User Guide

1-Port 2.5GbE Gigabit PCIe x1 Network Adapter

Model No.: XM-NA4810

For the most up-to-date information, please visit www.x-mediausa.com

Version 1.0

Contents

Package Contents

The following items should be found in the package:

- XM-NA4810 1-Port 2.5GbE Gigabit PCIe x1 Network Adapter
- Low Profile Bracket
- One CD Disk contains Drivers and User Guide

Note: The above list is for reference only. The actual content may differ according to the product you purchased. Please save the original packaging material for future reference. If any of the listed items are damaged or missing, please contact with your seller.

Conventions

The "Adapter" mentioned in this User Guide stands for XM-NA4810 without any explanations.

Chapter 1 Product Overview

1.1 Introduction

The Adapter, XM-NA4810 with Realtek RTL8125B chipset, it is a highly integrated and cost-effective single port 2.5G Gigabit PCIe Ethernet Adapter which is fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab and IEEE 802.3az standards. This single-port 2.5Gbps PCIe Ethernet network card offers versatile and low-cost way to deploy 2.5GbE network connectivity. It is the easiest way to upgrade a network environment from 10/100/1000Mbps to 2500Mbps. It is suitable for multiple market segments and emerging applications, such as desktop, workstation, server, communication platform and embedded applications.

1.2 Features

- Fully complies with IEEE 802.3, 802.3u, 802.3ab, 802.3bz standards
- Compliant with PCI Express Revision 2.1
- Support IEEE 802.1p Layer 2 Priority Encoding; IEEE 802.1q VLAN Tagging
- Support IEEE 802.1Qav credit-based shaper algorithm
- Support IEEE 1588v1, IEEE 1588v2, IEEE 80.2AS time synchronization
- Support 2.5G and 1G Lite mode

- Support Half/Full Duplex mode and 802.3x Flow Control
- Support hardware ECC (Error Correction Code), CRC (Cyclic Redundancy Check), PCI MSI (Message Signaled Interrupt) and MSI-X
- Support Wake-On-LAN and “RealWow!” Technology (remote wake-up)
- Support Jumbo Frame to 16K bytes
- Auto-Negotiation with Extended Next Page capability (NXP)
- Crossover Detection & Auto-Correction (MDI/MDI-X)
- LED indicator for monitoring Link/Act
- Support Standard and Low-Profile Chassis

1.3 LED Status

The Link/Act LED of Adapter indicates 10/100/1G/2.5G status. They will light when connection is built, and flashing when the Adapter is transmits and receive data.

1. ACT (Flashing Green) / LINK (Solid Green) - 2.5Gbps
2. ACT (Flashing Green) / LINK (Solid Green) - 1Gbps
3. ACT (Flashing Green) / LINK (Solid Green) - 100Mbps
4. ACT (Flashing Green) / LINK (Solid Green) - 10Mbps

Chapter 2 Installation Guide

2.1 Hardware Installation

To Install the Adapter, please follow these steps listed below:

1. Turn off your computer and unplug the power cord and all cables
2. Remove your computer's case cover
3. Locate an available PCIe slot
4. Remove the screw that secures the slot bracket (the small piece of metal that covers the opening for PCIe card on the back panel of your computer), then remove the slot bracket
5. Carefully insert the Adapter into the PCIe slot. Please avoid touching the gold connector of the Adapter
6. Secure the Adapter to the case by using the screw you removed from the slot bracket
7. Reinstall your computer's case cover
8. Plug in the power cord and all other cables, and then turn on your computer

2.2 Software Installation

This section will guide you through the installation procedures for Windows 10. Please follow the steps.

2.2.1 For Windows 10 Installation

1. Insert the CD driver disk into CD-ROM drive. The Autorun setup program will display, or you click on the "Browse CD" to find other OS drivers in the CD.
2. Select **Product Model** folder in stall.
3. Select **Windows** folder, then click on **Win10** folder to select **Setup** to install. Once Setup started, follow the on-screen instruction to finish the installation.
4. Restart computer to complete the installation.

