



BEC 6300VNL

GigaConnect®
4G/LTE VoIP Wireless Broadband
Router

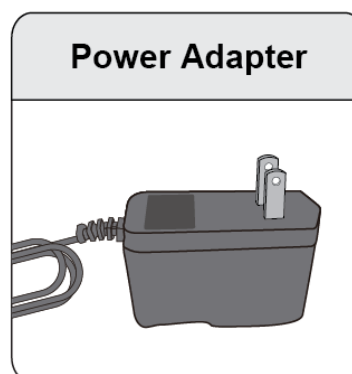
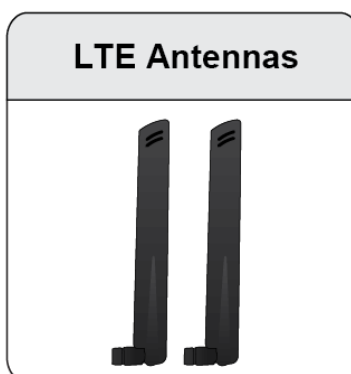
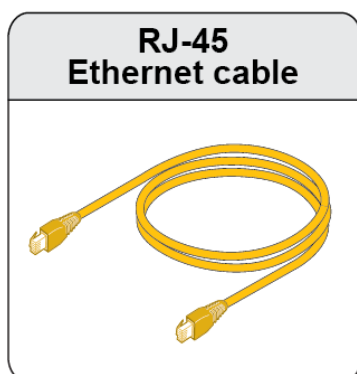
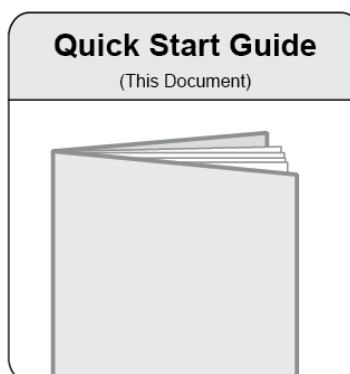
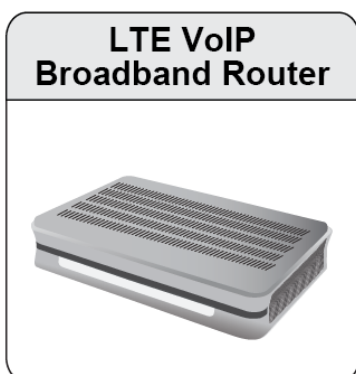
Quick Start Guide



PLEASE READ THE QUICK START GUIDE AND FOLLOW THE STEPS CAREFULLY. THIS QUICK START GUIDE WILL HELP YOU INSTALL THE DEVICE PROPERLY AND AVOID IMPROPER USAGE. IF YOU NEED MORE INFORMATION ON THIS SOFTWARE CONFIGURATION, PLEASE REFER TO THE ONLINE USER MANUAL.

Package Contents

- ✓ BEC 6300VNL 4G/LTE VoIP Wireless Broadband Router
- ✓ This Quick Start Guide
- ✓ RJ-45 Ethernet Cable
- ✓ Two 4G/LTE Detachable Antennas
- ✓ DC Power Adapter



NOTE: ALL IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY.
PACKAGE CONTENTS MAY DIFFER FROM ACTUAL PRODUCTS.

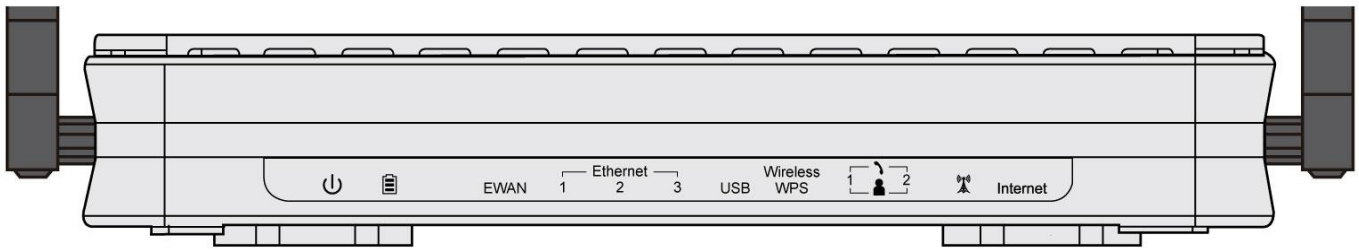






- Do not use the router in high humidity or at high temperature.
- Do not use the same power source for the router as other equipment.
- Do not open or repair the case yourself. If the router is too hot, turn off the power immediately and have it repaired at a qualified service center.
- Avoid using this product and all accessories outdoors.



