

SATA II 2-channel PCI Controller

Quick Installation Guide

1. Introduction

The SATA II 2-channel PCI Controller series is an ultra high-speed dual channel Serial ATA 1.5Gbps controller for use in PCI-enabled system.

1-1 Features and Benefits

- Compliant with PCI plug-n-play 2.3
- Compliant with Serial ATA 1.0a specification with support for full complement of SATA II optional features
- Support Serial ATA II data transfer rate up to 150MB/s (1.5Gb/s)
- Support SATA II NCQ (Native Command Queuing) to maximize system performance
- Provides two independent SATA II channels support up to two SATA II hard disk drives
- Provides LED indication for device access per channel
- Can be used as the boot controller when a bootable device is attached

1-2 System Requirements

- PCI-enabled system with one available PCI slot
- Windows 98SE/NT4.0/ME/2000/XP/Server 2003

1-3 Board Layout

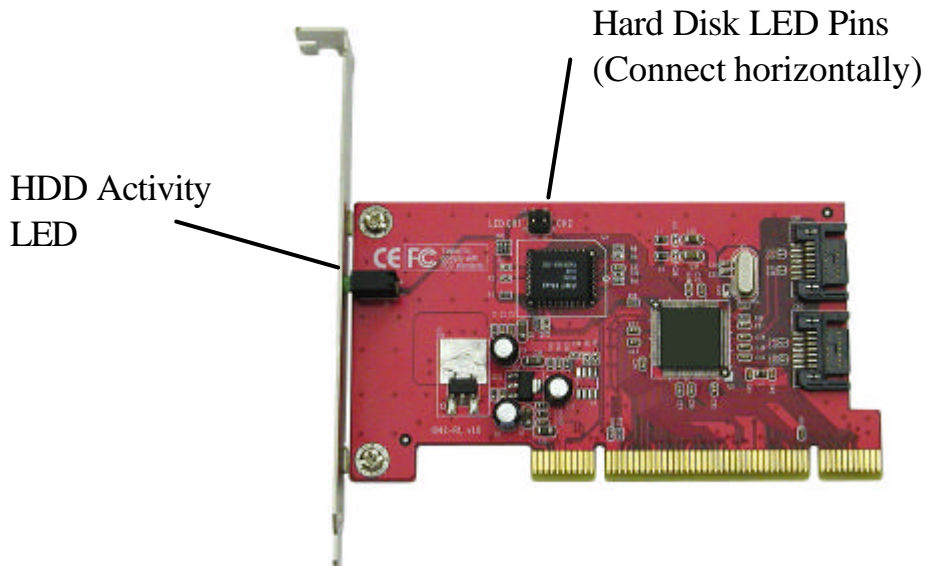


Figure 1. SATA II 2-channel PCI

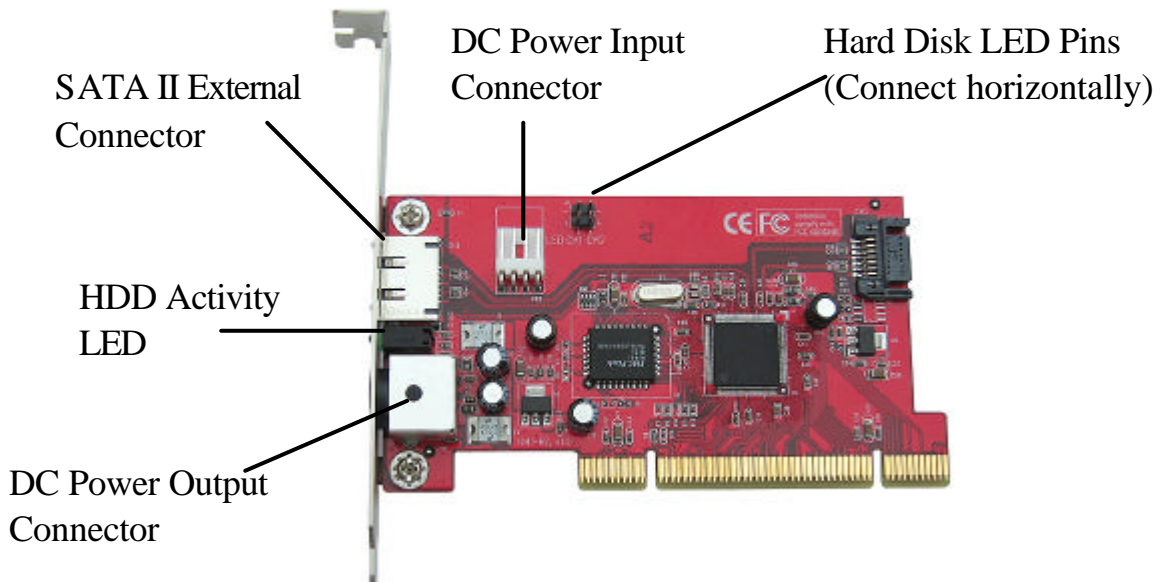


Figure 2. SATA II 1+1 channel PCI

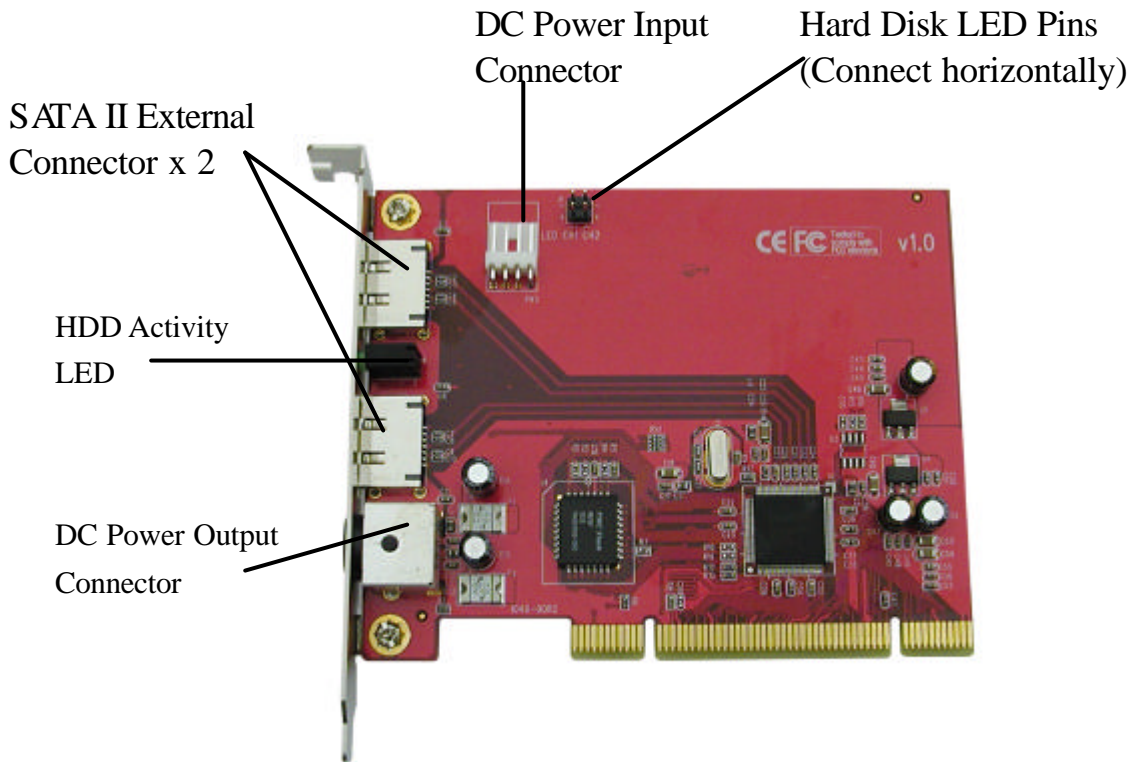


Figure 3. SATA II 2-ext.-channel PCI

Remark: This QIG is applied for the above 3 items.

Pin Assignment of DC Power Output Connector



- | | | | |
|-----------|--------|----------|--------|
| 1. DC 12V | 2. Gnd | 3. DC 5V | 4. Gnd |
|-----------|--------|----------|--------|

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

1. Turn OFF the power of 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.
6. Push the board down firmly, but gently, until it is well seated.
7. Replace the slot bracket holding screw to secure the board.
8. Connect the SATA data cable and SATA power cable to the SATA HDD.
