User Manual

Introduction

This NEC PCI-Express to USB 2.0 Host Controller card is compliant with the Universal Serial Bus Specification Revision 2.0 and Open Host Controller Interface Specification for low-speed (1.5Mbps) / full-speed (12Mbps) speed signaling and Enhanced Host Controller Interface Specification for high-speed signaling (480Mbps). It is an ideal platform for connecting to thousand or million of existing USB devices, such as, mice, printers, memory card readers, scanners, and anything you can think of

Features

- Using NEC USB 2.0 Host Controller chip
- Compliant with PCI-Express Revision 1.0
- 1-Lane (x1) PCI-Express with transfer rate 2.5Gb/s full duplex channel
- Compliant with Universal Serial Bus Specification Revision 2.0
- Compliant with Open Host Controller Interface Specification for USB Rev 1.0a
- Compliant with Enhanced Host Controller Interface Specification for USB
- Built-in 5V power regulation circuitry for USB devices. No extra power connection needed
- All downstream forcing ports can handle high-speed (480Mbps), full-speed (12Mbps), and low-speed (1.5Mbps) transaction
- Fully Plug & Play compliant
- Full support of real time dynamic insertion and removal of devices
- Supports all USB-compliant peripherals (e.g. keyboard, mouse, monitor, telephone, joystick, etc.)
- Driverless for Windows 2000, XP 32/64-bit, Server 2003 32/64-bit, Vista 32/64-bit, Server 2008 32/64-bit, Windows 7 32/64-bit, Linux & Mac OS X 10.4.x or above

WARNING

Before installing and activating the controller card, please make sure you have a complete backup of your existing data from hard drives. Manufacturer is not responsible for data loss due to abuse, misuse, or neglect. Should you have any installation problem, please contact your dealer for assistance.

Installing Windows drivers for the Controller Card

Before the installation of the controller card, let us make the following assumptions:

1. The end users must have the basic knowledge of installing an internal device and its driver to a PC. If they are not sure about their abilities or have any queries, please call their local dealers immediately, or find somebody who are experienced and qualified for assistance.

2. The computer has been properly installed with our supported Windows operating system

Installing the controller card into the computer

1. Turn off your computer and all external devices connect to it.

2. Disconnect your computer from the power sources.

3. Open the computer case. Refer to your computer user manual for more details.

4. Find an available PCI-Express slot and remove the slot bracket. Save the bracket screw for later use.

5. Align the controller card horizontally with respect to the slot and insert it into the slot firmly and evenly. Take care not to force it into the slot. Once you have properly positioned the controller card into the slot, fasten it to the computer case with the screw you have just saved.

6. Connect the system to the devices by inserting the USB cable (not included in the package) into the USB connectors on the controller card

7. Secure the computer case and switch on your computer.

Installing Windows driver for the controller card

1. Turn on the computer

2. Once Windows is running, a new controller card is detected.

3. Windows will load its own driver for the USB controller card automatically.

4. Wait for Windows starts completely and the USB ports are ready to use.

Notice:

Most OS have their own driver for the USB controller card, but they might not have the driver for the external devices connecting to the USB controller card. Therefore be sure the driver for the external devices is available before installing.

Checking the status of the installed driver

1. Right click on the icon of **My Computer** and choose **Properties**

2. Choose **Device Manager**

3. Left click on the "+" sign of the Universal Serial Bus controllers

4. The following device should be shown
   NEC PCI to USB Open Host Controller
   Standard Enhanced PCI to USB Host Controller
   USB 2.0 Root Hub

5. Right click on the device above and choose **Properties**

6. Check the **Device status** in the **General** window. The following should be shown
   This device is working properly

Notice:

When the device driver is properly installed, there will not be any question and exclamation mark shown against this device. If yes, check the following

1. The driver for the controller card is installed straightly according to the procedure listed above
2. If an older version driver is installed previously
3. The driver for a similar product is installed
4. In the worst case, the controller card is defective. Please contact your local dealer or distributor immediately

FCC Statement:

This device 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.

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.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.