



**10/100/1000Mbps PCIe LAN Card RC401-EX**  
User Manual



# 1. Introduction

This PCI Express Host Adapter (or ExpressCard) can upgrade your desktop or Notebook computer to have RJ-45 Port and support Gigabit Ethernet 10Mbps (half-duplex), Ethernet 20Mbps (full-duplex), Fast Ethernet 100Mbps (half-duplex), Fast Ethernet 200Mbps (full-duplex), Gigabit 1000Mbps (full-duplex) and Gigabit 2000Mbps (full-duplex) transfer rate. It comes with drivers for Windows.

## 1.1. Features

### 1.1.1. PCIe & ExpressCard Interface

- Compliant with PCI Express Specification, revision 1.0a.
- lane 2.5Gbps PCI Express host interface.
- Low Profile PCI Form Factor (for PCIe Host only).

### 1.1.2. 1000Base-T Gigabit Ethernet

- Fully compliant with IEEE 802.3 (10Base-T Ethernet), IEEE 802.3u (100Base-TX Fast Ethernet), IEEE 802.3z (1000Base-T Gigabit Ethernet).
- Supports Ethernet 10Mbps (half-duplex), Ethernet 20Mbps (full-duplex), Fast Ethernet 100Mbps (half-duplex), Fast Ethernet 200Mbps (full-duplex), Gigabit 1000Mbps (full-duplex) and Gigabit 2000Mbps (full-duplex).
- RJ-45 Port offer high speed transmission over CAT 5 UTP cable.
- Green LED indicator for 1000 Mbps.
- Yellow LED indicator on PCI-e card for Link / ACT (Tx / Rx) or Red LED indicator on Notebook ExpressCard for Link / ACT (Tx / Rx).
- Auto-Negotiation with Next page capability.
- Supports pair swap/polarity/skew correction.
- Crossover Detection & Auto-Correction.
- Wake-on-LAN and remote wake-up support.
- Microsoft® NDIS5 Checksum Offload (IP, TCP, UDP) and largesend offload support.
- Supports Full Duplex flow control (IEEE 802.3x).
- Supports IEEE 802.1Q VLAN tagging.
- 8K Transmit FIFO and 64K Receive FIFO support.
- Supports power down/link down power saving.
- Compatible with Windows 2000, 2003, XP and VISTA

## 1.2. Package Contents

- Gigabit LAN Host Adapter
- This User's Manual
- Driver CD
- Low profile bracket

## 2. Software Installation

### 2.1. Windows 2000 installation

1. Insert Host Card into an available PCIe slot (or ExpressCard slot).
2. Windows will display the Found New Hardware Wizard, "**Ethernet controller**", Click "**Next**".
3. Select "**Search for a suitable driver for my device (Recommended)**" and Click "**Next**", and make sure the Driver CD in your CD-ROM/DVD.
4. Under "**Specify a locations**" insure that is only checked, and click "**Next**".
5. Type in E:\ (If your CD-ROM/DVD is E:\) and click "**Browse**".
6. Points specify a location, example **E:\1000\_GigaNet\Marvell\_Yukon\ Windows \WIN2000**, and click "**OPEN**" then "**OK**".
7. When the wizard indicates that it found a driver for the device click "**Next**". Then click "**Finish**".

### 2.2. Windows 2003 Server installation

1. Insert Host Card into an available PCIe slot (or ExpressCard slot).
2. Windows will display the Found New Hardware Wizard, "**Ethernet controller**". Select "**Install from a list or specific location (Advanced)**", and click "**Next**", and make sure the Driver CD is in your CD-ROM/DVD.
3. Select "**Search for the best driver in these locations**", and check "**Include this location in the search:**" uncheck the other boxes.
4. Type in E:\ (If your CD-ROM/DVD is E:\) and click "**Browse**".
5. Points specify a location, example **E:\1000\_GigaNet\ Marvell\_Yukon\ Windows \WIN2003**, and click "**OPEN**" then "**OK**".
6. When the wizard indicates that it found a driver for the device click "**Next**". Then click "**Finish**".

### 2.3. Windows XP Server 32bit installation

1. Insert Host Card into an available PCIe slot (or ExpressCard slot).
2. Windows will display the Found New Hardware Wizard, "**Ethernet controller**". Select "**Install from a list or specific location (Advanced)**", and click "**Next**", and make sure the Driver CD is in your CD-ROM/DVD.
3. Select "**Search for the best driver in these locations**", and check "**Include this location in the search:**" uncheck

the other boxes.

4. Type in E:\ (If your CD-ROM/DVD is E:\) and click “**Browse**”.
5. Points specify a location, example **E:\1000\_GigaNet\ Marvell\_Yukon\ Windows \WINXP**, and click “**OPEN**” then “**OK**”.
6. When the wizard indicates that it found a driver for the device click “**Next**”. Then click “**Finish**”.

#### 2.4. Windows XP Server 64bit installation

1. Insert Host Card into an available PCIe slot (or ExpressCard slot).
2. Windows will display the Found New Hardware Wizard, “**Ethernet controller**”. Select “**Install from a list or specific location (Advanced)**”, and click “**Next**”, and make sure the Driver CD is in your CD-ROM/DVD.
3. Select “**Search for the best driver in these locations**”, and check “**Include this location in the search:**” uncheck the other boxes.
4. Type in E:\ (If your CD-ROM/DVD is E:\) and click “**Browse**”.
5. Points specify a location, example **E:\1000\_GigaNet\Marvell\_Yukon\64bit\_Windows**, and click “**OPEN**” then “**OK**”.
6. When the wizard indicates that it found a driver for the device click “**Next**”. Then click “**Finish**”.

#### 2.5. Windows VISTA 32/64bit installation

1. Insert Host Card into an available PCIe slot (or ExpressCard slot).
2. Windows will display the Found New Hardware Wizard.
3. Windows VISTA will find the most suitable driver for RC401-EX. There is NO NEED of driver disk.

#### 2.6. Verifying The installation under Windows 2000, 2003, XP and VISTA

Follow the instructions in this section to verify that the controller was installed correctly.

1. Right click on '**My Computer**' icon, select '**Properties**', left click on '**Hardware**' tab, and then on '**Device Manager**' button.
2. Double click on “**Network adapters**”, If there is no yellow “**!**” or “**?**” in front of “ **Marvell Yukon 88E8053 PCI-e ASF Gigabit Ethernet Controller** “ the driver has started correctly.

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