PCIe 4-Port SFP Gigabit Network Adapter

User Manual

Ver. 1.00

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Chapter 1: Introduction

1.1 Product Introduction

This PCIe 4-Port SFP Gigabit Network Adapter This card a high-performance PCI Express Ethernet adapter that delivers up to 1000 MB/s Ethernet over twisted-pair category 5 or better cabling. Using the SPF transceiver of your choice, you can connect your PCI Express-based server or workstation directly to your 1G fiber optic network.

1.2 Features

- Quad port full height 1G adapter
- Supports common 1G SFP optical and Direct Attached Copper modules
- EEE (Energy Efficient Ethernet)
- Up to 9K Jumbo Frames
- IP, TCP and UPD checksum offloading (IPv4, IPv6) capabilities
- Designed to meet PCI Express Specification Revision 3.0
- Eight lane (x8) PCI Express compatible with x8 and x16 PCI

Express slots

- IEEE 802.1Q Tagged VLAN
- Intel PROSet Utility for Microsoft Device Manager

1.3 Requirements

Hardware

The following system specs are recommended minimum

- PCIe slot: Available 8-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 (32/64 bits)

- Windows 7
- Windows Server 2008 R2
- Windows 8.1
- Windows Server 2012 R2
- Windows Server 2016
- Windows 10

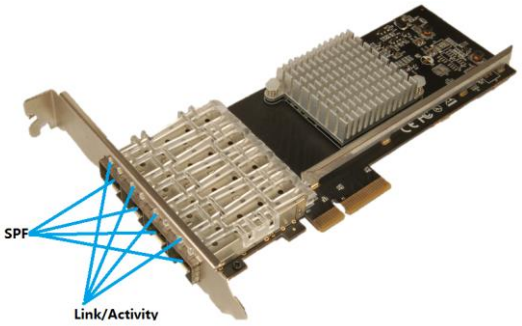
- Linux 3.16 or later

1.4 Package Contents

- 1 x PCIe 4-Ports SFP Gigabit Network Adapter
- 1 x Driver CD
- 1 x User Manual

Chapter 2: Getting Started

2.1 Hardware Layout



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 4-Port SFP Gigabit Network Adapter Card driver on different operating systems.

2.3.1 Installation for Windows

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: Actual image may vary

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.

Please click **"PCIe Intel"** to start the installation.

Follow the instructions on screen to install the driver.

2.3.2 Installation for Linux

1. Insert the provided CD into your CD-ROM drive.
2. Extract the compressed driver source file to a certain directory by the following command: (Please copy the driver file "ixgbe-x.x.x.tar.gz" from the CD folder ".\ Driver\Intel\ PRO1000\LINUX" to a certain folder on hard drive)

tar xf ixgbe-x.x.x.tar.gz

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

   # make

4. If the compilation is well, the ixgbe-x.x.x.ko will be created under the current directory.

5. If you want to use modprobe command to mount the driver, executing the following command to install the driver into your kernel:

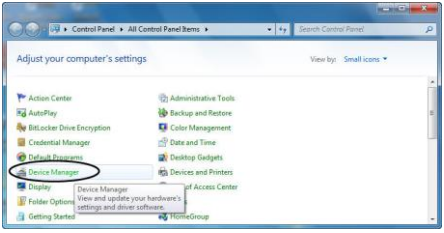
   # make install

2.4 Verifying the installation

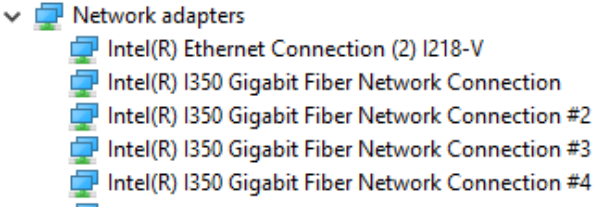
2.4.1 Verifying for Windows

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

Start > Control Panel > Device Manager



2. Entry **"Network adapters"** item, and you can read **"intel(R)I350 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,…