

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

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## 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<br>ASMedia - ASM1042A<br>ASMedia - ASM1142 |
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#### 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<br>USB 3.1 Gen 1 - 5 Gbit/s |
| UASP Support                | Yes   |
| MTBF                        | 1,936,146 hours                                       |

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#### Connector(s)

|                   |  |
|-------------------|--|
| Connector Type(s) | Thunderbolt 3 USB-C (24-pin) (40Gbps)<br>USB Type-A (9 pin) USB 3.0 (5 Gbps)<br>USB 3.1 USB Type-A (9 pin, Gen 2, 10 Gbps)<br>USB Type-C (24 pin) USB 3.1 (10Gbps) |
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#### Software

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|------------------|---|
| OS Compatibility | Windows 7, 8, 8.1, 10, 11<br>>macOS 10.12 - 10.15, 11.0, 12.0 |
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#### Special Notes / Requirements

|                               |  |
|-------------------------------|--|
| System and Cable Requirements | Thunderbolt 3 equipped computer with a Thunderbolt 3 port.<br><br>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.<br><br>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.

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**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                 |

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**Environmental**

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

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**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]   |



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**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)<br>Weight | 3.4 lb [1.6 kg]   |

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**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                            |

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

