External Thunderbolt 3 to USB Controller - 3 Dedicated USB Host Chips - 1 Each for 5Gbps USB-A Ports, 1 Shared Between 10Gbps USB-C & USB-A Ports - TB3 Daisy Chain - Self Power

Product ID: TB33A1C

This Thunderbolt 3 USB 3.1 multi-channel hub controller delivers maximum USB performance, adding four high-speed independent USB ports to your Thunderbolt 3 laptop. It provides three dedicated USB controllers and up to 20Gbps of aggregated bandwidth for USB devices, ideal for connecting bandwidth-demanding devices such as 3D scanners.

The Thunderbolt 3 hub lets you access multiple USB devices at greater bandwidth and improved performance, and extend the life of your USB devices.

The high-speed USB hub provides two 10Gbps ports for connecting high-performance devices such as storage arrays, 3D scanners, audio-video devices, and external SSDs, with dedicated bandwidth for faster read/write access. The second Thunderbolt 3 port can be used to connect an additional USB-C device with up to 10G bandwidth.

When only one USB port is in use, the full 10Gbps bandwidth is available to the device. Two additional USB-A ports provide 5Gbps of bandwidth to each device simultaneously, ideal for portable hard drives or flash drives. For added convenience, the front USB-A port supports both data and charging of your mobile device.

The Thunderbolt 3 hub features a second Thunderbolt 3 port to connect an additional display to your laptop (a USB-C video adapter may be required). The port can also be used to connect additional Thunderbolt devices, daisy-chaining up to six devices.

The TB33A1C is backed by a StarTech.com 2-year warranty and free lifetime technical support.

Certifications, Reports and Compatibility

Applications

• Maximize the performance of high-bandwidth devices such as 3D scanners with the independent dedicated ports

• Connect multiple bus-powered SSDs with dedicated bandwidth for faster read/write access

• Connect a Thunderbolt 3 laptop to your USB devices such as printer, keyboard or mouse

Features

• MAXIMIZED BANDWIDTH: Utilize TB3 to drive 3 dedicated USB controllers over 4x PCIe lanes for high-performance USB transfer speeds; One controller for each 5Gbps port; 10Gbps ports share a controller

• HIGH PERFORMANCE USB PORTS: Thunderbolt 3 certified controller w/ 2x USB-A 5Gbps USB 3.0 (USB 3.1/3.2 Gen 1), 1x USB-A & 1x USB-C at 10Gbps SuperSpeed (Gen 2); Front BC 1.2 Fast Charge port up to 7.5W

• FAST TRANSFER SPEEDS: SSDs, NVMe drives, VR Headsets & 3D scanners need full USB throughput for optimal performance, multi function dock w/multiple controllers provides dedicated bandwidth to devices

• EASY SETUP: Auto-installation of drivers in supported OS; Adapter Hub has been tested & works with Windows 7 & up, MacOS 10.12 & up, and Linux; Incl 1.6" (0.5m) TB3 host cable & 65W universal PSU

• FLEXIBLE THUNDERBOLT 3 PORT: Downstream TB3 port w/ 3 modes of operation incl DP Alt Mode to connect 2nd monitor (5K 30Hz or 4K 60Hz) or daisy chain up to 5 TB3 devices, or connect a USB Type-C device

Hardware		
	Warranty	2 Years
	USB-C Device Port(s)	Yes
	USB-C Host Connection	No
	Fast-Charge Port(s)	No
	Ports	4
	Bus Type	Thunderbolt 3
		USB 3.1 Gen 2
		USB 3.1 Gen 1
	Industry Standards	Thunderbolt 3
		USB Battery Charging Specification Rev. 1.2
		Universal Serial Bus 3.1 Specifications Revision 1.0
		Universal Serial Bus Specification Revision 2.0
		Extensible Host Controller Interface Specification revision 1.1
		USB Attached SCSI Protocol Revision 1.0

Chipset ID	Intel - Alpine Ridge JHL6540
	ASMedia - ASM1042A
	ASMedia - ASM1142

Performance

Maximum Data Transfer Rate	Aggregate Bandwidth 20Gbit/s
Maximum Digital Resolutions	3840 x 2160 (4K) 60Hz
Type and Rate	USB 3.1 Gen 2 - 10 Gbit/s
	USB 3.1 Gen 1 - 5 Gbit/s
UASP Support	Yes
MTBF	1,936,146 hours

Connector(s)

Connector Type(s)	Thunderbolt 3 USB-C (24-pin) (40Gbps)
	USB Type-A (9 pin) USB 3.0 (5 Gbps)
	USB 3.1 USB Type-A (9 pin, Gen 2, 10 Gbps)
	USB Type-C (24 pin) USB 3.1 (10Gbps)

Software

OS Compatibility	Windows 7, 8, 8.1, 10<br / >macOS 10.12 - 10.15, 11.0

Special Notes / Requirements

System and Cable Requirements	Thunderbolt 3 equipped computer with a Thunderbolt 3 port.
	Your laptop's Thunderbolt 3 port must support USB Power Delivery 2.0 in order to power and charge your laptop.
Note	When connecting a display to the Thunderbolt 3 USB-C port, 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 Storage Enclosure or Hubs. Backwards compatible with USB 3.1 Gen 1 (USB 3.0), and USB 2.0.

USB 3.1 Gen 1 is also known as USB 3.0; this connectivity standard offers speeds up to 5Gbps. USB 3.1 Gen 2 offers speeds up to 10Gbps.

Power

Power Source	AC Adapter Included
Power Delivery	15W
Input Voltage	100 - 240 AC
Input Current	1.8 A
Output Voltage	20V DC
Output Current	3.25 A
Center Tip Polarity	Positive
Plug Type	N
Power Consumption (In Watts)	65W

Environmental

Operating Temperature	0C to 40C (32F to 104F)
Storage Temperature	-20C to 70C (-4F to 158F)
Humidity	90% RH

Physical Characteristics

Color	Silver & Black
Form Factor	Desktop
Material	Aluminum
Cable Length	19.7 in [50 cm]
Product Length	5.8 in [14.8 cm]
Product Width	2.9 in [74 mm]
Product Height	0.9 in [23.5 mm]
Weight of Product	7.1 oz [200 g]

Packaging Information

	Package Length	11.2 in [28.5 cm]
	Package Width	7.3 in [18.5 cm]
	Package Height	4.6 in [11.6 cm]
	Shipping (Package) Weight	3.4 lb [1.6 kg]

What's in the Box

	Included in Package	Thunderbolt 3 controller
		Thunderbolt 3 Cable (50 cm)
		universal power adapter (NA/JP, UK, EU, ANZ)
		quick-start guide

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