

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 1.0a and Serial ATA 1.0a specification
- 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

1-2 System Requirements

- PCI Express-enabled system with one available PCI Express slot
 - Windows 2000/XP/Server 2003/Vista
- Apple Mac Pro or Power Mac G5 (with PCI Express slot) with one available PCI Express slot
 - Mac OS X 10.4.6 or later

1-3 Board Layout

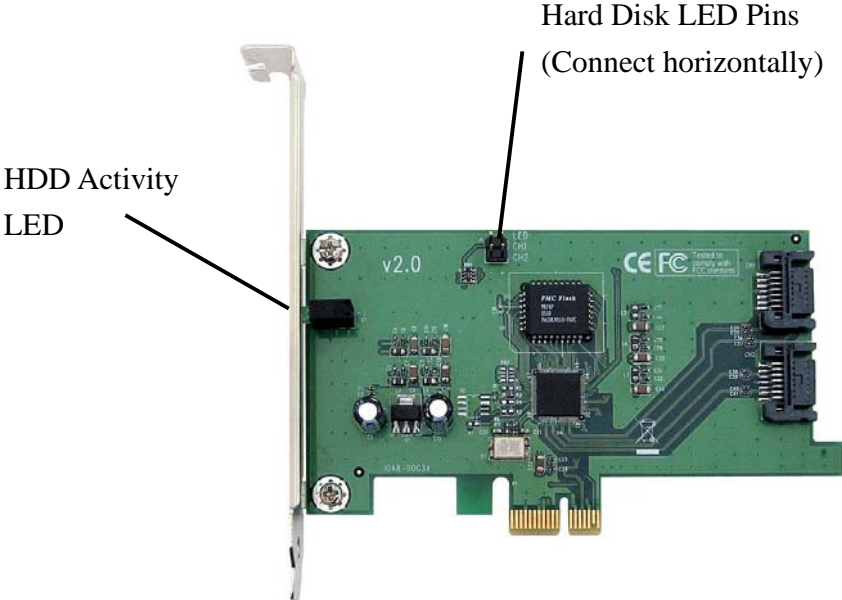


Figure 1. SATA II 2-channel PCIe

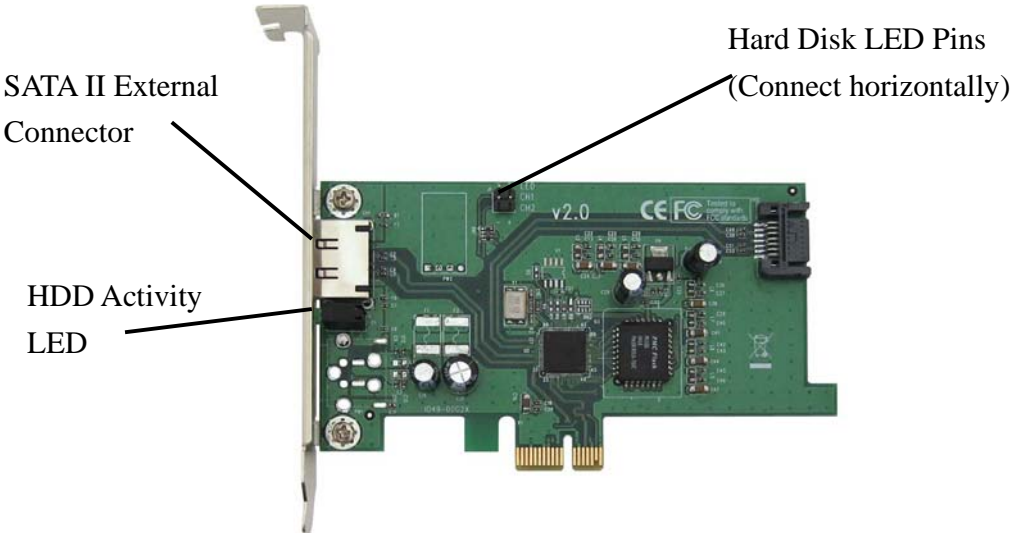


Figure 2. eSATA II 1+1 channel PCIe

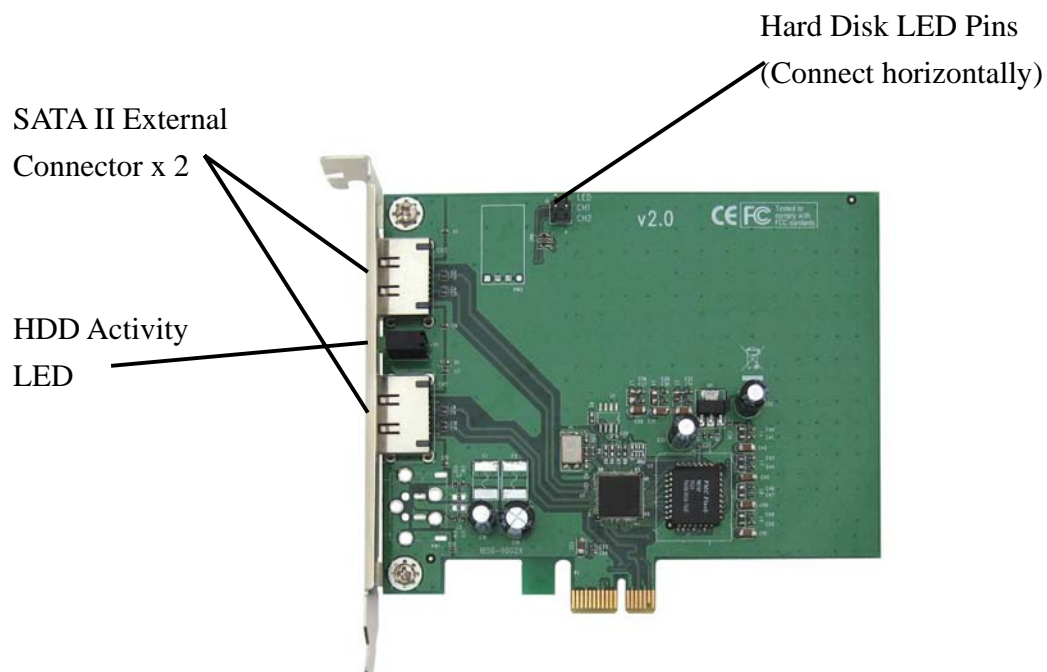


Figure 3. eSATA II 2-ext.-channel PCIe

Remark:

- 1. This QIG is applied for the above 3 items.**
- 2. Only item 3 is recommended to apply in the Apple Mac desktop system.**
- 3. Blue LED light will blink per channel when SATA devices have been accessed.**
- 4. The above images may vary from the actual product.**

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**, then click **Next** again.
5. When **Silicon Image Sil 3132 SATALink Controller** displays, click **Finish**.
6. Remove the driver CD, click **Yes** to 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 SATALink 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,
XP (w/SP1 or earlier)/Server 2003: continue to step #4.
XP (w/SP2 or later)/Server 2003 (w/SP1 or later):
select **No, not at this time**, then click **Next**. Continue to step #4.
3. When **Found New Hardware Wizard** displays **Mass Storage Controller**, insert the driver CD and check **Install the software automatically (Recommended)**, then click **Next**.
4. When **Hardware Installation** displays **Silicon Image Sil 3132 SATALink Controller**, click **Next**, then **Finish**.
5. Remove the driver CD, click **Yes** to complete 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 SATALink 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.

2-3.3 Windows Vista 32bit Driver Installation

For New Windows Vista 32bit system installation

1. After installing the board, boots up your system.
2. Execute the Windows Vista installation program.
3. Restart the computer when prompted by Windows installation.

4. When **Windows Boot Manager** appears, choose **Windows Setup [EMS Enabled]**, then click **Enter** to install the Windows Vista System.
