



USB 3.0 To Dual Gigabit Ethernet Network Adapter

CB-U320GNA



User Manual

Ver. 1.00

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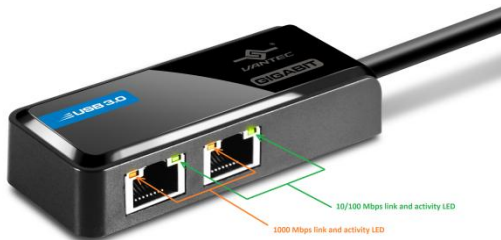
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Chapter 1: Introduction

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.



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.

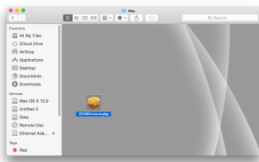


*Note: Actual image may vary

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

2.2.2 Installation for Mac OS

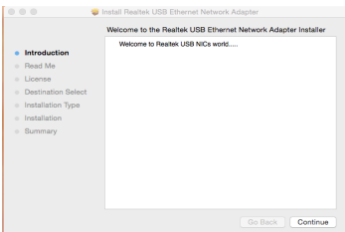
1. Insert the provided CD into your optical drive. Browse to the CB-U320GNA Folder and select the Mac Folder. Start the driver installation by clicking on the installation pkg.



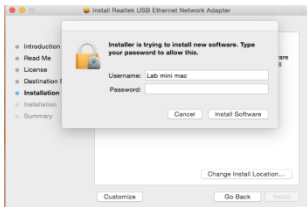
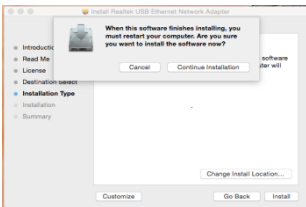
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2. Follow the instructions on screen to install the driver. After driver installation is complete, you must restart your computer.
3. Run RTUNICv1.0.8.pkg

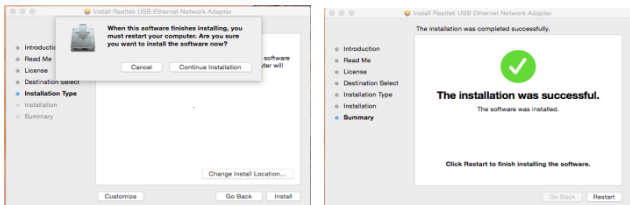
4. Review and click continue thru the installation. Use the default setting.



5. Enter Password to continue



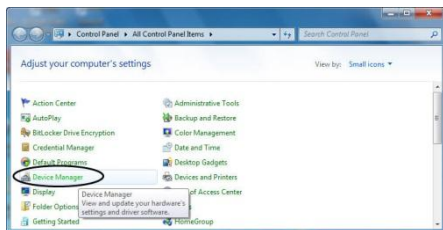
- Click Continue Installation and Click Restart to finish installing the software



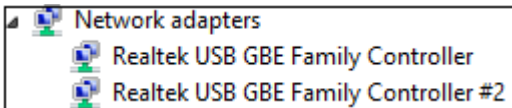
2.3 Hardware Verify

2.3.1 Verifying for Windows

- Click on the “**Device Manager**” tab in the Windows Control Panel.
Start > Control Panel > Device Manager



- 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.

A screenshot of the Mac OS X System Profiler window, titled "Mac mini". The "Network" section is expanded in the left sidebar. The main pane shows a table of active network services and their configuration details.

Active Services	Type	Hardware	BSD Device Name	IPv4 Addresses
Bluetooth DUN	PPP (PPPSerial)	Modem	Bluetooth-Modem	
Bluetooth PAN	Ethernet	Ethernet	en3	
Ethernet	Ethernet	Ethernet	en0	192.168.1.246
FireWire	FireWire	FireWire	fw0	
Thunderbolt Bridge	Ethernet	Ethernet	bridge0	
USB 10/100/1000 LAN	Ethernet	Ethernet	en6	
USB 10/100/1000 LAN 2	Ethernet	Ethernet	en7	
Wi-Fi	AirPort	AirPort	en1	172.27.35.8

Below the table, the configuration for "USB 10/100/1000 LAN" is shown:

Type: Ethernet
Hardware: Ethernet
BSD Device Name: en6
IPv4:
Configuration Method: DHCP
IPv6:
Configuration Method: Automatic
Ethernet:
MAC Address: 00:0a:cd:0b:cc:16
Media Options:
Media Subtype: Auto Select
Proxies:
Exceptions List: *.local, 169.254/16
FTP Passive Mode: Yes
Service Order: 4

Federal Communications Commission Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off

and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

FCC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.