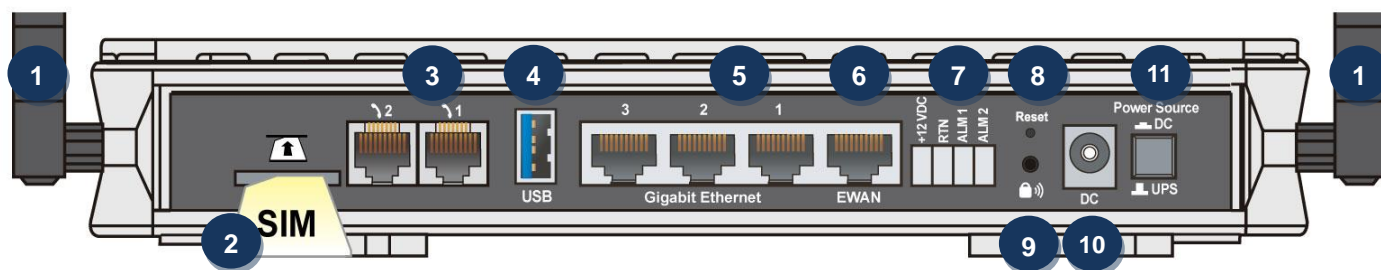
- Place the router on a stable surface.
- Only use the power adapter that comes with the package. Using a different voltage rating power adapter may damage the router.



Front Panel LEDs



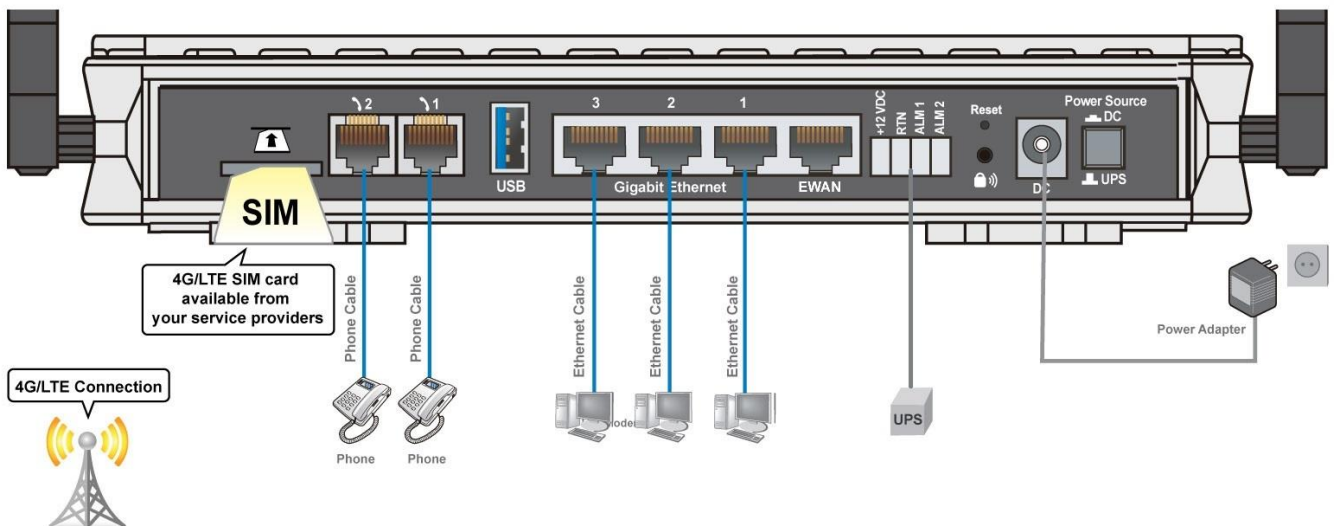
LED	STATUS	DESCRIPTION
Power 	Green	System is up and ready
	Red	Boot failure
Battery 	Green	UPS is functional properly
	Orange	UPS battery failure. Need to replace a new battery
	Orange blinking	UPS AC power failure and battery functional properly
	Off	Device powered by the DC power adapter
EWAN	Lit up	BEC 6300VNL is successfully connected with a broadband connection device.
	Green	Transmission speed is at Gigabit speed (1000Mbps)
	Orange	Transmission speed is at 10/100Mbps
	Blinking	Data being transmitted/received
Ethernet Port LAN 1 ~ 3	Green	Transmission speed is at Gigabit speed (1000Mbps)
	Orange	Transmission speed is at 10/100Mbps
	Blinking	Data being transmitted/received
USB	Green	Connecting to a USB dongle or a hard drive.
Wireless/WPS	Green	Wireless connection established
	Green blinking	Data being transmitted / received
	Orange	WPS configuration is in progress
Phone 	Green	Successfully registered and ready to be used.
	Orange	Phone is off-hook, in-use
LTE (Received Signal Strength Indicator) 	Green	RSSI greater than -69 dBm. Excellent signal condition
	Green Flashing quickly	RSSI from -81 to -69 dBm. Good signal condition
	Orange Flashing quickly	RSSI from -99 to -81 dBm. Fair signal condition.
	Orange Flashing slowly	RSSI less than -99 dBm. Poor signal condition.
	Orange	No signal and the 4G_LTE module is in service
	Off	No LTE module or LTE module fails
Internet	Green	Obtained an IP address, and traffic is passing thru the device.
	Red	IP request failed.
	Off	BEC 6300VNL is either in bridged mode or WAN connection not ready.