5. Enter your language and other preferences and click **Next** to continue, then **click install now** icon.
6. Type the product key for activation, then click **Next**.
7. Check the **I accept the license** terms, click **Next**, then click **Custom (advanced)** icon.
8. Insert the driver CD to your CD-ROM drive, click **Load Driver**.
9. Click **Browse** to select the driver location from driver CD, click **OK**.
10. Choose **Silicon Image Sil3132 SATA Link Controller (X:\Windows\...)** then click **Next**.
11. Remove the driver CD, change to Windows Vista System CD.
12. Choose the **Disk drive** match you want to install windows device, then click **Next**.
13. Follow on-screen instructions to complete the driver installation.

For Existing Windows Vista 32bit system installation

1. After installing the board, boots up your system.
2. When **Found New Hardware** appears, insert the driver CD to your CD-ROM drive, click **Locate and install driver software (recommended)**.
3. When **User Account Control** displays, click **Continue**.
4. Click **Yes, always search online (recommended)**, click **Next**.
5. When **Silicom Image Sil3132 SATA Link Controller** displays, click **Close** to complete the driver installation.

2-3.4 MAC OS X Driver Installation

1. After installing the board, boots up your system.
2. Insert the driver CD.
3. Double click the **Drivers** CD icon on the desktop.
4. Double click MAC Folder, then double click SiI3132_1.1.6u_SiI_Pkg.Zip.
5. Double click SiI3132_1.1.6u_SiI_Pkg on the desktop.
6. Click **Continue, Continue, Continue**, then click **Agree**.
7. When prompted to select the destination disk to install the driver, choose the disk where your Mac OS is installed, then click **Continue**.
8. Click **Install or upgrade**, then click **close** and **Restart** to complete driver installation.

To Verify Driver Installation

1. Double click **OS 10.4.x** volume/drive icon.
2. Go to **System/Library/Extensions** folder.
3. If the file **SiliconImage3132.kext** is in the **Extensions** folder, the PCIe card driver is installed successfully.

To Uninstall the Driver

1. Double click **OS 10.4.x** volume/drive icon.
2. Go to **System/Library/Extensions** folder.
3. Click and drag **SiliconImage3132.kext** into trash, then restart your system.
4. The PCIe card driver is now removed.

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