

## Thunderbolt 3 to 10GbE NIC Chassis + Card

Product ID: BNDTB10GI



This Thunderbolt3 to 10GbE NIC lets you connect your Thunderbolt 3 enabled device to a 10 GbE network. This adapter combines the StarTech.com Thunderbolt 3 PCIe Expansion Chassis (TB31PCIEX16) and the PCI Express 10G NIC (ST10000SPEXI), giving you one DisplayPort output, one additional Thunderbolt 3 port and one RJ45 (10GbE) port.

This 10G network card utilizes the Intel X550 chipset with Intel Virtualization Technology for connectivity, delivering the power, performance and enhanced capabilities you need for dependable network connections.

Requiring only a Phillips type screwdriver, this Thunderbolt 3 to 10GbE NIC can be assembled and connected in minutes. It connects easily through a single Thunderbolt 3 port on your computer.

The Thunderbolt 3 chassis not only pairs well with the 10GbE NIC--you can swap the NIC out for other PCIe cards, to help support other functionality and performance. With the extra TB3 port and DP output built into the chassis, you will always have the ability to hook up extended displays to effortlessly multitask.

The TB31PCIEX16 and ST10000SPEXI are backed by a StarTech.com 2-year warranty.

### Certifications, Reports and Compatibility



### Applications

- Upgrade your workstation to provide enhanced performance, advanced features and greater reliability
- Upgrade a 10/100/1000 Ethernet port on your computer to 10GbE networking
- Ideal for high-demand database servers and mission-critical systems that need redundant network connectivity
- Add networking capabilities to an old system with no Ethernet port

## Features

- Add 10GbE connectivity to your Thunderbolt 3 desktop or laptop computer
- Upgrade your peripherals without having to upgrade your chassis by just switching out your PCIe card
- Assemble and install easily with just a screwdriver

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|-----------------|--------------------|--|
| <b>Hardware</b> | Warranty           | 2 Years  |
|                 | Fan(s)             | Yes  |
|                 | Fans               | 92 mm  |
|                 | Ports              | 5  |
|                 | Air Flow Rate      | 14.06 CFM  |
|                 | Noise Level        | 24.55 dB   |
|                 | Interface          | Thunderbolt  |
|                 | Interface          | RJ45 (10 Gigabit Ethernet)   |
|                 | Bus Type           | Thunderbolt 3  |
|                 | Bus Type           | PCI Express  |
|                 | Card Type          | Standard Profile   |
|                 | Port Style         | Integrated on Card   |
|                 | Industry Standards | Thunderbolt 3  |
|                 | Industry Standards | IEEE 802.3an (10GBASE-T), IEEE 802.3ab (1GBASE-T), IEEE 802.3u (100BASE-T) |
|                 | Industry Standards | NBASE-T (Linux only)   |
|                 | Industry Standards | PCI Express Rev 2.0  |
|                 | Industry Standards | IEEE 802.1Q VLAN Tagging   |
|                 | Fan Bearing Type   | IEEE 802.3x Full Duplex Flow Control                                       |
|                 | Chipset ID         | Sleeve Bearing<br>Intel - Alpine Ridge DSL6540                             |
|                 | <b>Performance</b> | Maximum Data Transfer Rate   |
| Bandwidth       |                    | 3.94 GB/s (x4 PCIe 3.0 )   |
| Type and Rate   |                    | Thunderbolt 3 - 40 Gbit/s  |
|                 |                    |  |

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|---------------------|------------------------------------|
| Compatible Networks | 10 Gbps/5G/2.5G/1G/100 Mbps        |
| Auto MDIX           | Yes                                |
| Full Duplex Support | Yes                                |
| Jumbo Frame Support | 9K max.                            |
| Promiscuous Mode    | Yes                                |
| Supported Protocols | IEEE 802.3x (Flow Control Support) |
|                     | IEEE 802.1Q (VLAN tagging)         |

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|---------------------|-------------------|---------------------------------------|
| <b>Connector(s)</b> | Connector Type(s) | PCI Express x4                        |
|                     | Internal Ports    | PCI Express x16                       |
|                     | Internal Ports    | RJ-45                                 |
|                     | External Ports    | Thunderbolt 3 USB-C (24-pin) (40Gbps) |
|                     | External Ports    | DisplayPort (20 pin)                  |

