PCIe 1-Port Gigabit SFP Network Adapter

User Manual

Ver. 1.00

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Chapter 1: Introduction

1.1 Product Introduction

This PCIe 1G SFP Network Adapter is a cost-effective solution that delivers fast and reliable 1 Gbps network access at longer distances than copper-based networks. Using the SFP transceiver of your choice, you can connect your PCI Express-based server or workstation directly to your 1G fiber optic network.

1.2 Features

- Supports common 1G SFP optical and Direct Attached Copper modules
- EEE (Energy Efficient Ethernet)
- Up to 9.5K Jumbo Frames
- IP, TCP and UPD checksum offloading (IPv4, IPv6) capabilities
- Designed to meet PCI Express Specification Revision 2.1
- One lane (x1) PCI Express compatible with x4, x8 and x16 PCI Express slots
- IEEE 802.1Q Tagged VLAN
- Supports Preboot eXecution Environment (PXE)

1.3 Requirements

Hardware

The following system specs are recommended minimum

- PCIe slot: Available 1-Lane PCI-Express slot Gen 2.0 or later
- Processor: Quad Core 3.0GHz or higher
- RAM: 4GB memory or higher

Software

Operating systems supported (32/64 bits)

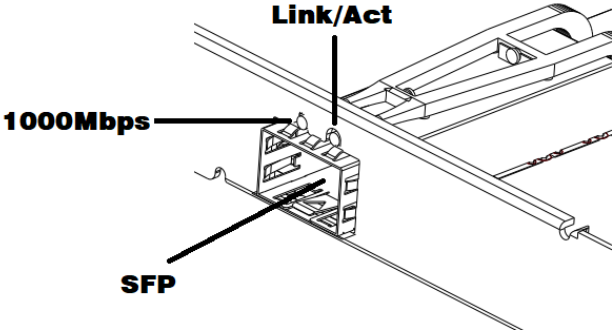
- Windows 7/8.x/10/11
- Windows Server 2008 R2/2012 R2/2016/2019/2022
- Linux 3.16 or later

1.4 Package Contents

- 1 x PCIe 1-Port Gigabit SFP Network Adapter
- 1 x User Manual

Chapter 2: Getting Started

2.1 Hardware Layout



Link/Activity Indicator:

LED	Description
Link Speed LED	Indicates Link Speed: • Solid Green = 1000Mbps
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 1-Port Gigabit SFP Network Adapter driver on different operating systems.

2.3.1 Installation for Windows

1. Go to URL http://www.sunrichtech.com.hk/
2. Search N-850, download the driver.
3. Follow the on-screen instructions to finish installing the driver.

2.3.2 Installation for Linux

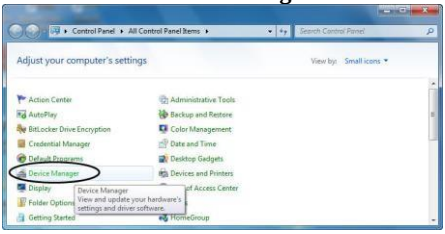
1. Go to URL http://www.sunrichtech.com.hk/
2. Search N-850, download the driver.
3. Follow Readme.txt which is in the driver folder to finish installing the driver.

2.4 Verifying the installation

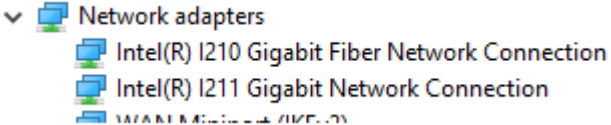
2.4.1 Verifying for Windows

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 **"Intel(R) I210 Gigabit Fiber Network Connection"** 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

   # ifconfig –a

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

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