9. Close the cover of your computer and plug the power back to your computer.

10. Restart the system and refer to the next section for Software Installation.

Remark: For the controller with external SATA II channel(s), please connect the 4-pin power connector from switching power supply to the “DC Input Power Connector” before replace the computer cover.

2-3 Driver Installation

2-3.1 Windows 98SE Driver Installation

For New Windows 98SE system

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 Card** listed under **Other Devices**.
5. Select **Driver** tab, then click **Update Driver** button.
6. Insert the driver CD into your CD-ROM drive, then click **Next**.
7. Select **Search for a better driver than the one your device is using now [Recommended]**, then click **Next**.
8. Select **Specify a location:** then type **E:\win9x**, then click **Next** then **Finish**. (Change “E”: to match your CD-ROM drive alphabet)
9. When **Initio INIC1620 S-ATA Adapter** appears, click **Next**, then click **Finish**.
10. Remove the driver CD and click **Yes**, restart Windows to complete the driver installation.

For Existing Windows 98SE system

1. After installing the board and boot up your system.
2. When **Add New Hardware Wizard** displays **PCI Card**, then click **Next**.
3. Insert the driver CD into your CD-ROM drive.
4. Check **Search for the best driver for your device (Recommended)**, then click **Next**.
5. Choose Specify a location, type **E:\win9x**, then click **Next**.
(Change “E”: to match your CD-ROM drive alphabet)
6. When **Initio INIC1620 S-ATA Adapter** displays, click **Next**, then click **Finish**.
7. Remove the driver CD while restart your system to complete the installation.

