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Changes

The material in this document is for information only and subject to change without notice. While reasonable efforts have been made in the preparation of this document to assure its accuracy, LaCie assumes no liability resulting from errors or omissions in this document, or from the use of the information contained herein. LaCie reserves the right to make changes or revisions in the product design or the product manual without reservation and without obligation to notify any person of such revisions and changes.

FCC Statement:



NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

NOTE: 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 and 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.

Canada Compliance Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Manufacturer's Declaration for CE Certification

We, LaCie, solemnly declare that this product conforms to the following European standards:

Class B EN60950, EN55022, EN50082-1, EN61000-3-2

With reference to the following conditions:

2006/95/EC Low Voltage Directive

2004/108/EC EMC Directive



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a

designed collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and

the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service, or the shop where you purchased the product.

Health and Safety Precautions

- ◆ Only qualified persons are authorized to carry out maintenance on this device.
- ◆ Read this User Manual carefully, and follow the correct procedure when setting up the device.
- ◆ Do not attempt to disassemble or modify your PCI card. Never insert any metallic object into the circuitry to avoid any risk of electrical shock, fire, short-circuiting or dangerous emissions. Your PCI card contains no user-serviceable parts. If it appears to be malfunctioning, have it inspected by a qualified LaCie Technical Support representative.
- ◆ Never expose your device to rain, or use it near water, or in damp or wet conditions. Never place objects containing liquids on the PCI card, as they may spill onto its circuitry. Doing so increases the risk of electrical shock, short-circuiting, fire or personal injury.
- ◆ Make sure that the computer and PCI card are electrically grounded. If the devices are not grounded, there is an increased risk of electrical shock.
- ◆ Do not expose the PCI card to temperatures outside the range of 5° C to 45° C (41° F to 104° F). Doing so may damage the card or disfigure its casing. Avoid placing your card near a source of heat or exposing it to sunlight (even through a window). Inversely, placing your card in an environment that is too cold or humid may damage the unit.

IMPORTANT INFO: Any loss, corruption or destruction of data while using a LaCie drive is the sole responsibility of the user, and under no circumstances will LaCie be held liable for the recovery or restoration of this data. To help prevent the loss of your data, LaCie highly recommends that you keep TWO copies of your data; one copy on your external hard drive, for instance, and a second copy either on your internal hard drive, another external hard drive or some other form of removable storage media. LaCie offers a complete line of CD and DVD drives. If you would like more information on backup, please refer to our Web site.

1. Introduction

Congratulations on the purchase of your new LaCie USB 2.0 PCI Card, Design by SISMO. Now when you connect your USB 2.0 devices through your LaCie USB 2.0 PCI Card, you will be able to achieve the impressive new transfer rates that USB 2.0 makes possible.

The LaCie USB 2.0 PCI Card is a fully-functional USB 2.0 host, supporting High-Speed (HS), Full-Speed (FS) and Low-Speed (LS) operation. It also offers full backward compatibility with USB 1.1 devices.

Your LaCie PCI Card Capabilities

- ◆ Variable data transfer rate: HS (480Mb/s), FS (12Mb/s) and LS (1.5Mb/s)
- ◆ Four external ports, allowing connection of up to 127 devices
- ◆ Supports hot-pluggable devices and plug & play functionality
- ◆ Anti-static handle

Quick Links

Click a topic:


- ◆ **Inserting** your LaCie PCI Card
- ◆ **Driver** Installation




2. Your LaCie USB 2.0 PCI Card

2.1. Minimum System Requirements

The LaCie USB 2.0 PCI Card is compliant with the Open Host Controller Interface (OHCI), the Enhanced Host Controller Interface (EHCI) and the USB Revision 2.0 specifications.

 **IMPORTANT INFO:** The format of this card is not compatible with PCI express slots, laptops or notebook computers, and therefore cannot be installed on these types of systems.

 **CAUTION:** Before handling and installing your LaCie USB 2.0 PCI Card, ensure that you have properly grounded yourself. Electrostatic Discharge (ESD) can quickly and easily damage or destroy your component or your computer. Please see section [3.1. Electrostatic Discharge](#) for information on how to properly ground yourself.

