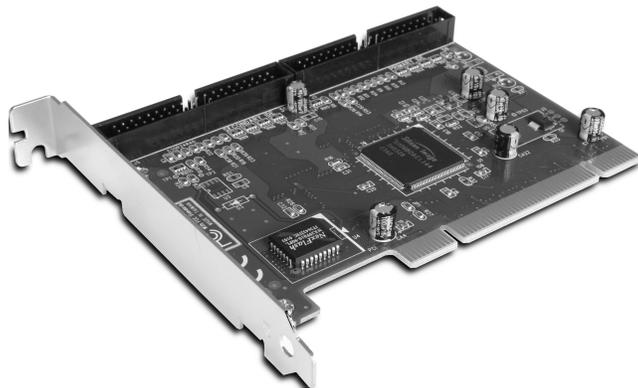


IDE ATA/133 Controller

Dual Channel ATA/133 PCI Controller Card

PCI2IDE133

Instruction Manual



Actual product may vary from photo

StarTech.com

The Professionals' Source for Hard-to-Find Computer Parts

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Introduction

Thank you for purchasing a StarTech.com ATA/133 IDE controller card. This product is perfect for adding additional hard drives and other IDE/ATAPI compliant devices to a computer that does not have any available IDE connections, replacing a failed onboard IDE controller, or upgrading a computer to take advantage of ATA/133 speeds. The card uses a jumperless Plug and Play installation and is fully compliant with industry standards for maximum compatibility.

Features

- Fast burst data transfer rates with ATA/133-compliant drives: up to 133 MBytes/sec.
- Includes native hardware bus mastering and DMA access support
- Backed by StarTech.com's lifetime warranty and technical support

Before You Begin

WARNING! PCI cards, like all computer equipment, can be severely damaged by static electricity. Be sure that you are properly grounded before opening your computer case or touching your PCI card. StarTech.com recommends that you wear an anti-static strap when installing any computer component. If an anti-static strap is unavailable, discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds. Also be careful to handle the PCI card by its edges and not the gold connectors.

System Requirements

- An IBM-compatible computer with an available PCI slot
- Hardware-level support for attached drives, but advanced drivers are included for: Windows 98/98SE/NT4/ME/2000, Windows XP includes native drivers, DOS (required for CD-ROMs only)

Contents

This package should contain:

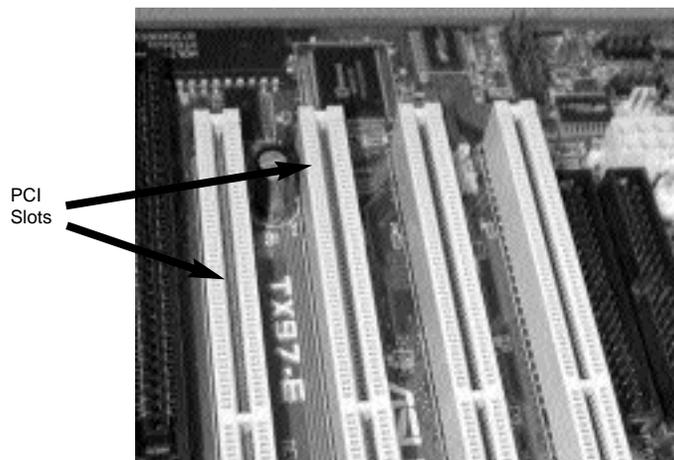
- 1 x ATA/133 IDE PCI Controller Card
- 1 x 80-wire IDE Data Cable
- 1 x Installation Disk
- 1 x Instruction Manual

Installation

This section will guide you through the installation of your card. Please read through the instructions carefully and complete each step in the order listed.

If you are using Windows 98, 98SE, or ME, please follow the software installation instructions on the next page before installing the card. Other users can install the card now before completing the software installation.

