

# USB 3.0 + GIGABIT ETHERNET THUNDERBOLT™ ADAPTER

## Quick Start Guide

### You Should Have

The following items should be included in your product package:

- Sonnet USB 3.0 + Gigabit Ethernet Thunderbolt adapter

### System Requirements

The Sonnet USB 3.0 + Gigabit Ethernet Thunderbolt adapter requires the following in order to operate with your system:

- One available Thunderbolt 2 or Thunderbolt\* port
- OS X® 10.8.5 or later; or Windows® 8 or Windows 7
- Internet access (for driver download, Windows only)



**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 website for the latest documentation.

1. Go to [www.sonnettech.com/support/kb/kb.php](http://www.sonnettech.com/support/kb/kb.php)
2. Click the Thunderbolt Product link.
3. Click the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter link, and then click the Documentation link.
4. Click the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter Quick Start Guide [English] link, and then check the Document Version information. If the version listed is later than this document, click the Download Now button for the latest version.



## Configuration Steps—Mac Users

The following section includes information regarding the drivers that support the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter on a Mac computer, and basic network connection configuration steps. If you are using the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter with a Windows PC, skip to Installation/Configuration Steps—Windows Users on the next page.

### OS X Driver Information

The drivers that enable the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter to work with your computer are installed as part of OS X 10.8.5 and later; the Sonnet adapter is ready to use when you power on your computer.

### Network Configuration Steps

Listed below are the basic steps necessary to add the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter for use as one of your computer's network connections.

1. Plug in one end of an Ethernet cable to the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter adapter's Ethernet port. Connect the other end to an Ethernet port on your cable or DSL modem, or your network's router or switch.
2. If it is not already on, turn on your computer (and if necessary, any Thunderbolt devices connected between your computer and the Sonnet adapter).
3. Connect the Sonnet adapter to a Thunderbolt port on your computer or at the end of the Thunderbolt device chain; a window may appear stating a new network interface has been detected. Click the Network Preferences... button; System Preferences will open with Network preferences selected.
4. If it is not already open, open System Preferences, and then click the Network Preferences... button.
5. If it is not already selected, click on the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter in the left panel, and then configure the settings as necessary.
6. After you finish making changes to the settings, click the Apply button.
7. Close System Preferences; if you used existing settings, your installation is complete. For additional information on configuring settings, refer to Mac Help (Help > Mac Help from the Finder) and [www.info.apple.com](http://www.info.apple.com); type "network, Ethernet" to display various articles.

## Installation/Configuration Steps—Windows Users

The following sections cover installation steps for the software to support the Sonnet USB 3.0 + Gigabit Ethernet Thunderbolt adapter on a Windows computer, and basic network connection configuration steps. Note that you will only install a Gigabit Ethernet controller driver; the adapter uses a built-in Windows driver for USB 3.0 support. Follow the instructions in order!

### 1 – Connecting the Adapter to Your Computer For the First Time—Windows Users

Follow these steps the first time you connect the Sonnet adapter to your computer, otherwise it may not be recognized properly.

1. Turn off your computer.
2. Connect the USB 3.0 + Gigabit Ethernet Thunderbolt adapter to a Thunderbolt port on your computer.
3. Start up your computer. If your computer has 10Gbps Thunderbolt, skip to 2 – Driver Download/Installation Steps below. If your computer has 20Gbps Thunderbolt 2, switch to the desktop; a *New Thunderbolt Devices Attached* window will appear.
4. From the drop-down menu in the *New Thunderbolt Devices Attached* window, select Always Connect, and then click OK.

### 2 – Driver Download/Installation Steps

1. Start up your computer and log onto the Internet. Go to [www.sonnettech.com/support](http://www.sonnettech.com/support), and then click the Online Support Knowledgebase link.
2. Click the Thunderbolt Product link, and then click the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter link.
3. Click the USB 3.0 + Gigabit Ethernet Thunderbolt adapter Gigabit Ethernet Driver (Windows) link, and then click Download Now; a new window or tab will appear.
4. Locate and click the file download link for the software appropriate for the OS software running your computer (32 for 32-bit operating systems, x64 for 64-bit versions).
5. When the *Broadcom License Agreement* window appears, scroll to the bottom of the page and then click Accept.
6. When asked whether you want to open or save the file, click Save. When the message stating the download completed appears, click Open folder; a new window will appear.
7. When the win\_b57\_32 (or win\_b57\_x64) file folder opens, click Extract > Extract all.
8. When the *Extract Compressed (Zipped) Folders* window appears, accept the default extraction location or choose a new one, and then click Extract; the file will be extracted.

9. From the Start menu, right-click Computer and then select Manage; the *Computer Management* window will appear.
10. In the window's left panel, locate and click Device Manager. In the middle panel, locate and double-click the Ethernet Controller item listed in the "Other devices" category; an *Ethernet Controller Properties* window will appear.
11. Click the Update Driver button; an *Update Driver Software* window will appear.
12. Click "Browse my computer for driver", and then click Browse. Locate and select the win\_b57\_32 (or win\_b57\_x64) folder you downloaded, and then click OK.
13. Back in the *Update Driver Software* window, click Next; the driver is installed. When a message appears stating the software installation is complete, click Close; the adapter is ready for use. Skip to System Configuration Steps below for basic configuration information.

