Gigabit Ethernet PCIe Card

User Manual

Ver. 2.00

Contents:

Chapter 1: Introduction

1.1 Product Introduction

PCI Express is the next revolution in I/O interconnect 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 Gigabit Ethernet PCI Express and the interface has a potential transfer rates of 2.5 Gbps using a single-lane (or x1) PCI Express link.

This card is a 10/100/1000M Gigabit Ethernet PCI Express Card, which is specifically designed to plug into a desktop equipped with an available x1, x4, x8 or x16 PCI Express slot. It provides throughput and connectivity at Gigabit speeds up to 1000 Mbps (1Gbps) raw bandwidth, this is 100 times faster than the original Ethernet, yet is compatible with existing Ethernet. It comes with a comprehensive of software drives for all desktop operating systems, including Microsoft Windows, Linux, and Mac OS X.

1.2 Features

- Designed to meet PCI Express Specification Revision 1.0a
- Single-lane (or x1) PCI Express throughput supports rate of 2.5Gbps
- Fully Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- 10/100/1000M data auto-negotiation
- LEDs indicate the status of data transmission
- Support Wake On Lan (WOL) power management (optional)
- Feature full duplex mode that doubles the network connections speed
- Support Windows XP/Vista/7 (32/64 bit), Mac OS X 10.5 or later

1.3 System Requirements

- Windows® XP/Vista/7 (32/64 bit), Mac OS X 10.5 or later
- PCI Express-enabled system with an available PCI Express slot

1.4 Package Contents

- 1 x Gigabit Ethernet PCIe Card

- 1 x Driver CD
- 1 x User Manual

Note: Contents may vary depending on country/market.

Chapter 2: Getting Started

2.1 Hardware Installation

1. Turn off the power to your computer.
2. Unplug the power cord and remove your computer's cover.
3. Remove the slot bracket from an available PCIe slot.
4. To install the card, carefully align the card's bus connector with the selected PCIe slot on the motherboard. Push the board down firmly.
5. Replace the slot bracket's holding screw to secure the card.
6. Replace the computer cover and reconnect the power cord.

2.2 Driver Installation

The following section shows you how to install Gigabit Ethernet PCIe

Card driver on different operating systems.

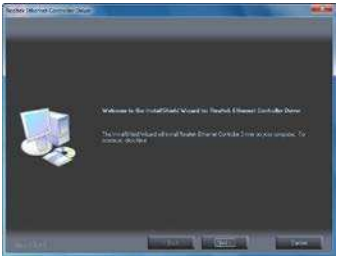
2.2.1 Installation for Windows XP/Vista/7

1. Insert the provided CD into your disk drive. The CD-ROM will start automatically. The following screen will show up and please click **“Install Driver”**.

Note: If the install program doesn’t run automatically, please locate and double-click on the **Autorun.exe** file in the CD to launch the install program.

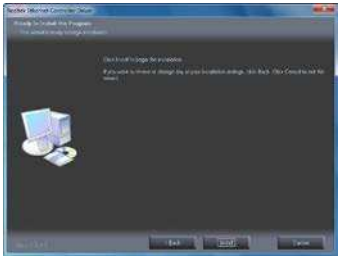
2. Please click **“PCIe 1000M”** to start the installation.

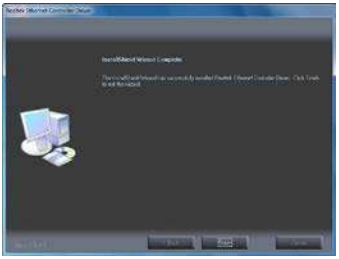
3. Click **“Next”** to continue.



4. Click **“Install”** to continue.

   Click **“Finish”** to end of the driver installation steps.





2.2.2 Installation for Mac OS X 10.5.x/10.6.x/10.7.x

1. Insert the provided CD into your CD-ROM drive.
2. Double-click the “Ethernet Adapter” disc icon, double-click “Drivers” folder.

3. Double-click “PCIe/ExpressCard 100/1000M” folder, and then double click the “For Mac OS X 10.4/10.5.pkg” file (For Mac OS X 10.6 OS, please double click “For Mac OS X 10.6.mpkg” file; For Mac OS X 10.7 OS, please double click “For Mac OS X 10.7.mpkg” file) to launch the installer.

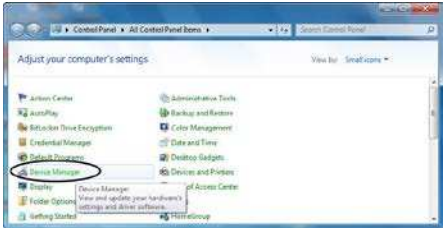
4. Follow the instructions on screen to install the driver. After driver installation is complete, you must restart your computer.

2.3 Hardware Verify

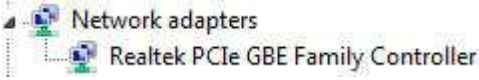
2.3.1 Verifying for Windows XP/Vista/7

1. Click on the **“Device Manager”** tab in the Windows Control Panel.

   Start > Control Panel > Device Manager

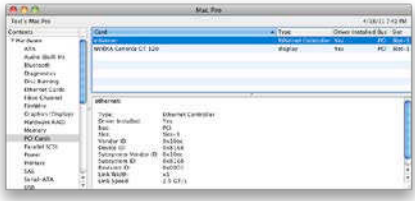


2. Entry **“Network adapters”** item, and you can read **“Realtek PCIe GBE Family Controller”** in the Device Manager.



2.3.2 Verifying for Mac OS X 10.5.x/10.6.x/10.7.x

1. Choose About this Mac from the Apple menu.
2. Click on More Info…
3. In the Contents sidebar select PCI Cards from the Hardware section.
4. Scroll the list to reveal the Gigabit Ethernet PCIe Card information



Chapter 3: Troubleshooting Tips

- The computer can NOT detect the Gigabit Ethernet PCIe Card

1. Make sure that the PCI Express card is correctly plugged into the PCI Express slot; if not, turn off the computer and plug it 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 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 Gigabit Ethernet PCIe Card working or not.

- Computer failed to start after inserting the Gigabit Ethernet PCIe Card

Turn off the computer, remove the Gigabit Ethernet PCIe Card, and try to restart the computer. If the computer starts successfully, it means that the card has not been inserted into the PCI Express slot correctly. Please clean golden figure by rubber firstly, then change another PCI Express slot.

- I can not use Gigabit Ethernet transfer speed

1. Please affirm your Ethernet environment supporting Gigabit structure.
2. Please use CAT 6 UTP/STP cable.