

USB 2.0 PCI Card User's Manual

The USB 2.0 PCI Card supports the new USB 2.0 peripherals and all the existing USB 1.1 devices. The card adds high speed USB 2.0 ports to your PC or Mac. With 40 times faster than USB 1.1 port and 20% faster than FireWire port, the USB 2.0 port supports data rates up to 480 Mbps. The USB 2.0 PCI Card is an ideal choice for external storage devices, MP3 players, CDRs, CDRWs, scanners, digital cameras, webcams, networking and video devices, and all other USB devices.

The USB 2.0 PCI Card incorporates an intelligent host controller designed by NEC Corp. With the addition of USB 2.0 PCI Card, you will add high speed USB 2.0 ports to your computer while maintaining backward compatibility with USB 1.1 devices. The card can automatically detect the USB standard of each connected device, and works with the device at the correct speed.

The USB 2.0 PCI Card includes high-performance USB 2.0 drivers for Windows 98 SE, ME, 2000, Windows XP and Macintosh OS X to optimize the performance of USB 2.0 ports.

USB 2.0 + FireWire Combo Card User's Manual

The USB2-1394 is a high speed 4-port USB 2.0 and 3-port FireWire combination PCI card supporting both high-speed I/O standards. With USB 2.0 and FireWire connections on a single PCI slot , the USB 2.0 + FireWire design saves you a valuable PCI slot and reduces your cost to own both high speed I/O. The card adds three external and one internal USB 2.0, plus two external and one internal FireWire, high-speed port to your PC . With 40 times faster than USB 1.1 port, the USB 2.0 port of USB2-1394 supports data rates up to 480 Mbps. With 30 times more bandwidth than USB 1.1, the FireWire port of USB2-1394 supports data rate up to 400 Mbps. The card is an ideal choice for external storage devices, MP3 players, CDRs, CDRWs, DVDs, scanners, digital cameras, webcams, DV camcorders, networking and video devices, and all other USB & FireWire devices.

The USB 2.0 +FireWire Combo Card incorporates an intelligent USB 2.0 host controller designed by NEC Corp. With the addition of USB2-1394, you will add total four high-speed USB 2.0 ports to your computer while maintaining backward compatibility with USB 1.1 devices. The card can automatically detect the USB standard of each connected device, and works with the device at the correct speed.

The USB 2.0 PCI Card includes high-performance USB 2.0 drivers for Windows 98 SE, ME, 2000, Windows XP to optimize the performance of USB 2.0 ports.

The FireWire ports are supported by all the above mentioned operating systems. The OS will auto-detect the FireWire ports during installation, and installs the drivers automatically.

Windows 98 SE Driver Installation

During driver installation, Windows may ask for files that are located on the Windows 98/98SE CD. You will need to have Windows 98 / 98SE CD available. Some PC's have the Windows CAB files already archived on the hard drive and will not require the actual CD.

1. On booting up the computer, the "Add New Hardware Wizard" appears, and found new hardware of "NEC PCI to USB Open Host Controller". Click "Next" to continue.
2. Select "Search for the best driver for your device". Click "Next".
3. Uncheck all the boxes from the generated choices. Click "Next".
4. Windows has found an updated driver for this device. Click "Next". Then click "Next" again.
 5. Windows may ask for files located on the Windows 98SE CD. When asked, insert the CD to the CD-ROM drive.
6. The dialog shows "Windows has finished installing the software that your new hardware device requires". Click "Finish" to complete the installation of the first USB port.
 7. The New Hardware Found message will appear again for the installation of the second NEC PCI to USB Open Host Controller. Repeat steps 2-6 to continue installation.
 8. After you have installed the two NEC PCI to USB Open Host Controllers, Windows will find a "PCI Universal Serial Bus" device. Click "Next to continue".
9. Another dialog appears. Select "Search" and "Next".
10. Check "Specify a Location". Click on "Browse" button.
11. Go to the folder containing the USB 2.0 driver. Select "OK".
12. A dialog will appear with "Titan PCI to USB Enhanced Host Controller". Click "Next" to continue.

