Thunderbolt 3 PCIe Expansion Chassis, External Enclosure with One PCI Express Slot, PCIe Box for Laptops/Desktops/All-In-Ones, 5K/4K Output Via TB3/DP Ports, TAA Compliant

Product ID: TB31PCIEX16

This Thunderbolt3 PCIe expansion chassis lets you add a PCI Express card to your laptop or desktop computer, through an external Thunderbolt 3 connection. The chassis also features a DisplayPort video output, so you can connect an additional monitor to your laptop, and supports Thunderbolt 3 daisy chaining, so you can expand your workstation even further.

The Thunderbolt 3 PCIe chassis makes it easy to expand your system with the capabilities you need to work at peak productivity. You can add many types of PCI Express cards, such as a PCIe USB 3.1/3.0/2.0 and USB-C, SSD, network, eSATA, FireWire or video capture cards. And, with the speed and bandwidth support of Thunderbolt 3 and PCIe 3.0, you can enjoy many of the same port additions you would from the PCI Express expansion slots of a desktop system.

The external PCIe enclosure features a dedicated DisplayPort output that lets you add an additional display to your laptop or desktop computer. The enclosure features a second Thunderbolt 3 (USB-C) port, that you can use to connect a secondary display (a USB-C video adapter may be required). With multiple extended displays, you can work more efficiently by multitasking faster, and avoid the hassle of continually repositioning several open windows or programs.
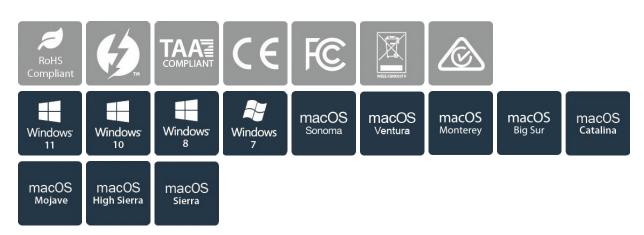
You can also use the second Thunderbolt 3 port to connect additional Thunderbolt, USB and DisplayPort devices to your system. You can daisy chain up to six Thunderbolt 3 devices and expand your workstation to suit your specific requirements.

Thunderbolt 3 is the fastest connection available, which means you don't have to deal with the performance bottlenecks of a slower connection, and can accomplish more in the same amount of time.

At up to 40Gbps this Thunderbolt 3 expansion chassis gives you the throughput to add displays to your laptop, access files quickly, and work without disruptions. It's easy to access and edit large uncompressed files such as videos and images on the fly, making it ideal for dynamic on-site production.

The TB31PCIEX16 is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

RoHS Compliant | TM | TAA COMPLIANT | CE | FC | WEEE/GK0063TV | (RCM)

Windows 11 | Windows 10 | Windows 8 | Windows 7 | macOS Sonoma | macOS Ventura | macOS Monterey | macOS Big Sur | macOS Catalina

macOS Mojave | macOS High Sierra | macOS Sierra

Applications

• Add many types of PCIe cards, such as a PCIe USB 3.1/3.0/2.0 and USB-C, SSD, network, eSATA, FireWire or video capture cards to your Thunderbolt 3 laptop

• Add an external PCIe card to your Thunderbolt 3 equipped desktop computer

Features

• THUNDERBOLT 3 PCIE EXPANSION CHASSIS: Add PCI Express support to a Thunderbolt 3/4 capable laptop / desktop computer; Increased productivity with Thunderbolt 3 and up to 40Gbps bandwidth; One external PCIe 3.0 x16 slot; 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 build

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

• ROBUST POWER: The chassis delivers 25W via the PCIe slot and the LP4 port on the other side of the unit supports up to 30W between the 12V and 5V rails.; 12V 5A (65W) universal power adapter is included and is compatible w/ 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; TAA-compliant

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Hardware

Warranty	2 Years

Fan(s)	Yes
Fans	1 - 60 mm
Ports	3
Air Flow Rate	14.06 CFM
Noise Level	24.55 dB
Interface	Thunderbolt
Bus Type	Thunderbolt 3
Card Type	Standard Profile
Industry Standards	Thunderbolt 3
Fan Bearing Type	Sleeve Bearing
Chipset ID	Intel - Alpine Ridge DSL6540

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

Connector(s)

Internal Ports	1 - PCI Express x16
External Ports	2 - Thunderbolt 3 USB-C (24-pin) (40Gbps)
	1 - DisplayPort (20 pin)

Software

OS Compatibility	Windows 7, 8, 8.1, 10, 11<br / >macOS 10.12 - 10.15, 11.0, 12.0, 13.0, 14.0, 15.0

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	1 - Power(Blue)

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	5C to 35C (41F to 95F)

	Storage Temperature	-20C to 50C (-4F to 122F)
	Humidity	20-80%RH

Physical Characteristics

	Color	Black
	Material	Aluminum and Steel
	Cable Length	19.7 in [500 mm]
	Product Length	11.0 in [28.0 cm]
	Product Width	5.6 in [14.2 cm]
	Product Height	3.2 in [8.2 cm]
	Weight of Product	3.6 lb [1.6 kg]

Packaging Information

	Package Quantity	1
	Package Length	9.4 in [23.9 cm]
	Package Width	18.5 in [47.1 cm]
	Package Height	3.7 in [9.4 cm]
	Shipping (Package) Weight	6.2 lb [2.8 kg]

What's in the Box

	Included in Package	1 - Thunderbolt 3 PCIe expansion box
		1 - Thunderbolt 3 cable
		4 - rubber feet
		1 - universal power adapter (NA/JP, UK, EU, ANZ)
		1 - quick-start guide

*Product appearance and specifications are subject to change without notice.