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 Card** listed under **Other Devices**.
5. Select **Driver** tab and click **Update Driver** button.
6. Insert the driver CD into your CD-ROM drive, then click **Next**.
7. Select **Automatic search for a better driver [Recommended]**, click **Next**,
8. Select **Initio INIC1620 S-ATA Adapter**, click **OK**, then click **Finish**.

9. Remove the driver CD and click **Yes**, restart Windows to complete the installation.

For Existing Windows ME installation

1. After installing the board and boot up your system.
2. When **Add New Hardware Wizard** displays **PCI Card**, check **Automatic search for a better driver (Recommended)**.
3. Insert driver CD into your CD-ROM drive then click **Next**.
4. Select **Initio INIC1620 S-ATA Adapter**, then click **OK**.
5. Click **Finish**, remove the driver CD while restart your system to complete the installation.

2-3.3 Windows NT4.0 Driver Installation

For New Windows NT4.0 installation

A new installation of Windows NT4.0 requires a floppy disk for the driver installation. To make this floppy disk, copy the contents of the **Floppy** folder, found on the driver CD, onto a blank floppy disk then follow the directions below.

1. Install the board then boot up your system.
2. Follow Microsoft Procedures to install Windows NT4.0 accordingly.
3. At the **Windows NT Setup** screen, press **F6** to specify and add the driver.
4. Press **S**, select **Other**, then press **Enter**.
5. Insert the driver diskette and press **Enter**.
6. Select **Initio INIC1620 S-ATA Adapter For Windows NT4.0** in the box, press **Enter**.
7. Press **Enter** to continue and follow on-screen instructions to complete Windows NT4.0 installation.

For Existing Windows NT4.0 System

1. Install the board, then boot up you system.
2. Double click **My Computer/ Control Panel/ SCSI Adapters**, then click on the **Drivers** tab.
3. Click **Add...** then **Have Disk...**
4. Insert the driver CD into your CD-ROM drive, type in **E:\winnt**, then click **OK**. (Change “E”: to match your CD-ROM drive alphabet)
5. Select **Initio INIC1620 S-ATA Adapter**, then click **OK**.
6. Click **Yes** and remove the driver CD while restart your system to complete the installation.

2-3.4 Windows 2000 Driver Installation

For New Windows 2000 installation

A new installation of Windows 2000 requires a floppy disk for the driver installation. To make this floppy disk, copy the contents of the **Floppy** folder, found on the driver CD, onto a blank floppy disk then follow the directions below.

1. Install the board and boot up you system.
2. Follow Microsoft procedures to install Windows 2000 accordingly.
3. At the **Windows 2000 Setup** screen promptly press **F6** to install the driver.
4. Press **S** to specify Additional device.
5. Insert the driver diskette and press **Enter**.
6. Select **Initio INIC1620 S-ATA Adapter For Windows 2000** in the box, press **Enter**.
7. Press **Enter** to continue and follow the on screen instructions to complete Windows 2000 installation.

For Existing Windows 2000 installation

1. After installing the board, boots up your system.
2. When **Found New Hardware Wizard** displays, click **Next**.
3. Insert driver CD into your CD-ROM drive.
4. When **Found New Hardware Wizard** displays **PCI Device**, check **Search for a suitable driver for my device [recommended]**, then click **Next**.
5. Select **CD-ROM drives**, then click **Next, Next**.
6. When **Initio INIC1620 S-ATA Adapter**, then click **Yes**, then **Finish**.
7. Remove the driver CD then click **Yes** to restart your system and complete the installation.

2-3.5 Windows XP/2003 Driver Installation

For New Windows XP/2003 installation

A new installation of Windows XP/2003 requires a floppy disk for the driver installation. To make this floppy disk, copy the contents of the **Floppy** folder, found on the driver CD, onto a blank floppy disk then follow the directions below.

1. Install the board and boot up you system.
2. Follow Microsoft procedures to install Windows XP/2003 accordingly.
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 **Initio INIC1620 S-ATA Adapter For Windows XP/2003** in the box, press **Enter**.

7. Press **Enter** to continue and follow on-screen instructions to complete Windows XP/2003 installation.

For Existing Windows XP/2003 installation

1. After installing the board, boots up your system.
2. When **Found New Hardware Wizard** displays **PCI Device**, check **Install the software automatically [Recommended]**.
3. Insert driver CD into your CD-ROM drive, then click **Next**.
4. When **Found New Hardware Wizard** displays **Initio INIC1620 S-ATA Adapter**, click **Next**.
5. When **Hardware Installation** displays **Initio INIC1620 S-ATA Adapter**, click **Continue Anyway**, click **Finish**.
6. When **Found New Hardware Wizard** displays **Initio Raid Interface**, check **Install the software automatically [Recommended]**, then click **Next, Next**.
7. Remove the driver CD while restart your system and complete the installation.

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