

## Thunderbolt 3 to 10GBase-T Ethernet Adapter

Product ID: TB310G



This Thunderbolt 3 to 10Gb Ethernet adapter connects Thunderbolt3 enabled devices to a wired Ethernet network, with support for 10Gb/s, 5Gb/s, 2.5Gb/s, 1Gb/s and 100Mb/s Base-T speeds.

Increase your data transfer speeds by harnessing the performance of Thunderbolt 3. This Ethernet adapter adds a single RJ45 Ethernet port with 10 Gigabit support to help easily access very large files over the network at increased 10Gbps speeds.

The 5-speed Thunderbolt 3 to 10GbE adapter uses premium chipsets, providing a low-power, high-performance NBASE-T solution. The 10GBASE-T standard supports 10Gbps speeds over existing CAT6a or better cabling at distances of up to 100 m. The Tehuti TN4010 controller chipset is compliant with 802.3az Energy Efficient Ethernet and ensures peak operating efficiency with reduced power consumption in bandwidth-intensive workstation applications.

This Thunderbolt 3 NIC is an easy addition to any modern workstation. Taking up only 12 square inches of desk space and fully bus-powered, it's extremely portable with a small footprint. The fanless design means the adapter is noiseless (0dB), so you can set up in an open office space without being disruptive. It's ideal for virtually any type of workspace or environment, including remote desks and modern open-concept offices.

This Thunderbolt 3 to 10GbE adapter is backed by a 2-year warranty and free lifetime multilingual technical support.

### Certifications, Reports and Compatibility



## Applications

- Home offices or remote work stations
- Modern open office setups
- For Thunderbolt 3 enabled computers

## Features

- Supports auto-negotiation for 10Gb/s, 5Gb/s, 2.5Gb/s, 1Gb/s and 100Mb/s Base-T speeds
- Provides an RJ45 10Gbps Ethernet connection
- Reversible USB Type C connector with a Thunderbolt 3 interface
- Achieves 10Gbps connection over 100m with CAT6a cable
- Fanless design with aluminum chassis

|                                     |                               |  |
|-------------------------------------|-------------------------------|--|
| <b>Hardware</b>                     | Warranty                      | 2 Years  |
|                                     | Bus Type                      | Thunderbolt 3  |
|                                     | Industry Standards            | IEEE 802.3an (10GBASE-T) <br/>IEEE 802.3ab (1000BASE-T ) <br/>IEEE 802.3u (100BASE-TX )<br/>NBase-T (5GBASE-T) <br/>NBase-T (2.5GBASE-T) <br/>IEEE 802.1q (VLAN Tagging)<br/>IEEE 802.3ad (Link Aggregation) |
|                                     | Chipset ID                    | Intel - Alpine Ridge DSL6340 <br/>Tehuti TN4010 <br/>Marvell 88X3310PA1  |
| <b>Performance</b>                  | Compatible Networks           | 10 Gbps/5G/2.5G/1G/100 Mbps  |
|                                     | Auto MDIX                     | Yes  |
|                                     | PXE                           | No   |
|                                     | Full Duplex Support           | Yes  |
|                                     | Jumbo Frame Support           | 9K max.  |
|                                     | Promiscuous Mode              | Yes  |
| <b>Connector(s)</b>                 | Connector Type(s)             | Thunderbolt 3 USB-C (24-pin) (40Gbps)  |
|                                     | External Ports                | RJ-45  |
| <b>Software</b>                     | OS Compatibility              | Windows 7<br/>Windows 8/8.1<br/>Windows 10<br/>Windows Server 2008 R2 <br/>Windows Server 2012 R2 <br/>Windows Server 2016 <br/>Mac OS 10.11 - 10.14   |
| <b>Special Notes / Requirements</b> | System and Cable Requirements | Requires a Thunderbolt 3 port with 15W of power  |
|                                     | Note                          | Due to technical limitations of the IC solution, max bandwidth is limited to about 7.5 Gbps  |
| <b>Indicators</b>                   | LED Indicators                | Solid White - Thunderbolt 3 is connected to host laptop  |

|                |  |
|----------------|--|
| LED Indicators | Solid Green - RJ45 link speed of 1G, 2.5G, or 5G |
| LED Indicators | Solid Orange - RJ45 link speed of 10G            |

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|----------------------|-----------------------|---------------|
| <b>Environmental</b> | Operating Temperature | 5C ~ 35C      |
|                      | Storage Temperature   | -20C ~ 50C    |
|                      | Humidity              | 20%RH ~ 80%RH |

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|                                 |                   |                     |
|---------------------------------|-------------------|---------------------|
| <b>Physical Characteristics</b> | Color             | Black               |
|                                 | Form Factor       | Separate Cable      |
|                                 | Material          | Aluminum            |
|                                 | Cable Length      | 11.8 in [3 cm]      |
|                                 | Product Length    | 4.0 in [1.0 cm]     |
|                                 | Product Width     | 3.0 in [75.000 mm]  |
|                                 | Product Height    | 1.1 in [29.000 mm]  |
|                                 | Weight of Product | 11.4 oz [322.000 g] |

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|                              |                           |                     |
|------------------------------|---------------------------|---------------------|
| <b>Packaging Information</b> | Package Length            | 6.7 in [1.7 cm]     |
|                              | Package Width             | 5.4 in [1.4 cm]     |
|                              | Package Height            | 3.0 in [75.000 mm]  |
|                              | Shipping (Package) Weight | 17.0 oz [482.000 g] |

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|--------------------------|---------------------|---------------------|
| <b>What's in the Box</b> | Included in Package | Network Adapter     |
|                          | Included in Package | Thunderbolt 3 Cable |
|                          | Included in Package | Quick-Start Guide   |
|                          | Included in Package | Travel Pouch        |

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**\*Product appearance and specifications are subject to change without notice.**

