

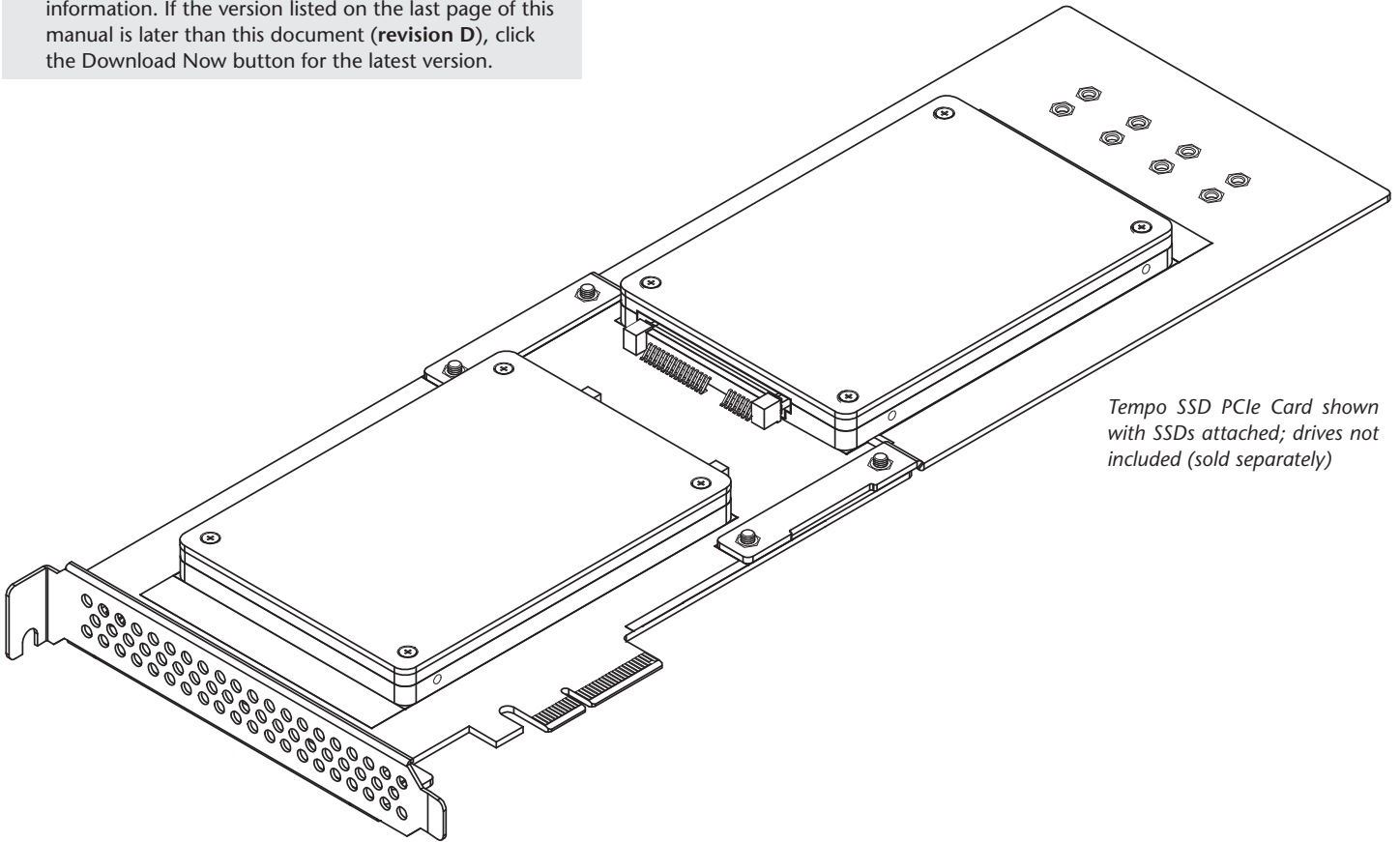
Quick Start Guide

for Tempo™ SSD PCIe® Card



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 <https://www.sonnettech.com/support/kb/kb.php>
2. Navigate to and click the Tempo SSD PCIe Card link.
3. Click the Manual link.
4. Click the Tempo SSD PCIe Card Quick Start Guide [English] link and then check the Document Version information. If the version listed on the last page of this manual is later than this document (**revision D**), click the Download Now button for the latest version.