Rear Panel Connectors



PORT		MEANING
1	LTE Antenna	Screw the supplied LTE antennas onto the antenna connectors on both sides.
 2	SIM Card Slot	Insert the mini SIM card (2FF) with the gold contact facing down. Push the mini SIM card (2FF) inwards to eject it
3	Phone (1X-2X)	Connect your analog phone to this port with a RJ-11 cable.
4	USB	The USB can either setup for 3G/4G LTE internet access or storage/file sharing. (1) For File Sharing: Connect an external USB dongle / hard drive for storage, network sharing, etc (2) For 3G/4G LTE Internet Connection: Connect with an external USB 3G/4G LTE modem or dongle with an activate data plan (internet access).
5	Gigabit LAN Ethernet (1~3)	Connect a UTP Ethernet cable (Cat-5 or Cat-5e) to one of the four LAN ports when connecting to a PC or an office/home network of 10Mbps /100Mbps /1000Mbps
6	Gigabit EWAN	Connect to Fiber/ Cable/ xDSL Modem with a RJ-45 cable
7	UPS Jack	The 4-pin connectors are used to power the device with an external UPS battery backup.
8	Reset	After the device is powered on, press it 6 seconds or above : to restore to factory default settings (this is used when you cannot login to the router, e.g. forgot your password)
 9	WPS & Wireless On/Off	By controlling the pressing time, users can achieve two different effects: (1) WPS^{*1}: Press &hold the button for less than 6 seconds to trigger WPS function. (2) Wireless ON/OFF button: Press & hold the button for more than 6 seconds to enable or disable the wireless. * Refer to the WPS section in the User Manual for more details.
10	Power Jack (DC)	Connect the supplied Power Adapter to this jack.
11	Power Source	Power ON/OFF switch (1) with Power Switch ON: power up by the supplied DC power adapter (2) with Power Switch OFF: power up by the UPS battery unit

Hardware Connection



Hardware Installation

1. Power Connection

Select power source from using a (1) DC power adapter or (2) UPS (Uninterruptible Power Supply)

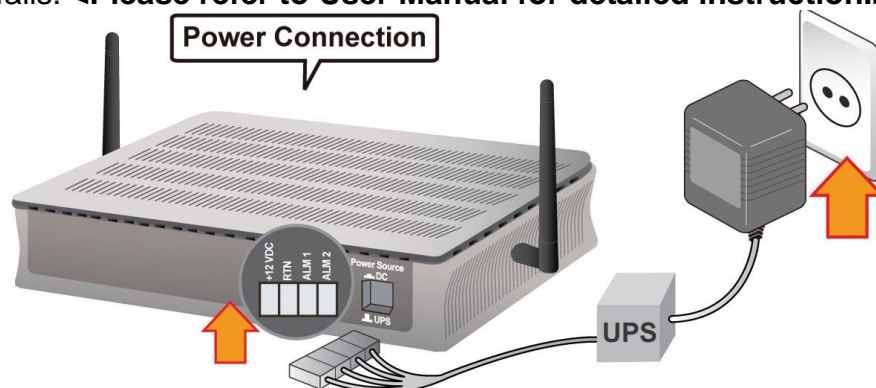
1.1 Using the Supplied DC Power Adapter

Plug in the supplied power adapter to the wall jack, the other side to the 6300VNL then power it **ON** the by pressing the Power On/Off button.



