

VLink USB-C Gigabit Ethernet Adapter

CB-CU300GNA



User Manual

Ver. 1.00

All brand names and trademarks are properties of their respective owners.

Contents:

Chapter 1: Introduction	3
1.1 Product Introduction	3
1.2 Features	4
1.3 System Requirements	4
1.4 Package Contents	6
Chapter 2: Getting Started	6
2.1 Hardware Installation	7
2.2 Driver Installation	7
2.2.1 Installation for Windows	8
2.2.2 Installation for Mac OS	8
2.3 Hardware Verify	10
2.3.1 Verifying for Windows	10
2.3.2 Verifying for Mac OS X	

Chapter 1: Introduction

1.1 Product Introduction

Vantec introduces USB-C Adapter with Gigabit Ethernet capability. This adapter uses USB 3.1 Type C interface on the latest generation of the laptop to connect to your Gigabit Network. With Plug and Play, you can easily gain gigabit network speeds of up to 1000Mbps. This is a convenient solution for systems such as Ultra slim laptops that do not have an RJ-45 connector. This USB-C Gigabit Ethernet Adapter comes with a wealth of features to help enhance its uses.

1.2 Features

Gigabit Ethernet Controller

- Supports IEEE 802.3az (Energy Efficient Ethernet)
- Supports IEEE 802.3, 802.3u and 802.3ab compatible
- Integrated 10/100/1000Mbps Gigabit Ethernet MAC/PHY
- Supports dynamic cable length detection and dynamic power adjustment Green Ethernet (Gigabit mode only)
- Supports parallel detection and automatic polarity correction
- Supports crossover detection and auto- correction
- Supports IPv4/IPv6 packet Checksum Offload Engine (COE) to reduce CPU loading, including IPv4 IP/TCP/UDP/ICMP/IGMP & IPv6 TCP/UDP/ICMPv6 checksum check & generation
- Supports TCP Large Send Offload V1

- Supports full duplex operation with IEEE 802.3x flow control and half duplex operation with back-pressure flow control
- Supports IEEE 802.1P Layer 2 Priority Encoding and Decoding
- Supports IEEE 802.1Q VLAN tagging and 2 VLAN ID filtering; received VLAN Tag (4 bytes) can be stripped off or preserved
- Supports Jumbo Frame up to 4KB
- PHY loopback diagnostic capability

Support Wake-on-LAN Function

- Supports suspend mode and remote wakeup via link-change, Magic Packet, Microsoft Wakeup Frame and external wakeup pin
- Supports Bonjour wake-on-demand

Advanced Power Management Features

• Supports power management offload (ARP & NS)

- Supports dynamic power management to reduce power dissipation during idle or light traffic
- Supports Auto Detach power saving –
 Soft-disconnected from USB host when Ethernet cable is unplugged
- Supports advanced link down power saving when Ethernet cable is unplugged
- RoHS/REACH compliant package
- Operating over 0°C to 70°C temperature range

1.3 System Requirements

- Microsoft Windows 7, 8,10
- Mac OS X 10.6 10.15
- USB 3.1 Type C Port

1.4 Package Contents

- USB-C Gigabit Ethernet Adapter
- Driver CD
- User Manual

Chapter 2: Getting Started

2.1 Hardware Installation

- 1. Plug the USB-C Gigabit Ethernet Network Adapter directly into an available USB-C port on your computer.
- Connect one end of your network cable into the RJ45 port of this USB-C Gigabit Ethernet Network Adapter.
- 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-C Gigabit Ethernet Network Adapter driver on different operating systems.

Important! Please connect the USB-C Gigabit Ethernet Network Adapter to your PC before the installing the drivers.

2.2.1 Installation for Windows

 Insert the provided CD into your optical drive. Browse to the Folder CB-U300GNA (shared drivers folder with CB-CU300GNA) and select the Windows sub-folder for the correct OS version. 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

 Insert the provided CD into your optical drive. Browse to the Folder CB-U300GNA (share drivers folder with CB-CU300GNA) and select the Mac sub-folder. Start the driver installation by clicking on the installation pkg.



*Note: Actual image may vary

- 2. Follow the instructions on the screen to install the driver. After driver installation is complete, you must restart your computer.
- 3. Run setup package
- 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

000 0	install Realtek USB Ethernet Network Adapter	Install Realtek USB Ethernet Network Adapter
 Introductic Read Me License Destination select Installation Type Installation Bummary 	When the surflaware inclusion is unable of the surflaware result of the surflaware inclusion of the surflaware result of	E totabilition was completed accordingly E totabilition was completed accordingly E totabilition was accordingly E totabilition was accordingly The installation was accordingly The installation was accordingly
	Change Install Location	Click Restart to finish installing the software.
	Customize Go Back Install	Go Back Restart

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

diret recur computaria cattle		the second s	
agust your computer's setur	iys	view by: Small Icons *	
Action Center	Administrative Tools		
AutoPlay	Backup and Restore		
BitLocker Drive Encryption	Color Management		
Credential Manager	Date and Time		
Default Programs	Desktop Gadgets		
Device Manager	Devices and Printers		

 Entry "Network adapters" item, you should see the following devices installed with no exclamation points or question marks.

Network adapters
 ASIX AX88179 USB-C Gigabit Ethernet Adapter

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

00		Mac mini			
♥ Hardware	Active Services	A Type	Hardware	85D Device Name	IPv4 Addresses
ATA	Bluetooth DUN	PPP (PPPSerial)	Modern	Bluetooth - Modern	
Audio	Bluetooth PAN	Ethernet	Ethernet	en3	
Bluetooth	Ethernet	Ethernet	Ethernet	en0	192.168.1.246
Camera	FireWire	FireWire	FireWire	fw0	
Card Reader	Thunderbolt Bridge	Ethernet	Ethernet	bridge0	
Diagnostics	USB 10/100/1000 LAN	Ethernet	Ethernet	enő	
Disc Burning	WI-FI	AirPort	AirPort	enl	172.27.35.8
Ethernet Cards					
Fibre Channel					
FireWire					
Graphics/Displays	USB 10/100/1000 LAN:				
Hardware RAID	Type: Ethernet				
Memory	Hardware: Ethernet				
PCI Cards	BSD Device Name: en6				
Parallel SCSI	IPv4:				
Power	Configuration Method: DH	CP			
Printers	Configuration Method: Aut	tomatic			
SAS	Ethernet:				
SATA/SATA Express	MAC Address: 00:0a:cd:0	b:cc:16			
SPI	Media Options:				
Storage	Media Subtype: Auto Selec	π.			
Thunderbolt	Exceptions List: *.local.	169.254/16			
USB	FTP Passive Mode: Yes				
* Network	Service Order: 4				