USB 3.0 To Dual Gigabit Ethernet

Network Adapter

CB-U320GNA

User Manual

Ver. 1.00

Contents:

Chapter 1: Introduction

1.1 Product Introduction

Vantec introduces the USB 3.0 To Dual Gigabit Ethernet Network Adapter bringing you Dual Gigabit Ethernet through a single USB port. With the ease through a single USB connection, you can gain gigabit network speeds of up to 1000Mbps and be connected to two separate physical networks for any special function like network management, networked virtual machine configuration, bridging, gateway management, networking troubleshooting and more. This is a convenient solution for any IT administrators to bring along with their systems such as laptops, Ultrabooks or Macbook Airs to analyze and manage any networks. This USB 3.0 To Dual Gigabit Ethernet Network Adapter comes with a wealth of features to help enhance its use.

10/100 Mbps link and activity LED
1000 Mbps link and activity LED
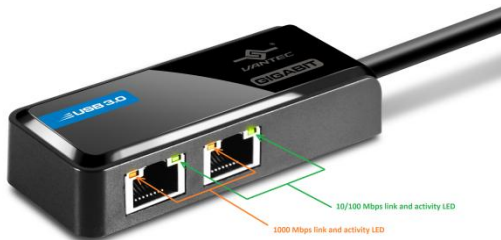
1.2 Features

- Dual Gigabit Ethernet ports through a single USB connection
- Compliant with Universal Serial Bus 3.0 Specification, Revision 1.0
- Compatible with USB Specification, Revision 2.0
- Supports CDC-ECM
- Supports crossover detection, auto-correction, polarity correction, adaptive equalization, cross-talk+echo cancellation, and timing recovery

- Supports advanced link down power saving when Ethernet cable is unplugged
- Supports ACPI, APM, OSPM, and Wake-on-LAN
- Supports jumbo frame up to 9K bytes
- USB Cable Type A & 2 x RJ45 connection
- LED indicators for Ethernet connection
- Support Windows XP, 7, 8, 8.1 / Mac OS X 10.8 or Greater / Latest Linux kernel

Software Offload

- Microsoft NDIS5, NDIS6 Checksum Offload (IPv4, IPv6, TCP, UDP) and Segmentation Task-offload (Large send v1 and Large send v2) support

IEEE

- Supports full duplex operation with IEEE 802.3x flow control and half duplex operation with back-pressure flow control

- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Supports IEEE 802.1P Layer 2 Priority Encoding
- Supports IEEE 802.1Q VLAN tagging
- Supports IEEE 802.3az-2010 (Energy Efficient Ethernet)

Microsoft AOAC (Always On Always Connected)
- Supports 16-set 128-byte Wake-Up Frame pattern exact matching
- Supports link change wake up
- Supports Microsoft WPD (Wake Packet Detection)
- Supports Protocol Offload (ARP & NS)

Intel CPPM (Converged Platform Power Management)
- Supports L1 with 3ms BESL (USB 2.0)
- Dynamic LTM messaging (USB 3.0)
- Supports U1/U2 (USB 3.0)

- Supports selective suspend

1.3 System Requirements

- Microsoft Windows XP, Vista, 7, 8, 8.1 / Mac OS X 10.6 or Greater (Intel-based Mac)/ Latest Linux OS
- USB 3.0 Port preferred to get maximum speed

1.4 Package Contents

- Vantec USB 3.0 To Dual Gigabit Ethernet Adapter
- Drivers CD
- Quick Installation Guide

Chapter 2: Getting Started

2.1 Hardware Installation

1. Plug the USB 3.0 To Dual Gigabit Ethernet Network Adapter directly into an available USB 3.0 port on your computer.
2. Connect one end of your network cable into the RJ45 port of USB 3.0 To Dual Gigabit Ethernet Network Adapter.
3. Connect the other end of the network cable into an available

Ethernet port on your router, switch, or any other networking device.

2.2 Driver Installation

The following section shows you how to install the USB 3.0 To Dual Gigabit Ethernet Network Adapter driver on different operating systems.

Important! Please connect the USB 3.0 To Dual Port Gigabit Ethernet Network Adapter to your PC before the install.

2.2.1 Installation for Windows

1. Insert the provided CD into your optical drive. Browse to the CB-U320GNA Folder and select the Windows OS. Start the driver installation by clicking on the setup program.

*Note: Actual image may vary

2. Follow the instructions on the screen to install the drivers.

2.2.2 Installation for Mac OS

1. Insert the provided CD into your optical drive. Browse to the CB-U320GNA Folder and select the Mac Folder. Start the driver installation by clicking on the installation pkg.
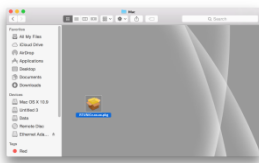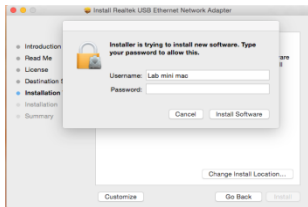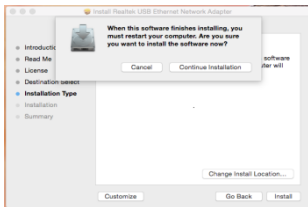

*Note: Actual image may vary

2. Follow the instructions on screen to install the driver. After driver installation is complete, you must restart your computer.
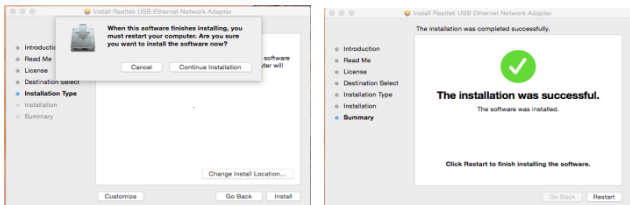3. Run RTUNICv1.0.8.pkg

4. Review and click continue thru the installation. Use the default setting.
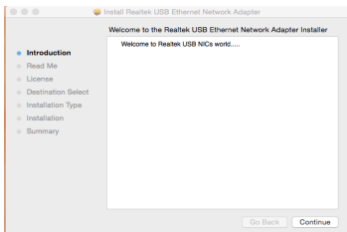
5. Enter Password to continue

6. Click Continue Installation and Click Restart to finish installing the software
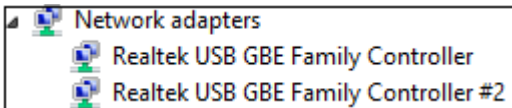

2.3 Hardware Verify

2.3.1 Verifying for Windows

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

   Start > Control Panel > Device Manager
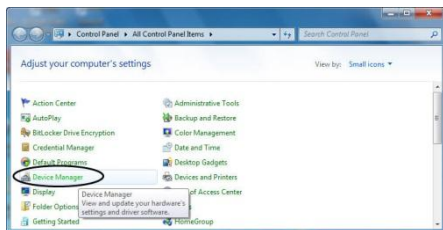
2. Entry "**Network adapters**" item, you should see the following devices installed with no exclamation points or question marks.

2.3.2 Verifying for Mac OS X

1. Open the System Profiler by clicking the Apple symbol in the top left corner, selecting About this Mac, then select System Report

2. Expand the "Network" section. With the cable connected, you should see the following devices in the list.