

Serial-ATA PCI Express Host Controller



Introduction

PCI Express is the next revolution in I/O interconnects standards that will deliver the bandwidth and features required by PCs, consumer electronics and communications devices. The architecture is a cost-effective, low-pin count, and point-to-point technologies offering maximum bandwidth, reducing cost and design complexity and enabling smaller form factors. This card is the best solution for Serial-ATA PCI Express and the interface has potential transfer rates of 2.5 Gbps using Serial-ATA II host card is a single-chip, one-lane PCI Express to 1 internal or 1 External port Serial-ATA (SATA) II host controller that brings server-class features to the desktop.

Serial-ATA II host card equips JMicron JMB360 chipset supporting all Serial ATA II features, including 3.0 Gbps SATA II transfer speeds, Native Command Queuing (NCQ), port multipliers with FIS-based switching, programmable output signal swing strengths for longer external cables or extended backplanes, hot plugging, enclosure management and ATAPI device support.

Feature

- Designed to meet PCI Express Base Specification Revision 1.1.
- Single-lane (or x1) PCI Express throughput supports rates of 2.5 Gbps.
- Compliant with Serial-ATA Host Controller Interface Specification 2.0
- Supports data transfer rates of 3.0G bps.
- Supports eSATA specification (by different products).
- Support Microsoft Windows 2000, XP, Sever2003 and XP 64bit.
- Hot-swapping feature allows you to connect/disconnect devices without powering down the system.

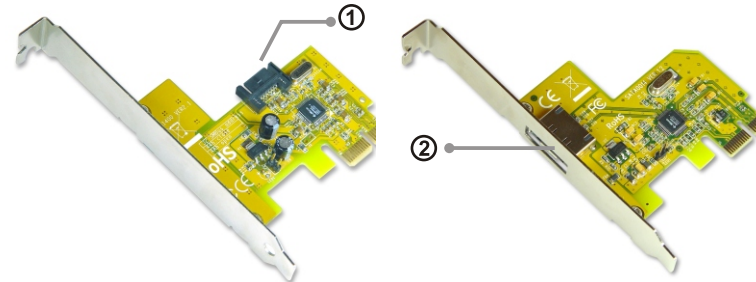
Specifications

- Type :One-lane PCI-Express tp Serial-ATAII Host Card
- Chipset : Jmicron JMB360
- Bus interface : PCI-Express x1
- Interface : SATA II 3.0Gpbs
- No . Ports : SATA or eSATA connector (different product)
- Transfer rate : 3.0Gbps
- Support Microsoft Windows 2000, XP, Sever2003 and XP 64bit operation system.

Package List

- SATA PCI-E Host Card
- USER Manual
- SATA Cable (Option)
- CD-Driver

Hardware Guide



- SATA II Internal port
- eSATA External port

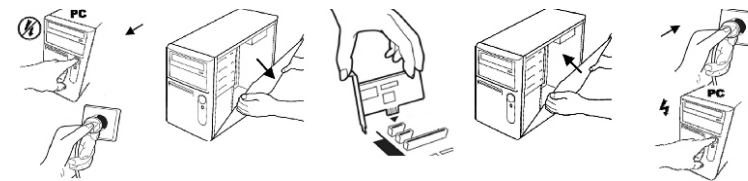
System Requirement

- Pentium-class computer with one available x1, x4, x8 or x16 PCI Express slot.
- Microsoft Windows 2000, XP and Sevrrer2003 operation system.

Hardware Installation

Follow the instruction given below to install the PCI Exprss Card:

- Turn your computer off and remove the power plug from the plug socket.
- Remove the cover from the computer case.
- Remove the metal cover plate on the rear of a free PCI Express slot.
- Insert the card into one free PCI Express slot and screw it firmly on the bracket side.
- Place the cover back onto the computer.
- Insert the plug into the plug socket.



Driver Installation

Once the Windows 2000, XP and 2003 startup, SATAII PCI Express card will be automatically find new device and must install driver. In order to ensure the better performance, please install driver as below steps:

- Please insert the CD driver into your CD/DVD ROM.
- Click the **PATH** from your CD/DVD device
: **\PCI-Express\Serial-ATA\1CH\Windows2K&XP&2003\Driver**
- Follow the onscreen installation step.

Driver Installation for windows2K / XP and 2003

- Choose "No this time" and click "Next".
- Click the " Next " to go next ste
- Choose the install driver by automatically or advanced (ex: advanced)
- Click the " Next " to go next step .



- Click the "browse " to choose the driver PATH

\PCI-Express\Serial-ATA\1CH\Windows2K&XP&2003\Driver

- Click the " Next " to go next step
- Click the "Continue Anyway "



- Click the " Finish " to finish the driver installation steps. Go to the "**Device Manager**" tab in System Properties, which you access from the Windows Control Panel. You should see an entry for the driver you installed under the " JMicron JMB36X RAID Controller " item.



