BEC TECHNOLOGIES 9900VA Active Ethernet Fiber 802.11ac Gateway with VoIP User Guide

BEC 9900VA
Active Ethernet Fiber
802.11ac Gateway with VoIP
Quick Start Guide

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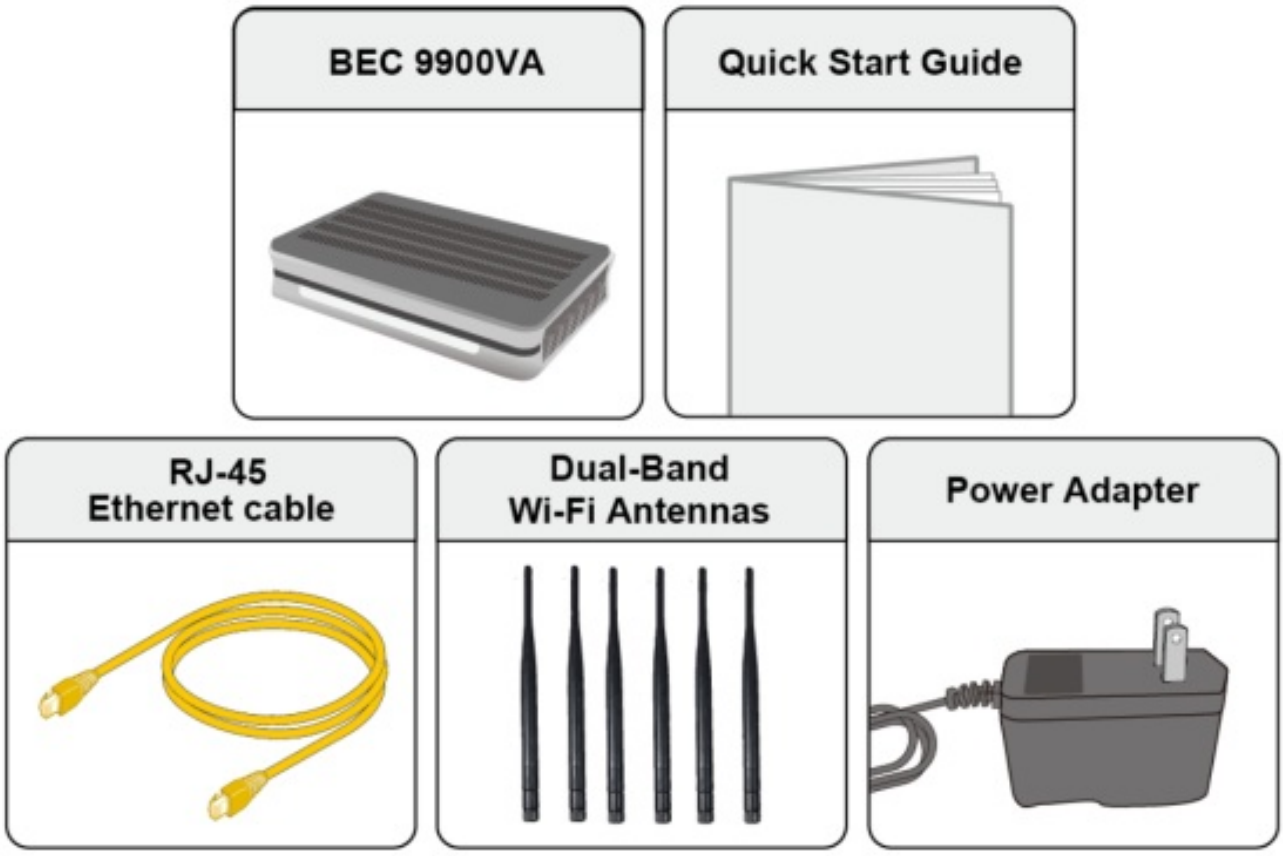
PLEASE READ THE QUICK START GUIDE AND FOLLOW THE STEPS CAREFULLY. THIS QUICK START GUIDE WILL HELP YOU INSTALL THE DEVICE PROPERLY AND AVOID IMPROPER USAGE.
IF YOU NEED MORE INFORMATION ON THIS SOFTWARE CONFIGURATION, PLEASE REFER TO THE ONLINE USER MANUAL.

