



Ultra ATA/133 PCI Card User Manual



P74088

F5U098

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INTRODUCTION

The Ultra ATA/133 PCI Card (the PCI Card) is a single-chip PCI to ATA controller card. It accepts host commands through the PCI bus, processes them, and transfers data between the host and ATA devices. It can be used to control two independent ATA channels: primary and secondary. Each channel has its own ATA bus and will support up to two ATA/ATAPI devices for a maximum of four devices. The PCI Card supports up to a 133Mbps transfer rate exceeding that which is specified in ATA/ATAPI-6.

OVERVIEW

Key Benefit

The PCI Card is the perfect single-chip solution for designs based on chipsets without an integrated ATA host controller, or designs that need to expand the number of ATA channels to accommodate the growing number of storage peripherals with ATA interface. Any system with a PCI bus interface can simply add an Ultra ATA/133 interface by adding the PCI Card and loading the driver into the system.

The PCI Card comes with drivers for DOS, Windows 98, Windows Millennium Edition (Me), Windows NT 4.0, Windows 2000, and Windows XP. It is also fully compatible with default IDE drivers from Microsoft.

System Requirements

- One free PCI slot
- Pentium® II motherboard and above
- Minimum 32MB of RAM
- Microsoft® Windows® 98, 98 SE, Me, NT® 4.0, 2000, or XP
- IDE hard disk drive, CD-ROM, etc.

OVERVIEW (CONTINUED)

Features

- Standalone PCI to ATA host controller chipset
- Compliant with PCI specification, revision 2.2
- Compliant with PCI IDE controller specification, revision 1.0
- Compliant with programming interface for bus master IDE controller, revision 1.0
- Compliant with ATA/ATAPI-6 specifications
- Compliant with UDMA6 ATA/133 specification
- Driver support for DOS, Windows 98, Me, NT 4.0, 2000, and XP
- Supports up to 4Mb external FLASH or EPROM for BIOS expansion
- Supports an external EEPROM, FLASH, or EPROM for programmable subsystem vendor ID and subsystem product ID
- Supports the Microsoft driver for generic IDE operations and Intel® bus master DMA operations
- Supports the Silicon Image® specific driver for special chip functions

INSTALLATION

Windows 95/98/Me Driver Installation

1. Make sure your computer is completely powered down by powering off the PC and unplugging the power cord. Remove the outer cover.
2. Insert the PCI Card into a PCI slot that supports bus-master DMA. (Your computer's manual should identify the bus-master slots.) Connect your hard drive(s) to the controller card at this time. Close the case and plug in the power cord.
3. Restart your computer and insert the installation CD into your CD-ROM drive.
4. The PCI Card on-board BIOS will automatically detect the drives connected to it once power-up is complete.
5. When your Windows operating system has finished loading, the PCI Card will be detected and the "New Hardware Wizard" will detect "PCI Raid Controller". Click "Next".
6. Select "Search for best driver for your device (Recommended)". Click "Next" (for Windows Me, choose "Automatically search for the best driver [Recommended]").
7. Select "Specify a location" and enter the path to the driver folder on your CD-ROM drive (typically "D:\Driver" where "D:" is the letter of your CD-ROM drive).

INSTALLATION (CONTINUED)

8. Your Windows operating system will locate the driver for "Silicon Image SIL0680 Ultra Medley ATA Raid Controller". Click "Next".
9. Click "Finish" to complete the installation.
10. Restart your computer.
11. A detailed electronic manual can be found on the PCI Card installation CD. This manual includes all the information necessary to set up and maintain your Raid array.

Windows NT 4.0 Driver Installation

1. Before inserting the PCI Card, install Windows NT 4.0/2000 using the on-board IDE controller.
2. After installation of the operating system is complete, turn off your computer and unplug the power cord. Remove the outer cover.
3. Insert the PCI Card into a PCI slot that supports bus-master DMA. (Your computer's manual should identify the bus-master slots.) Connect your hard drive(s) to the PCI Card at this time.
4. Restart your computer and insert the installation CD into your CD-ROM drive.