13. The “Windows driver file search for the device” dialog appears. Click “Next” to continue. An “Insert Disk” dialog appears. Click “OK”.
14. Click on “Browse” button, and go to the folder containing the USB 2.0 driver. Select “O.K.”
15. The “Add New Hardware Wizard” appears. Click “Finish”.
16. The installation has completed. Reboot your computer.

Windows ME Driver Installation

1. On booting up the computer, the “Add New Hardware Wizard” appears and Windows finds a “PCI Universal Serial Bus”. Select “Automatic search for a better driver (Recommended)”. Click “Next”.
2. Check the “CD-ROM Drives” box. Click “Next”.
3. Windows finds the driver. Click “Next”.
4. Windows has finished installing the software driver. Click “Finish”.
5. Windows will detect “NEC USB Open Host Controller (E13+)”, and installs the required driver automatically.
6. The installation is completed.

Windows 2000 Driver Installation

1. On booting up the computer, the “Welcome to the

2. **Found New Hardware Wizard**” appears,. Click **“Next”**.
2. The **“Install New Hardware Device Drivers”** appears. Check **“Search for suitable driver for my device (recommended)”**. Click **“Next”**.
3. Check **“Specify a Location”**, click **“Next”**.
4. Click on **“Browse”** button and go to the folder containing the USB 2.0 driver. Select **“Open”** and **“OK”**
5. Windows has finished installing the hardware for this device. Click **“Finish”** to complete the installation.
6. Reboot your computer to finish installation.

Windows XP Driver Installation

1. On booting up the computer, the **“Welcome to the Found New Hardware Wizard”** appears. Click **“Next”**.
2. The **“Install New Hardware Device Drivers”** appears. Check **“Search for suitable driver for my device (recommended)”**. Click **“Next”**.
3. Check **“Specify a Location”**, click **“Next”**.
4. Click on **“Browse”** button and go to the folder containing the USB 2.0 drivers. Select **“Open”** and **“OK”**
5. Click **“Continue Anyway”**.
6. Windows has finished installing the hardware for this device. Click **“Finish”** to complete the installation.
7. Reboot your computer to finish installation.

Checking Installation

You can now verify the installation by checking the **“Universal**

Serial Bus controllers” section of the “Device Manager” on the Desktop. (Go there by Start-Setting-Control Panel-System-Device Manager).

In Windows 98 SE, two “NEC PCI to USB Open Host Controller” strings and one “Titan PCI to USB Enhanced Host Controller” string under the “Universal Serial Bus controllers” are listed.

In Windows ME, two “NEC USB Open Host Controller (E13+)” strings and one “Titan PCI to USB Enhanced Host Controller” string under the “Universal Serial Bus controllers” are listed.

In Windows 2000/XP, two “NEC PCI to USB Open Host Controller” strings and one “Titan PCI to USB Enhanced Host Controller” string under the “Universal Serial Bus controllers” are listed.

If the card you installed is USB 2.0 + FireWire Combo Card (USB2-1394) , in addition to the above, in the “IEEE1394 Bus Host Controllers” section in “Device Manger”, you will find another new device “ PCI OHCI Compliant IEEE 1394 Host Controller” listed in 98SE, or “VIA OHCI Compliant IEEE 1394 Controller” listed in ME / Windows 2000 / XP.

Macintosh OS X Driver Installation

- **The USB 2.0 Driver for Mac OS X consists of a**

compressed image (.img) file. Double-click the file of USB2EHCI_v104.img, and Mac OS X will install the USB 2.0 driver for Mac OS X .

- The included USB2EHCI_v104.img driver is only for USB 2.0 PCI Cards. The USB 2.0 + FireWire Combo Card (USB2-1394) supports PC, but not for Mac installation.

Connecting USB Peripherals to USB Ports

The first time you install a new USB peripheral to USB port, you need to install the software driver provided by the USB peripheral. After installation, you need to repeat the driver installation by plugging the USB peripheral to the second USB port. If you only install the device to one USB port, your USB card may have problem in recognizing the device when next time you plug the USB device to the other USB port.

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