Tempo SSD PCIe Card shown with SSDs attached; drives not included (sold separately)



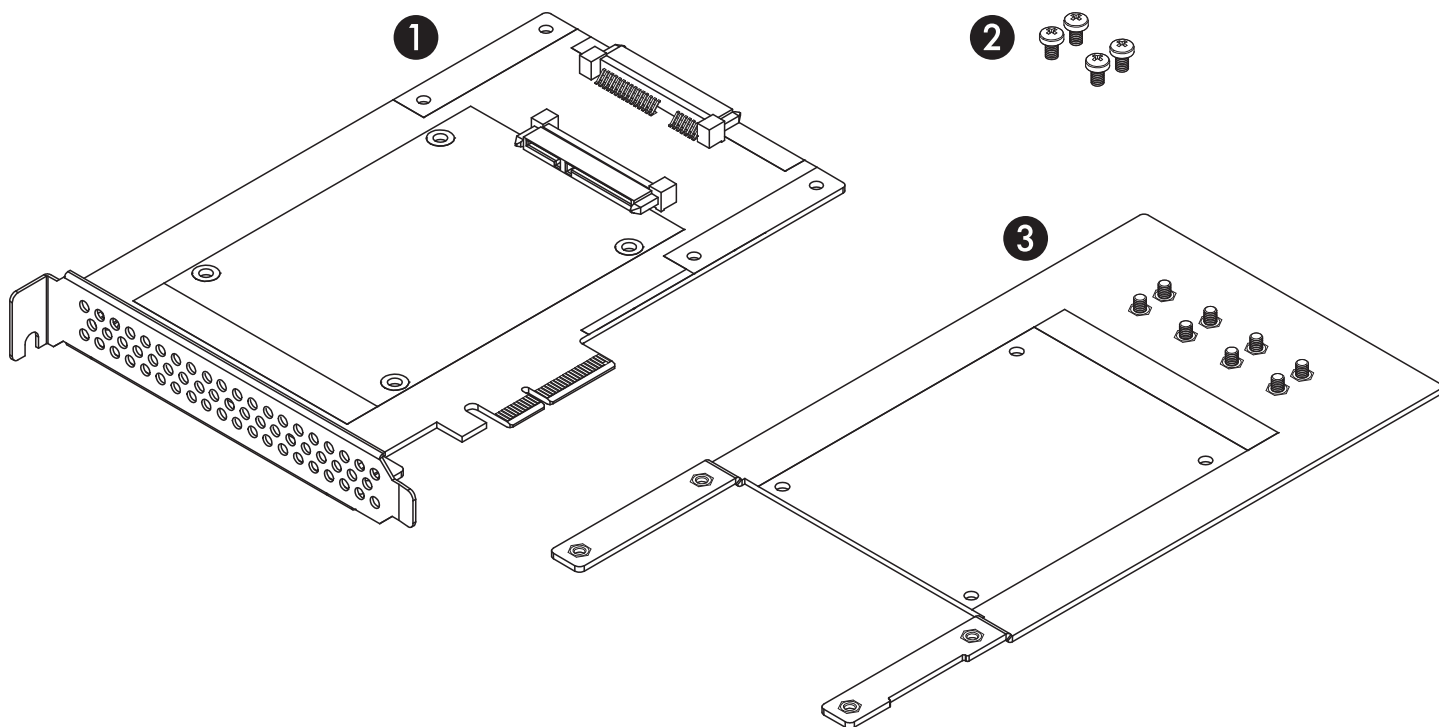
**For
Windows**



Introduction and Package Contents

Congratulations on your purchase! Tempo SSD PCIe Card provides a handy way to install one or two 2.5-inch SATA SSDs (or HDDs) into a PCIe slot. Its unique design enables it to be used in half-length card spaces (with a single drive) or full-length card space with two drives when you attach the included extension bracket.

macOS®/OS X®, Windows®, and Thunderbolt™ compatible, this card supports both operating systems' RAID features and works in Thunderbolt-to-PCIe card expansion chassis without additional drivers



1 – Tempo SSD PCIe Card

This half-length card supports one SSD on its own. Support for a second SSD requires the installation of the included extension plate.

2 – Drive Mount Screws

When you use a single SSD, this set of four screws secures your SSD to the Tempo SSD card. When you use two SSDs, this set of four screws secures the extension plate to the Tempo SSD card.

