PCIe 2-Port 10G 6-Speed Multi-Gigabit Network Adapter

User Manual

Ver. 1.00

Contents:

Chapter 1: Introduction

1.1 Product Introduction

This card is a high-performance, 2 ports, 6-speed, 10 Gigabit Adapter designed for low-power, low-cost connectivity required by application servers, high-end workstations and personal computers. It delivers up to 10 Gbps network connectivity speed through 100m of Cat 6a cabling. It also supports up to 5 Gbps network connectivity speed on legacy Cat 5e or Cat 6 cabling.

1.2 Features

- Support 6-Speed 10Gb/5Gb/2.5Gb/1Gb/100Mb/10Mb auto- negotiation
- PCI Express 3.0 x4
- Compliant with IEEE 802.3bz, 802.3an
- Energy Efficient Ethernet (EEE)
- Up to 16K Jumbo Frames
- IP, TCP, UDP checksum offload

- OS Support: Windows 8.x, 10, 11 (32-bit/64-bit); Linux kernel 3.10 or later
- Support WOL

1.3 Requirements

Hardware

The following system specs are recommended minimum

- PCIe slot: Available 4-Lanes PCI-Express slot Gen 4, Gen 3 or Gen 2
- Processor: Quad Core 3.0GHz or higher
- RAM: 4GB memory or higher

Software

Operating systems supported are (both 32 and 64 bits)

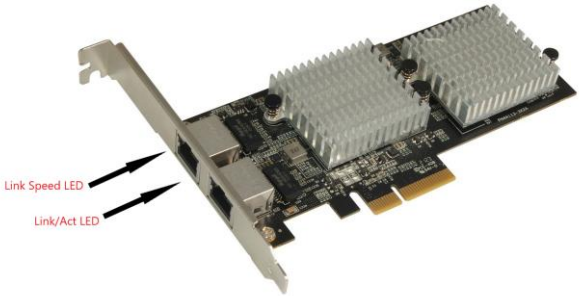
- Windows 8.x, 10, 11
- Linux 3.10 or later

1.4 Package Contents

- 1 x PCIe 2- Port 10G 6-Speed Multi-Gigabit Network Adapter
- 1 x User Manual

Chapter 2: Getting Started

2.1 Hardware Layout



There are two LEDs next to either side of the Ethernet port on the network card.

LED	Description
Link Speed LED	Indicates Link speed: • Solid Green = 10 Gbps • Solid Amber = 5, 2.5, 1 Gbps or 100, 10 Mbps
Link /Activity LED	Indicates Network Card Activity: • Solid Green = Network port is connected • Flashing Green = Network port is active

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 Driver Installation

The following section shows you how to install PCIe 10G 6-Speed Multi-Gigabit Network Adapter driver on different operating systems.

2.3.1 Installation for Windows

1. Login URL http://www.sunrichtech.com.hk/
2. Search N-790, download the driver.
3. Follow the on-screen instructions to finish installing the driver.

2.3.2 Installation for Linux

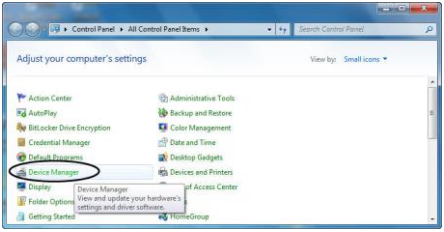
1. Login URL http://www.sunrichtech.com.hk/
2. Search N-790, download the driver.
3. Follow the Readme.txt which is in the driver folder to finish installing the driver.

2.4 Verifying the installation

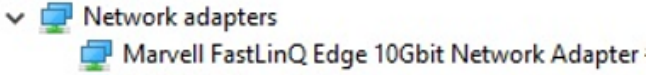
2.4.1 Verifying for Windows

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

Start > Control Panel > Device Manager



2. Expand **"Network adapters"** item, and you can read **"Marvell FastLinQ Edge 10Gbit Network Adapter"** in the Device Manager.



2.4.2 Verifying for Linux

1. Verify ethernet interface appears:

   ifconfig

   If no new interface appears, check dmesg output.

2. Assign an IP address to the interface by entering the following, where X is the PCIe interface number:

   ifconfig enpXs0 <IP_address> netmask <netmask>

3. Verify that the interface works. Enter the following, where <IP_address> is the IP address for another machine on the same subnet as the interface that is being tested:

   ping <IP_address>