature

Hardware Environment

- Temperature: 0-40° C
- Humidity: 10 - 90% non-condensing

Storage Environment

- Temperature: -40° C to 70° C
- Humidity: 5- 95% non-condensing

Dimensions

- 8.66"(D) x 4.07"(W) x 1.20"(H)

Warranty

- Three years

Ordering Information

- Phone: 716-691-1999
- ThunderLink NS 3252: TLNS-3252-D00
- ThunderLink NS 3252: TLNS-3252-DE0 (UK/EMEA)

Complimentary Products

- ATTO Celerity™ Fibre Channel HBAs
- ATTO ExpressSAS® HBAs
- ATTO FastFrame™ NICs
- ATTO XstreamCORE® intelligent Bridges
- ATTO ThunderLink® Thunderbolt™ adapters
- ATTO premium cables



ATTO ThunderLink	NS 3252
Model Number	TLNS-3252-D00 (US) TLNS-3252-DE0 (UK/EMEA)
Input Connectors	(2) 40Gb/s Thunderbolt™ USB-C
Output Connectors	(2) 25GbE
Connector Type	SFP28
Form Factor	Desktop
Warranty	3 Year