

User Manual

Introduction

The Silicon Image Sil3124 Serial ATA I/II to PCI Host Controller Card is a high performance, server class storage interface device, which provides a multi-port SATA connectivity to minimize the host overhead and the host to device latency. It also supports the latest NCQ hard disks. With this NCQ feature, the hard disks perform more efficient, which means higher performance and longer lifetime of the hard disks.

Features

- Compatible to PCI Specification
- Support data transfer rate 3Gb/s (SATA II) for chipset Sil3124-2 and 1.5Gb/s (SATA) for chipset Sil3124-1
- Backward compatible to SATA 1.0a specification
- Support hard disks with Native Command Queue (NCQ) feature
- Support 4 independent SATA ports
- Capability to connect to a Port Multiplier (e.g. Sil3726) on each port with FIS based switching
- Hot plugging supported
- Support Raid 0, 1, 5 and 10
- Windows NT4.0, 2000, XP, Vista, Server 2003, Linux supported

Before the installation of the controller card, let us make the following assumptions:

1. The end users must have the basic knowledge of installing an internal device and its driver to a PC. If they are not sure about their abilities or have any queries, please call their local dealers immediately, or find somebody who are experienced and qualified for assistance.
2. The computer has been properly installed with our supported Windows operating system

WARNING

Before installing and activating RAID function, please make sure you have a complete backup of your existing data from your hard drives. Manufacturer is not responsible for data loss due to abuse, misuse, or neglect. Should you have any installation problem, please contact your dealer for assistance.

Installing the controller card into the computer

1. Turn off your computer and all external devices connect to it
2. Disconnect your computer from the power sources.
3. Open the computer case. Refer to your computer user manual for more details.
4. Find an available PCI slot and remove the slot bracket. Save the bracket screw for later use.
5. Align the controller card horizontally with respect to the slot and insert it into the slot firmly and evenly. Take care not to force it into the slot. Once you have properly positioned the controller card into the slot, fasten it to the computer case with the screw you have just saved.
6. Mount the hard disk(s) on the computer case
7. Connect the power cable to the hard disk(s)
8. Connect the hard disk(s) to the controller card with the SATA card
9. Secure the computer case and switch on your computer.

Setup a RAID set with two hard disks installed

Caution: all data in the hard disks will be lost in the following procedures

1. Turn on the computer.
2. When the BIOS on the controller card is active, press *Ctrl-S* or *F4* to enter into BIOS menu.
3. Choose “**Create RAID set**” in the Main Menu.
4. Choose following RAID setting depending on your application.
 - RAID0=Striped; combine two hard disk into one
 - RAID1=Mirrored; make a copy of one hard disk to another
 - RAID5=Parity
 - RAID10=RAID0 + RAID1
5. Choose “**Auto configuration**” if you are not familiar with the settings of RAID operation.
6. Press “**Enter**” to choose the maximum size in the hard disk available or press *Up* and *Down Arrows* to alter the size in the hard disk to be configured as RAID function.
7. Press *Ctrl-E* to exit.

Install only ONE hard disk under a RAID supported BIOS

Caution: all data in the hard disks will be lost in the following procedures

1. Turn on the computer.
2. When the BIOS on the controller card is active, press *Ctrl-S* or *F4* to enter into BIOS menu.
3. Choose “**Create RAID set**” in the Main Menu.
4. Choose “**CONCATENATION**”.
5. Select “**1**” for only one hard disk to be installed.
6. Press “**Enter**” if there is only one hard disk is installed or press *Up* and *Down Arrows* and then “**Enter**” to choose the physical drive to be set. Finally, press “**Y**” to confirm.
7. Press *Ctrl-E* to exit.

Check for the status of the hard disks

1. Choose “**Logical Drive Info**” in the Main Menu of the BIOS.
2. Press *Up* and *Down Arrows* to choose the hard disks and read their status in the Logical Drive column.
3. Press “*Esc*” to exit to the Main Menu.

Installing Windows driver for the controller card

1. Turn on the computer
2. Once Windows is running, a new controller is detected.
3. When the Windows ask for its device driver, insert the Drivers & Utility CD into the CDROM (assuming drive D) and browse to the following path for the driver
 - D:/Silicon_Image/SIL3124RAID/Windows**, for BIOS with **RAID** function
 - D:/Silicon_Image/SIL3124/Windows**, for **non-RAID** BIOS
4. If the hard disks installed are blank, do not forget to set partition and format them before use

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