



ICUSB25

5-Port USB 2.0 PCI Host Controller Upgrade Card Manual and Troubleshooting Guide

Package Contents:

- 1 - 5-Port USB 2.0 PCI Host Controller Upgrade Adapter Card
- 1 - Driver CD-ROM

About This Product

This five-port USB upgrade card is a Universal Serial Bus (USB) host controller that allows you to directly connect up to five USB devices. The five downstream ports support high-speed (480Mbps), full-speed (12Mbps), and low-speed (1.5Mbps) devices.

System Requirements

Hardware: One open PCI v2.1 slot.

USB 1.1 Minimum OS: Windows 98®, Linux 2.4.20®, Mac OS 9® 9.2.2

USB 2.0 Minimum OS: Windows 98 Second Edition®, Linux 2.6.9®,
Mac OS X® 10.3.5

Some operating systems require a driver, see www.stratitec.com for latest drivers.

Key Features

- Full plug-and-play hot-swap compatibility.
- Throughput up to 480Mbps.
- Connections for up to 5 devices.
- Multiple internal host controllers for maximum speed.

**DO NOT RETURN THIS PRODUCT TO STORE.
CONTACT STRATITEC AT 888.336.4418 FOR
ASSISTANCE.**

USB 2.0 Upgrade Card
MODEL # ICUSB25
Manual v2 090205

Windows Users

For best results, follow this installation procedure:

1. Install the drivers for the PCI USB Host Controller Upgrade Card (refer to “Windows Driver Installation” instructions below).
2. Perform “Hardware Installation.”

Windows Driver Installation

1. Insert the included CD-ROM into your CD-ROM drive.
2. Go to “My Computer” and double-click on Drive D: (assuming D is the drive letter for your CD-ROM drive).
3. If you see folders for various versions of Windows, double-click on the appropriate folder then double-click “u2v2_06.exe,” otherwise double-click “setup.exe.”
4. When the installation is complete, **restart** your computer.
5. Follow “Hardware Installation” instructions below.
6. Windows may prompt for drivers for the “NEC PCI to USB Enhanced Host Controller” or “PCI to USB 2.0 Card.” If this happens, click “Next,” allow Windows to search for a driver automatically and click “Finish” if prompted.
7. Full USB 2.0 speed may not be attained until the system is restarted again.

Hardware Installation

1. Shut down your computer, disconnect power, and open your case.
2. Insert the card into an available PCI slot.
3. Make sure the card is firmly seated in its slot, then screw in the metal bracket at the back of the case.
4. Close the computer case and reconnect power. Turn on your computer.

Linux Driver Installation

1. Most recent Linux distributions will detect and install the USB 1.1 OHCI (2.4 kernel or later) and USB 2.0 EHCI (2.6 kernel or later) controllers.
2. If the card is not automatically detected, either recompile your kernel to include USB support, or use a Linux distribution with USB included.

Mac OS Driver Installation

1. Supported versions of the Mac OS should automatically detect and load drivers for the USB 1.1 controllers on the upgrade adapter card.
2. MAC OS 10.3.5+ should automatically detect and load drivers to use the full USB 2.0 EHCI speed.
3. Mac OS 9.x may require the installation of Apple's “USB Adapter Card Support” package. Go to www.apple.com, click on the “Support” section and search for “USB Adapter Card Support” for additional information.

TROUBLESHOOTING: DO NOT RETURN THIS PRODUCT TO THE STORE.

Common Problems and Solutions:

1) Devices are not running at full speed

- i. Make sure the device is plugged directly into the USB upgrade adapter card.
- ii. Verify the cable connecting the device is a USB 2.0-certified cable such as a Stratitec USB2AB or DXUSB2AB cable.
- iii. Check in "usbview" (Linux) or "Device Manager" (Windows) to make sure that there is an entry for "USB EHCI Root Hub," "NEC PCI to USB Enhanced Host Controller" or "PCI to USB 2.0 Card." If this is not present, then the drivers have not been installed properly.
- iv. Make sure you are using a computer with a fast processor that can handle the extremely high bandwidth of USB 2.0 devices.

2) "Driver could not be found" message in Windows

- i. Windows may be trying to load drivers for devices plugged into the card.
- ii. Disconnect all devices from the card and install them one at a time.
- iii. Some operating systems require an original Windows installation CD-ROM.
- iv. Update drivers and clean the "Device Manager." (Follow **Specific Solutions A and B** below.)

3) USB Device is not detected or does not work properly when connected

- i. Update your drivers. (Follow **Specific Solutions A and B** below.)
- ii. You may have a conflict between devices. Test devices one at a time.

4) USB host controller shows with a green "?" in Windows Me or later

- i. This is the way that Windows shows it is using the standard USB driver.
- ii. This is normal and no driver change or update is needed.

Specific Solutions:

A) USB Device Driver Update

Download and install the latest driver for each USB device that you have. Find drivers for your USB devices on the web site of the USB device manufacturer.

B) Clean USB devices in Device Manager in Windows

- i. Leave USB devices plugged in.
- ii. Right-click on the "My Computer" icon on the Windows Desktop (or "Start" in WinXP).
- iii. A small menu will appear. Click on the "Properties" item. Click on the "Device Manager" tab (Win XP: click "Hardware" then "Device Manager" button).
- iv. Scroll down and click the "+" next to "Universal Serial Bus Controllers" to show all USB devices.
- v. Look for an item with a red "X" or yellow "!" next to it. If you see such an item, or anything listed as "Generic USB Hub," "Root hub," or "Host controller," click on that item and then click the "Remove" or "Uninstall" button. (Win2000/XP users: Right-click on the item and select "Uninstall".) Click "OK" and restart your computer.

If you still have trouble, check www.stratitec.com, then call 888.336.4418 for technical support.

Card Specifications:

Card:	USB 2.0 5 Port PCI Host Controller Upgrade Card
Standard:	USB V2.0
Speed:	480Mbps, 12Mbps, 1.5Mbps
Power:	500mA/port
Chipset:	NEC or equivalent

This USB 2.0 Host Controller Upgrade Card is built with the highest quality components and is designed for reliability, compatibility, performance and interoperability with other USB devices.

FCC Statement

The ICUSB25 USB host controller upgrade card 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 according to 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 is found 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 or device, connect the equipment to an outlet other than the receiver's, or consult a dealer or an experienced radio/TV technician for assistance.

CE Declaration of Conformity

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE and EN 50082-1, the essential protection requirements of Council Directive 89/336/eec on the approximation of the laws of the Member States relating to electromagnetic compatibility.

1 Year Limited Warranty

This product is warranted to be free from any hardware defects in materials or workmanship for a period of one year to the original purchaser of this product. If such a defect is discovered within this warranty's limitations, the product will be repaired or replaced at the manufacturer's option. This warranty is not transferable or assignable. **IN NO EVENT SHALL STRATITEC'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.**

Stratitec and the Stratitec logo are registered trademarks of Stratitec, Inc. Microsoft and Windows are trademarks of Microsoft Corporation. Mac and Mac OS are trademarks of Apple Computer, Inc. Linux is a registered trademark of Linus Torvalds. Other trademarks and registered trademarks of products referred to in this manual are the properties of their respective holders.

Stratitec, Inc.
Support: 888.336.4418 • www.stratitec.com