 **IMPORTANT INFO:** During installation or removal, always hold your card by the anti-static gripping pad.



Windows

- ◆ IBM-compatible PC, 266MHz compatible processor or greater, 32MB RAM
- ◆ PCI slot that complies with ATX PCI Specification Rev.2.0 or greater
- ◆ 128MB RAM
- ◆ Windows 2000, Windows 2003 Server, Windows XP (32 and 64bits) and Windows Vista (32 and 64bits)

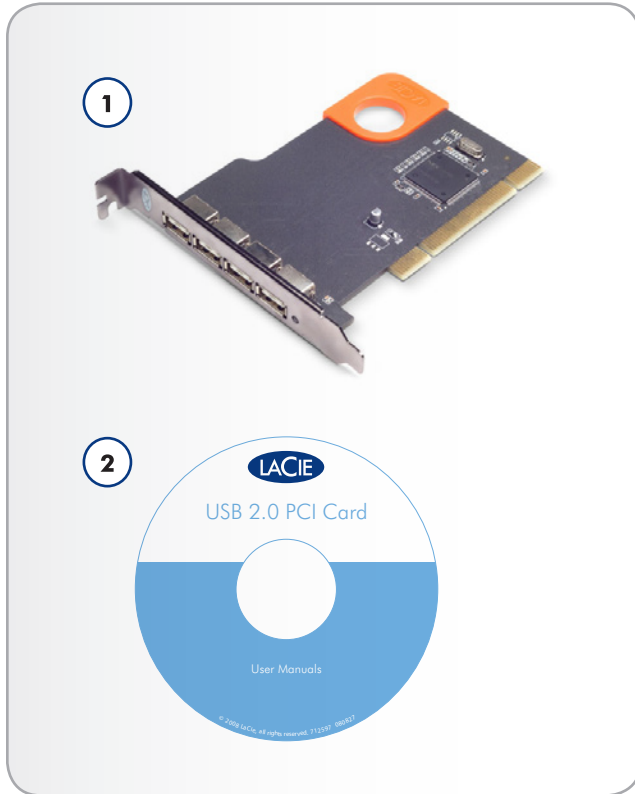


Mac

- ◆ One PCI slot that complies with PCI Specification Rev. 2.3 or greater
- ◆ G3 (Blue & White), G4, or G5
- ◆ 128MB RAM
- ◆ Mac OS X 10.4, 10.5 or greater

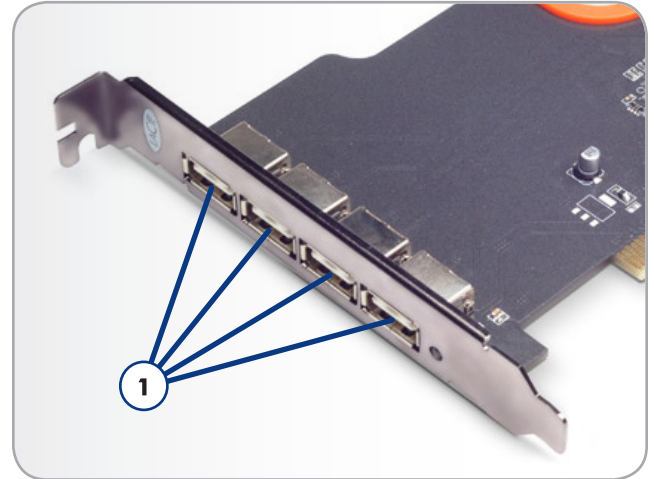
2.2. Package Content

1. LaCie USB 2.0 PCI Card, Design by Sismo
2. Quick Install Guide
3. LaCie USB 2.0 PCI Card Utilities CD-ROM (includes User Manual)



2.3. View of the Card

1. **Four USB 2.0 Ports** – These ports are where you attach the USB 2.0 interface cables.



3. Installing Your LaCie PCI Card

3.1. Electrostatic Discharge (ESD)



IMPORTANT INFO: During installation or removal, always hold your card by the anti-static gripping pad.

Static electricity is an electric charge caused by an imbalance of electrons on the surface of a material. When you touch an object and are shocked, this is the transfer of the static charge or the balancing of your charge to that of the object. This exchange is called Electrostatic Discharge or ESD.

ESD can cause two different types of damage to computers and peripherals: (1) Catastrophic, which is the complete loss of device functionality, and (2) Latent Defect, where the device is only partially effected, and the device loses part of its productivity and longevity.