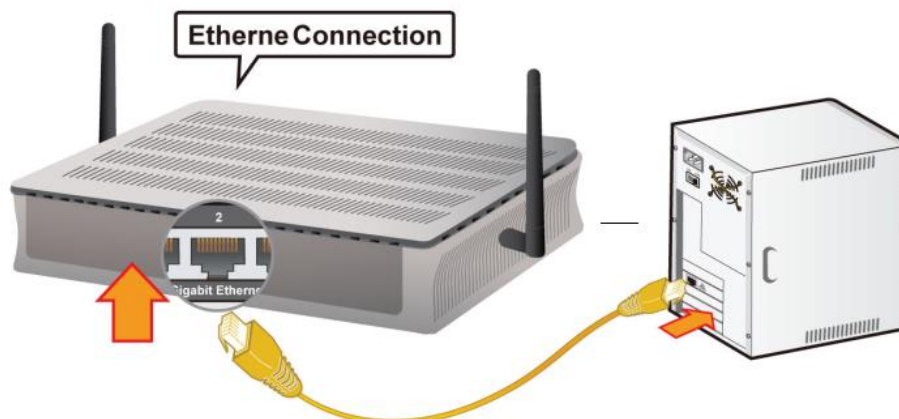
1.2 Using a UPS Battery Unit

Power **OFF** the power source button and plug the uninterruptible power supply (UPS) to the device; it's an electrical apparatus that can provide emergency power when the main power source fails. **<Please refer to User Manual for detailed instruction.>**



2. LAN Connection

Connect the supplied RJ-45 Ethernet cable to one of the Ethernet ports, and the other side to the PC's Ethernet interface.



3. WAN Link Interface and Connection

BEC 6300VNL supports failover and fallback on multiple WAN interfaces, 4G LTE, EWAN and USB 3G/4G_LTE. **<Please refer to User Manual for detailed Internet setup>**

3.1 4G_LTE Connection

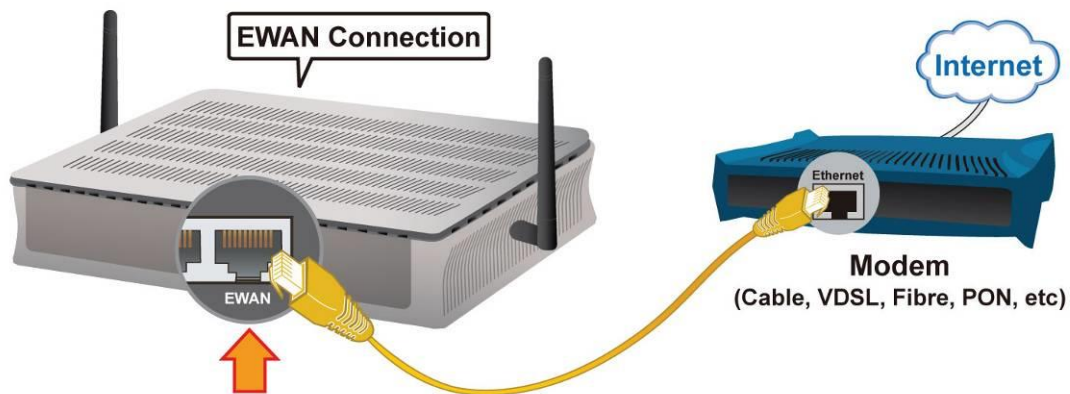
Slide the SIM card into the card slot of the device with the gold contact facing down. Make sure that the SIM card has been slid into the bottom of the slot with a click. When removing the SIM card, press the SIM card again it will be ejected from the card slot.



