

Thunderbolt 3 to 2-port 10GbE NIC Chassis

Product ID: BNDTB310GNDP



This Thunderbolt 3 to 10GbE NIC lets you connect your Thunderbolt 3 enabled device to a 10 Gigabit Ethernet network. This adapter combines the StarTech.com Thunderbolt 3 PCIe Expansion Chassis (TB31PCIEX16) and the 2-port PCI Express 10G NIC (ST10GPEXNDPI), giving you one DisplayPort output, one additional Thunderbolt 3 port and two 10GbE ports.

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, you can assemble this Thunderbolt 3 to 10GbE NIC chassis 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 -- the card can be swapped 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 multitask effortlessly.

The TB31PCIEX16 and ST10GPEXNDPI 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

Hardware

Warranty	2 Years
Fan(s)	Yes
Fans	92 mm
Ports	5
Air Flow Rate	14.06 CFM
Noise Level	24.55 dB
Interface	Thunderbolt RJ45 (10 Gigabit Ethernet)
Bus Type	Thunderbolt 3 PCI Express
Card Type	Standard Profile (LP bracket incl.)
Industry Standards	Thunderbolt 3 IEEE 802.3an (10GBASE-T) IEEE 802.3ab (1GBASE-T) IEEE 802.3u (100BASE-T) PCI Express Rev 3.0
Fan Bearing Type	Sleeve Bearing
Chipset ID	Chassis: Intel - Alpine Ridge DSL6540 PCIe Card: Intel - X550AT

Performance



Maximum Data Transfer Rate	40 Gbps (Thunderbolt 3)
Bandwidth	3.94 GB/s (x4 PCIe 3.0)
Type and Rate	Thunderbolt 3 - 40 Gbit/s
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)

Connector(s)

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

Software

OS Compatibility	Windows 7, 8, 8.1, 10 Windows Server 2008 R2, 2012, 2012 R2, 2016
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Special Notes / Requirements

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

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	Chassis & PCIe Card: 20-80%RH

Physical Characteristics

Color	Black
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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 Length	14.2 in [36 cm]
Package Width	11.4 in [29 cm]
Package Height	5.7 in [14.5 cm]
Shipping (Package) Weight	7.7 lb [3.5 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)
	quick-start guides
	network card
	low-profile bracket

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