3 – Extension Plate and Mounting Screws

This plate must be attached to the Tempo SSD PCIe card when you install a second SSD. The plate extends the total length of the assembly to that of a full-length PCIe card to enable it to use a computer's or expansion chassis' card guide. Attach the plate to the card using the included package of four screws; attach both SSDs using the eight mounting screws attached to the plate.

Optional Card Preparation Steps

Installation Preparation

Prior to attaching SSDs to the Tempo SSD PCIe Card and installing the assembly, you should perform the steps below as necessary. Remove the Sonnet card from its packaging, handling the card by its edges and without touching any components or gold connector pins. Set the card down on a flat, level surface to perform the steps.

Extension Plate Installation Steps

If you intend to install a second SSD, you must first attach the extension plate to the Tempo SSD PCIe Card. Otherwise, skip to the next page.

1. Flip the Sonnet card component side down (**Figure 1**).
2. Line up the extension plate underneath the card as shown (**Figure 1**).
3. Using the included package of four screws, secure the extension plate to the card; do not overtighten the screws (**Figure 1**).
4. Skip to page 5, Dual SSD Installation Steps.

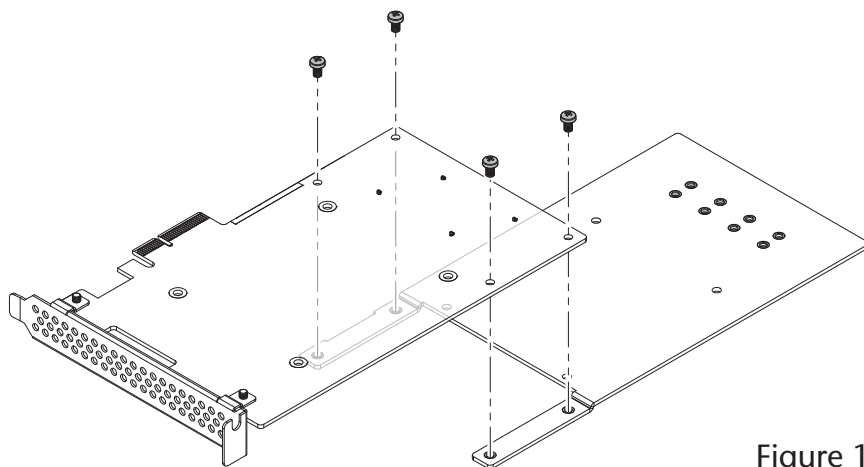


Figure 1

SSD Installation Steps

Single SSD Installation Steps

If you intend to install two SSDs, skip to the next page. Otherwise, perform the steps below.

1. If you haven't already done so, remove the Tempo SSD PCIe Card from its packaging, handling the card by its edges and without touching any components or gold connector pins. Set the card down on a flat, level surface (Figure 2).
2. Remove the SSD from its packaging.
3. Place the SSD label side up on top of the Sonnet card with the SSD's and card's connectors aligned with each other (Figure 2).
4. Push the SSD's connector into the card's connector until the SSD is completely seated (Figure 2).
5. Holding the SSD firmly against the card, flip the assembly over.
6. Using the included package of four screws, secure the SSD to the Sonnet card; do not overtighten the screws (Figure 3).
7. Skip to page 7, Tempo SSD PCIe Card Installation Steps.