WARNING: Please power off the device before inserting or removing the SIM

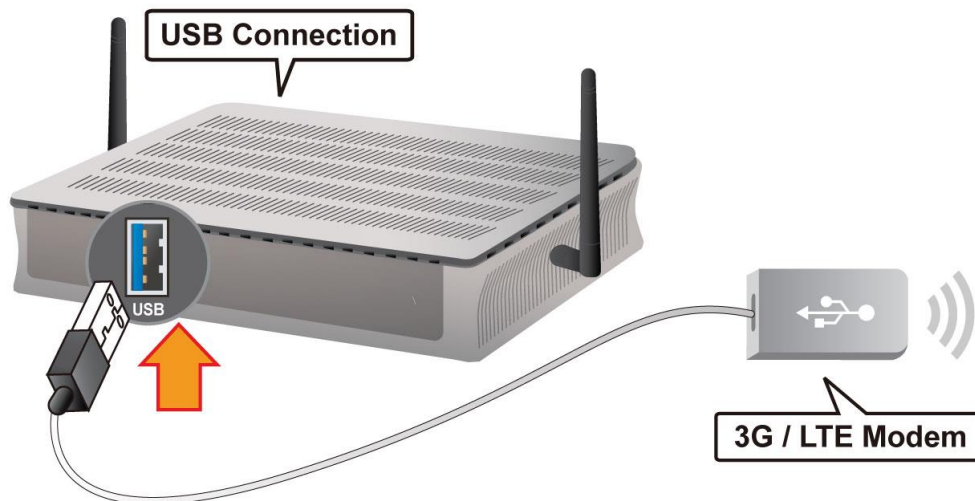
3.2 EWAN Connection

Connect RJ-45 Ethernet cable to the **EWAN port**, and connect the other side to another alternative broadband device, such as Cable Modem, VDSL, Fiber Modem or PON optic lines.



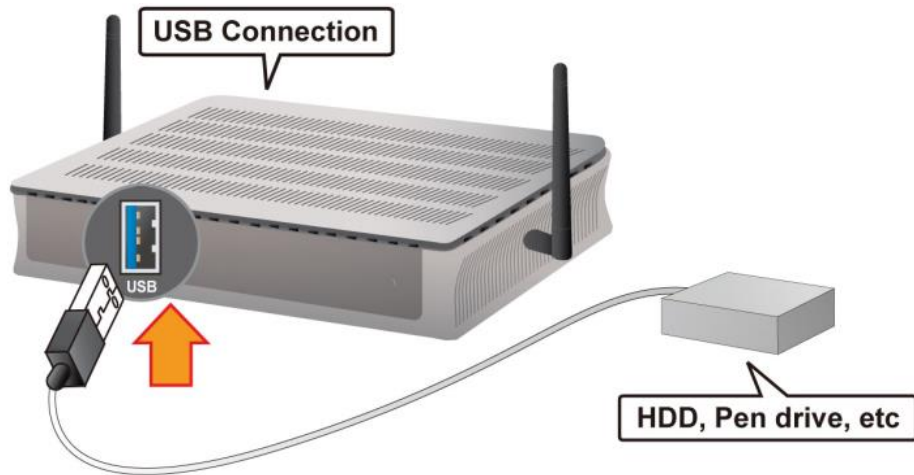
3.3 USB 3G/4G_LTE Connection

Connect a USB 3G/4G LTE dongle or modem with an activate data plan to the **USB port**.



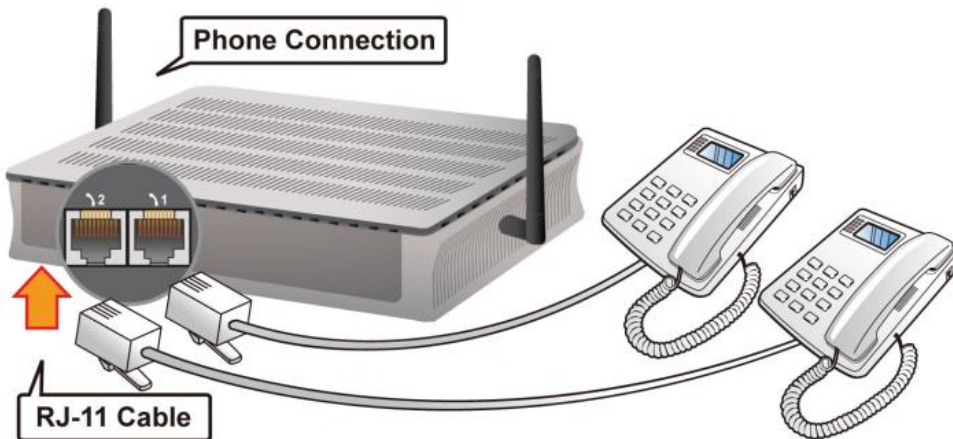
4. USB for Network File Sharing

BEC 6300VNL has built-in FTP and Samba Servers, simply plug in an external USB HD then follow the instruction setup in the User Guide.