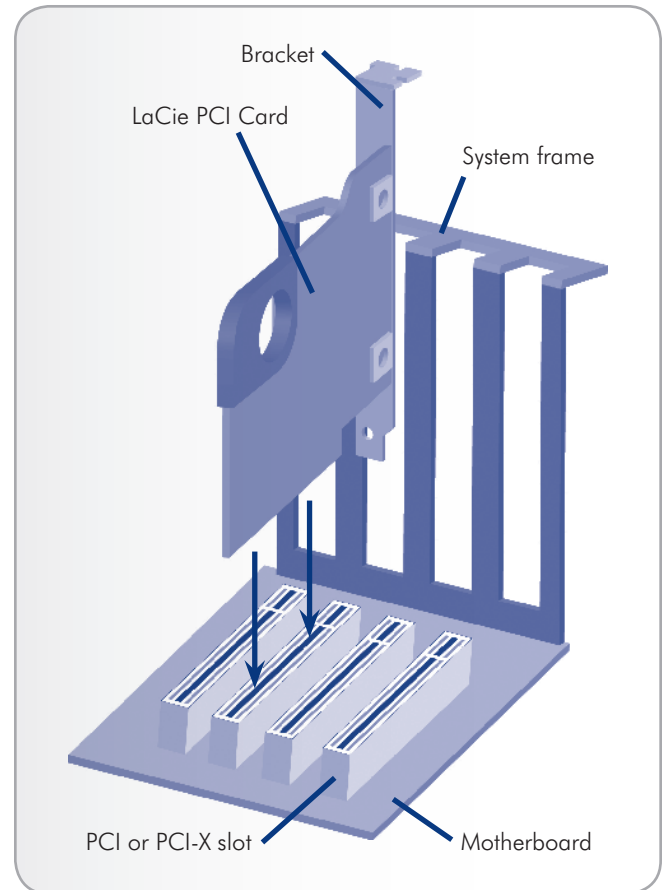
Because we cannot eliminate the generation of static electricity, it is extremely important to follow the proper steps to ground yourself before handling your LaCie USB 2.0 PCI Card or touching any internal component of your computer. This can be accomplished by proper grounding in conjunction with the use of ESD safe mats, wrist or shoe straps. Consult your computer supply specialist for more details on the correct ESD dissipative device to fit your needs.

3.2. Inserting Your LaCie PCI Card

Required Tools

- ◆ Philips-head and/or flat-head screw driver
- ◆ Computer System Manual

1. Turn off your computer and disconnect all external peripheral devices and cables, i.e. power cord, modem/fax line, monitor, etc.
2. Remove your computer's cover. For most computers, several screws will need to be unseated before you can remove the computer's cover. These screws are usually located at the rear of the computer, along the edge of the cover. However, placement of these screws and cover attachment may vary by manufacturer, so please refer to your computer's manual for specific details.
3. Once you have removed the cover, you will need to locate the PCI slots on the motherboard. The PCI slots are generally located in the back of the computer, with the slots built into the side-wall of the computer (please refer to your computer system's manual for the exact location of your PCI slots – the LaCie PCI Card may be installed in either a 32 or 64-bit PCI card slot). If necessary, you may need to remove the expansion slot cover, and you may also need to remove any add-in boards which block access to the PCI slots.
4. Take the LaCie PCI Card out of its anti-static blister package and, being careful to touch only the anti-static gripping pad, push the card into the empty PCI card slot. There is only way to mount the card, so if you are having problems inserting the card into the PCI slot, make sure that it is oriented correctly. Be sure that the gold contact pins of the PCI card are seated completely inside your computer's PCI slot. Be aware that it may take some force to get the card fully seated in the slot.
5. Once the PCI card is seated correctly, tighten with a screw.
6. If necessary, replace any add-in boards that you removed in Step 3.
7. Now you are ready to put the computer's cover back on and reconnect all of your external peripheral devices and cables.
8. Power on your computer. After the start up procedure has finished, you should be able to connect devices through the available FireWire ports.



3.3. Driver Installation



Windows Users

There are no drivers to install for Windows 2000, 2003 Server, XP, and Vista. The LaCie FireWire PCI Card has the drivers built into the BIOS for these operating systems.



Mac Users

There are no drivers to install. The LaCie FireWire PCI Card has the drivers built into the BIOS for the Mac OS.

4. USB 2.0 Questions & Answers

What Are The Benefits Of The USB Interfaces?

- ◆ Cross-platform: Use your USB peripherals on both Mac and Windows platforms.
- ◆ “Hot Swappable”: No need to shut down or restart your computer when adding or removing a USB device. Plug it in and its ready.
- ◆ Automatic configuration: Once your device is connected, your computer recognizes the device and automatically configures the necessary software.
- ◆ Daisy-Chaining: with USB ports on your computer, you can connect up to 127 peripherals using hubs.
- ◆ Easy Installation: One standardized port and plug combination makes it simple to connect.

What Are The Ideal Uses For USB 1.0?

USB 1.0 is perfect for more traditional connections such as keyboards, mice, joysticks and scanners. These types of devices don't require fast data transfer rates, and operate very successfully at the slower speeds.

What Are The Ideal Applications For Hi-Speed USB 2.0?

