

Thunderbolt 3 to 10GbE Fiber Network Chassis 4 Port

Product ID: BNDTB410GSFP



This Thunderbolt 3 10GbE NIC adapter lets you connect a Thunderbolt 3 device to a 10GbE network. The adapter combines the Thunderbolt 3 technology of TB31PCIEX16 with the 10GbE dual-fiber connection of PEX10GSFP4I (Intel XL710 chipset). The assembled adapter features one DisplayPort output, one additional Thunderbolt 3 port, and four open 10GbE SFP+ slots.

The Thunderbolt 3 10GbE NIC adapter is the perfect solution for your mission-critical operations. The network adapter supports 802.1Q VLAN tagging for better network management, 802.3ad link aggregation for greater network speeds, redundancy support for network reliability, and four 10G fiber connections through open SFP+ fiber slots, to build a custom setup.

Requiring only a Phillips type screwdriver and your choice of SFP, this Thunderbolt 3 10GbE NIC adapter can be assembled and connected in minutes.

The Thunderbolt 3 chassis not only pairs well with the 10G fiber network card, the card can be swapped for any PCIe card 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 multitask effortlessly.

The TB31PCIEX16 and PEX10GSFP4I are backed by a StarTech.com 2-year warranty.

Certifications, Reports and Compatibility

Applications

- Ideal for systems that need to run 24/7 and require increased network bandwidth and reliability such as industrial automation companies and POS systems
- An easy solution for those whose network security is top priority and require a direct fiber connection, such as financial institutions and federal agencies

- Use to create a video / audio editing console, with 10Gbps access to network storage
- Great for remote embedded industrial monitoring systems, and high-speed video surveillance
- For businesses looking to enhance bandwidths that are difficult to achieve using copper

Features

- Get the increased bandwidth, speed, reliability and security of a 10 GbE NIC, using your computer's Thunderbolt 3 port
- Upgrade your peripherals without having to upgrade your chassis, by just switching out the PCIe NIC card
- Assemble and install easily, with just a screwdriver

Hardware

Warranty	2 Years
Fan(s)	Yes
Fans	92 mm
Ports	7
Air Flow Rate	14.06 CFM
Noise Level	24.55 dB
Interface	Thunderbolt Fiber (10 Gigabit Ethernet)
Bus Type	Thunderbolt 3 PCI Express
Card Type	Standard Profile
Industry Standards	Thunderbolt 3 IEEE 802.3ae (10GBASE-LR/SR only) PCI Express Rev 3.0, using PCIe x8 (or higher) slot
Fan Bearing Type	Sleeve Bearing
Chipset ID	Chassis: Intel - Alpine Ridge DSL6540 PCIe Card: Intel - XL710

Performance

Maximum Data Transfer Rate	Chassis: 40 Gbps (Thunderbolt 3) PCIe Card: 20 Gbps - Full-Duplex
Bandwidth	3.94 GB/s (x4 PCIe 3.0)
Type and Rate	Thunderbolt 3 - 40 Gbit/s
Compatible Networks	10 Gbps
Full Duplex Support	Yes
Jumbo Frame Support	9K max.
Supported Protocols	IEEE 802.3ad (Link Aggregation) IEEE 802.3x (Flow Control Support) IEEE 802.1Q (VLAN tagging)

Connector(s)

Connector Type(s)	PCI Express x8
Internal Ports	PCI Express x16 SFP+ Slot
External Ports	Thunderbolt 3 USB-C (24-pin) (40Gbps) DisplayPort (20 pin)

Software

OS Compatibility	Windows 7, 8, 8.1, 10 Windows Server 2008 R2, 2012, 2012 R2, 2016 (Windows Drivers are supported in 64-bit only) Linux 2.6.24 to 4.11.x (64-bit Only)< i>LTS Versions only</i>
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Special Notes / Requirements

System and Cable Requirements	Thunderbolt 3 equipped computer with a Thunderbolt 3 port.
Note	The expansion chassis does not support video cards. 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.

5K support can only be achieved using a Thunderbolt 3 5K monitor. DisplayPort 5K monitors will not work with this expansion chassis.

A 4K-capable display is required to achieve 4K x 2K resolution (4K is also known as 4K x 2K).

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).

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.

Indicators

LED Indicators	Link/Activity (green)
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Power

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

Environmental

Operating Temperature	Chassis: 5C to 35C (41F to 95F)
	PCIe Card: 5C to 50C (41F to 122F)
Storage Temperature	Chassis: -20C to 50C (-4F to 122F)
	PCIe Card: -20C to 60C (-4F to 140F)



Humidity 20% ~ 80% RH

Physical Characteristics

Color	Black
Material	Aluminum and Steel
Cable Length	19.7 in [50 cm]
Product Length	11.0 in [28 cm]
Product Width	5.6 in [14.2 cm]
Product Height	3.2 in [82 mm]
Weight of Product	3.6 lb [1.6 kg]

Packaging Information

Package Quantity	1
Package Length	14.2 in [36 cm]
Package Width	11.4 in [29 cm]
Package Height	5.7 in [14.5 cm]
Shipping (Package) Weight	8.0 lb [3.6 kg]

What's in the Box

Included in Package	Thunderbolt 3 PCIe expansion box
	Thunderbolt 3 cable
	rubber feet
	universal power adapter (NA/JP, UK, EU, ANZ)
	network card
	quick-start guides

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

