



Serial ATA PCI-M

Quick Installation Guide

Introducing the *Serial ATA PCI-M*

The *Serial ATA PCI-M* is an ultra high-speed dual channel Serial ATA controller for use in Mac computers. It achieves burst data transfer rates up to 150MB/s (1.5Gbps) and supports various brand of 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 two independent channels to support up to two Serial ATA drives
- Features independent 256-byte FIFOs per channel for host reads and writes
- Co-exists with on-board controller
- Can be used as the boot controller when a bootable hard disk drive is attached
- Supports 64/32-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 *

***Note:** Support for Mac OS X v10.1.x will be available at the end of June, 2004. At that time, check our website at **www.siig.com** for more details.

Package Contents

- (1) *Serial ATA PCI-M* board
- (1) Serial ATA cable
- (1) Serial ATA power cable
- This quick installation guide

Board Layout

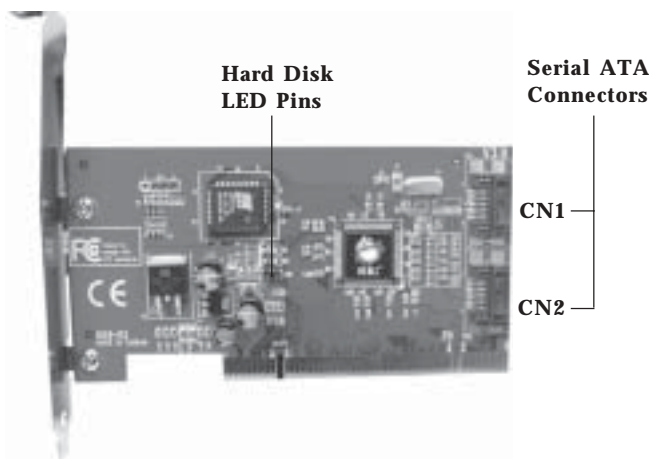


Figure 1. Serial ATA PCI-M Board Layout

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 PCI-M* is a dual channel Serial ATA controller that supports up to two Serial ATA hard disk drives. If you plan to use the second Serial ATA channel, you will need to purchase an additional Serial ATA power and data cable.

1. Install hard disk drive(s) in chassis.
2. Connect the Serial ATA 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.

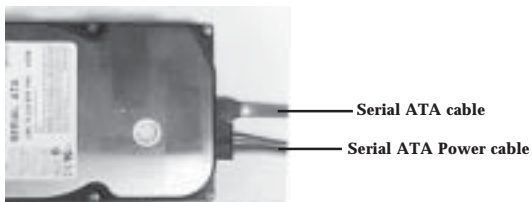


Figure 2. Hard disk drive connections

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

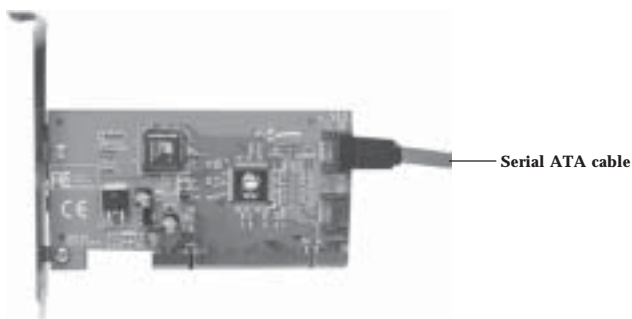


Figure 3. Connecting the Serial ATA cable

5. Follow the same instructions when connecting a second hard drive. Device connection is now complete.
6. Close the computer's case then go to **Software Installation** to complete the *Serial ATA PCI-M* installation.

Software Installation

The driver for the *Serial ATA PCI-M* is built into the controller's firmware, no additional driver installation is needed. This section provides information on how to initialize (partition) the hard disk drives.

OS X Installation

Important: Support for Mac OS X v10.1.x will be available at the end of June, 2004. At that time, check our website at **www.siig.com** for more details.

For a fresh OS X installation:

Use this section when the controller 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 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 PCI-M* and click **Partition**. Be aware that partitioning the drive will erase all information on the 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 controller will be used as an add-on controller.

1. Install the *Serial ATA PCI-M* and attached drives.
2. Boot up your system. When Mac OS finishes booting, double click **Mac OS X** drive icon on the desktop.

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

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 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

Important: Below are troubleshooting tips to help you when performing a fresh installation of Mac OS X v10.2 or later.

- Q1. 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 and started the installation. When the 1st CD is finished installing, the computer automatically restarts but will not boot from the hard drive connected to the PCI-M. It boots from either the Mac Installation CD-ROM or the existing hard drive connected to the onboard controller. What can I do to complete the installation?
- A1. 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

QUESTIONS? SIIG's **Online Support** has the answers! Simply visit our Web site at **www.siig.com** and click on **Support**. Our online support database is updated daily with new drivers and solutions. The answers to your problems could be just a few clicks away.

If you can't find answers or solutions to your questions, you have an option to submit the problems online to one of our technical support analysts and we will promptly respond to you with answers or solutions.

The 5-year manufacturer warranty supplied with this product is offered by SIIG, Inc. If you should happen to encounter any problems with this product, please follow the procedures below.

1. If it is within the store's return policy period, please return the product to the store where you purchased from.
2. If your purchase has passed the store's return policy period, please contact SIIG. See SIIG's Limited 5-year Warranty card for more information.

Online Store

SIIG offers all of our products online at our company store. Visit us at **<http://onlinestore.siig.com>** to find our complete line of products, including hard to find items and accessories (power adapters, cables, upgrade kits, etc.).

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 all products are backed by a 5-year 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 most 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.

PRODUCT NAME

Serial ATA PCI-M

FCC RULES: TESTED TO COMPLY WITH FCC PART 15, CLASS
B OPERATING ENVIRONMENT: FOR HOME OR OFFICE USE

FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE

SIIG, Inc.

6078 Stewart Ave.

Fremont, CA 94538-3152

Serial ATA PCI-M is a trademark of SIIG, Inc.

SIIG and SIIG logo are registered trademarks of SIIG, Inc. Mac and Mac OS are registered trademarks of Apple Computer, Inc. Other names used in publication are for identification only and may be trademarks of their respective companies.