Digital cameras, CD/DVD drives, hard drives and scanners will all benefit from the added bandwidth and performance gains of the new implementation of the USB standard. Hi-Speed USB 2.0 provides the necessary fast data transfer rates that today's devices require, and combines the earlier specifications so older devices that operated under the original USB standards will still work with Hi-Speed USB 2.0.

Will USB 1.0 Devices Run Faster When Connected To A Hi-Speed USB 2.0 Bus?

Unfortunately, no. USB devices will still operate at 12Mb/s at full-speed and 1.5Mb/s at low-speed on a Hi-Speed USB 2.0 bus. Even though USB 1.0 devices won't run any faster, they can work alongside Hi-Speed USB 2.0 devices on the same bus. However, if you plug in a Hi-Speed USB 2.0 device to a USB 1.0 bus, the speed of the Hi-Speed USB 2.0 device will decrease to 12Mb/s.

What Is A USB Hub?

Technically, you can connect up to 127 devices to a single USB bus. For more than two devices, though, you must make new connections using a peripheral called a “hub.” A hub, which you hook up directly to a USB connector on your computer, usually has 4 or 7 output connections enabling you to connect the same number of peripherals. Some hubs have no power supply and others are self-powered. When you choose a hub, opt for the self-powered variety, as they have their own AC adapter. The most powerful hubs provide 0.5A of power to each port.

Will Hi-Speed USB 2.0 Devices Work On USB 1.1 Hubs And Vice Versa?

You can use your Hi-Speed USB 2.0 devices with USB 1.1 hubs, but the peripherals will be limited to USB 1.1 performance levels. Hi-Speed USB 2.0 is backwards compatible, so you will be able to connect USB devices to Hi-Speed USB 2.0 hubs; however, the USB devices will still maintain their normal performance levels (i.e. 12 Mb/s).

In order to achieve the fast data transfer rates of Hi-Speed USB 2.0, you must connect your Hi-Speed USB 2.0 device directly to a Hi-Speed USB 2.0 port on either a computer or hub.

For more information about the USB interface, please visit:

www.lacie.com/technologies

5. Contacting Customer Support

Before You Contact Technical Support

- ◆ Read the manual.
- ◆ Try to isolate the problem.

If you still can't get your LaCie PCI Card to work properly, contact us via the provided Web link. Before contacting us, make sure that you are in front of your computer and that you have the following information on hand:

- ◆ Your card's serial number
 - ◆ Computer brand and model
 - ◆ Operating system and version
 - ◆ Amount of memory installed
 - ◆ Names of CD or DVD drives installed on your computer
 - ◆ Names of any other devices installed on your computer
-

5.1. LaCie Technical Support Contacts

LaCie Asia, Singapore, and Hong Kong Contact us at: http://www.lacie.com/asia/contact/	LaCie Australia Contact us at: http://www.lacie.com/au/contact/
LaCie Belgium Contact us at: http://www.lacie.com/be/contact/ (Français)	LaCie Canada Contact us at: http://www.lacie.com/caen/contact/ (English)
LaCie Denmark Contact us at: http://www.lacie.com/dk/contact	LaCie Finland Contact us at: http://www.lacie.com/fi/contact/
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LaCie Italy Contact us at: http://www.lacie.com/it/contact/	LaCie Japan Contact us at: http://www.lacie.com/jp/contact/
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LaCie Ireland Contact us at: http://www.lacie.com/ie/contact/	LaCie USA Contact us at: http://www.lacie.com/contact/
LaCie International Contact us at: http://www.lacie.com/intl/contact/	

6. Warranty Information

LaCie warrants your PCI card against any defect in material and workmanship, under normal use, for the period designated on your warranty certificate. In the event this product is found to be defective within the warranty period, LaCie will, at its option, repair or replace the defective PCI card.

This warranty is void if:

- ◆ The card was operated/stored in abnormal use or maintenance conditions;
- ◆ The card is repaired, modified or altered, unless such repair, modification or alteration is expressly authorized in writing by LaCie;
- ◆ The card was subjected to abuse, neglect, lightning strike, electrical fault, improper packaging or accident;
- ◆ The card was installed improperly;
- ◆ The serial number of the card is defaced or missing;

LaCie will not, under any circumstances, be liable for direct, special or consequential damages such as, but not limited to, damage or loss of property or equipment, loss of profits or revenues, cost of replacement goods, or expense or inconvenience caused by service interruptions. Under no circumstances will any person be entitled to any sum greater than the purchase price paid for the card.

To obtain warranty service, call LaCie Technical Support. You may be asked to furnish proof of purchase to confirm that the card is still under warranty. All cards returned to LaCie must be securely packaged in their original box and shipped with postage prepaid. Register online for free technical support:

www.lacie.com/register.htm