Besides, you can also use the following way to update driver software:

1. Insert the CD driver disk into the CD-ROM drive.

2. Right click the icon **Computer** on the desktop, and then click **Manage**

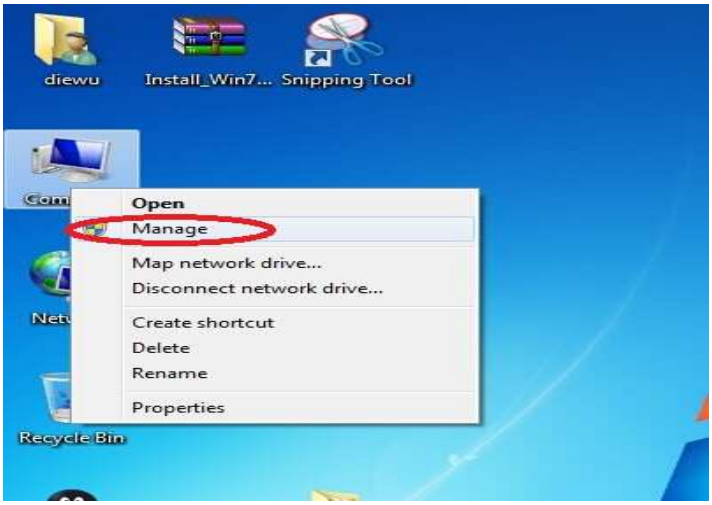

Figure 2.1

3. The **Computer Management** screen will appear. Click **Device Manager**, and then you will see various options on the right side. Click **Other Devices**, and then from the drop-down list, please find **Ethernet Controller**. Right-click it and then select **Update Driver Software**.