Contents

Package Contents

- BEC 9900VA Active Ethernet Router * 1
- This Quick Start Guide * 1
- RJ-45 Ethernet Cable * 1
- Dual-Band Wireless Antenna * 6
- DC Power Adapter * 1

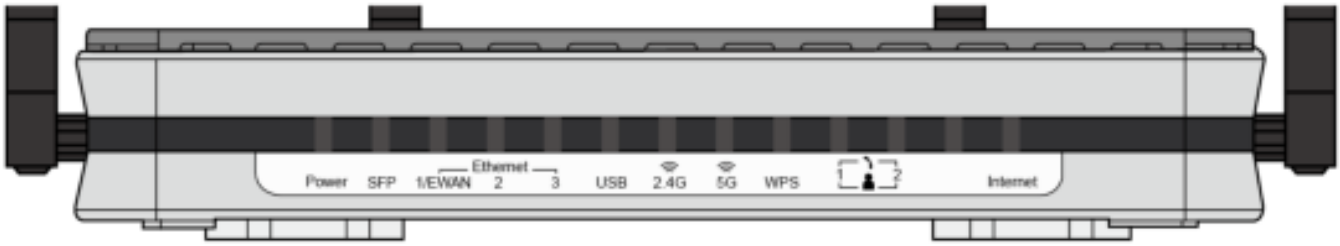


NOTE: ALL IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY.
PACKAGE CONTENTS MAY DIFFER FROM ACTUAL PRODUCTS.

- Do not use the router in high humidity or at high temperatures.
- 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.

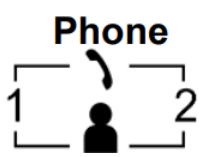
- Place the router on a stable surface.
- Only use the power adapter that comes with the package. Using a different voltage rating power adapter may damage the router.

Front Panel LEDs

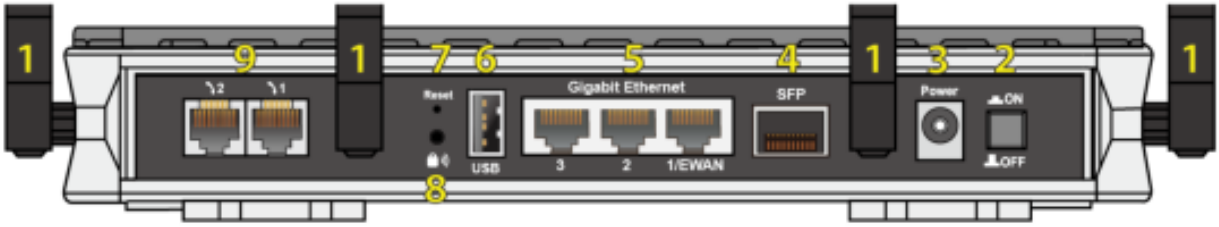


LED	STATUS	DESCRIPTION
Power	Green	The system is up and ready
	Red	System failure
SFP	Green	SFP fiber connection is ready

Gigabit LAN1 / EWAN	Interchangeable LAN/WAN Ethernet – WAN management & configuration via GUI	
	Green	**(Default) Ethernet LAN:** Connected to a gigabit Ethernet device. **(Configured via GUI) Ethernet WAN:** Successfully connected to a broadba nd device, e.q. ADSL / VDSL / Cable Modem / **FTTH** routedmodem.
	Orange	LAN port is connected to a 10/100Mbps Ethernet device
	Blinking	Data is being transmitted/received
	Off	No device is connected to the Ethernet port
Ethernet Port LAN 2 – 3	Green	Transmission speed is at Gigabit speed (1000Mbps)
	Orange	The transmission speed is at 10/100Mbps
	Blinking	Data is being transmitted/received
USB	Green	Connected to a USB dongle or a hard drive.
Wireless 2.4GHz / GHz	Green	Wi-Fi connection is established
	Blinking	Data is being transmitted/received
	Off	The Wi-Fi connection is turned off
WPS	Green	Wireless device(s) is connected successfully via WPS mode
	Blinking	WPS is enabled and trying to establish a WPS connection
	Off	WPS is turned off
	Green	Successfully registered and ready to use

		
	Orange	The phone is off-hook, in-use
Internet	Green	The IP address has been received, and traffic is passing thru the device
	Red	IP address request has failed

