Serial ATA 4-Channel PCI-M Quick Installation Guide

Introducing the *Serial ATA 4-Channel PCI-M*

The *Serial ATA 4-Channel PCI-M* is an ultra high-speed four channel Serial ATA controller. It achieves burst data transfer rates up to 150MB/s (1.5Gbps) and supports hard disk drives with capacities greater than 137GB.

Features and Benefits

- Compliant with Serial ATA Specification, rev. 1.0
- Compliant with PCI Specification, revision 2.3
- Provides four independent channels to support up to four Serial ATA hard disk drives
- Co-exists with on-board controller
- Can be used as the boot controller when a bootable hard disk drive is attached
- Supports 32-/64-bit wide PCI slot at 33MHz

System Requirements

- G3 (blue & white) or later with one available PCI slot
- Mac OS X v10.1.x or later

Package Contents

- *Serial ATA 4-Channel PCI-M* board
- 2 Serial ATA cables
- Serial ATA power cable (dual connector)
- "Y" split power cable
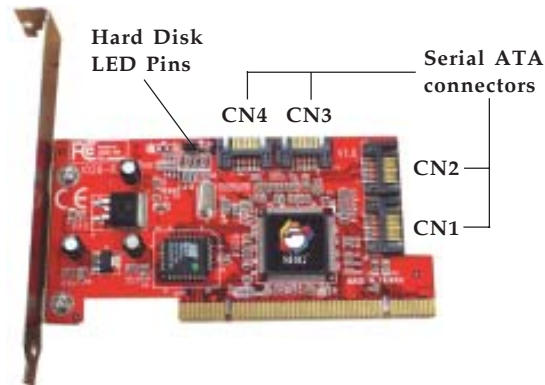- Software CD
- This quick installation guide

Layout

Hard Disk
LED Pins

Serial ATA
connectors

CN4   CN3

CN2

CN1

Figure 1. Serial ATA 4-Channel PCI-M

Hardware Installation

Static Electricity Discharge may permanently damage your system. Discharge any static electricity build up in your body by touching your computer's case for a few seconds. Avoid any contact with internal parts and handle cards only by their external edges.

1.   Turn OFF the power to your computer and any other connected peripheral devices. Unplug the computer's power cord.

2.   Open your computer's case and install the card in an available PCI slot.

3.   Push the board down firmly, but gently, until it is well seated.

4.   Secure the card with a slot bracket holding screw.

Now go to **Device Connection** to connect your Serial ATA hard disk drives.

Device Connection

The *Serial ATA 4-Channel PCI-M* is a four channel Serial ATA controller that supports up to four Serial ATA hard disk drives. If you plan to use more than two Serial ATA channels, you will need to purchase additional Serial ATA power and data cables.

1.   Install hard disk drive(s) in chassis.

> **Note**: Users with **Mac OS X (v10.1.x)** installed go to **Mac OS X (v10.1.x) Firmware Update** on page 4 before proceeding.

2.   Connect the hard disk drive to the system power supply using the *Serial ATA power cable*.

3.   Connect one end of the *Serial ATA cable* to the hard disk drive.
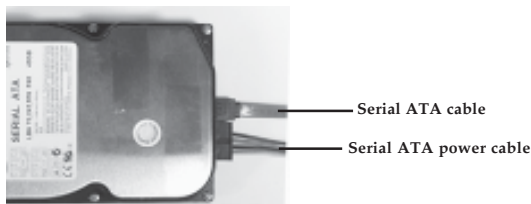

Figure 2. Hard disk drive connections

4.   Attach the other end of the *Serial ATA cable* to a Serial ATA connector on the *Serial ATA 4-Channel PCI-M*.

5.   Follow the same instructions when connecting each hard drive. Device connection is now complete.

6.   Close the computer's case then go to **Software Installation** to complete the installation.

Software Installation

Mac OS X (v10.2.x or later) drivers are built into the controllers's firmware, no additional driver installation or firmware update are needed. Go to **Mac OS X Installation** on page 5 to complete the installation.

In order for the *Serial ATA 4-Channel PCI-M* to work in **Mac OS X v10.1.x** the firmware must be updated using the utility on the driver CD. Go to **Mac OS X (10.1.x Firmware Update** below.

Mac OS X (v10.1.x) Firmware Update

Before installing the update please follow these guidelines:

- Make sure no drives are connected to the *Serial ATA 4-Channel PCI-M*
- This utility can only be used in Mac OS X v10.1.x
- Close all applications before updating the firmware
- You must have administrator privilages to install this update

1. Insert the included software CD. Double click the **Drivers** icon that appears on the desktop.

2. Copy **SIIG3114101UpDriveR1.sit** onto the desktop, then double click it.

3. Double click **SIIG3114101UpDriveR1 Folder** that appears on the desktop.

4. Launch the utility by double clicking the file **Update.command**.

5. Press **C** and the **Return** key to continue. Otherwise press **Q** and the **Return** key to quit.

6. Wait about 30 seconds, when finished press **Quit** then shutdown your system.

7.   Connect your hard drive(s), then restart the computer to activate the new firmware.

The firmware update is complete, continue to **Mac OS X Installation**, on page 5 to complete the installation.