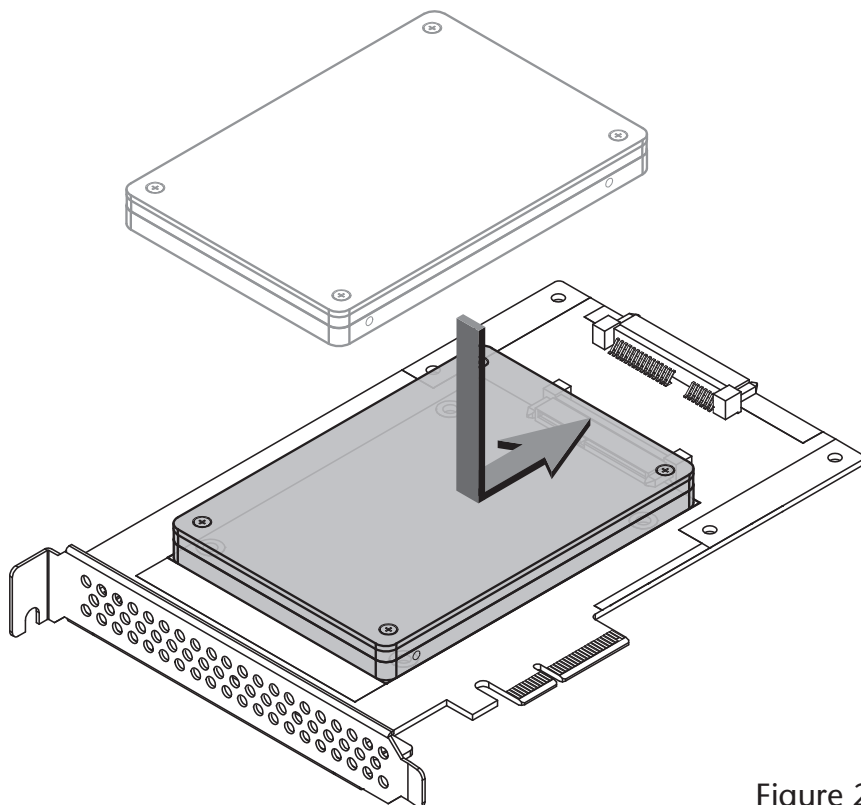


Figure 2

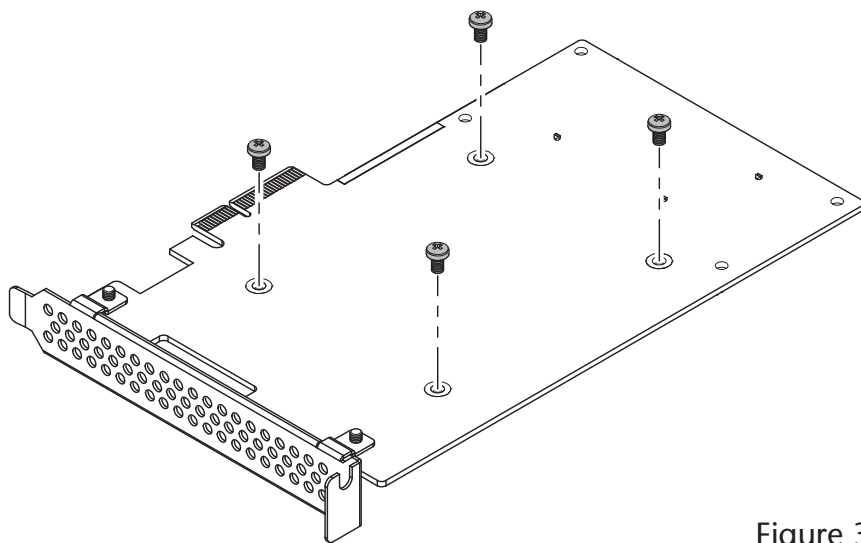


Figure 3

SSD Installation Steps

Dual SSD Installation Steps

1. Remove and set aside the eight screws secured to the extension plate (**Figure 4**).
2. Flip the card/plate assembly over, component side up.
3. Remove the SSDs from their packaging.

