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Data Sheet

Thunderbolt 3 USB 3.1 Multi-Channel Hub Controller - 4 Port 10G/5G

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.

Maximize USB Performance

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.

Dedicated Independent Port 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.

Extend Your Workstation

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

- Multi-channel USB 3.1 hub controller with independent, dedicated ports sharing 20Gbps bandwidth
- Connect up to four high-performance USB devices with one USB-A (10Gbps), one USB-C (10Gbps) and two USB-A (5Gbps) ports
- Charge your smartphone using the always-on USB-A fast-charge port
- Additional Thunderbolt 3 port for daisy-chaining up to six Thunderbolt 3 devices
- Included power adapter ensures your connected devices are fully powered and operational

	Warranty	2 Years
Hardware	Bus Type	Thunderbolt 3 USB 3.1 Gen 2 USB 3.1 Gen 1
	Chipset ID	Intel - Alpine Ridge JHL6540 ASMedia - ASM1042A ASMedia - ASM1142
	Fast-Charge Port(s)	No
	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
	Ports	4
	USB-C Device Port(s)	Yes
	USB-C Host Connection	No
Performance	Maximum Data Transfer Rate	Aggregate Bandwidth 20Gbit/s
	MTBF	1,936,146 hours
	Type and Rate	USB 3.1 Gen 2 - 10 Gbit/s USB 3.1 Gen 1 - 5 Gbit/s
	UASP Support	Yes
Connector(s)	Connector Type(s)	2 - Thunderbolt™ 3 USB-C (24-pin) (40Gbps) Female 2 - USB Type-A (9 pin) USB 3.0 Female 1 - USB 3.1 USB Type-A (9 pin, Gen 2, 10 Gbps) Female 1 - USB Type-C (24 pin) USB 3.1 (10Gbps) Female
Software	OS Compatibility	Windows® 7, 8, 8.1, 10 macOS 10.12 - 10.3
Special Notes / Requirements	**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.
	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.
Power	Center Tip Polarity	Positive
	Input Current	1.8 A
	Input Voltage	100 ~ 240 AC
	Output Current	3.25 A
	Output Voltage	20V DC
	Plug Type	N
	Power Consumption (In Watts)	65W
	Power Delivery	15W
	Power Source	AC Adapter Included
Environmental	Humidity	90% RH
	Operating Temperature	0°C to 40°C (32°F to 104°F)
	Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Physical Characteristics	Cable Length	19.7 in [50 cm]
	Color	Silver & Black
	Enclosure Type	Aluminum
	Form Factor	Desktop
	Product Height	0.9 in [2.4 cm]
	Product Length	5.8 in [14.8 cm]
	Product Width	2.9 in [74 mm]
	Weight of Product	7.1 oz [200 g]
Packaging Information	Package Height	4.6 in [11.6 cm]
	Package Length	11.2 in [28.5 cm]
	Package Width	7.3 in [18.5 cm]
	Shipping (Package) Weight	3.4 lb [1.6 kg]
What's in the Box	Included in Package	1 - Thunderbolt 3 controller 1 - Thunderbolt 3 Cable (50 cm)

1 - universal power adapter (NA/JP, UK, EU, ANZ)

1 - quick-start guide

Product appearance and specifications are subject to change without notice.