INSTALLATION (CONTINUED)

5. The PCI Card on-board BIOS will automatically detect the drives connected to it once power-up is complete.
6. When your Windows operating system has finished loading, click on the "Start" button on the lower left-hand corner of the desktop, select "Settings", and then "Control Panel".
7. Click on the "SCSI Adapters" icon.
8. Select the "Drivers" tab, and click "Add".
9. Click "Have Disk".
10. Choose "SIL PCI-0680 ATA/133 Controller" and click "OK".

Verifying Proper Installation in Windows NT

Double-click the "My Computer" icon, select "Control Panel", then click on the "SCSI Adapters" icon. Select the "Device" and "Driver" tabs. If the PCI Card is correctly installed, you will see a listing for "Silicon Image SIL0680 Ultra-133 Medley ATA Raid Controller".

Windows 2000 Driver Installation

1. Make sure your computer is completely powered down by powering off the PC and unplugging the power cord. Remove the outer cover.

INSTALLATION (CONTINUED)

2. Insert the PCI Card into a PCI slot that supports bus-master DMA. (Your computer's manual should identify the bus-master slots.) Connect your hard drive(s) to the controller card at this time.
3. Restart your computer and insert the installation CD into your CD-ROM drive.
4. The PCI Card on-board BIOS will automatically detect the drives connected to it once power-up is complete.
5. When your Windows operating system has finished loading, the PCI Card will be detected and the "New Hardware Wizard" will detect "PCI Raid Controller". Click "Next".
6. Select "Search for a suitable driver for my device (Recommended)". Click "Next".
7. Click the box next to the "CD-ROM" drive option.
8. Your Windows operating system will locate the driver for "Silicon Image SIL0680 Ultra Medley ATA Raid Controller". Click "Next".
9. If the "Digital Signature not Found" dialog box appears, select "Yes" to continue.
10. Click "Finish" to complete the installation.
11. Restart your computer.

INSTALLATION (CONTINUED)

12. A detailed electronic manual can be found on the PCI Card installation CD. This manual includes all the information necessary to set up and maintain your Raid array.

Verifying Proper Installation in Windows 2000

1. Right-click the "My Computer" icon, then select "Properties". Select the "Hardware" tab, then select "Device Manager".
2. Click on the "+" sign next to the "SCSI and Raid Controller" entry.
3. In the drop-down list you should see an entry for "Silicon Image SIL0680 Ultra-133 Medley ATA Raid Controller".

Windows XP Driver Installation

1. Make sure your computer is completely powered down by powering off the PC and unplugging the power cord. Remove the outer cover.
2. Insert the PCI Card into a PCI slot that supports bus-master DMA. (Your computer's manual should identify the bus-master slots.) Connect your hard drive(s) to the PCI Card at this time.

INSTALLATION (CONTINUED)

3. Restart your computer and insert the installation CD into your CD-ROM drive.
4. The PCI Card on-board BIOS will automatically detect the drives connected to it once power-up is complete.
5. When your Windows operating system has finished loading, the PCI Card will be detected and the "New Hardware Wizard" will detect "PCI Raid Controller". Click "Next".
6. Select "Install Software Automatically (Recommended)". Click "Next".
7. Click the box next to the "CD-ROM" drive option.
8. Your Windows operating system will locate the driver for "Silicon Image SIL0680 Ultra Medley ATA Raid Controller". Click "Next".
9. If the "Digital Signature not Found" dialog box appears, select "Continue Anyway".
10. Click "Finish" to complete the installation.
11. Restart your computer.
12. A detailed electronic manual can be found on the PCI Card installation CD. This manual includes all the information necessary to set up and maintain your Raid array.

INSTALLATION (CONTINUED)

Verifying Proper Installation in Windows XP

1. Right-click the "My Computer" icon, then select "Properties". Select the "Hardware" tab, then select "Device Manager".
2. Click on the "+" sign next to the "SCSI and Raid Controller" entry. In the drop-down list you should see an entry for "Silicon Image SIL0680 Ultra-133 Medley ATA Raid Controller".

INFORMATION

FCC Statement

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Components, of 501 West Walnut Street, Compton CA 90220, declare under our sole responsibility that the product:
F5U098

to which this declaration relates:

Complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE Declaration of Conformity

We, Belkin Components, declare under our sole responsibility that the F5U098, to which this declaration relates, is in conformity with Generic Emissions Standard EN50081-1 and with Generic Immunity Standard EN50082-1 1992.

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