Installing the Card



1. Make sure that your system is unplugged and you are grounded.
2. Remove the cover of your system (see your computer's user manual for details, if necessary) and gently turn your computer onto its side.
3. Locate an empty PCI slot (usually white in color) and remove the metal plate that covers the rear bracket. You may need a Phillips screwdriver to perform this step. **Retain the screw!** You will need it to secure the card later.
4. Gently insert the card into the empty slot, making sure it is firmly seated.
5. Secure the card in place using the screw you removed in Step 3.
6. Install the devices you wish to use with the card into the case following the instructions provided in their documentation.
7. Use the 80-wire IDE cable (provided) to attach the devices you are using to the controller. Be sure to observe master/slave settings, and that the red stripe on the cable faces pin 1 on the connectors for both the card and the device. If you are attaching more than two devices to the controller, you will need to purchase an additional IDE cable.

NOTE: The primary master device on the card must be a hard disk.

6. Put the computer case back on.

Installing the Drivers

Windows 98/98SE/ME

1. Insert the installation disk in the drive. Double click **My Computer**.
2. Double click the icon that represents your floppy drive. Double click the **win9x** folder.
3. Double click the **setup680.exe** file. Follow the on-screen instructions to copy the software.
4. At the end of the installation process, you may be prompted to restart the computer.
Choose **No**.
5. Go to the **Start** menu and shut down the computer. Complete the card installation instructions on page 2.

Windows 2000

1. Windows will launch the **Add New Hardware Wizard**. Click **Next**.
2. Choose the **Search for a suitable driver...** option and click **Next**.
3. Check only the **Floppy disk drives** option. Ensure the installation disk is inserted in the floppy drive. Click **Next**.
4. Windows will display a message stating that "Windows has found a driver for this device". Click **Next**. Choose **Yes** or **Continue Anyway** if you are warned that the driver file has not been digitally signed.
5. Windows will display a message that states "Windows has finished installing software for this device". Click **Finish**.
6. Windows will continue to detect and install any remaining new devices. If the Add New Hardware Wizard is launched again, repeat steps 1 through 6 from above.

Windows XP

Windows XP includes the drivers needed for this device. It will automatically install the necessary hardware when the device is detected.

Windows NT 4.0

Consult the **readme.txt** file on the installation disk for more information about configuring this product in Windows NT.

DOS (for CD-ROM installation only)

If you wish to connect CD-ROMs to the PCI2IDE133, view the instructions in the **dos** folder on the installation disk for more details on configuring your startup files. Hard disks do not require additional software.

Verifying Your Installation

Windows 98SE/ME

1. Go to **Start > Settings > Control Panel**.
2. Double click **System**.
3. Click the **Hardware** tab.
4. If the card does not appear with a red **x** or yellow exclamation point (!) next to it, Windows has not detected a problem with the installation and the card should function normally.

Windows 2000/XP

1. Go to **Start > Settings > Control Panel**.
2. Double click **System**.
3. Click the **Hardware** tab and choose **Device Manager**.
4. If the card does not appear with a red **x** or yellow exclamation point (!) next to it, Windows has not detected a problem with the installation and the card should function normally.

Specifications

Form Factor/Interface	PCI 5v (full-sized card) Fully Plug and Play Compliant
Interface Types Supported	ATA/133/100/66/33 and ATAPI
Maximum Data Transfer Rate	133 MBytes/sec. (burst)
Maximum Hard Drive Size Supported	132 GBytes
Chipset	Silicon Image Sil680ACL144
Number of Channels/Supported Devices	2 channels, 2 devices per channel (4 devices total)
Connectors	2 x IDE 40-pin (male)
Regulatory and Other Certifications	FCC Class B, CE, UL

Troubleshooting

Q: I have installed the Intel chipset update for my motherboard and am experiencing problems with Standby Mode or am getting a "Write Fault Error" intermittently. How can I correct this?

A: The Intel chipset updater causes known conflicts with the driver for the controller card. To correct this problem, try one of the following solutions:

- If you are experiencing problem with Standby Mode (also referred to a "hibernation"), uninstall the Intel chipset update using **Add/Remove Programs** in Control Panel.
- If you are experiencing the "Write Fault Error" message, uninstall the the Intel chipset update using **Add/Remove Programs** in Control Panel, and/or ensure that there is at least one IDE/ATAPI device installed on the motherboard's IDE controller.

