User Manual

INTRODUCTION

This PCI-Express to USB 2.0 Host Controller card is compliant with Universal Serial Bus Specification Revision 2.0 and Open Host Controller Interface Specification for Low-Speed (1.5Mbps) / Full-Speed (12Mbps) signaling and Enhanced Host Controller Interface Specification for High-Speed (480Mbps) signaling. It is an ideal platform for connecting any existing USB devices in the market including mice, printers, memory card readers, scanners etc.

FEATURES AND SPECIFICATION

- Using Powerful NEC USB 2.0 Host Controller chip
- Complies with PCI-Express Base Specification Revision 1.1 with data transfer rate up to 2.5Gbps
- Complies with Universal Serial Bus Specification Revision 2.0
- Complies with Open Host Controller Interface Specification for USB Revision 1.0a
- Complies with Enhanced Host Controller Interface Specification for USB Revision 1.0
- External power connector for USB bus power (Available on special models)
- All downstream ports can handle High-Speed (480Mbps), Full-Speed (12Mbps), and Low-Speed (1.5Mbps) transaction
- Fully Plug & Play supported
- 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, Linux & Mac OS

WARNING

Before installing and activating this controller card, please make sure you have a complete backup of your existing data from your 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.

HARDWARE INSTALLATION

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

1. The user 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 one of the supported 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. Locate 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. Some models of this controller card come with an internal 4-pin USB header. You can ignore this step if your controller card does not have this internal pin header. The internal 4-pin USB header (J1) shared the same connections with USB port (CN1) on the controller card. If you use the

internal 4-Pin USB Header (J1), you can not use USB port (CN1) and vice versa. Please refer to the pin assignments for the internal 4-Pin USB Header (J1) below. The white triangle marking on the controller card indicates USB 5V.

USB 5V ○
D- ○
D+ ○
GND ○

7. Some models of this controller card come with a 4-pin power socket. Connect the 4-pin power socket (CN8) to the PC power supply.
8. Secure the computer case and switch on your computer.

Installing Windows driver for the controller card
All the supported Windows OS has their own driver for this controller card but make sure you have updated all the latest Service Pack for your Windows OS.

1. Turn on the computer
2. Once Windows is up and running, it will automatically detect a new controller card and load its own driver for this controller card.
3. Wait until Windows complete installing the driver. Once installation is completed, the USB ports are ready to use. Before connecting the external devices to the controller card, make sure the driver for the external devices are available for installation.

Checking the status of the installed driver:
1. Right click on the **My Computer** icon and choose **Properties**
2. Choose **Device Manager**
3. Left click on the "+" sign of the **Universal Serial Bus controllers**
4. The following devices 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 these devices 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 drivers are properly installed, there should not be any question mark or exclamation mark showing against the three devices mentioned above. 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

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