

User Manual

Introduction

This NEC PCI 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).

Features

- Using NEC D720101 PCI to USB 2.0 Host Controller chip
- Compliant with Universal Serial Bus Specification Revision 2.0
- Compliant with Open Host Controller Interface (OHCI) Specification for USB Rev 1.0a
- Compliant with Enhanced Host Controller Interface (EHCI) Specification Rev 1.0
- 32-bit 33MHz Host Interface compliant to PCI Specification release 2.2
- Supports PCI-Bus Power Management Interface Specification release 1.1
- PCI bus-master access
- PCI multi-function device consists of two OHCI Host Controller cores for full-speed / low-speed signaling and one EHCI Host Controller cores for high-speed signaling.
- All downstream forcing ports can handle high-speed (480Mbps), full-speed (12Mbps), and low-speed (1.5Mbps) transaction
- Provide up to 5 independent type 'A' downstream ports for USB device connections
- Full support of real time dynamic insertion and removal of the devices
- Supports all USB-compliant peripherals (e.g. keyboard, mouse, monitor, telephone, joystick, etc.)
- Driver support for Win98/98SE/ME/2000/XP/Server 2003/XP 64-bit/Vista operating system

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 the NEC PCI to USB 2.0 Host 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 NEC PCI to USB 2.0 Host Controller card into your computer is a simple process. Please follow these steps:

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 slot and remove the slot bracket. Save the bracket screw for later use.
5. Align the NEC PCI to USB 2.0 Host Controller card horizontally with respect to the PCI 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 NEC PCI to USB 2.0 Host Controller card into the slot, fasten it to the computer case with the bracket screw you have saved.
- Secure the computer case and switch on your computer.

Share Ports of the USB Controller Card

The external USB connector CN5, the internal USB connector CN6, and the internal USB pin header J1, share the same USB signaling. Therefore the USB device can be connected to only one of these ports. The ports with no connection must be left unconnected, even a cable without any device attached will cease the device from working immediately in the other end of the same USB signaling.

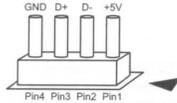


Fig 1: Internal USB pin header

Installing Windows 2000(SP4 or above)/XP/Server 2003/XP 64-bit/Vista driver

For the Windows listed above, the Windows do not need any external driver for the NEC PCI to USB 2.0 Host Controller card. They will load their own driver, but when they ask for your permission to or whether to continue to install the driver in any circumstances, always give an answer of continuing or confirming to install this driver. Follow the on-screen instructions until the whole driver is completely installed.

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 installation.

Installing Windows 98SE/ME driver

- If you do not have a driver CD, read the following section
- Once the Windows start, it will detect the NEC USB Open Host Controller is installed in the system and ask for its driver.
- Browse to the follow location on the CD for the driver:
`D:\NECuPD720102\Win98SE_ME`
Assuming your CDROM drive is Drive D
- Follow the on-screen instructions until the whole driver is installed completely
- Once the driver is installed, you might need to restart your Windows.

If the product does not accompany a CD in the package or somehow the CD is not available

As it has been said above, the Windows 2000, XP, Server 2003, XP 64-bit, Vista do not need any external driver, they will install their own built-in driver automatically for the controller card. For Windows ME and 98SE, the driver can be downloaded on the following website

<http://www.drivers-download.com>

Search the driver with the download code of DL-0180302

You might always look for the most up-to-day driver of these chipsets on the same website.