# PCIe 2-Port 2.5G 4-Speed Multi-Gigabit Network Adapter

## User Manual

**Ver. 1.00**

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# Chapter 1: Introduction

## *1.1 Product Introduction*

The PCIe 2.5G 2-Port Network Adapter supports data rate up to 2.5Gbps. It will increase business efficiency by increasing the network speed and greatly reduce file transfer time between networked devices, where video streaming over the network is becoming commonplace.

## *1.2 Features*

- Supports PCI Express 2.0
- Supports 10/100/1000/2500 Mbps Ethernet
- Supports WOL
- Fully Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- LEDs indicate the status of including Link/Activity
- 16K Jumbo Frames

## *1.3 Requirements*

Hardware

The following system specs are recommended minimum

- PCIe slot: Available 4-Lanes PCI-Express slot gen 2.0 or later
- Processor: Quad Core 3.0GHz or higher
- RAM: 4GB memory or higher

Software

Operating systems supported are (both 32 and 64 bits)

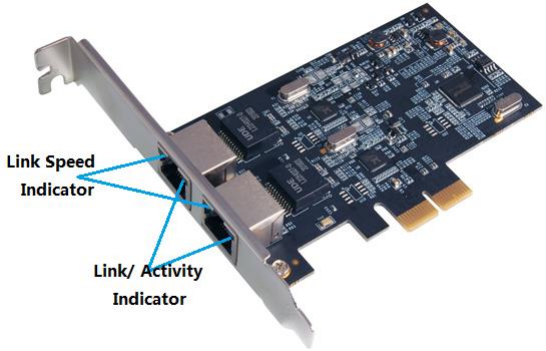
- Windows 7/8.x/10
- Windows Server 2008 R2/2012R2/2016
- Linux 4.x or later

## *1.4 Package Contents*

- 1 x PCIe 2-Port 2.5G 4-Speed Multi-Gigabit Network Adapter
- 1 x User Manual

# Chapter 2: Getting Started

## *2.1 Hardware Layout*




**Link/Activity Indicator:**

- When the LED is off, there is no link between the PCIe 2-Port 2.5G 4-Speed Multi-Gigabit Network Card and the network
- When the LED is on, a link is established, but there is no traffic on the network
- When the LED is flashing, there is traffic on the network to which the PCIe 2-Port 2.5G 4-Speed Multi-Gigabit Network

Card is connected

**Link Speed Indicator:**

- Orange: The LED indicators lights orange when a 2.5 Gbps device is connected to the adapter.
- Green: The LED indicator lights green when a 10Mbps/100Mbps/1Gbps device is connected to the adapter.

## *2.2 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. Secure the computer cover and reconnect the power cord.

## *2.3 Getting software driver*

Please follow below instructions to download the driver manually.

1. Navigate to www.sunrichtech.com.hk and enter ordering code (N-651) in the search field.
2. Click the "Manual & Download" tab.
3. Click "Download Drivers" and select the driver that matches system OS, download will begin.
4. Extract the content of the downloaded file into a folder for driver installation.

### 2.3.1 Installation for Windows

1. Extract the compressed driver source file to a certain directory.
2. Find and run “setup.exe”.
3. Follow the prompts to install the driver.

## 2.3.2 Installation for Linux

1. Extract the compressed driver source file to a certain directory by the following command: (Please copy the driver file "tar xf r8xx-x.xxx.xx.zip" from the download driver folder to a certain folder on hard drive)

   # tar xf r8xx-x.xxx.xx.zip

2. Now, the driver source files should be extracted under the current directory. Execute the following command to compile the driver:

   # ./autorun.sh

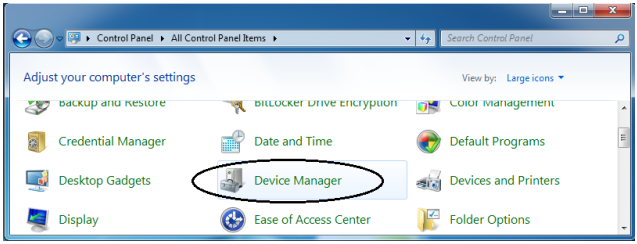
3. Please restart the computer after the driver installation is completed

## 2.4 Verifying the installation

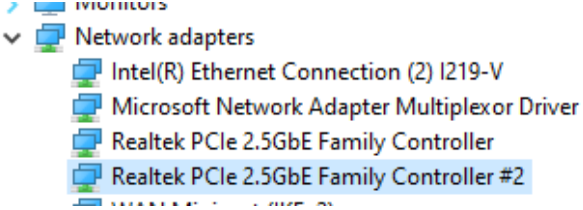
### 2.4.1 Verifying for Windows

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

   **Start > Control Panel > Device Manager**




2. Expand **"Network adapters"**, and you can read **"Realtek PCIe 2.5GbE Family Controller"** in the Device Manager.



## 2.4.2 Verifying for Linux

1. You can check whether the driver is loading by using following commands:

   # lsmod | grep r8xx

   # ifconfig –a

   If there is a device name, ethX, shown on the monitor, the linux driver is loaded. Then, you can use the following command to activate the ethX.

   # ifconfig ethX up, where X=0,1,2,…