

Serial ATA PCI Card

Quick Installation Guide

1. Introduction

The Serial ATA PCI Card is an ultra high-speed dual channel Serial ATA controller board for use in Pentium-class computers. It achieves burst data transfer rates up to 150MB/s (1.5Gb/s) and supports various brand of hard disk drives with capacities greater than 137GB.

1-1 Features and Benefits

- Compliant with Serial ATA 1.0 specification
- Compliant with PCI Specification, revision 2.2
- Two independent Serial ATA channels support up to two Serial ATA hard disk drives. (two internal ports or one internal/one external ports) *
- Co-exists with on-board Ultra ATA controller
- Features independent 256-byte FIFOs per channel for host reads and writes
- Features Watch Dog timer for fault resiliency
- Supports 32-bit wide PCI bus at 66Mhz
- Lower pin count and voltage requirement, plus better cabling over traditional Ultra ATA make Serial ATA the controller of the future

***Remark:**

1. If your board has 1 external and 2 internal Serial ATA ports, the external

port and the first internal (CN1) port share the same Serial ATA channel and cannot be used at the same time.

2. The Serial ATA data cable comes with the package is only for **internal channel**. Please **do not** apply it with external channel. If you need to connect it to external port, please refer to the external device's manual.

1-2 System Requirements

- Pentium or equivalent PC computer with one available PCI slot
- Windows 98SE/ME/NT4.0/2000/XP

1-3 Layout



Figure 1-1
Layout of Serial ATA PCI Card w/LED connector

Remark: The above information is for Serial ATA PCI Card w/LED support only. If your card doesn't have the (LED1) LED connector, please disregard this information.

2. Installation

2-1 Static Electricity Precaution

One of the routine precautions you must be aware of when working with computer components is the problem of static electricity discharge.

Caution: Static Electricity Discharge may permanently damage your system. To avoid possible static electricity discharge during the installation, please follow the guidelines below:

- Discharge any static electricity build up in your body by touching a large grounded metal surface or the computer case (if plugged in) for a few seconds.
- During the installation, avoid any contact with internal parts.

2-2 Hardware Installation

General instructions for installing the card are provided below, since the design of computer cases and motherboards vary. Refer to your computer's manual for further information, if needed.

1. Turn OFF the power to your computer and any other connected peripheral devices.
2. Unplug the power cord from the back of the computer.
3. Remove your computer's cover.
4. Remove the slot bracket from an available PCI slot.
5. To install the card, carefully align the card's bus connector with the selected PCI slot on the motherboard. Push the board down firmly, but gently, until it is well seated.

2-3 Software Installation

This section provides information on how to install the *Serial ATA PCI* driver for **Windows 98SE/ME/NT4.0/2000/XP**, new & existing

2-3.1 Windows 98SE Driver Installation

For New Windows 98SE Installation

1. Install the board, then boot up your system.
2. Follow Microsoft procedures to install Windows 98SE accordingly.
3. Once Windows has installed and booted, double click **My Computer/Control Panel/System**. Select **Device Manager** tab.
4. Double click **PCI Mass Storage Controller** listed under **Other Devices**.
5. Select **Driver** tab, then click **Update Driver** button.
6. Insert the driver diskette and click **Next**.
7. Select **Search for a better driver than the one your device is using now [Recommended]**, then click **Next**.
8. Select **Floppy disk drives**, uncheck the other boxes, then click **Next, Next**, then **Finish**.
9. Remove the driver diskette and click **Yes**, restart Windows to complete driver installation.

For Existing Windows 98SE Installation

1. Install the board, then boot up Windows 98SE.
2. While **Add New Hardware Wizard** displays, click **Next**.
3. Select **Search for the best driver for your device[Recommended]**, click **Next**.
4. Insert driver diskette into your floppy drive.
5. Select **Specify a location**, type in **A:** and click **Next**.

6. While **Silicon Image SiI3x12 SATA Link Controller** displays, click **Next, Finish**. Restart Windows to complete installation.

(If **Insert Disk** displays **SiI3x12.cat** can't be found, then click **Cancel, Skip File**.)