Mac OS X Installation

For a fresh OS X installation:

Use this section when the *Serial ATA 4-Channel PCI-M* will be the boot controller and Mac OS X will be installed on a blank or new hard disk drive.

1.   Install the *Serial ATA 4-Channel PCI-M* and attached drives.
2.   Boot up your computer with the Mac OS X CD-ROM. Press and hold letter **C** on the keyboard while your system is booting from the CD-ROM.
3.   When Mac OS X finishes booting, click **Installer** in the menu bar.
4.   Click **Open Disk Utility**.
5.   Highlight the drive connected to the *Serial ATA 4-Channel PCI-M* and click **Partition**.

> **Important**: Partitioning the drive will erase all information on this hard disk drive.

6.   Click **Partition**, click **Partition** again to initialize the drive.
7.   Close **Disk Utility** when finished and continue with Mac OS X installation.

For systems that have OS X installed:

Use this section when Mac OS X is already installed and the *Serial ATA 4-Channel PCI-M* will be used as an add-on controller.

1. Install the *Serial ATA 4-Channel PCI-M* and attached drives. Boot up your system.
2. At the desktop double click **Mac OS X** drive icon.

> **Note**: If the drive shows up on the desktop properly, you can choose not to follow steps 3-8.

3. Double click **Applications** folder.
4. Double click **Utilities** folder.
5. Double click **Disk Utility** icon.
6. Highlight the drive connected to the *Serial ATA 4-Channel PCI-M* and click **Partition**.

> **Important**: Partitioning the drive will erase all information on this hard disk drive.

7. Click **Partition**, click **Partition** again to initialize the drive.
8. Close **Disk Utility** when finished. The new drive should appear as **Untitled** on the desktop.

Troubleshooting

Q. I am installing OS X on a new hard drive connected to the *PCI-M* using it as the boot controller. I have booted the computer using the Mac Installation CD-ROM. When the 1st CD is finished installing, the computer automatically restarts but will not boot from the hard drive connected to the *Serial ATA 4-Channel PCI-M*. What can I do to complete the installation?

A. When this occurs, power down the system by holding down the power button until it turns off. Wait a few seconds then power the system back on. The computer will recognize the *PCI-M* as the boot controller and continue with the installation.

Technical Support and Warranty

QUESTIONS? SIIG's **Online Support** has answers! Simply visit our website at *www.siig.com* and click on **Support**. Our online support database is updated daily with new drivers and solutions. Answers to your questions could be just a few clicks away. You can also submit questions online and one of our technical support analysts will promptly respond.

A lifetime manufacturer warranty supplied with this product is offered by SIIG, Inc. Please see SIIG website for more warranty details. If you should happen to encounter any problems with this product, please follow the procedures below.

If it is within the store's return policy period, please return the product to the store where you purchased from.

If your purchase has passed the store's return policy period, please follow these steps to have the product repaired or replaced.

Step 1: Submit your RMA request.

Go to **www.siig.com**, click **Support**, then **RMA** to submit a request to SIIG RMA. If the product is determined to be defective, an RMA number will be issued. SIIG RMA department can also be reached at (510)413-5333.

Step 2: After obtaining an RMA number, ship the product.

- Properly pack the product for shipping. All software, cable(s) and any other accessories that came with the original package must be included.

- Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.

- You are responsible for the cost of shipping the product to SIIG at the following address:

  SIIG, Inc.
  6078 Stewart Avenue
  Fremont, CA 94538
  RMA #: _____

- SIIG will ship the repaired or replaced product via Ground in the U.S. and International Economy outside of the U.S. at no cost to the customer.

About SIIG, Inc.

Founded in 1985, SIIG, Inc. is a leading computer upgrade manufacturer of I/O connectivity products, including PCI & ISA serial and parallel ports, USB, Serial ATA & UltraATA controllers, FireWire (1394a/b), Networking, Sound Cards, and other accessories. SIIG is the premier one-stop source of upgrades.

SIIG products offer comprehensive user manuals, many user-friendly features, and are backed by an extensive manufacturer warranty. High-quality control standards are evident by the overall ease of installation and compatibility of our products, as well as one of the lowest defective return rates in the industry. SIIG products can be found in computer retail stores, mail order catalogs, and e-commerce sites in the Americas and the UK, as well as through major distributors, system integrators, and VARs.