SOLO10G® SFP+ V2 PCIe Card
Quick Start Guide

You Should Have

The following items should be included in your product package:

- Solo10G® SFP+ V2 PCIe Card
- Low-profile PCIe bracket
- Quick start guide

The following item may be required for installation:
- Medium Phillips screwdriver

Computer Compatibility

- Mac Pro 14,8 (2023) and 7,1 (2019
- PC desktop or server

OS Compatibility

- macOS 14.4+
- Windows 11; Server 2025,
- Linux Kernel 6.12 or 6.18+

Thunderbolt™ Compatibility

- PCIe card installed in a Thunderbolt expansion system with an available x8 or x16 PCIe slot
- Any Mac, Windows, or Linux computer with Thunderbolt ports

System Requirements

Solo10G SFP+ V2 PCIe Card requires the following to operate:
- One LC/LC fiber optic cable

Driver Information

The drivers that enable this Solo10G card to work with Mac and Windows computers must be downloaded from Sonnet's website; instructions follow.

Driver and Configuration Information—Linux

The drivers that enable the Solo10G card to work with Linux are installed as part of supported Linux Kernels, though a later version of the drivers may be available. Please go to https://www.sonnettech.com/support/kb/kb.php, navigate to and click the Solo10G SFP+ V2 PCIe Card link. Locate and click the Driver category link, and then locate, click, download, and install the appropriate drivers.

The steps necessary to configure the Sonnet card with your computer may vary based on the version of Linux running. Sonnet recommends using whatever method or tools you would normally use for configuring any onboard ports.

Support Note: We recommend you make a backup of important information on your system's current storage drive(s) prior to installing new hardware or software.

When handling computer products, take care to prevent components from being damaged by static electricity; avoid working in carpeted areas. Handle expansion cards only by their edges and avoid touching connector traces and component pins. Also, avoid touching components inside your computer.

Support Note: This document was up to date at the time of printing. Please heck the Sonnet website for the latest documentation.

1. Go to www.sonnettech.com/support/kb/kb.php
2. Navigate to and click the Solo10G SFP+ V2 PCIe Card link.
3. Click the Manual link.
4. Click the Solo10G SFP+ V2 PCIe Card Quick Start Guide [English] link, and then check the Document Version information. If the version listed is later than this document (**revision B**, click the Download Now button for the latest version.

PCI EXPRESS®

Mac For Windows

SONNETTECH™

Installation and Configuration Steps for Mac Users

WARNING: Do NOT install the Solo10G card into your computer until *after* you install the Sonnet drivers! Installing the card before the drivers allows an incorrect Apple driver to load, resulting in poor performance.

Driver Download and Installation Steps

This section describes the download and installation of the drivers required to support Solo10G SFP+ V2 PCIe Card with your Mac computer. Windows users should skip to the page 4.

1. Launch a web browser and go to https://www.sonnettech.com/support/kb/kb.php.

2. Navigate to and click the Solo10G SFP+ V2 PCIe Card link.

3. On the Solo10G SFP+ V2 PCIe Card page, click the Driver link, and then click the arrow next to macOS driver software to display important information. After reading the information, click the Download Now button; the software will be downloaded.

4. Double-click the .dmg you downloaded; the file will expand and a new window will open.

5. Double-click the SonnetEthernet-10GE.pkg file to launch the driver installer. Follow the on-screen instructions to install the software.

6. After you click Install Software, an alert will appear; click Open System Settings, NOT the highlighted OK button; this will open Privacy & Security (or Security & Privacy) in System Settings.



7. In the *Privacy & Security* window, find the statement that *System software from developer "Sonnet Technologies, Inc." has been updated*, and then click the Allow button next to it; another alert will appear.

8. In the Privacy & Security alert, enter your password and then click Modify Settings. Another alert will appear instructing you to restart your computer; click Restart to restart your system and finish the driver installation.

Card Installation Steps

1. Shut down your computer or Thunderbolt-to-PCIe card expansion system and disconnect it from its power source, 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 x8 (8-lane) or x16 (16-lane) PCI Express slot and remove its access cover.

3. Remove the Sonnet card from its packaging, and then install it into the card slot; **make sure the card is firmly seated and secured**.

4. Close your computer or expansion system, and then reconnect it to its power source. If the card is installed in an expansion system, also connect the Thunderbolt cable between the Thunderbolt ports on the system and computer.

5. Connect a cable between the transceiver in the Solo10G card and the transceiver on the switch or device.

6. Turn on your computer:

Basic Card Configuration Information

Configure the Solo10G card in the System Preferences Network preferences panel; it will be identified as a PCI Ethernet card.

Performance Tuning Steps

Listed below are steps required to configure the Solo10G card for maximum performance.

Support Note: In order to realize any performance increases, the network switches and server to which the Solo10G card is connected must all be configured to have jumbo frames enabled.