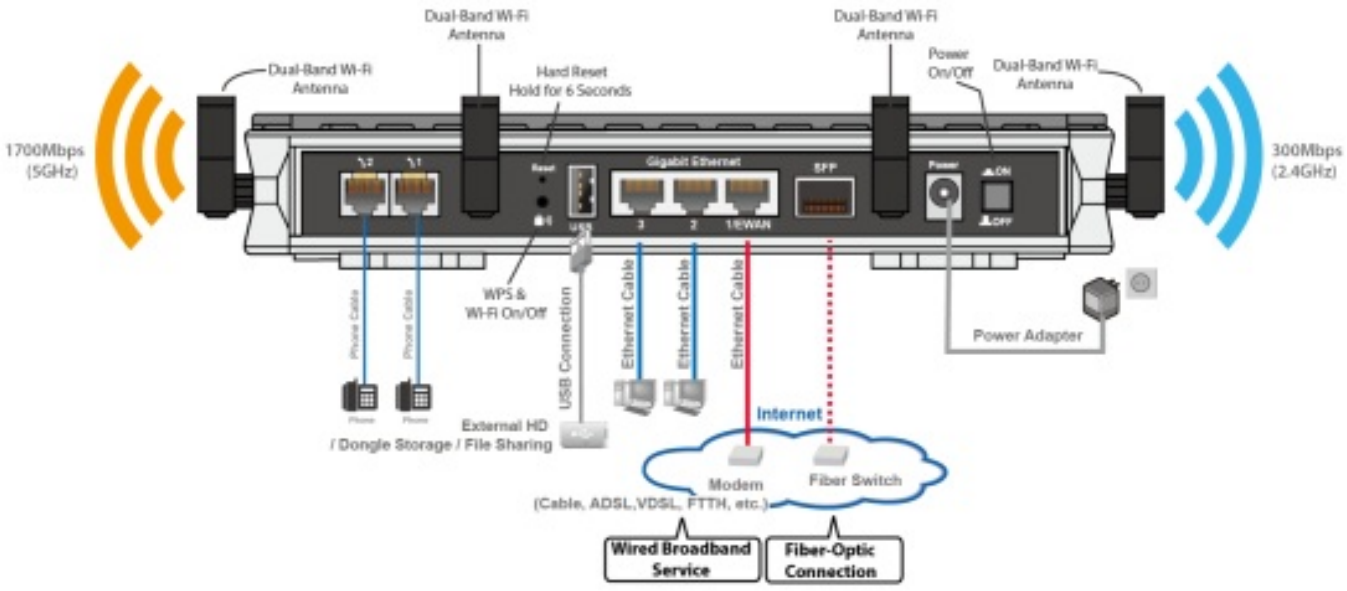
Rear Panel Connectors



	INTERFACE	MEANING
1	**WI-F I Antenna Co nnectors**	Female RP-SMA connectors, a total of 6. Manually screw the dual-band Wi-Fi antennas tight to each connector.
2	**Power**	Power on/off button.
3	**Power Jack (DC I N)**	Conned the supplied power adapter to this jack.
4	**SFP**	Insert and gently push a 1000Base SFP module until it snaps into the slot tightly.

5	**Gigabit Ethernet (LAN 1 – 3)**	Conned an Ethernet cable (Cat-5 or Cat-5e) to one of the LAN ports and a 10Mbps /100Mbps /1000Mbps PC or an office/home network device. ***1/EWAN** Connect to Fiber! Cable! xDSL Modem using an RJ-45 cable for broadband connectivity. Note: LAN 1 automatically becomes an EWAN port when the ETH WAN interface is selected and configured in the GUI.
6	**USB**	Connect to a USB hard drive for storage/file sharing.
7	**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 log in to the router, e.g. forgot your password).
8	**WPS & WI-FI On/Off**	By controlling the pressing time, users can achieve two different effects: **(1) WPS':** Press &hold the button for **2 seconds** to trigger the WPS function. **(2) Wireless ON/OFF button:** Press & hold the button for **more than 6 seconds** to turn on or off the wireless. * **For WPS** configuration, please **refer to the WPS** section in the User Manual.
9	**FXS Ports (1-2)**	Conned your analog phone(s) to the FXS port(s) using RJ-11 cable(s).

