

ALLEGRO™ USB-C® PCIe®

Dual-Port SuperSpeed USB-C 10Gbps PCIe 3.0 Adapter Card With USB-C Charging

Quick Start Guide

You Should Have

The following item should be included in your product package:

- One Allegro USB-C PCIe adapter card
- One low-profile mounting bracket
- Quick Start Guide

The following may be required for installation:

- Medium Phillips screwdriver

System Requirements

Allegro USB-C PCIe card requires the following in order to operate in your system:

- One available PCI Express slot

Computer Compatibility

- Mac Pro® (3,1, 4,1, 5,1, or 7,1 [2019])
- Windows® computer with PCIe slots
- Linux® computer with PCIe slots

OS Compatibility

- macOS 10.10.5, 10.12.6+; **not compatible with macOS 10.11**
- Windows® 10, 8.1, 7
- Windows Server 2016, 2012, 2008 (64-bit editions)
- Linux Kernel 5.0+

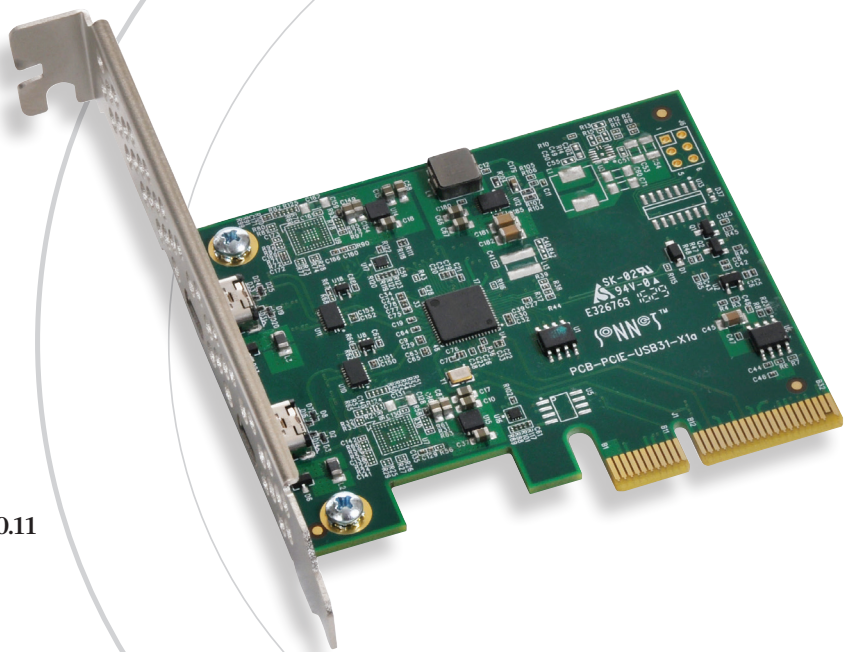
Thunderbolt™ Compatibility

- Mac®, Windows, or Linux computer via a Thunderbolt 2 or Thunderbolt 3 to PCIe card expansion system (**not compatible with Thunderbolt 1 to PCIe card expansion system**)
- macOS 10.12.6+
- Windows 10 (64-bit Edition Version 1809 or newer)

Supported Cables

You may use the following cable types with this product:

- USB-C 10Gbps
- USB-C 5Gbps
- Thunderbolt 3 40Gbps (0.5- or 0.7-meter only)
- Thunderbolt 3 20Gbps



Support Note: This document was up to date at the time of printing. However, changes to the hardware or software may have occurred since then. Please check the Sonnet Web site for the latest documentation.

1. Go to <https://www.sonnettech.com/support/kb/kb.php>
2. Click the Computer Cards link.
3. Click the PCIe Cards link.
4. Click the Allegro USB-C PCIe link, and then click the Manual link.
5. Click the Allegro USB-C PCIe Quick Start Guide [English] link, and then check the Document Version information. If the version listed is later than this document (this is version E), click the Download Now button for the latest version.



Remember to register your product online at <https://registration.sonnettech.com> to be informed of future upgrades and product releases.

Software updates and links are available from the Sonnet Web site at <https://www.sonnettech.com>.

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Allegro USB-C PCIe Quick Start Guide

Hardware Installation Steps—All Users

This section covers the installation of the Allegro USB-C PCIe card into your computer or Thunderbolt-to-PCIe expansion chassis.



Support Note: When handling computer products, you must take care to prevent components from being damaged by static electricity. Before opening your computer or removing parts from their packages, always ground yourself first by touching a metal part of the computer, such as a port access cover, and work in an area free of static electricity; avoid carpeted areas. Handle all electronic components by their edges, and avoid touching connector traces and component pins.

1. Shut down your computer or Thunderbolt-to-PCIe expansion chassis, and then open it to access the expansion card area (PCIe slots); refer to the user's manual for specific information.
2. Locate an available PCIe slot and remove its access cover.
3. Remove the Sonnet card from its packaging, and then install it into the PCI Express slot; **make sure the card is firmly seated and secured.**
4. Close the computer or Thunderbolt-to-PCIe expansion chassis.

Driver Information

For Mac users, the standard drivers that enable the Allegro card to work in your computer or Thunderbolt expansion chassis are installed as part of macOS 10.10.5, and 10.12.6 and later; the Allegro card is ready to use when you power on your computer.

For Windows users, the drivers that enable the Allegro card to work in your computer running supported versions of Windows except Windows 7 (32- and 64-bit versions) are installed automatically. For Windows 7 users, please go to <https://www.sonnettech.com/support/kb/kb.php>, click the Computer Cards link, and then the PCIe Cards link. Locate and click Allegro USB-C PCIe link, and then click the Driver link. Locate, download, and install the appropriate drivers. For all other users, update Windows to the latest version to ensure full support and performance.

For Linux users, the drivers that enable the Allegro card to work in your computer running Linux Kernel 5.0 and later are installed automatically; the Allegro card is ready to use when you power on your computer.

Known Limitations and Advice—All Users

USB peripherals have some limitations you should be aware of, and we have listed some additional advice here. Refer to the peripheral manufacturers' Web sites for more information.

- USB 3.2 (formerly 3.1) devices come in two varieties, Gen 1 and Gen 2. Gen 1 devices support data transfer speeds up to 5Gbps, while Gen 2 devices (such as this Sonnet adapter card) support data transfer speeds up to 10Gbps.
- The use of USB-C to USB-A cables is supported, but data transfer speeds are limited to the speeds supported by the device and cable.
- 1-meter or longer Thunderbolt 3 (40Gbps) cables DO NOT support USB 3.0 (3.1 Gen 1 and 3.2 Gen1) by design, only Thunderbolt 3 & USB 2.0.
- The Allegro USB-C PCIe card does not support Thunderbolt 3 only peripheral devices, even though they use the same connector. If the peripheral device only has the Thunderbolt icon (⚡) next to its port(s), or on the connector of an attached cable, it will not work with the Sonnet card.
- Many peripherals require additional drivers and application software to operate or have full functionality. Software should be included with the device, or available to download from the manufacturer's Web site. Check the peripheral's user's manual for information about necessary software.
- While your computer is on, always "eject", "stop", "unplug", or "put away" any drive (hard drive, SSD, etc.) before disconnecting it from its cable or the Sonnet card.
- While your computer is on, always "eject" any memory card before removing it from the USB card reader, or disconnecting the card reader (with the card inserted in it) from its cable or the Sonnet card.
- Disconnecting drives while they are transferring or receiving data, may result in damage to the file(s) being transferred or cause your system to hang.
- Although many peripherals may draw power directly from the Sonnet card, other devices require an external power source. Remember to use external power supplies when necessary.