

SATA II 2-channel PCIe Controller

Quick Installation Guide

1. Introduction

The SATA II 2-channel PCIe is an ultra high-speed dual channel Serial ATA Generation 2 controller for use in PCI Express-enabled system.

1-1 Features and Benefits

- Compliant with PCI Express Base Specification 1.0a
- Compliant with Serial ATA 1.0a specification with support for full complement of SATA II optional features
- PCI Express 1-lane (x1) SATA II adapter works with PCI Express slots with different lane width
- Support Serial ATA II data transfer rate up to 300MB/s (3.0Gb/s)
- Support Native Command Queuing (NCQ), Non-zero offsets NCQ and Out-of-order data delivery NCQ
- 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 Express-enabled system with one available PCI Express slot
- Windows 2000/XP/Server 2003

1-3 Board Layout

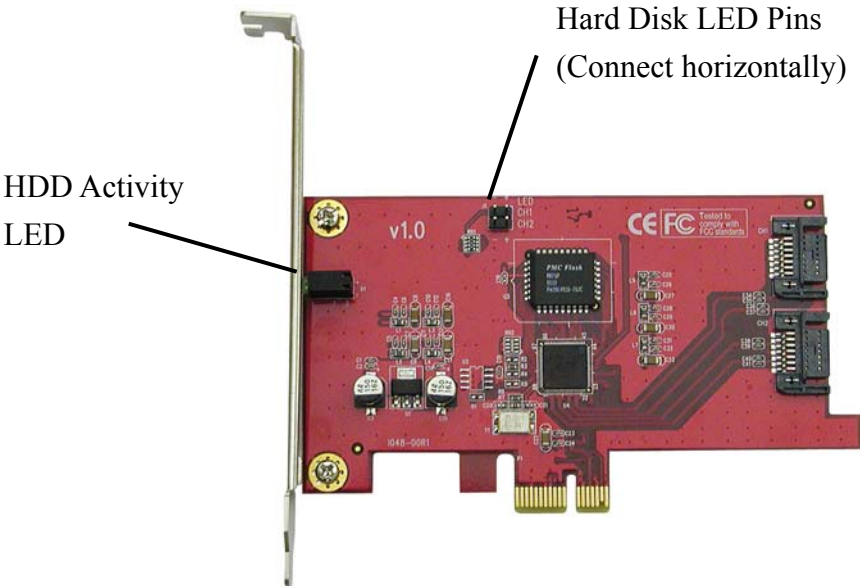


Figure 1. SATA II 2-channel PCIe

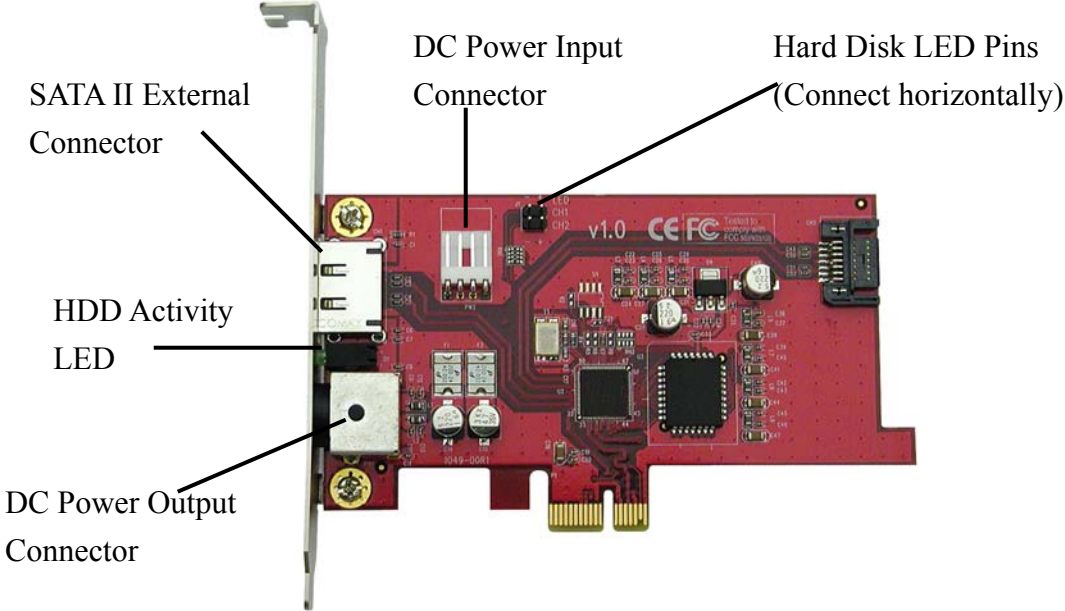


Figure 2. SATA II 1+1 channel PCIe

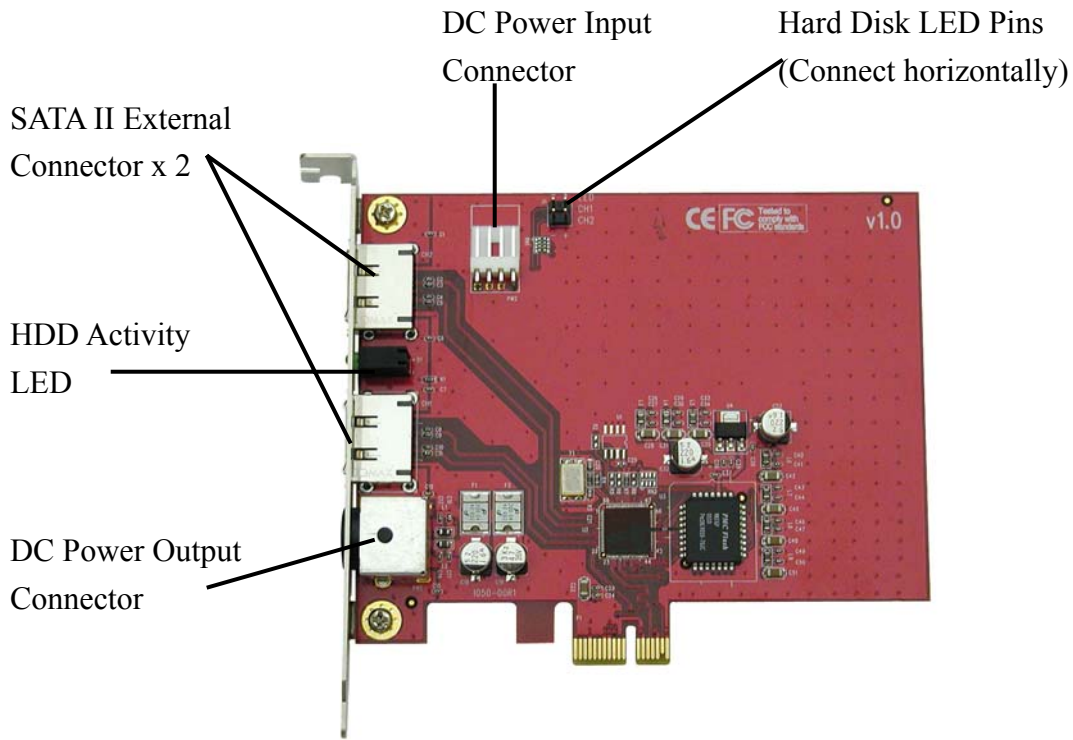
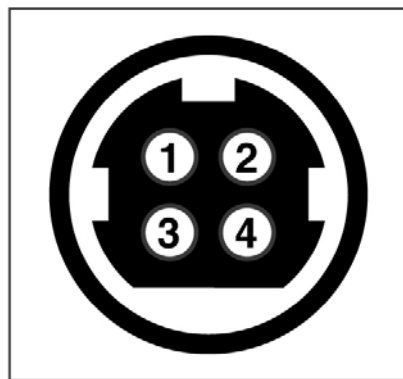


Figure 3. SATA II 2-ext.-channel PCIe

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

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 Express slot.
5. To install the card, carefully align the card's bus connector with the selected PCI Express 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 to the rear slot panel.

8. Connect the SATA data cable and SATA power cable to the SATA HDD.
9. Replace the computer cover and reconnect the power cord.
10. Restart the system and refer to the next section for Software Installation.

2-3 Software Installation

2-3.1 Windows 2000 Driver Installation

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

For New Windows 2000 installation

1. After installing the board, boots 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 Sil 3132 SATALink Controller for Windows 2000** displays in the box, press **Enter**.
