Thunderbolt 3 PCIe Expansion Chassis, External Enclosure W/Dual PCI Express Slots, PCIe Box for Laptops/Desktops/All-In-Ones, 8K/4K Output Via TB3/DP 1.4 Ports, For Video Capture/Fiber/Ethernet Cards

Product ID: 2TBT3-PCIE-ENCLOSURE



Add two PCI-Express 3.0 x16 capable cards and increase the potential of a Thunderbolt 3 or 4 capable laptop, desktop, or all-in-one system. This Thunderbolt 3 PCIe Expansion Chassis lets you take advantage of the vast range of PCIe expansion cards with computers that lack PCIe slots. The chassis lets you connect an external monitor via the DisplayPort (DP) or Thunderbolt 3 ports, supporting Ultra High Definition (UHD) 4K or 8K resolutions.

Connect the expansion box to a Thunderbolt 3 or 4 computer with the included 3.3ft (1m) Thunderbolt-certified cable. The chassis features dual PCIe 3.0 x16 slots with 32Gbps of bandwidth that is shared dynamically between both slots (each slot supports up to 2700MBps/21.6Gbps). Add extra functionality to a host device using video capture cards, high-speed fiber or Ethernet networking, NVMe drives, FireWire, sound cards, or any other PCIe-compatible card.

The expansions chassis supports single-slot cards to a maximum length of 8in (20.3cm), allowing current or legacy PCIe cards to be installed. The built-in fan ensures active cooling for your hardware, preventing overheating during heavy usage.

The TAA-Compliant chassis delivers up to 25W per slot, ensuring optimal performance for your connected devices. In addition, the two internal 12V 15W SATA power ports ensure the installed cards have enough power (up to 40W per card) at their disposal.

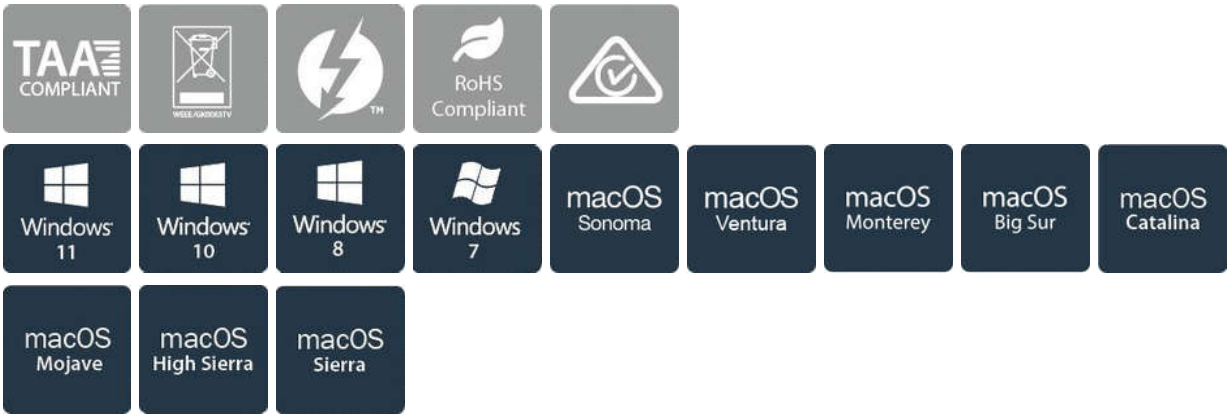
Connect a second high-resolution monitor using the DP 1.4 or Thunderbolt 3 ports at the back of the chassis. Enjoy video resolutions of up to single 8K or 5K 60Hz or dual 4K 60Hz (other video resolutions are also supported).

The enclosure is driverless, enabling rapid deployment and is supported in macOS, Windows, and Linux.

The chassis can be placed horizontally or vertically, adapting to your workspace. The toolless design and aluminum construction ensure fast card installation and longevity.

Note: Some expansion cards installed in the chassis may require drivers to be installed.