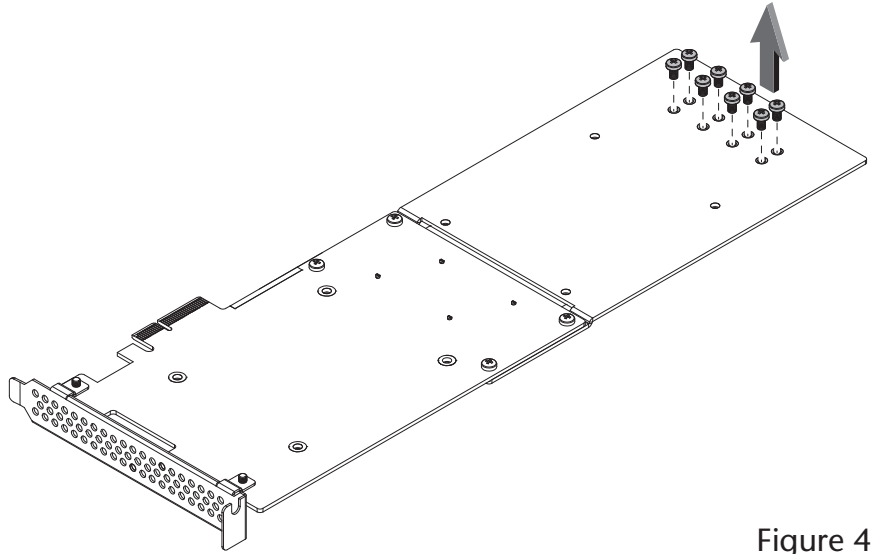


Figure 4

4. Place an SSD label side up on top of the Sonnet card with the SSD's and card's connectors aligned with each other (**Figure 5**).
5. Push the SSD's connector into the card's connector until the SSD is completely seated (**Figure 5**).
6. Holding the SSD firmly against the card, flip the assembly over again.

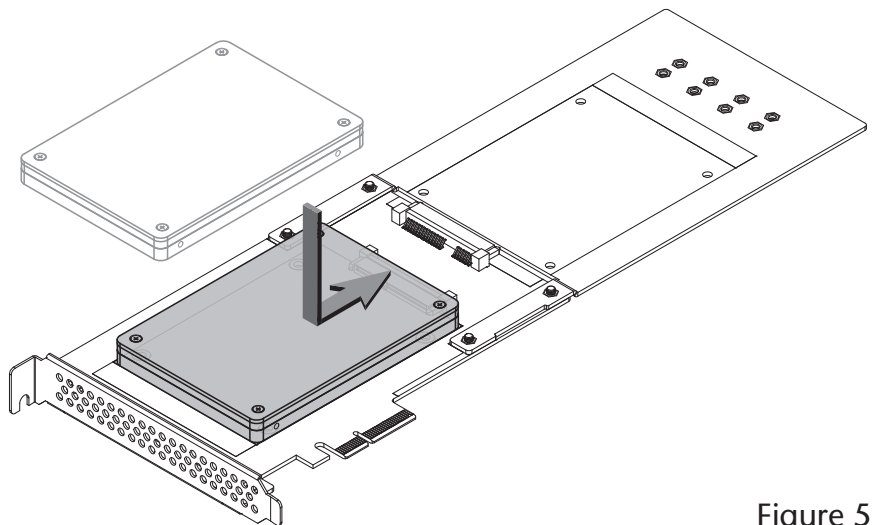


Figure 5

7. Using four of the eight screws you removed previously, secure the SSD to the card; do not overtighten the screws (**Figure 6**).

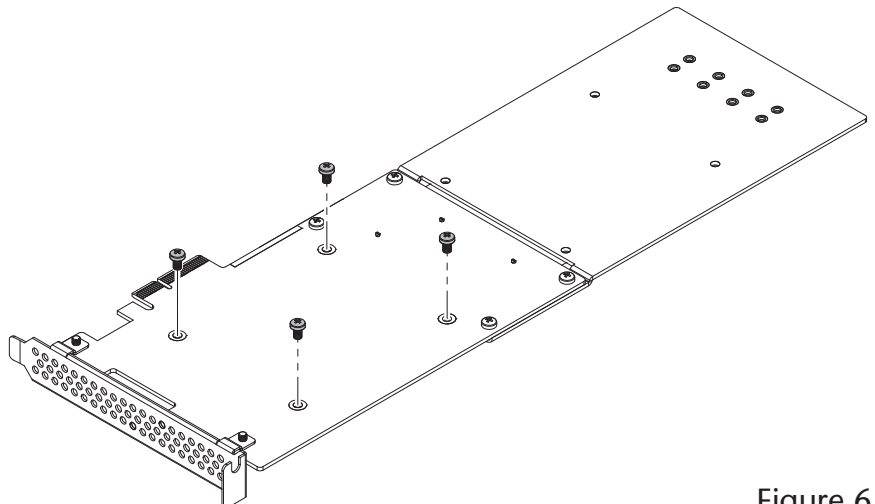


Figure 6

SSD Installation Steps

Dual SSD Installation Steps (continued)

8. Flip the card/plate assembly over again, and then place the second SSD label side up on top of the extension plate with the SSD's and card's connectors aligned with each other (Figure 7).
9. Push the SSD's connector into the card's connector until the SSD is completely seated (Figure 7).
10. Holding the SSD firmly against the plate, flip the assembly over again.