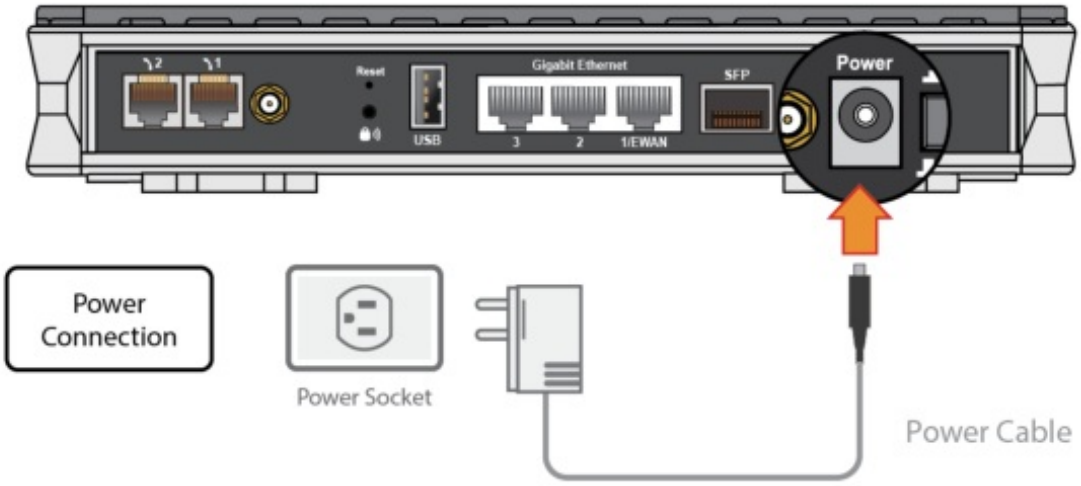
Application Diagram



Hardware Installation

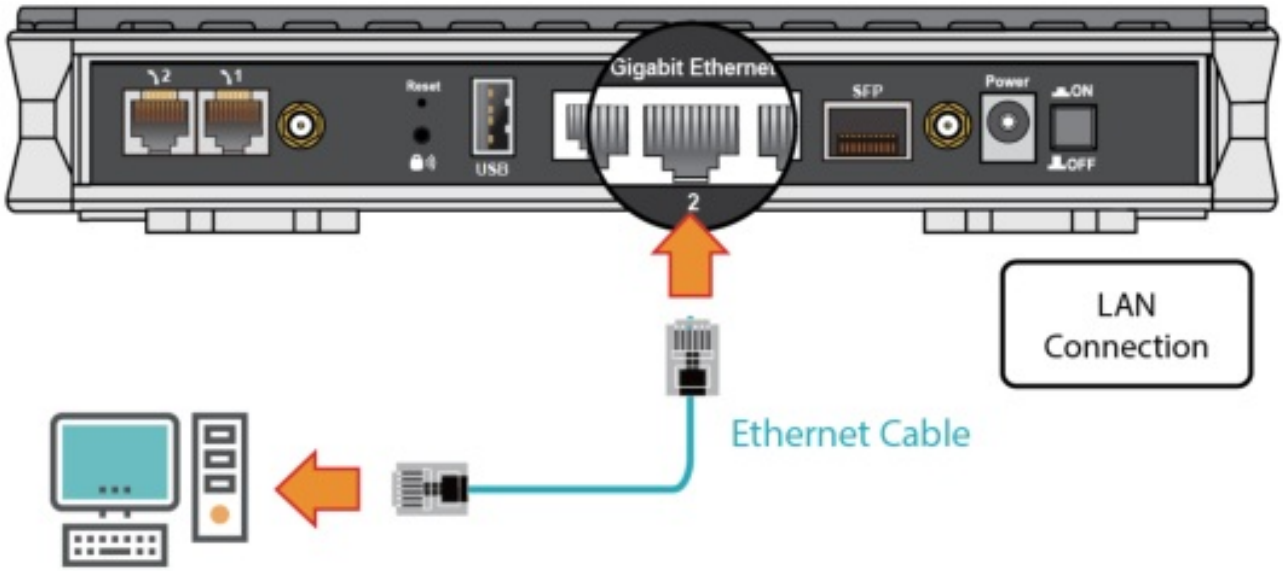
1. **Power Connection**

   Plugin the supplied power adapter to the wall jack, the other side to the BEC 9900VA then power it ON by pressing the Power on/off button.



2. **LAN Connection**

   Plug the RJ-45 Ethernet cable to one of the Ethernet ports, and the other side to any network devise's Ethernet port.