1. Open System Preferences, and then click Network. In the Network System Preferences panel, click the Solo10G card's ports in the left panel, and then click Advanced; a new panel appears.

2. In the Advanced panel, click Hardware. From the Configure drop-down menu, select "Manually". In the Speed drop-down menu, leave the setting at 10G... In the Duplex drop-down menu, select "full-duplex" (*not* "full duplex, flow-control"). In the MTU drop-down menu, select "Custom," and then enter "9000" in the box below.

3. When you've completed changing the settings, click OK.

4. Back in the main Network window, click Apply after you've completed changing the settings.

Installation and Basic Configuration Steps for Windows Users

The following section covers installation and configuration steps for the Solo10G card in a Windows computer or a Thunderbolt-to-PCIe card expansion system connected to a Windows PC.

Driver Download and Installation

This section describes the download and installation of the drivers required to support Solo10G SFP+ V2 PCIe Card installed in your Windows computer or Thunderbolt-to-PCIe card expansion system connected to a PC with Thunderbolt ports.

1. Launch a Web browser and go to www.sonnettech.com/support, and then click the Downloads, Manuals, & Knowledgebase link.
2. Navigate to and click the Solo10G SFP+ V2 PCIe Card link
3. On the Solo10G SFP+ V2 PCIe Card page, click the Driver link, and then click the arrow next to driver software for Windows link; a new window or tab will open.
4. On the *Intel® Ethernet Adapter Complete Driver Pack* page, locate and click the Download button; an *Intel Software License Agreement window* will open.
5. Read the license agreement, and then click the "I accept the terms in this license agreement" button; the software will download. Note that this .zip file a 'unified' driver pack that includes several dozen drivers within.
6. Extract the package you downloaded.
7. Navigate in your extracted files to \APPS\SETUP\SETUPBD and then to the Winx64 sub folder.
8. Inside the Winx64 folder, double-click SetupBD.exe, and then complete the steps in the installation wizard to install the drivers.
9. If you want to install the Intel PROSet advanced configuration utility, navigate to \APPS\PROSETDX and then to the Winx64 sub folder, and then to the Winx64 sub folder. If you don't want to install Intel PROSet, skip to Card Installation Steps. Otherwise, go to the next step.
10. Inside the Winx64 folder, double-click on DxSetup.exe, and then complete the steps in the installation wizard to install the drivers. Go to Card Installation Steps.

Card Installation Steps

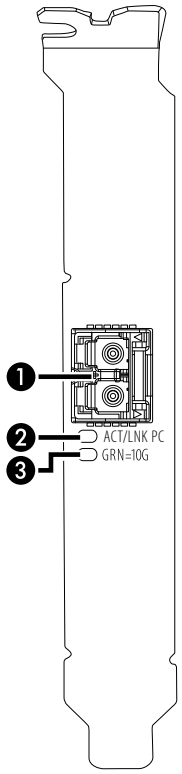
1. Shut down your computer or Thunderbolt-to-PCIe card expansion system and disconnect it from its power source, and then open it to access the expansion card area (PCIe slots); refer to the user's manual for specific information.
2. Locate an available x8 (8-lane) or x16 (16-lane) PCI Express slot and 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 your computer or expansion system, and then reconnect it to its power source. If the card is installed in an expansion system, also connect the Thunderbolt cable between the Thunderbolt ports on the system and computer.
5. Connect a cable between the transceivers in the Sonnet card and the switch or device.

Basic Card Configuration Information

You may configure the Solo10G card's settings using Windows Device Manager. You may locate the device's ports in the Network adapters category, listed as Intel x520 10 Gigabit network connection.

Solo10G SFP+ V2 PCIe Card Description

Ports and Indicators Information (Card Version 1)



1 – SFP+ Transceiver

Connect an LC/LC fiber optical cable this and a switch or storage device; make sure the transceiver is firmly seated and secured.

2 – ACT/LINK PC Indicator

This LED flashes green when there is activity between the Solo10G card and the switch or device, and remains off when there is no link.

3 – GRN=10G Indicator

When a link is established between the Solo10G card and the switch, this LED lights green to indicate the link to the switch is active, and remains off when there is no link.

Support Information

Contacting Customer Service

Before contacting Customer Service, please check the Sonnet Web site (www.sonnettech.com) for the latest updates and files. When you contact Customer Service, please have the following information available:

- Product name
- Date and place of purchase
- Computer model
- Operating system version
- Software/firmware versions
- A System Report (macOS) or a Microsoft System Information MSINFO32 (Windows) report (Windows), along with a description of the issue(s) you are encountering with your device

If further assistance is needed, please visit:
https://www.sonnettech.com/support/contact/support-form.html

Japan Customers
Contact Sonnet Customer Service Japan at:
E-mail: jp.support@sonnettech.com

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