



Sonnet Allegro Pro Type A USB3.2 PCIe

ProdCode: SONUSB3PRO4P10E

4-port, SuperSpeed USB-A 10Gbps PCIe Card with Dual Controllers and USB Charging



[\[Download Images\]](#) (.zip file)

Features

- **Four SuperSpeed USB-A 10Gbps Ports** - Adds four USB-A 10Gbps ports to your Mac Pro, Windows PC, or Linux computer with PCIe slots; or Thunderbolt to PCIe card expansion system
- **Powerful Performance with Dual USB 3.2 Gen 2 Controllers** - Support data transfers at up to twice as fast as USB 3.0 and USB 3.1 Gen 1, and boost data transfer speeds between connected drives
- **Powered Ports** - Supports USB bus-powered SSD, SSD RAID, and hard drive devices with up to 7.5W power per port
- **Supports Charge & Sync** - Supports USB 3.0 charging port handshake, and will simultaneously sync and charge iPads and other devices that support USB 3.0 charging at 1.5A per device
- **Protected Power Delivery** - Independent power regulation isolates each port to prevent cross-coupled power glitches that may cause accidental disconnects; resettable device overcurrent fuses protect the card and computer, and may be reset by a simple shutdown
- **Add USB 3.2 Gen 2 to Thunderbolt Expansion Systems** - Add four SuperSpeed USB-A 10Gbps ports to Thunderbolt to PCIe card expansion systems
- **Easy Installation** - Quick and easy user installation into any available PCIe

slot

- **Broad USB Device Support & Compatibility** - Supports storage, hubs, and other USB-IF compliant USB devices

Mac Compatibility

- Mac Pro® (3,1, 4,1, 5,1, or 7,1 [2019])
- macOS 10.12.6+⁽³⁾
- macOS Catalina compatible⁽⁴⁾

Windows Compatibility

- Computer with PCIe slots
- Windows 10, 8.1, 7
- Windows Server 2016, 2012, and 2008 (64-bit editions)

Linux Compatibility

- Computer with PCIe slots
- Linux 4.12+⁽²⁾ Kernel (LTS version only)

Thunderbolt Compatibility

- Supports USB 3.1 peripherals on a Mac or Windows PC when installed in a Thunderbolt 2 or Thunderbolt 3 PCIe expansion system⁽⁵⁾
- macOS 10.12.6+⁽³⁾
- Windows 10 Build 1709 or newer (64-bit edition)

Technical Notes

1. Product complies with USB 3.2 Gen 2 specification, which supercedes USB 3.1 Gen 2. Product package may still list USB 3.1 Gen 2.
2. Data transfer speeds can be limited by cable type (USB 3.1 Gen 2, USB 3.1 Gen 1/USB 3.0, or USB 2.0), as well as the speeds supported by the device itself.
3. macOS 10.12 erroneously reports a 5Gbps connection when connected at 10Gbps.
4. Must authorize charging support kernel extension in Security and Privacy System Preferences. (Unlock, then allow.)
5. Not compatible with Thunderbolt 1 PCIe Expansion systems.
6. Cards shipped before April 2020 use ASM 1142 controller.

Powerful USB 3.2 Gen 2 Performance

Add Four USB-A 10Gbps Ports to Mac Pro, Windows, and Linux Computers with PCIe Slots; and Thunderbolt to PCIe Card Expansion Systems

The fastest SSD-based USB 3.2 Gen 2 drives now available can transfer data at 800 MB/s—many are bus-powered, too. But, most desktop computers (including many new models) feature old-generation USB interfaces that can't support that performance, and may not provide enough power to enable those bus-powered drives to function. Break through the bottleneck—install Sonnet's Allegro Pro Type-A USB 3.2 PCIe⁽¹⁾ card in your Mac Pro® tower, Windows® PC, or Linux computer with PCIe slots; or Thunderbolt™ to PCIe card expansion system to support your fast USB drives at maximum performance.

Two Gen 2 Controllers, Four USB-A Ports

Featuring two 10Gbps USB 3.2 Gen 2 controllers and four USB-A ports, the Allegro PCIe card supports the fastest USB drives available, yet provides the most common connection type for peripheral devices.

The Speed and Power

Connected to a single USB 3.2 Gen 2 SSD RAID device, Sonnet's Allegro PCIe card supports data transfers up to 800 MB/s—transfers complete in half the time⁽²⁾ compared with using a USB 3.1 Gen 1 or USB 3.0 adapter card! Made possible through the use of dual controllers, with two connected drives, each port supports simultaneous 660 MB/s transfers. With four drives connected, each port supports simultaneous 300 MB/s transfers.

No Auxiliary Power Needed

Ordinary USB-A cards require the connection of a separate power connector. The Allegro draws the power it needs from the slot it's installed in to power connected drives, enabling you to install the card in any compatible computer or Thunderbolt expansion system that doesn't have these power connectors available.

Independent Power Regulation for Each Port

Ordinary USB-A cards can provide poor power regulation through their ports. The Allegro PCIe card protects each port from power glitches on adjacent ports—such as

when a hard drive spins up after connection—preventing auto-disconnects of already-connected drives.

Resettable Fuses

Unlike ordinary USB-A cards, the Allegro features a resettable fuse on each port to protect the card and your computer should a cable or peripheral fail. Resetting a tripped fuse is simple—just shut down and restart your computer.

Add USB 3.2 to Your Thunderbolt Mac

Got a Mac with a Thunderbolt connection, but no PCIe slot? The Allegro is ideal for use in Sonnet's Thunderbolt 2 and Thunderbolt 3 to PCIe card expansion systems, including Echo Express™ and xMac™ desktop and rackmount systems.

Perfect for the Extra Slot in Your Multi-Slot Thunderbolt System

Have a multi-slot Thunderbolt 2 or Thunderbolt 3 to PCIe card expansion system with an open slot? Installing an Allegro Pro Type-A USB 3.2 PCIe card is an excellent way to inexpensively add four SuperSpeed USB-A 10Gbs ports to your computer.

Easy Installation, Broad Device Support

The full-height Allegro PCIe card installs easily into any PCIe x4 (mechanical) or larger slot. The Sonnet card features hot-pluggable and hot-swappable device connection support with automatic device configuration, and works with all USB-IF compliant USB peripherals.

In the box:

- Allegro Pro USB 3.1 PCIe adapter card
- Documentation