Q: I am attempting to install Roxio/Adaptec Easy CD Creator and am receiving a "Windows Protection Error" message. How can I correct this?

A: Move all optical drives (CD/DVD-ROMs, CD/DVD-RWs, etc.) to either the onboard IDE controller or the PCI2IDE133 card. Hard disk drives can be attached to either controller.

Q: How can I maximize the performance of the drives connected to the PCI2IDE133?

A: Since IDE/ATAPI devices on the same channel share bandwidth, the card will automatically slow down the data transfer rate to accommodate the slowest device on that channel. So, if you have a CD-ROM slaved to a ATA/133 hard disk on the card's primary channel, the hard disk will not be able to deliver top performance, but will maintain compatibility with the CD-ROM. To avoid this problem, ensure that ATA/133 devices (hard disks, in particular) are located on a separate channel from slower devices. You can use the card's secondary channel or the motherboard's onboard IDE controller for CD-ROMs and other "slow" devices.

Q: How can I control the order in which IDE devices are detected by the BIOS?

A: The BIOS will detect drives in the following order:

Onboard Primary IDE Channel (master [0], then slave [1])
 Onboard Secondary IDE Channel (master [2], then slave [3])
 PCI2IDE133 Primary IDE Channel (master [4], then slave [5])
 PCI2IDE133 Secondary IDE Channel (master [6], then slave [7])

Note that drive position in the order noted above may affect drive letter assignments in Windows and other operating systems. The first hard disk--regardless of where it is installed in this order--is normally considered the boot drive by most BIOSes. If you want to use a hard disk on the PCI2IDE133 as your boot drive, you cannot have any hard disks installed on the onboard IDE controller.

Accessory Products from StarTech.com

Contact your local StarTech.com dealer or visit www.startech.com for cables or other accessories that will help you get the best performance out of your new product.

18 inch Round ATA 100/133 IDE cable

IDE100RND18

24 inch Round ATA 100/133 IDE Cable

IDE100RND24

36 inch Round ATA 100/133 IDE Cable

IDE100RND36

18 inch Ultra ATA 33/66/100/133 TPO Internal IDE Cable

IDE100TPO18

Mutant Mods 24 inch UV Reactive Blue EL Wire Wrapped Round IDE Cable

IDERN24ELBL

Mutant Mods 24 inch UV Reactive Round IDE Cable

IDERN24UV

18-inch Ultra ATA/66/100/133 80-wire IDE Cable

IDE66

24 inch Dual Drive Ultra ATA/66/100/133 Cable

IDE66_24

36 inch Dual Drive Ultra ATA/66/100/133 Cable

IDE66_36

8 inch Blue Round ATA 100/133 IDE cable

IDERN18BL

18 inch Clear Round ATA 100/133 IDE cable

IDERN18CL

18 inch Blue Round ATA133 Cable with Power Connectors

IDERN18PWBL

18 inch Red Round ATA 100/133 IDE Cable

IDERN18RD

18 inch Yellow Round ATA100/133 IDE Cable

IDERN18YL

24 inch Blue Round ATA 100/133 IDE Cable

IDERN24BL

24 inch Clear Round ATA 100/133 IDE cable

IDERN24CL

24 inch Blue Round ATA133 Cable with Power Connectors

IDERN24PWBL

24 inch Red Round ATA 100/133 IDE cable
IDERN24RD

24 inch Yellow Round ATA100/133 IDE Cable
IDERN24YL

36 inch Blue Round ATA 100/133 IDE Cable
IDERN36BL

36 inch Clear Round ATA 100/133 IDE cable
IDERN36CL

36 inch Blue Round ATA133 Cable with Power Connectors
IDERN36PWBL

36 inch Red Round ATA 100/133 IDE cable
IDERN36RD

36 inch Yellow Round ATA100/133 IDE Cable
IDERN36YL

Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

Warranty Information

This product is backed by a lifetime warranty. In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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