Thunderbolt 3 to PCIe M.2 adapter - Chassis + Card

Product ID: BNDTB4M2E1

This Thunderbolt 3 to PCIe M.2 adapter lets you take advantage of the speed of PCIe solid-state drives, connected externally to your Thunderbolt 3 desktop or laptop computer. The adapter combines the StarTech.com Thunderbolt 3 PCIe Expansion Chassis (TB31PCIEX16) and the M.2 PCIe SSD adapter card (PEX4M2E1), giving you a DisplayPort output and an additional Thunderbolt 3 port.

Get ultra-fast data access by adding this PCIe M.2 SSD adapter externally to your existing Thunderbolt 3 computer, using the Thunderbolt 3 chassis -- improving your storage performance and expanding overall capacity. The adapter supports PCIe M.2 SSDs (NVMe and AHCI): 2242, 2260, 2280, and 22110 drives.

Connect additional displays through the chassis' dedicated DisplayPort output and second Thunderbolt 3 (USB-C) port (USB-C video adapter may be required). With two extended displays, you can multitask effortlessly, avoiding the hassle of repositioning open windows or programs repeatedly throughout your workday.

You can assemble and connect the adapter in minutes. Put it together using only a screwdriver then plug and play with no software or drivers required.

The PEX4M2E1 and TB31PCIEX16 are backed by a StarTech.com 2-year warranty.

Certifications, Reports and Compatibility

Applications

• Connect a PCIe M.2 SSD to your computer through your computer's Thunderbolt 3 port, to boost storage speed and increase data capacity

• Ideal for high-performance workstations for AV creators and editors

• Great for off loading large raw data files to high performance external storage, conserving system resources for day

to day operations

Features

• Boost performance and productivity by externally adding a PCIe M.2 SSD to your Thunderbolt 3 computer via the Thunderbolt 3 chassis

• Create an efficient work station with the chassis' extra display options, using the DisplayPort output and additional Thunderbolt 3 port

• Upgrade your peripherals without having to upgrade your chassis, by just switching out your PCIe card

• Assemble and install easily with just a screwdriver and no software

Hardware

Warranty	2 Years
Fan(s)	Yes
Fans	92 mm
Air Flow Rate	14.06 CFM
Noise Level	24.55 dB
Interface	Thunderbolt
	PCI Express
Bus Type	Thunderbolt 3
	PCI Express
Card Type	Standard Profile
Industry Standards	Thunderbolt 3
Fan Bearing Type	Sleeve Bearing
Chipset ID	Chassis: Intel - Alpine Ridge DSL6540
	PCIe Card: N/A

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
	Hardware Raid Supported	No
Connector(s)		
	Internal Ports	PCI Express x16
		PCI Express x4
	External Ports	Thunderbolt 3 USB-C (24-pin) (40Gbps)
		DisplayPort (20 pin)
	Drive Connectors	M.2 (PCIe, AHCI, M-Key, NGFF)
	Host Connectors	Thunderbolt 3 USB-C (24-pin) (40Gbps)
Software		
	OS Compatibility	OS Independent
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.
Indicators		
	LED Indicators	power indicator only
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: -25C to 70C (-13F to 158F)
	Humidity	Chassis: 20-80%RH
		PCIe Card: 15% ~ 90% 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	8.1 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)
		x4 PCI Express to M.2 PCIe SSD Adapter
		low-profile bracket
		quick-start guides
		full-profile bracket (pre-installed)
		SSD standoff and installation screw

Product appearance and specifications are subject to change without notice.