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| <b>Software</b> | OS Compatibility | Windows 7, 8, 8.1, 10                          |
|                 |                  | Windows Server 2008 R2, 2012, 2012 R2, 2016    |
|                 |                  | (Windows Drivers are supported in 64-bit only) |
|                 |                  | macOS 10.12 - 10.13                            |

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| <b>Special Notes / Requirements</b> | System and Cable Requirements | Thunderbolt 3 equipped computer with a Thunderbolt 3 port.  |
|                                     | Note                          | The expansion chassis does not support video cards.   |
|                                     | Note                          | This expansion chassis does not provide full power delivery but will provide 15W of power, resulting in a slow charge to some laptops, such as MacBook Pro. When the dock is connected to your host laptop, a charging icon may appear on your laptop's screen. This is only sufficient enough to charge your laptop in sleep state, and charging will require an extended time period. |
|                                     | Note                          | 5K support can only be achieved using a Thunderbolt 3 5K monitor. DisplayPort 5K monitors will not work with this expansion chassis.  |
|                                     | Note                          | A 4K-capable display is required to achieve 4K x 2K resolution (4K is also known as 4K x 2K).   |
|                                     | Note                          | Certain monitors may be limited to 4K at 30Hz when connecting through DisplayPort. These monitors include the following models: Dell P2715Q, Viewsonic VX2475Smhl-4K, Philips 288P6LJEB, LG 31MU97C-B, Asus PB287Q (these models will need to be set to 4K at 30Hz).  |
|                                     | Note                          | When connecting a display to one of the Thunderbolt 3 USB-C ports, a USB-C video adapter might be required depending on the input of your display.  |

Secondary Thunderbolt 3 port can also be used to connect USB 3.1 (10Gbps) USB-Type C devices, such as USB 3.1 Hubs. Backwards compatible with USB 3.0 (USB 3.1 Gen 1), and USB 2.0.

|                                 |                              |   |
|---------------------------------|------------------------------|---|
| <b>Power</b>                    | Power Source                 | AC Adapter Included                         |
|                                 | Input Voltage                | 100 - 240 AC                                |
|                                 | Input Current                | 2A  |
|                                 | Output Voltage               | 12V DC                                      |
|                                 | Output Current               | 5.417A                                      |
|                                 | Center Tip Polarity          | Positive                                    |
|                                 | Plug Type                    | N   |
|                                 | Power Consumption (In Watts) | 65  |
| <b>Environmental</b>            | Operating Temperature        | Chassis & PCIe Card: 5C to 35C (41F to 95F) |
|                                 | Storage Temperature          | Chassis: -20C to 50C (-4F to 122F)          |
|                                 | Humidity                     | PCIe Card: -20C to 60C (-4F to 140F)        |
|                                 |                              | Chassis & PCIe Card: 20-80%RH               |
| <b>Physical Characteristics</b> | Color                        | Black                                       |
|                                 | Material                     | Aluminum and Steel                          |
|                                 | Cable Length                 | 19.7 in [5 cm]                              |
|                                 | Product Length               | 11.0 in [2.8 cm]                            |
|                                 | Product Width                | 5.6 in [1.4 cm]                             |
|                                 | Product Height               | 3.2 in [82 mm]                              |
|                                 | Weight of Product            | 3.6 lb [1.6 kg]                             |
| <b>Packaging Information</b>    | Package Length               | 14.2 in [3.6 cm]                            |
|                                 | Package Width                | 11.4 in [2.9 cm]                            |
|                                 | Package Height               | 5.7 in [1.4 cm]                             |
|                                 | Shipping (Package) Weight    | 8.0 lb [3.6 kg]                             |
| <b>What's in the Box</b>        | Included in Package          | Thunderbolt 3 PCIe expansion box            |
|                                 | Included in Package          | Thunderbolt 3 cable                         |
|                                 | Included in Package          | rubber feet                                 |

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| Included in Package | universal power adapter (NA/JP, UK, EU, ANZ) |
| Included in Package | quick-start guides                           |
| Included in Package | 10G network card                             |
| Included in Package | low-profile bracket                          |

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