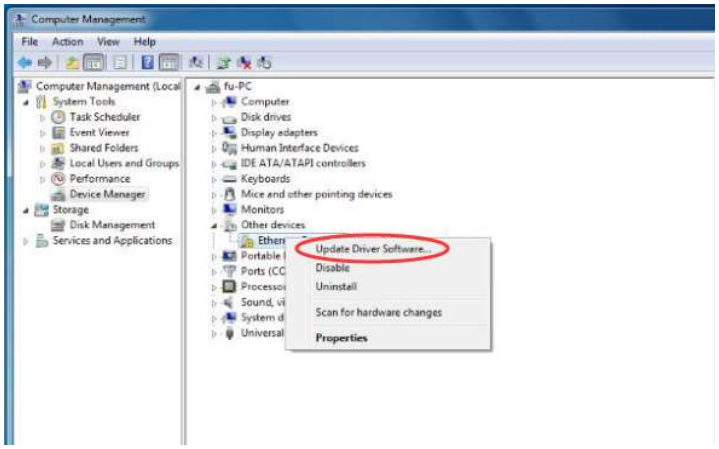

Figure 2.2

4. The **Update Driver Software** window will show up. Select **Browse my computer for driver software**.

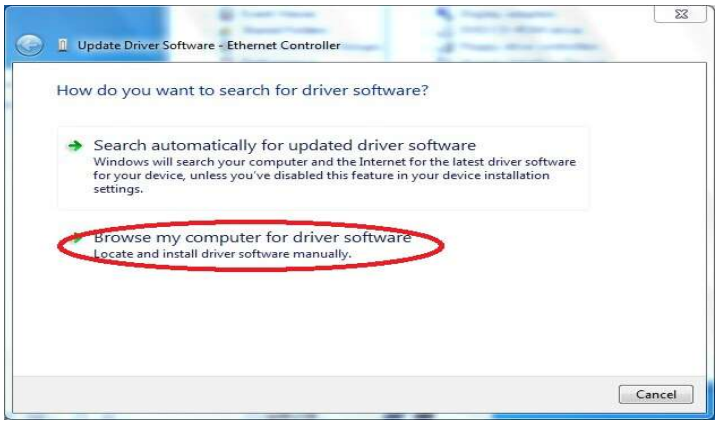

Figure 2.3

5. Browse and choose the system driver location from Computer, and then click **Next**.

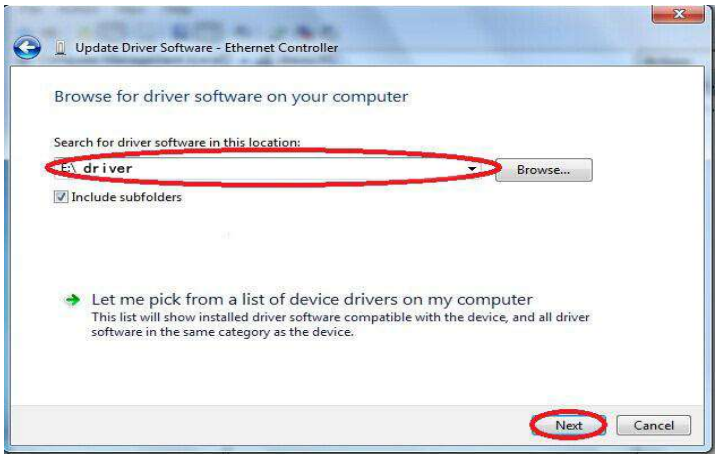

Figure 2.4

6. Wait a few seconds for the installation.

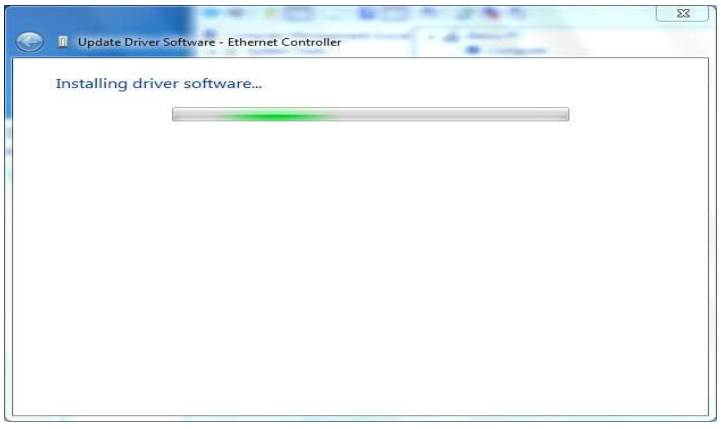

Figure 2.5

7. Click **Close** to finish the installation.

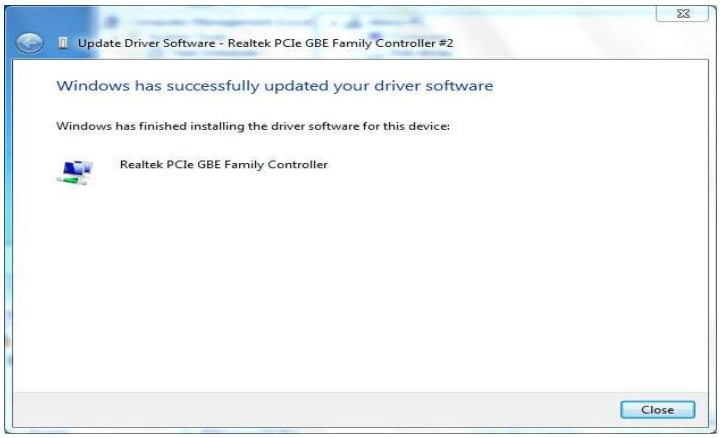

Figure 2.6

Appendix A: Specification

Specifications:	
Standards:	IEEE 802.3, 802.3u, 802.3ab, 802.3bz
Chipset:	Realtek RTL8125B
Interface:	32-bit PCIe x1 Standard
	1*10/100M/1G/2.5G RJ-45 port
Data Transfer Rate:	10/100M/1G/2.5G
Network Media:	10Base-T: UTP Cat. 3, 4, 5, cable (Maximum 100m)
	EIA/TIA-568 100Ω STP (Maximum 100m)
	100Base-TX: UTP Cat. 5, 5e cable (Maximum 100m)
	EIA/TIA-568 100Ω STP (Maximum 100m)
	1000Base-T: UTP Cat. 5e, 6 cable (Maximum 100m)
	EIA/TIA-568 100Ω STP (Maximum 100m)
	2.5GBase-T: UTP Cat. 5e, 6 cable (Maximum 100m)
	EIA/TIA-568 100Ω STP (Maximum 100m)
Jumbo Frame:	16K Bytes
Flow Control:	IEEE 802.3x Flow Control (Full Duplex)
LEDs:	Link/Act
Operating Temperature:	0° ~ 40° C (32° ~ 104° F)
Storage Temperature:	-40° ~ 70° C
Operating Humidity:	10% ~ 90% Non-Condensing
Storage Humidity:	5% ~ 90% Non-Condensing
Supported OS:	Windows Vista/7/8/8.1/10/11(32/64-bit); Linux
	Windows Server 2008, 2012
Emission (EMI):	FCC; CE