8. 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. Check **Search for a suitable driver for my device (recommended)**, click **Next**.
4. Insert the driver CD, check **CD-ROM drives**, uncheck the other check boxes and click **Next**.
5. When **Silicon Image Sil 3132 SATA Link Controller** displays, click **Finish**, remove the driver CD, restart Windows and complete driver installation.

2-3.2 Windows XP/Server 2003 Driver Installation

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

For New Windows XP/Server 2003 installation

1. After installing the board, boots up your system.
2. Follow Microsoft's Windows installation procedure.
3. Restart your system when prompted by Windows installation.
4. At the **Windows Setup** screen, press **F6** to install the driver.
5. Insert the driver diskette, press **S**, then press **Enter**.
6. Select **Silicon Image Sil 3132 SATA Link Controller for Windows XP/Server 2003**, then press **Enter**.
7. Press **Enter** to continue and follow on-screen instructions to complete the driver installation.

For Existing Windows XP/Server 2003 installation

1. After installing the board, boots up your system.
2. When **Found New Hardware Wizard** displays **Mass Storage Controller**, insert the driver CD and check **Install the software automatically (Recommended)**, then click **Next**.
3. When **Hardware Installation** displays **Silicon Image Sil 3132 SATALink Controller**, click **Next**, then **Finish**.
4. Restart Windows to complete the driver installation.

To Verify Windows 2000/XP/Server 2003 Installation

1. Right click **My Computer** and click **Manage**.
2. Select **Device manager**.
3. Double click **SCSI and RAID Controllers**, then double click **Silicon Image Sil3132... Controller** to display driver properties.
4. A message *This device is working properly* is displayed in the dialog box, the driver has been correctly installed.

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