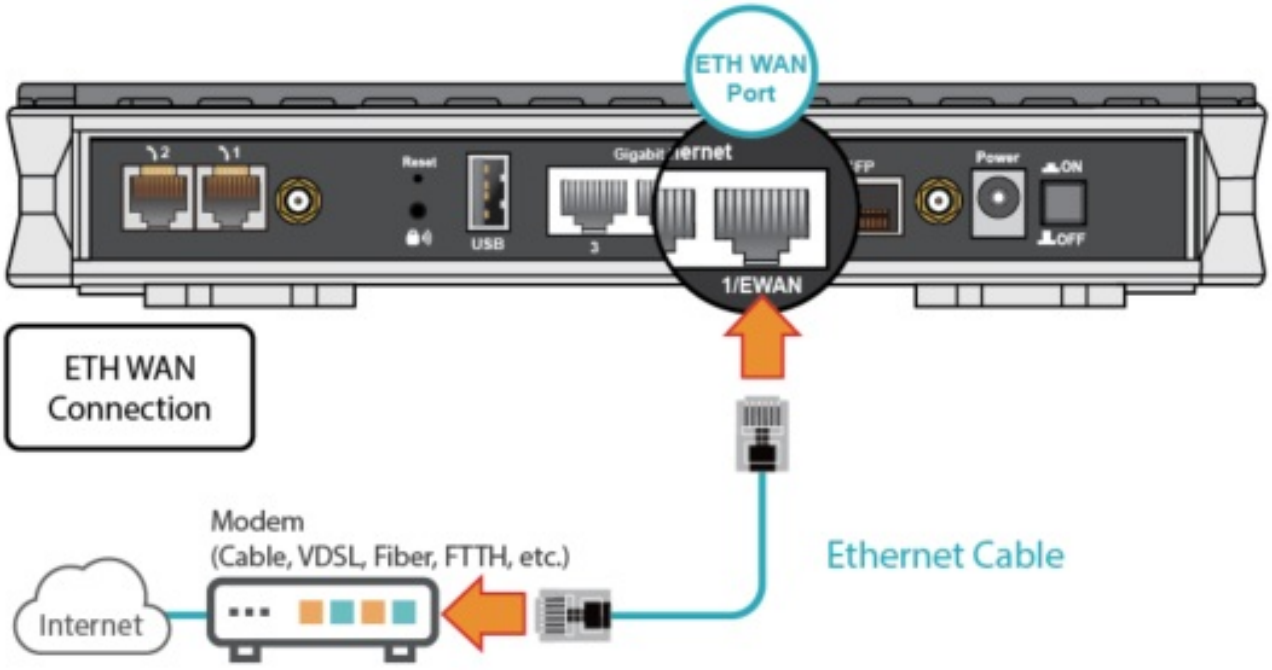


3. **WAN Link Interface and Connection**

   BEC 9900VA supports failover and failback to another WAN interface, SFP or Ethernet WAN. <Please refer to the user manual for detailed setup>

