

# TEMPO™ DUO EXPRESSCARD® |34

6Gb/s eSATA/SuperSpeed USB 3.0 Adapter for ExpressCard® Slot

## Quick Start Guide

### You Should Have

The following item should be included in your product package:

- One Tempo Duo ExpressCard/34 adapter
- One USB 2.0 power cable

### System Requirements

Tempo Duo ExpressCard/34 requires the following in order to operate in your system:

- ExpressCard/34 or ExpressCard/54 slot
- OS X® 10.8.5 or later, OS X Server 10.8.5 or later; Windows® 8, 7, Vista®, Server 2012, or Server 2008
- Internet access (for USB 3.0 driver download, Windows 7, Vista, and Server 2008 users, only)
- Free USB 2.0 port on computer to provide power to 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 [www.sonnettech.com/support/kb/kb.php](http://www.sonnettech.com/support/kb/kb.php)
2. Click the Computer Cards link
3. Click the ExpressCard/34 Cards link
4. Click the Tempo Duo ExpressCard/34 link, and then click the Documentation link.
5. Click the Tempo Duo ExpressCard/34 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.



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

Software updates and links are available from the Sonnet Website at [www.sonnettech.com](http://www.sonnettech.com). • Online support form available at <http://supportform.sonnettech.com>.

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### Preparation for Use

Prior to connecting any cables and inserting the Tempo card into your computer, familiarize yourself with the parts. We also recommend that you read the section in your computer's user manual that addresses ExpressCard use.

**Figure 1** shows the Tempo card's eSATA, USB 3.0, and power input ports. The supplied USB 2.0-to-micro USB 2.0 cable plugs into the power input port when you use a bus-powered USB drive.



Figure 1

### Using the Tempo Duo ExpressCard/34

In order for the Tempo Duo ExpressCard/34 to operate, you must connect the included USB 2.0-to-micro USB 2.0 adapter cable between the card and one of your computer's USB ports (**Figure 2**).



Figure 2

### Driver Information—OS X

The drivers that enable the Tempo Duo ExpressCard/34 card to work in your computer or Thunderbolt™ adapter are installed as part of OS X 10.8.5 and later; the Tempo card is ready to use when you power on your computer.

### Driver Information—Windows 8, Server 2012

After starting up Windows, insert the Tempo card (without any cables attached) into your computer; the drivers that enable the Tempo Duo ExpressCard/34 card to operate in your system are installed automatically.

### USB 3.0 Driver Download and Installation Steps—Windows 7, Vista, Server 2008

You must download and install drivers to support the Tempo Duo's USB 3.0 ports in computers running Windows 7, Vista, or Server 2008. Drivers that enable the Tempo Duo ExpressCard/34 card's eSATA ports to operate are installed automatically.

1. Insert the Tempo card into your computer and connect the USB cable between the card and computer. Turn on your computer and log in. During startup, a *Found New Hardware Wizard* window for a USB controller will appear; click Cancel.
2. Log onto the Internet, and go to <http://www.sonnettech.com/support/kb/kb.php>, click on the Computer Cards link, and then click on the ExpressCard/34 Cards link.
3. Locate and click the Tempo Duo ExpressCard/34 link, then click the Driver link, and then click the Tempo Duo ExpressCard/34 USB 3.0 Driver (Windows) link. Click the Download Now link; a new window or tab will open.
4. In the new window or tab, locate and click the download link for the latest driver for Fresco Logic FL-1000/1009 USB 3.0 Controllers. When asked whether to run or save the file, click Save. If prompted to select a location to save the file, select a new location to save the file or accept the default location, and then click Save.
5. When notified the download has completed, click Open Folder; a new window will open.
6. Double-click the *Fresco\_USB3...* file. When the *Open File – Security Warning* window appears, click Run.
7. When the next window appears, select a new location to save the files or accept the default location, and then click Extract.
8. In the location where the files were extracted, locate and double-click the Setup file; the driver installer will launch.
9. When the *Welcome to the Fresco Logic Host Controller Setup Wizard* window appears, click Next.
10. When the *Fresco Logic xHCI Driver License Terms* window appears, read the terms, and then click Yes.
11. When the *Select Installation Folder* window appears, click Next.
12. When the *Ready to Install* window appears, click Install. If you haven't disabled User Access Control (UAC) on your computer, another window will appear asking you to allow the program to run; click Yes (or Continue); the driver will be installed.
13. When the *Completing the Fresco Logic USB 3.0 Host Controller Setup Wizard* window appears, click Finish; the installation is complete and the card is ready to use.

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### Formatting Drives—OS X Users

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

### Formatting Drives—Windows Users

If you intend to format drives connected to the Tempo card using Windows drive formatting tools, you may locate the information by using “format volume” as a search term in Windows Help.

### Known Limitations and Advice

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

- 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 Tempo Duo ExpressCard/34 is supported, but data transfers are limited to USB 2.0 speeds (up to 480 Mb/s).
- Many USB 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.
- Connect eSATA and USB cables to the Tempo card before inserting the card into your computer. This will help to prevent the card from popping out accidentally; ExpressCard/34 is a push-to-eject design.
- OS X Users: Before removing the Tempo card from the computer, or disconnecting cables from the card or attached drives, eject any mounted drive or volume by dragging its icon to the Eject icon in the Dock, or clicking its Eject button in a Finder window; otherwise, data on the connected drives may be corrupted. Once all drives are unmounted, click the card's icon in the menu bar and select Power Off Card from the drop-down menu; the Tempo card may be pushed in to be ejected and removed.
- Windows Users: Before removing the Tempo card from the computer, or disconnecting cables from the Tempo card or attached drives, you must either shut down your computer, or move the cursor over the icons in the taskbar to locate the “Safely Remove Hardware” icon, click the icon, and then click the “Safely remove USB mass storage device” message; a “Safe to Remove Hardware” message appears. Click the “Safely Remove Hardware” icon again and then click the “Safely remove PCI standard PCI-to-PCI bridge” message; another “Safe to Remove Hardware” appears. Once the second “Safe to Remove Hardware” message appears, you may push in the Tempo card to remove it.
- 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 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.
- As of this writing, the MacBook Pro with Thunderbolt technology does not support hot-plugging the Tempo Duo ExpressCard/34; you must start the computer with the card inserted. This issue may be resolved with a future OS update.

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