IEEE 1394b PCI Express Host Controller

● Troubleshooting

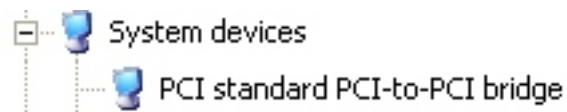
■ If the card and devices connected to the computer do not seem to be working properly, please perform following basic troubleshooting steps:

1. Check that all cables are correct and securely connected.
2. Make sure the devices are turned on.
3. Make sure the devices are getting the power they require.
4. If a powered repeater is connected, make sure it is turned on.
5. If the devices are connected in a daisy chain and you have problems after disconnecting a device, please reconnect the device. Normally, the device will be enabled. If not, please restart the computer and see if the problem clears up.
6. Make sure there is no problem with the card installation.

■ The computer can NOT detect the IEEE 1394 PCI Express card

1. Make sure that the PCI Express cards is correctly plugged into the PCI Express slot; if not, turn off the computer and plug it in again
2. If the PCI Express card is plugged in correctly, see if the golden connectors on the card are clean; if not, clean the connector surface.
3. If still NOT, please change another PCI Express slot on your motherboard.
4. Please entry "Device Manager" affirming "PCI standard PCI-to-PCI bridge" message appears in the sub-tree of "System device".

Start > Controller Panel > System > Device Manager



If you can not find this information in the device manager, please upgrade your motherboard BIOS to the latest version. If it still not work, contact your motherboard vendor asking the advanced supporting for BIOS updated.

5. The board itself might be defective. You can try another motherboard testing IEEE 1394 PCI Express card working or not.

■ I can NOT install IEEE 1394 PCI Express card driver properly.

IEEE1394 driver bounds with Microsoft Windows system, please upgrade the latest "Service Packs" on your software vendor website, for example <http://www.microsoft.com>. We suggest updating your operation system to Windows 2000 service pack 4, Windows XP service pack 2, and Windows Sever2003 service pack1 or later version.

■ Computer failed to start after inserting the IEEE 1394 PCI Express card.

Turn off the computer, remove the IEEE 1394 PCI Express card, and try to restart the computer. If the computer starts successfully, then the IEEE1394 PCI Express card might be defective or not plugged into PCI Express slot properly. Please contact the dealer you bought the card from or turn off the computer and plug it in again.

■ How to deal with there is a yellow exclamation point on Texas Instruments OHCI IEEE 1394 Host controller.

This exclamation point usually means there is a resource conflict between the IEEE 1394 PCI Express card and another card in your system. Shutdown your computer and move the card to another available slot. If you do not have any free slots, swap slots with another card in your system. Restart your computer. Windows will then re-configure itself and re-assign resources. Check your device manager again. If the exclamation point is still there then repeat the process until it no longer appears.

■ Why no sound is obtained from the camera in video software?

Connect the camera's sound output to the "LINE-IN" on your sound card.

■ Digital video device failed to work.

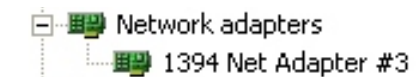
1. If the connection between your computer and DV devices terminates (e.g. the error message starts with can NOT initialize...), try turning the DV device off and then turning on again, or disconnect the cable between the PC and the device and then reconnects it again!!
2. You may need to restart your system. Turn off computer and DV device, wait several seconds, turn on your computer, and then turn on your DV or tape deck when your computer has completed the star-up process.
3. If the device needs an external power supply, connect the power source. If it does NOT, please check the power requirements for device-they must not exceed the 12-Volt and 500mA specifications. Or you can plug the 4Pin Power connector on the board to provide your device stable power output.

■ I get choppy sound or video that does not appear smooth:

Check the amount of RAM in your system. The recommended amount is 256MB or higher, preferably 512MB or more. Editing DV takes up large amounts of disk space. As your hard drive fills up the slower it performs. Try to free up space on your hard drive by deleting unneeded programs and files. Optimized your system.

■ How to use IEEE 1394 network in Windows XP ?

A '1394 Net Adapter' will also be installed automatically in Windows XP. This can be used to make a fast network connection between two Windows XP systems via a FireWire connection. (Please check the device manager)



If you have two computers which operate Windows XP (for example, a PC and a NB) and both computers have a FireWire connection, then you can make a direct, fast network connection between these computers via one FireWire cable.

Note: This network connection cannot be used together with an existing LAN network and it works under Microsoft Windows XP and Sever 2003 operation system only.

Follow the instructions as below:

1. Connect the FireWire cable to the FireWire port on both computers.
2. Start Windows XP on both systems.
3. Click on "Start > All Programs > Accessories > Communications > Network Setup Wizard" to start the network configuration program.
4. Follow the on-screen instructions.
5. Select the '1394 Net Adapter' as the network connection.
6. Enter the network settings which you require. For example, you can make a shared Internet connection if one computer has a modem.
7. Follow the Wizard on both computers.
8. After completing the Wizard, click on "Start > Connect to > Show All Connections". If the card has been installed correctly, the FireWire (IEEE 1394) network will be displayed here.

See the Windows XP or Sever2003 Help function for detailed information on how to create and manage the network connection.