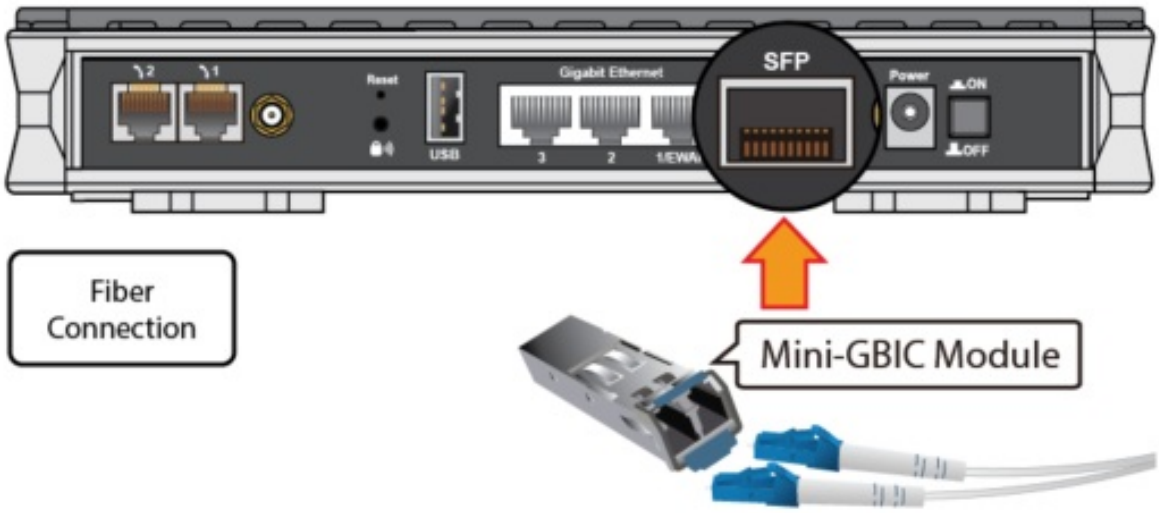
   3.1 Ethernet WAN Connection

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



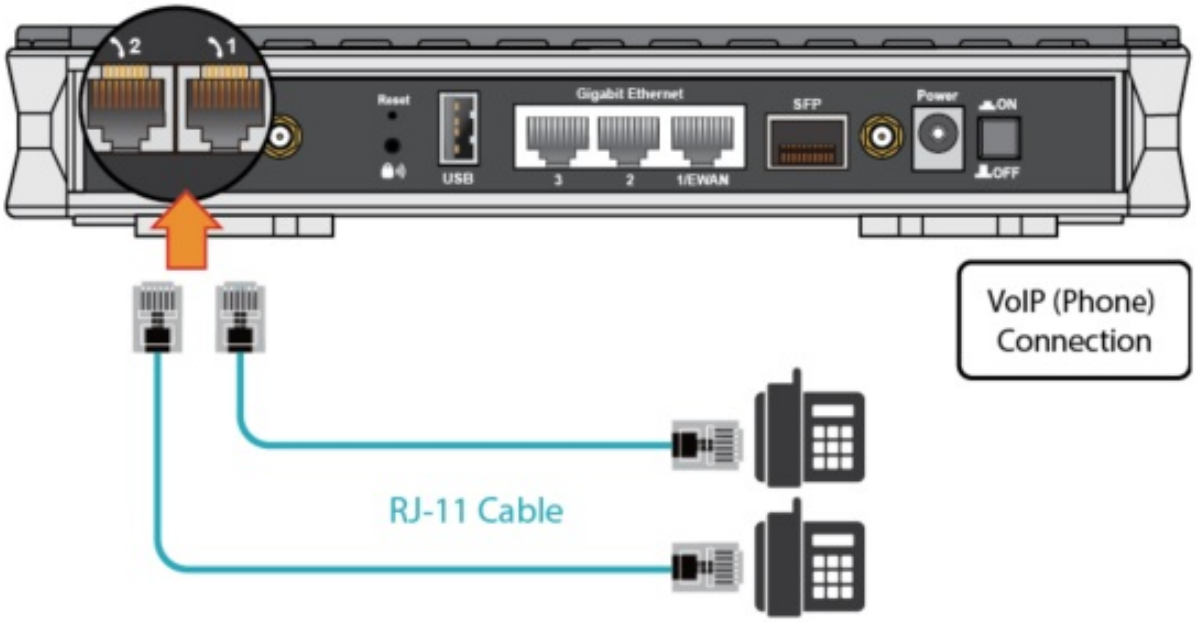
3.2 SFP Connection

Insert then gently push the Mini-GBIC SFP module into the SFP cage until it is tightly locked to the cage, and then connect the fiber cable to the module.



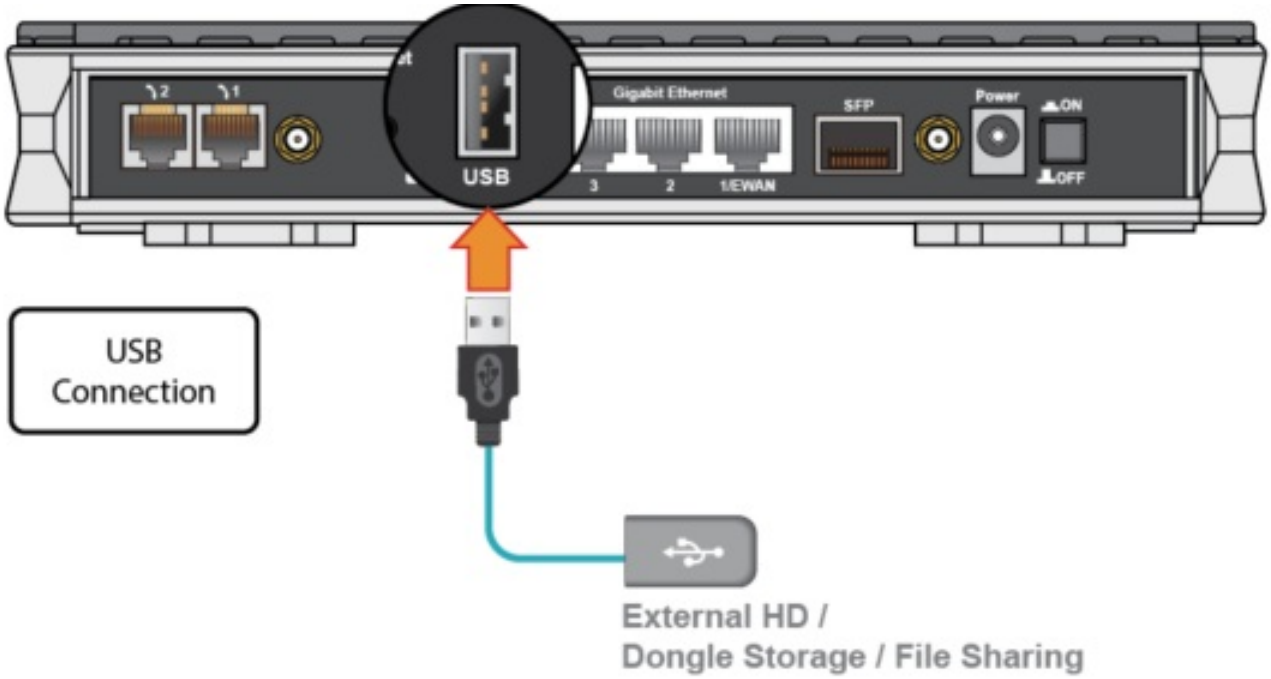
4. **Phone Connection**

   Connect RJ-11 cable(s) to Phone1 and/or Phone2 to analog phone. Go to 9900VA web GUI to set up your VoIP account(s). You can place VoIP calls simultaneously once registered with a VoIP service.



