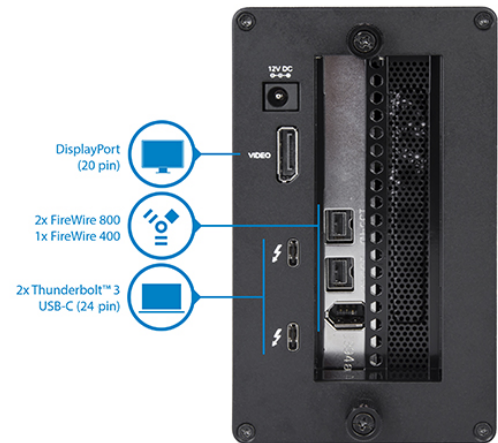# Thunderbolt 3 to FireWire Adapter - Card & Chassis

Product ID: BNDTB1394B3

The Thunderbolt 3 to 1394 FireWire adapter connects your FireWire peripherals to your Thunderbolt 3 computer. This adapter combines StarTech.com's Thunderbolt 3 PCIe Expansion Chassis (TB31PCIEX16) and 1394 FireWire adapter card (PEX1394B3). The chassis uses Thunderbolt 3 technology, the fastest connection available, supporting your FireWire® devices, plus one DisplayPort output and one additional Thunderbolt 3 port.

Save on upgrade costs

Use your legacy FireWire devices with your next-generation Thunderbolt 3 computer, without having to pay for upgraded peripherals.

Increase productivity with Thunderbolt 3

Thunderbolt 3 is the fastest connection available. By avoiding performance bottlenecks, you can accomplish more in the same amount of time. With 40Gbps of throughput and support for other high-performance PCIe cards, you can swap the card in and out, to add the peripherals you need connected to a Thunderbolt 3 desktop or laptop computer.

Install with ease

Both hot-swap and backward compatible, you can assemble and connect this adapter in minutes. Install the PCIe card using only a Phillips type screwdriver, then plug and play with automatic driver installation.

The TB31PCIEX16 is backed by StarTech.com's 2-year warranty.

The PEX1394B3 is backed by StarTech.com's lifetime warranty.

Certifications, Reports and Compatibility

RoHS Compliant
Available

CE

FC

Applications

- Ideal for anyone who wants to upgrade their laptop without having to upgrade their legacy FireWire peripherals
- Daisy chain up to six Thunderbolt 3 devices and expand your workstation to suit your specific requirements
- Great for connecting DV camcorders, external hard drives, digital cameras, and other high-powered FireWire peripherals to your Thunderbolt 3 laptop
- Ideal for those who may need to swap the included FireWire card with other types of PCI Express devices such as USB-A and USB-C cards, SSDs, network adapters, eSATA cards, and video capture cards

Features

- Save on peripheral upgrade costs by adapting legacy FireWire peripherals to Thunderbolt 3 devices
- Create an efficient workstation with extra displays, using the DisplayPort output and additional Thunderbolt 3 port
- Upgrade your peripheral connections without having to upgrade your chassis by just switching out your PCIe card
- Install the PCIe card easily with just a screwdriver and automatic driver installation

Hardware	Warranty	2 Years
	Air Flow Rate	14.06 CFM
	Bus Type	PCI Express
		Thunderbolt 3
	Card Type	Standard Profile
	Chipset ID	Intel - Alpine Ridge DSL6540 (Thunderbolt Chassis) Texas Instruments - XIO2213B (Firewire card)
	Fan Bearing Type	Sleeve Bearing
	Fan(s)	Yes
	Fans	1 - 92 mm
	Industry Standards	IEEE-1394/1394A/1394B OHCI PCI Express 1.1
		Thunderbolt 3
	Interface	FireWire 800 (1394b)
		Thunderbolt
		FireWire 400 (1394a)
	Noise Level	24.55 dB
	Ports	6
Performance	Bandwidth	3.94 GB/s (x4 PCIe 3.0)
	Maximum Data Transfer Rate	40Gbps (Thunderbolt 3) 800Mbps (Firewire) 400Mbps (Firewire)
	Type and Rate	Thunderbolt 3 - 40 Gbit/s
Connector(s)	Connector Type(s)	1 - PCI Express x1 Male
	External Ports	1 - FireWire 400 (6 pin, IEEE 1394a) Female
		2 - FireWire 800 (9 pin, IEEE 1394b) Female
		2 - Thunderbolt™ 3 USB-C (24-pin) Female
		1 - DisplayPort (20 pin) Female
	Internal Ports	1 - LP4 (4 pin, Molex Large Drive Power) Male
		1 - PCI Express x16 Female
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 the 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: 20 ~ 80%RH
	Operating Temperature	Chassis: 5°C to 35°C (41°F to 95°F) PCIe Card: 0°C to 70°C (32°F to 158°F)
	Storage Temperature	Chassis: -20°C to 50°C (-4°F to 122°F) PCIe Card: -54°C to 150°C (-65°F to 302°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	3.7 lb [1.7 kg]
	Product Width	5.6 in [142 mm]
Packaging Information	Shipping (Package) Weight	7.4 lb [3.3 kg]

Product appearance and specifications are subject to change without notice.