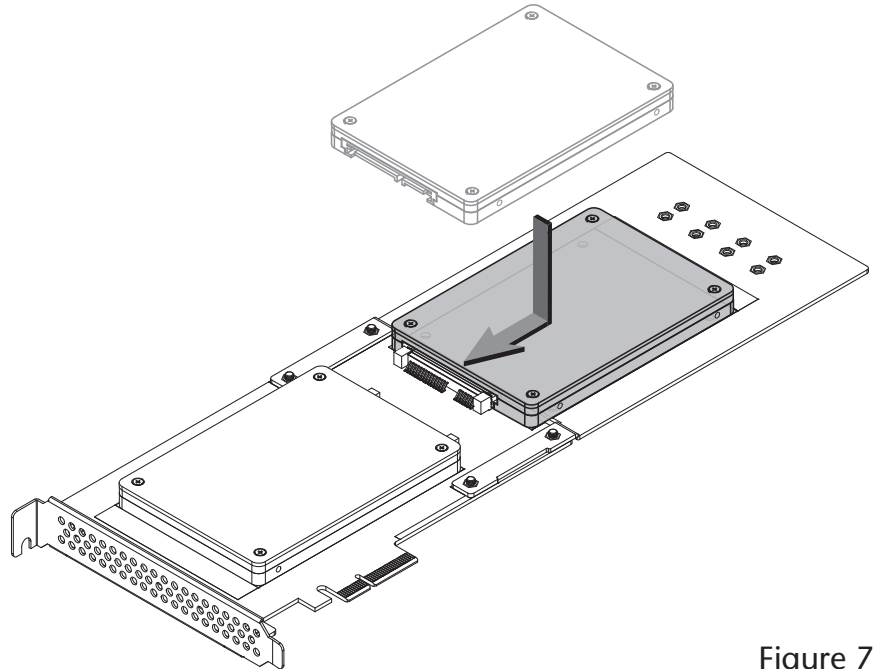


Figure 7

11. Using the remaining four screws you removed previously, secure the SSD to the extension plate; do not overtighten the screws (Figure 8).

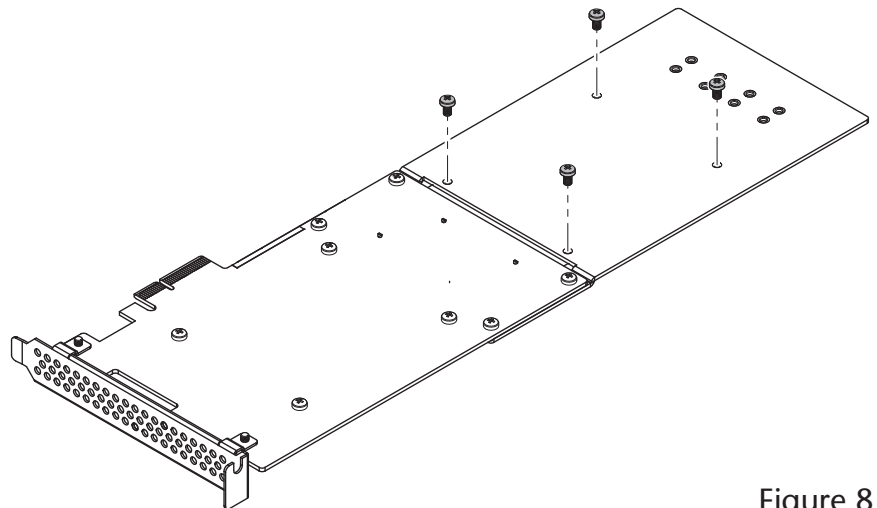


Figure 8

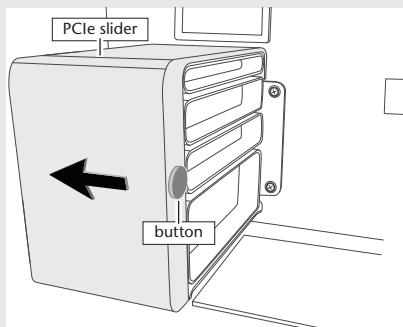
Tempo SSD PCIe Card Installation Steps

Card Installation Steps for All Users

1. Shut down your computer or expansion chassis, disconnect its power cable, and then open it to access the expansion card area (PCI Express slots); refer to the user manual for specific information
2. Locate an available PCI Express slot and remove its access cover if necessary. Thunderbolt-to-PCIe card expansion system users and Windows users skip to the next step; Mac Pro users:
 - Mac Pro (2019) Mac Pro (Mid 2012), Mac Pro (Mid 2010), Mac Pro (Early 2009) and pre-2008 Mac Pro users may install the card into any available slot; Mac Pro (Early 2008) users should use slot 2 when available for best performance, or slot 3 or 4 if necessary.