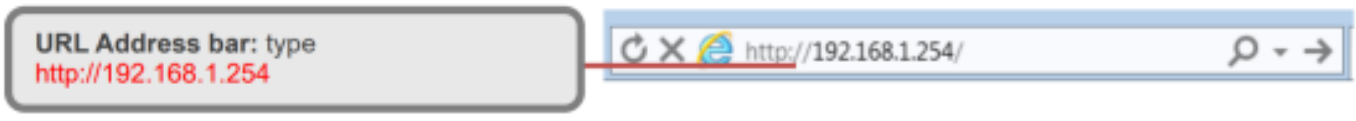
5. **USB Connection**

   FTP or Samba Server attached to the USB port. Simply plug in an external USB HD and do a setup in the web GUI. <Please refer to User Manual for detailed instructions.>



Connecting to the Router

The default IP of the 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 and password.
*This username/password may vary by different Internet Service Providers.
Quick Setup Your Router

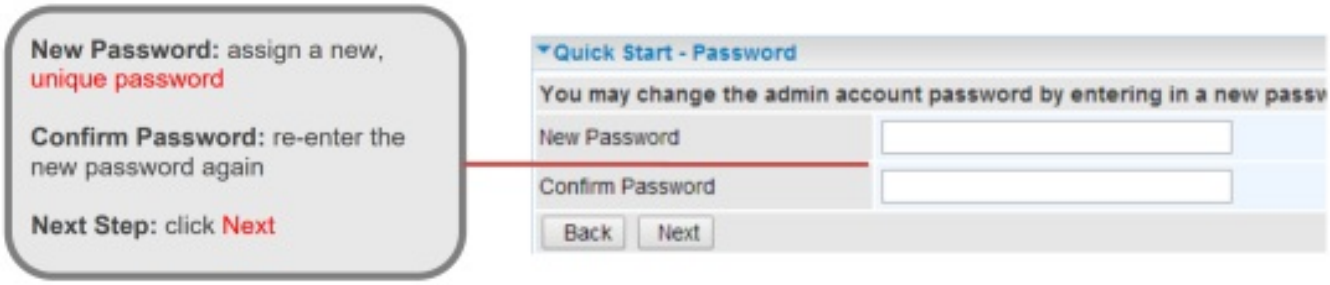
Use the Quick Start for a fast connection setup.

For Wired Broadband Connection (Ethernet WAN) – Before starting configuring the device, make sure you connect the 9900VA with your primary internet router.

Step 1: Change administration password

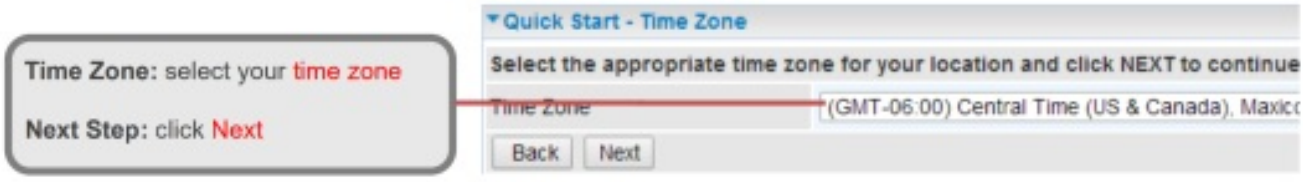
Setup a new password for the “admin” account for device management. The default password is “admin”. Click Continue to go on to the next step.

*The password may vary by different Internet Service Providers.