Certifications, Reports and Compatibility



Applications

Features

• THUNDERBOLT 3 PCIE EXPANSION CHASSIS: Add PCI Express support to a Thunderbolt 3/4 capable laptop/desktop computer; Dual external PCIe 3.0 x16 slots; 32Gbps of combined bandwidth (up to 21.6Gbps/2700MBps per slot); 3.3ft (1m) Thunderbolt cable included

• EXPANDABILITY FOR LAPTOPS: Integrate video capture cards, high-speed fiber/Ethernet connectivity, NVMe drives, FireWire cards, and more to unlock the potential of a notebook using this Thunderbolt 3 to PCIe chassis; Toolless design; Aluminum construction

• 8K & 4K DISPLAY SUPPORT: Connect a display through the external PCIe enclosure; The DP 1.4 port and TB3 ports support video outputs up to 8K/5K 60Hz or dual 4K 60Hz (other video resolutions are also supported); PCIe box does not support GPU graphic cards

• ROBUST POWER: The chassis delivers 25W per PCIe slot and features dual internal 12V 15W SATA power ports for up to 40W per card; 12V 10A (120W) universal power adapter is included and is compatible with NA/JP, UK, EU, and ANZ regions

• COMPATIBILITY: Use single-width cards up to 8in (20.3cm) long; Built-in fan for active cooling; Daisy chain compatible with multiple TB3/4 devices; The chassis is driverless and is compatible with macOS, Windows, and Linux; TAA-compliant

Hardware

Warranty	2 Years
Fan(s)	Yes
Fans	1 - 60 mm
Ports	3

	Interface	Thunderbolt
	Bus Type	PCI Express
	Port Style	External Hub
	Industry Standards	Thunderbolt 3
		DisplayPort 1.4
		PCI Express 3.0
	Chipset ID	Titan Ridge DSL7440 (x2)
		Ti TPS65983B (x2)
Performance		
	Maximum Data Transfer Rate	40 Gbps (Thunderbolt 3)
	Maximum Cable Length	39.4 in [1000 mm]
	Bandwidth	3.94 GB/s (x4 PCIe 3.0)
	Type and Rate	Thunderbolt 3 - 40 Gbit/s
Connector(s)		
	Internal Ports	2 - PCI Express x16
		2 - 15 pin SATA Power Plug
	External Ports	2 - Thunderbolt 3 USB-C (24-pin) (40Gbps)
		1 - DisplayPort (20 pin) Female
Software		
	OS Compatibility	No additional drivers or software required
Special Notes / Requirements		
	Note	Requires a Thunderbolt 3 or 4 host computer with Windows (7 and up) and macOS (10.12 and up) operating systems that is also Thunderbolt certified to ensure device and OS interoperability.
		This product does not support graphics cards (GPUs).
		The PCIe Expansion Chassis supports up to two PCIe 3.0 cards using x16 mechanical slots. However, the slots are in x4 mode.

		When using DisplayPort and a 8K monitor a video adapter from DisplayPort to HDMI is needed. The available bandwidth per slot is 21.6Gbps. When two PCIe cards are installed, up to 32Gbps of dynamic bandwidth are available for the cards to use. Linux Kernel 5.15 (LTS only) and up is supported.
Indicators		
	LED Indicators	1 - Solid Blue: Receiving Power , Off: No Power
Power		
	Power Source	AC Adapter Included
	Input Voltage	100 - 240 AC
	Input Current	3A
	Output Voltage	12V DC
	Output Current	10A
	Center Tip Polarity	Positive
	Plug Type	N
	Power Consumption (In Watts)	120
Environmental		
	Operating Temperature	5 to 65C (41 to 149F)
	Storage Temperature	-20 to 65C (-4 to 149F)
	Humidity	20 to 80%
Physical Characteristics		
	Color	Black
	Material	Aluminum
	Product Length	3.3 in [8.4 cm]
	Product Width	11.1 in [28.1 cm]
	Product Height	5.6 in [14.2 cm]

	Weight of Product	3.6 lb [1.6 kg]
Packaging Information		
	Package Quantity	1
	Package Length	13.9 in [35.3 cm]
	Package Width	11.2 in [28.5 cm]
	Package Height	5.6 in [14.3 cm]
	Shipping (Package) Weight	7.8 lb [3.5 kg]
What's in the Box		
	Included in Package	1 - TB3 PCIe Expansion Chassis
		1 - 3.3ft [1m] Thunderbolt Host Cable
		1 - Power Adapter
		1 - Foot-Pad Set
		1 - Quick-Start Guide

Product appearance and specifications are subject to change without notice.