Support Note: If you have a Mac Pro 5,1 (Mid 2010 or 2012) computer, you will need to move what Apple refers to as the “PCIe slider” in order to install the Sonnet card. Simply press the indicated button and then move the slider to the left. After installing the card, move the slider back to the right.



3. Install the Tempo SSD PCIe Card with attached SSD(s) into the slot; **make sure the card is firmly seated and secured.**
4. Close your computer or expansion chassis, and then reconnect the computer's or expansion chassis' power cable and other cables if necessary.



Support Note for Pre-2008 Mac Pro Users: When you turn on your computer after installing the Tempo SSD PCIe Card depending on which version of Mac OS X your computer is running, the Expansion Slot Utility application will open automatically. If it does not open by itself, you must do so manually (Expansion Slot Utility is located in the /System/Library/CoreServices folder). Select the configuration appropriate for your setup (Tempo SSD PCIe Card is an x2 card, and should be assigned at least an x2 slot), and then click Quit if the default configuration was appropriate, or click Save and Restart if you changed the configuration.

Driver Information

macOS/OS X:

The drivers that enable the Tempo SSD PCIe Card to work in your computer are installed as part of the Mac operating system; the Tempo card is ready to use when you power on your computer.

Windows:

After starting up Windows, the drivers that enable the Tempo SSD PCIe Card to operate in your system are installed automatically. A *Found New Hardware* popup will appear. Then, information regarding the process of identifying the card, and searching for and installing the appropriate software will appear. Finally, the message “Your new hardware is installed and ready to use” will be displayed, and then the popup will disappear.

Formatting Drives

macOS/OS X:

Use Disk Utility (found in the Utilities folder within the Applications folder) to set up connected SSDs for use.

Windows:

If you intend to format drives connected to the Tempo card using Windows drive formatting tools (Disk Management), you may locate the information by using “format volume”, and “create striped volume” as search items in Windows Help.

Booting From Attached SSDs

macOS/OS X:

Tempo SSD supports booting OS X 10.6.8–macOS 10.12.6 from attached SSDs, including those configured as a RAID set, when installed in early 2008 and later Mac Pro computers and Thunderbolt-to-PCIe expansion chassis, as described below:

- All Tempo SSD PCIe cards support booting from attached SSDs when the card is installed in a Thunderbolt-to-PCIe expansion chassis.
- Installed in a Mac Pro (Early 2008 and newer models), revision B (serial number starts with B) and later cards support booting out of the box.
- Revision A cards may be updated to support booting when the card is installed in a Mac Pro (Early 2008 and newer models). You may obtain the software to update the card by visiting <https://www.sonnettech.com/support/kb/kb.php>, navigating to the Tempo SSD PCIe Card support page, and downloading the firmware updater.

Please note that in some cases it may be necessary for you to hold the *option* key during a start or restart, and then select the startup disk attached to the Tempo card.

Windows:

Tempo PCIe SSD Card supports booting from a single SSD when the card is installed in a PC running Windows 10, 8 or 7; booting from a software-created RAID volume is not supported.

Support Information

Contacting Customer Service

The Sonnet Web site located at www.sonnettech.com has the most current support information and technical updates. Before contacting Customer Service, please check our Web site for the latest updates and online support files, and check this Quick Start Guide for helpful information.

Email support requests generally receive the fastest responses, and are usually processed within a 24-hour period during normal business hours, excluding holidays. When you contact Customer Service, have the following information available so the customer service staff can better assist you:

- Product name
- SSD model(s)
- Computer model
- OS version
- 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 contact **Sonnet Customer Service** at:

E-mail: support@sonnettech.com

Tel: 1-949-472-2772

(Monday–Friday, 9 a.m.–5 p.m. Pacific Time, excluding holidays)

Japan Customers

Contact Sonnet Customer Service Japan at:

E-mail: jp.support@sonnettech.com