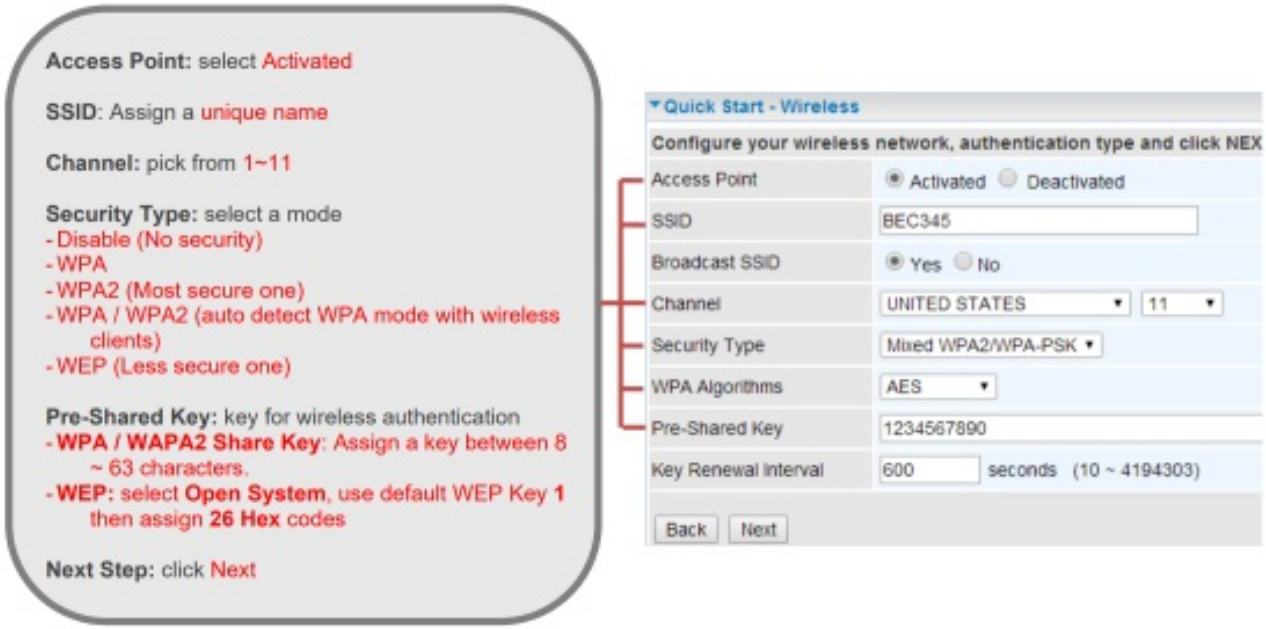


Step 2: Time Zone configuration

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

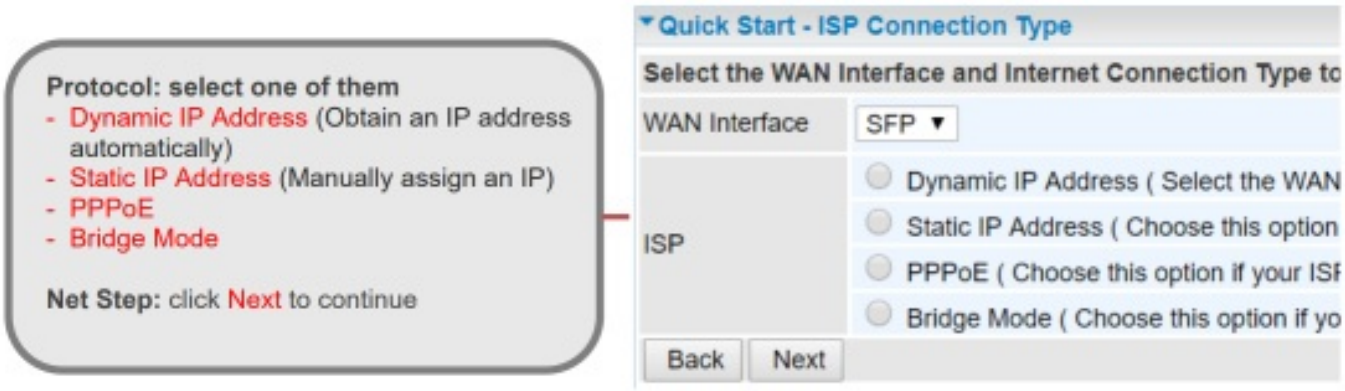


Step 3: Setup Wireless Connection



Step 4: WAN / Internet Connection Setup

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



Step 5: Save Confirmation Settings
Click “Next” to save and complete the Quick Setup.
You should now be able to access the Internet.
Please see the relevant sections of the 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 your Internet Service Provider or visit us at **www.bectechnologies.net.**

FCC Statement

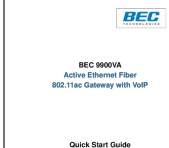
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate 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.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body

Documents / Resources

	BEC TECHNOLOGIES 9900VA Active Ethernet Fiber 802.11ac Gateway with VoIP [pdf] User Guide BEC-9900VA, BEC9900VA, QI3BEC-9900VA, QI3BEC9900VA, 9900VA Active Ethernet Fiber 802.11ac Gateway with VoIP, 9900VA, Active Ethernet Fiber 802.11ac Gateway with VoIP

References

- Home - BEC Technologies, Inc.
- Home - BEC Technologies, Inc.