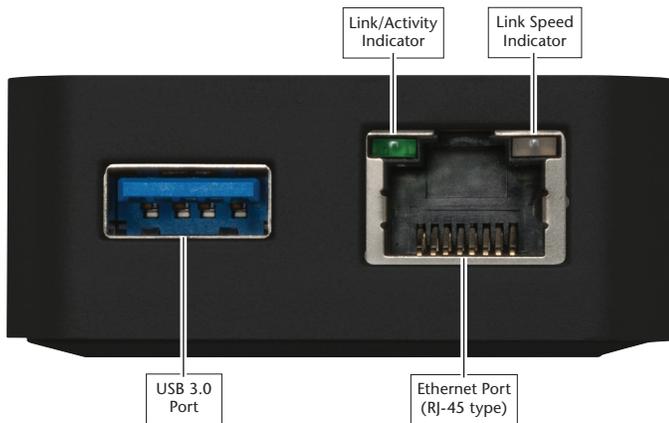
### 3 – System Configuration Steps

Listed below are the steps necessary to add the USB 3.0 + Gigabit Ethernet Thunderbolt adapter for use as one of your computer's network connections.

1. Plug in one end of an Ethernet cable to the USB 3.0 + Gigabit Ethernet Thunderbolt adapter's Ethernet port. Connect the other end to an Ethernet port on your cable or DSL modem, or your network's router or switch.
2. If it's not yet connected, plug in the USB 3.0 + Gigabit Ethernet Thunderbolt adapter to a Thunderbolt port on your computer.
3. With your computer turned on, depending on your setup, Windows may configure itself automatically to work with the USB 3.0 + Gigabit Ethernet Thunderbolt adapter. Launch a Web browser and browse a Website to verify.
4. If your system did not configure itself, access the Network and Sharing Center to make necessary changes.

## Product Description, Known Limitations and Advice

Listed below are pictures and descriptions of the Sonnet adapter's ports and indicators.



**USB 3.0 Port** – Plug in a standard USB 3.0 cable. The Sonnet adapter is also compatible with USB 2.0 cables. *However, when a USB 2.0 cable is used to connect a USB 3.0 device, its performance may be greatly reduced.*

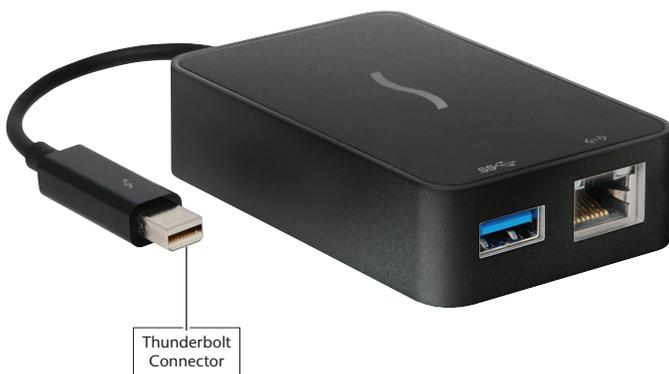
**Ethernet Port** – Plug in any Category 5 or 6 unshielded twisted pair (UTP) cable with RJ-45 connectors

**Link/Activity Indicator** – This green LED displays the link status.

- When the *LED is off*, there is *no link* between the adapter and the network.
- When the *LED is on*, a *link is established* between the Presto adapter and the network.
- When the *LED flashes*, there is *network activity*

**Link Speed Indicator** – This LED displays the established link speed.

- When the *LED is off*, the link speed is 10 Mb/s.
- When the *LED lights amber*, the link speed is 100 Mb/s.
- When the *LED lights green*, the link speed is 1 Gb/s.



**Thunderbolt Connector** – Plug this connector into one of your computer's Thunderbolt ports, or at the end of a Thunderbolt device chain.

## Known Limitations and Advice

- USB 3.0 devices require USB 3.0 cables to support USB 3.0 (SuperSpeed) transfer speeds (up to 5 Gb/s). Use of USB 2.0 cables between USB 3.0 devices and the USB 3.0 + Gigabit Ethernet Thunderbolt Adapter is supported, but data transfers are limited to USB 2.0 speeds (up to 480 Mb/s).
- 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 Website. Check the peripheral's user's manual for information about necessary software.
- Always "eject", "stop", "unplug", or "put away" any drive (hard drive, SSD, etc.) before disconnecting it from its cable or the Sonnet adapter.
- Always "eject" any memory card before removing it from the card reader, or disconnecting the card reader (with the card inserted in it) from its cable or the Sonnet adapter.
- 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 some peripherals may draw power directly from the Sonnet adapter, many devices require an external power source. Remember to use external power supplies when necessary.
- You may connect the Sonnet adapter to and disconnect it from your computer while your computer is on; be sure to follow the above advice regarding disconnecting connected USB devices.
- Operating system software updates may break compatibility. Specific device drivers that work under one version of OS X or Windows may not work under a later version. *Before updating to the latest OS*, we recommend that you contact Sonnet to verify that the existing drivers work. Note that in some cases, other software updates for the computer may also break compatibility.