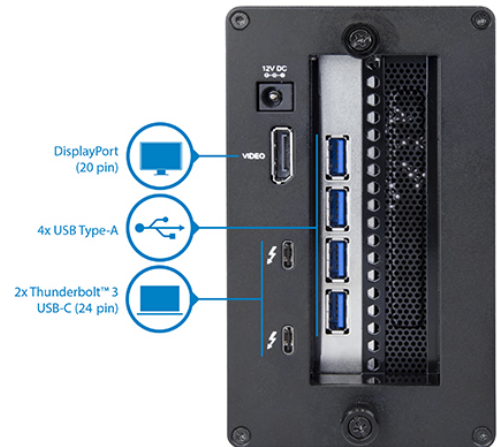# Thunderbolt 3 to PCIe USB 3.1 Adapter - Chassis + 4 Port Card

Product ID: BNDTBUSB3142

Connect your Thunderbolt™ 3 enabled computer to external USB 3.1 (Gen 2) devices using this Thunderbolt 3 to PCIe USB 3.1 adapter. Providing up to 10Gbps throughput, the adapter offers four USB 3.1 ports on two independent bus channels, an additional TB3 port, and a DisplayPort output. The adapter combines the StarTech.com USB 3.1 PCIe card (PEXUSB314A2V) and the TB3 chassis (TB31PCIEX16).

Faster USB performance

With two host controller chipsets, shared across two ports instead of four, this 4-port Thunderbolt 3 to USB 3.1 adapter dedicates up to 10Gbps for each set of two USB ports. It reduces performance bottlenecks and doubles your total available bandwidth to 20Gbps.

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 and assemble with ease

Requiring only a Phillips type screwdriver, this Thunderbolt 3 to PCIe USB 3.1 adapter can be assembled and connected in minutes.

The TB31PCIEX16 and PEXUSB314A2V are backed by a StarTech.com 2-year warranty.

Certifications, Reports and Compatibility

RoHS Compliant
Available

Applications

- Ideal for connecting your USB legacy and next-generation devices to a Thunderbolt 3 enabled computer
- Great for file backups, video editing, and data recovery, using high-bandwidth USB 3.1 Gen 2 external storage solutions
- For use with large external storage solutions

Features

- Transfer files and access USB 3.1 devices faster, with up to 10Gbps throughput
- Create an efficient work station with extra displays using the DisplayPort output and additional Thunderbolt 3 port
- Upgrade your peripherals without having to upgrade you chassis by just switching out your PCIe card
- Assemble and install easily with just a screwdriver

Hardware	Warranty	2 Years
	Bus Type	PCI Express
	Chipset ID	Chassis: Intel - Alpine Ridge DSL6540 PCIe Card: ASMedia - ASM1142
	Fan(s)	Yes
	Industry Standards	Thunderbolt 3
		USB 3.1 Specification Rev. 1.0 USB Specification Rev. 2.0 PCI Express Base Specification Rev. 3.0 Intel xHCI Specification Rev. 1.1 UASP (USB Attached SCSI Protocol) Rev. 1.0
	Interface	USB 3.1 Gen 2
	Port Style	Integrated on Card
	Ports	7
Performance	Maximum Data Transfer Rate	40 Gbps (Thunderbolt 3)
	Type and Rate	Thunderbolt 3 - 40 Gbit/s
		USB 3.1 Gen 2 - 10 Gbit/s
	UASP Support	Yes
Connector(s)	Connector Type(s)	1 - PCI Express x4 Male
Software	OS Compatibility	Windows® 7, 8, 8.1, 10 macOS 10.12 - 10.13
		Windows® 7, 8, 8.1, 10 Windows Server® 2008 R2, 2012, 2016 Mac OS X® 10.9 to 10.10 Linux® 3.5 to 4.11.x *LTS version only* macOS 10.12 - 10.13
Special Notes / Requirements	Note	USB power is limited to 900mA per port and is not recommended for charging external devices
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	Enclosure and PCIe Card: 20-80%RH
	Operating Temperature	Enclosure: 5°C to 35°C (41°F to 95°F) PCIe Card: -20°C to 60°C (-4°F to 140°F)
	Storage Temperature	Enclosure and PCIe Card: -20°C to 50°C (-4°F to 122°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]
Packaging Information	Shipping (Package) Weight	7.2 lb [3.3 kg]
What's in the Box	Included in Package	1 - Thunderbolt 3 PCIe expansion box
		1 - Thunderbolt 3 cable
		4 - rubber feet
		1 - 4-port USB 3.1 card
		1 - universal power adapter (NA/JP, UK, EU, ANZ)
		2 - quick-start guides
	Air Flow Rate	14.06 CFM
	Bandwidth	3.94 GB/s (x4 PCIe 3.0)
	Bus Type	Thunderbolt 3
	Card Type	Standard Profile
	External Ports	2 - Thunderbolt™ 3 USB-C (24-pin) Female
		1 - DisplayPort (20 pin) Female
		4 - USB 3.1 USB Type-A (9 pin, Gen 2, 10 Gbps) Female
	Fan Bearing Type	Sleeve Bearing
	Fans	1 - 92 mm
	Interface	Thunderbolt
	Internal Ports	1 - LP4 (4 pin, Molex Large Drive Power) Male
		1 - PCI Express x16 Female
		1 - SATA Power (15 pin) Plug

Noise Level	24.55 dB

Product appearance and specifications are subject to change without notice.