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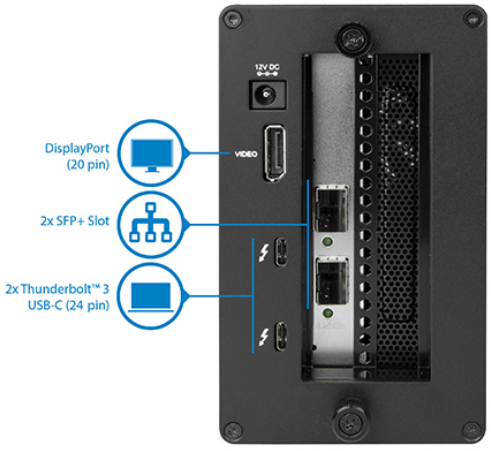
Data Sheet

Thunderbolt 3 to 10GbE Fiber Network Chassis 2 Port

Product ID: BNDTB210GSFP

This Thunderbolt™ 3 to fiber network adapter connects your Thunderbolt 3 enabled device to a 10GbE network. The adapter combines the Thunderbolt 3 technology of TB31PCIEX16 with the 10GbE dual-fiber connection of PEX20000SFPI (Intel® 82599 chipset). The assembled adapter features one DisplayPort output, one additional Thunderbolt 3 port, and two open 10GbE SFP+ slots.



Mission-critical connectivity

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

Install and assemble with ease

Requiring only a Phillips type screwdriver and your choice of SFPs, this Thunderbolt 3 to 10G fiber network adapter can be assembled and connected in minutes.

Change up your chassis

The Thunderbolt 3 chassis not only pairs well with the 10G fiber network card--you can swap in 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 PEX20000SFPI are backed by a StarTech.com 2-year warranty.

Certifications, Reports and Compatibility

RoHS Compliant Available

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 your PCIe card
- Assemble easily, with just a screwdriver

	Warranty	2 Years
Hardware	Air Flow Rate	14.06 CFM
	Bus Type	PCI Express
		Thunderbolt 3
	Card Type	Standard Profile (LP bracket incl.)
	Chipset ID	Chassis: Intel - Alpine Ridge DSL6540 PCIe Card: Intel 82599
	Fan Bearing Type	Sleeve Bearing
	Fan(s)	Yes
	Fans	1 - 92 mm
	Industry Standards	IEEE 802.3ae (10GBASE-LR/SR only)
		Thunderbolt 3
		IEEE 802.3aq (10GBASE-LRM)
		PCI Express Rev 2.0, using PCIe x8 (or higher) slot
	Interface	Fiber (10 Gigabit Ethernet)
		Thunderbolt
	Noise Level	24.55 dB
	Ports	5
Performance	Bandwidth	3.94 GB/s (x4 PCIe 3.0)
	Compatible Networks	10 Gbps
	Full Duplex Support	Yes
	Jumbo Frame Support	15K max.
	Maximum Data Transfer Rate	Chassis: 40 Gbps (Thunderbolt 3) PCIe Card: 20 Gbps - Full-Duplex
	Promiscuous Mode	Yes
	Supported Protocols	IEEE 802.3ad (Link Aggregation) IEEE 802.3x (2005 Flow Control Support) IEEE 802.1Q (VLAN tagging)
	Type and Rate	Thunderbolt 3 - 40 Gbit/s
Connector(s)	Connector Type(s)	1 - PCI Express x8 Male
	External Ports	2 - Thunderbolt™ 3 USB-C (24-pin) Female
		1 - DisplayPort (20 pin) Female
	Internal Ports	1 - PCI Express x16 Female

		2 - SFP+ Slot Female
Software	OS Compatibility	Windows® 7, 8, 8.1, 10 Windows Server® 2008 R2, 2012, 2012 R2, 2016 Linux 2.6.24 to 4.11.x *LTS Versions only*
Special Notes / Requirements	**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.
	System and Cable Requirements	Thunderbolt 3 equipped computer with a Thunderbolt 3 port.
Power	Center Tip Polarity	Positive
	Input Current	2A
	Input Voltage	100 ~ 240 AC
	Output Current	5.417A
	Output Voltage	12 DC
	Plug Type	N
	Power Consumption (In Watts)	65
	Power Source	AC Adapter Included
Environmental	Humidity	Chassis & PCIe Card: 20% ~ 80%RH

	Operating Temperature	Chassis: 5°C to 35°C (41°F to 95°F) PCIe Card: 5°C to 50°C (41°F to 122°F)
	Storage Temperature	Chassis: -20°C to 50°C (-4°F to 122°F) PCIe Card: -20°C to 60°C (-4°F to 140°F)
Physical Characteristics	Cable Length	19.7 in [500 mm]
	Color	Black
	Enclosure Type	Aluminum and Steel
	Product Height	3.2 in [82 mm]
	Product Length	11 in [280 mm]
	Product Weight	3.6 lb [1.6 kg]
	Product Width	5.6 in [142 mm]
What's in the Box	Included in Package	1 - Thunderbolt 3 PCIe expansion box 1 - Thunderbolt 3 cable 4 - rubber feet 1 - PCIe 10GBase Fiber Card 1 - universal power adapter (NA/JP, UK, EU, ANZ) 1 - low-profile bracket 2 - quick-start guides

Product appearance and specifications are subject to change without notice.