2-3.2 Windows ME Driver Installation

For New Windows ME Installation

1. Install the board, then boot up your system.
2. Follow Microsoft procedures to install Windows ME accordingly.
3. Once Windows has installed, double click **My Computer/Control Panel/System**, then select **Device Manager** tab.
4. Double click **PCI Mass Storage Controller** listed under **Other Devices**.
5. Select **Driver** tab and click **Update Driver** button.
6. Insert the driver diskette.
7. Select **Automatic search for a better driver [Recommended]**, click **Next**, then click **Finish**.
8. Remove the driver diskette and click **Yes** to restart Windows to complete the installation.

For Existing Windows ME Installation

1. Install the board, then boot up Windows ME.
2. While **Add New Hardware Wizard** displays **PCI Mass Storage Controller**, Select **Automatic search for a better driver [Recommended]**, insert the driver diskette, then click **Next**.

3. While **Add New Hardware Wizard** displays **Silicon Image SiI3x12 SATALink Controller**, click **Finish**.
4. Remove the driver diskette and click **Yes** to restart Windows to complete the installation.

2-3.3 Windows NT4.0 Driver Installation

For New Windows NT4.0 Installation

1. Install the board and follow Microsoft procedures to install Windows NT4.0 accordingly.
2. At the **Windows NT Setup** screen, press **F6** to specify and add the driver.
3. Press **S**, select **Other**, then press **Enter**.
4. Insert the driver diskette and press **Enter**.
5. Select **Silicon Image SiI3x12 SATALink Controller for Windows NT4.0 or 2000** and then press **Enter**.
6. Press **Enter** to continue and follow on-screen instructions to complete installation.

For Existing Windows NT4.0 Installation

1. Install the board, then boot up Windows NT4.0.
2. Select **My Computer/ Control Panel/ SCSI Adapters**, then click on the **Drivers** tab.
3. Click **Add...** then **Have Disk...**
4. Insert the driver diskette into your floppy drive, type in **A:**, then click **OK**.
5. Select **Silicon Image SiI3x12 SATALink Controller**, click **OK**, then click **OK** again.

6. Remove the driver diskette and restart Windows to complete the driver installation.

2-3.4 Windows 2000 Driver Installation

For New Windows 2000 Installation

1. Install the board, then boot up your system.
2. Execute the Windows 2000 installation program
3. Restart the computer when prompted by Windows installation
4. At the **Windows 2000 Setup** screen, promptly press **F6** to install the driver.
5. Press **S** to specify Additional device.
6. Insert the driver diskette and press **Enter**.
7. Select **Silicon Image SiI3x12 SATALink Controller for Windows NT4.0 or 2000** and then press **Enter**.
8. Press **Enter** to continue and follow the on screen instructions to complete Windows 2000 installation.

For Existing Windows 2000 Installation

1. Install the board, then boot up Windows 2000.
2. While **Mass Storage Controller** displays, select **Search for a suitable driver for my device [Recommended]**, then click **Next**.
3. Insert driver diskette into your floppy drive.
4. Select **Specify a location**, then click **Next**.
5. Type in **A:**, click **OK**, then click **Next**.
6. When **Silicon Image SiI3x12 SATALink Controller** appears, press **Yes**, then click **Finish**.
7. Remove the driver diskette to complete installation.

2-3.5 Windows XP Driver Installation

For New Windows XP Installation

1. Install the board and follow Microsoft procedures to install Windows XP accordingly.
2. Restart your system when prompted by Windows installation.
3. At the **Windows Setup** screen, press **F6** to install the driver.
4. Press **S** to specify the location of the driver.
5. Insert the driver diskette, then press **Enter**.
6. Select **Silicon Image SiI3x12 SATALink Controller for Windows XP** and then press **Enter**.
7. Press **Enter** to continue and follow on-screen instructions to complete Windows XP installation.

For Existing Windows XP Installation

1. Install the board, then boot up Windows XP.
2. Insert driver diskette into your floppy drive.
3. While **Mass Storage Controller** displays, select **Install the software automatically [Recommended]** and then click **Next..**
4. While **Hardware Installation** displays **Silicon Image SiI3x12 SATALink Controller**, click **Continue Anyway** and then click **Finish**.
5. Remove the driver diskette to complete installation.



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