Thunderbolt 3 to 10GbE NIC Chassis + Card

Product ID: BNDTB10GI

This Thunderbolt 3 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

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	
Port Style	Integrated on Card	
Industry Standards	Thunderbolt 3	
	IEEE 802.3an (10GBASE-T), IEEE 802.3ab (1GBASE-T), IEEE 802.3u (100BASE-T)	
	NBASE-T (Linux only)	
	PCI Express Rev 2.0	
	IEEE 802.1Q VLAN Tagging	
	IEEE 802.3x Full Duplex Flow Control	
Fan Bearing Type	Sleeve Bearing	

Chipset ID	Intel - Alpine Ridge DSL6540	

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
	RJ-45
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)
	macOS 10.12 - 10.13

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.

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 & PCIe Card: 5C to 35C (41F to 95F)
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
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	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)
	10G network card
	low-profile bracket
	quick-start guides

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