6. Phone Connection

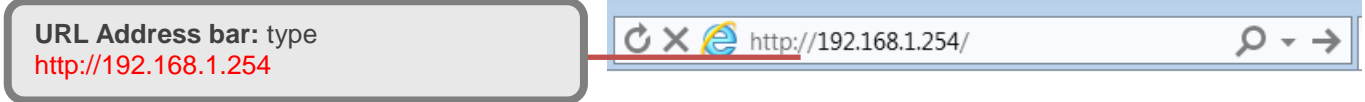
Connect RJ-11 cable to the router's "Phone 1" or "Phone 2" when connecting to an analog phone set. Both ports ("Phone 1" and "Phone 2") can make VoIP calls simultaneously. But only one phone is allowed to make PSTN call at the same time.



Connecting to the Router

The default IP of modem is **192.168.1.254** with subnet 255.255.255.0. Make sure the attached PC to this router is in the same subnet and has an IP address in the range between 192.168.1.1 ~ 192.168.1.253.

Open a web browser and type **http://192.168.1.254** in the URL address bar.



The login prompt will appear. Input the default username (**admin**) and password (**admin**) for Account type, Administrator. *This username / password may vary by different Internet Service Providers.

Quick Setup Your Router

Before start configuring the 6300VNL, make sure you have the WAN port connected with your Internet box or fiber line.

Step 1: Change administration password

Setup a new password for “admin” account for device management. The default password is “admin”. Click Continue to go on to the next step.

*The password may vary by different Internet Service Providers.

New Password: assign a new, **unique password**

Confirm Password: re-enter the new password again

Next Step: click **Next**

The image shows a screenshot of the router's configuration interface for changing the password. The title is 'Quick Start - Password'. Below the title, it says 'You may change the admin account password by entering in a new password'. There are two input fields: 'New Password' and 'Confirm Password'. At the bottom, there are 'Back' and 'Next' buttons.

Step 2: Time Zone configuration

Enable and select your Time Zone then click Continue to go on to the next step.

Time Zone: select your **time zone**

Next Step: click **Next**

The image shows a screenshot of the router's configuration interface for setting the time zone. The title is 'Quick Start - Time Zone'. Below the title, it says 'Select the appropriate time zone for your location and click NEXT to continue'. There is a dropdown menu for 'Time Zone' with the selected option being '(GMT-06:00) Central Time (US & Canada), Mexico'. At the bottom, there are 'Back' and 'Next' buttons.

Step 3: Setup Wireless Connection

Access Point: select **Activated**

SSID: Assign a **unique name**

Channel: pick from **1~11**

Security Type: select a mode

- **Disable (No security)**
- **WPA**
- **WPA2 (Most secure one)**
- **WPA / WPA2 (auto detect WPA mode with wireless clients)**
- **WEP (Less secure one)**

Pre-Shared Key: key for wireless authentication

- **WPA / WPA2 Share Key:** Assign a key between 8 ~ 63 characters.
- **WEP:** select **Open System**, use default WEP Key 1 then assign **26 Hex codes**

Next Step: click **Next**

Step 4: WAN / Internet Connection Setup

Select the appropriate WAN protocol then fill out the information provided by your ISP in all relevant parameters.

Example: WAN Interface in EWAN mode.

Protocol: select one of them

- **Dynamic IP Address** (Obtain an IP address automatically)
- **Static IP Address** (Manually assign an IP)
- **PPPoE**
- **Bridge Mode**

Net Step: click **Continue**

Step 5: Save Confirmation Settings

Click "Next" to save and complete the Quick Setup. You should now be able to access to the Internet.

Please see the relevant sections of User Manual for detailed information.

Troubleshooting

1. None of the LEDs are on when you turn on the router.

Check the connection between the adapter and the router. If the error persists, you may have a hardware problem. In this case you should contact technical support.

2. You have forgotten your router login and/or password.

Try the default login and password, please refer to User Manual. If this fails, you can restore your router to its factory settings by holding the Reset button on the back of your router for 6 seconds or more.

3. Can't ping any PCs on the LAN.

Check the Ethernet LEDs on the front panel. The LED should be on for a port that has a PC connected. If it is off, check the cables between your router and the PC. Make sure you have uninstalled any software firewall for troubleshooting. Verify that the IP address and the subnet mask are consistent between the router and the workstations.

Product Support and Contact Information

Most problems can be solved by referring to the **Troubleshooting** section in the User Manual. If you have other inquiries or need further technical support, please contact with your Internet Service Provider or visit us at www.bectechnologies.net.

FCC Statement

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 Caution:

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
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.