BEC 8920AC

Ultimum®

The Ultimate Residential Gateway with 802.11ac
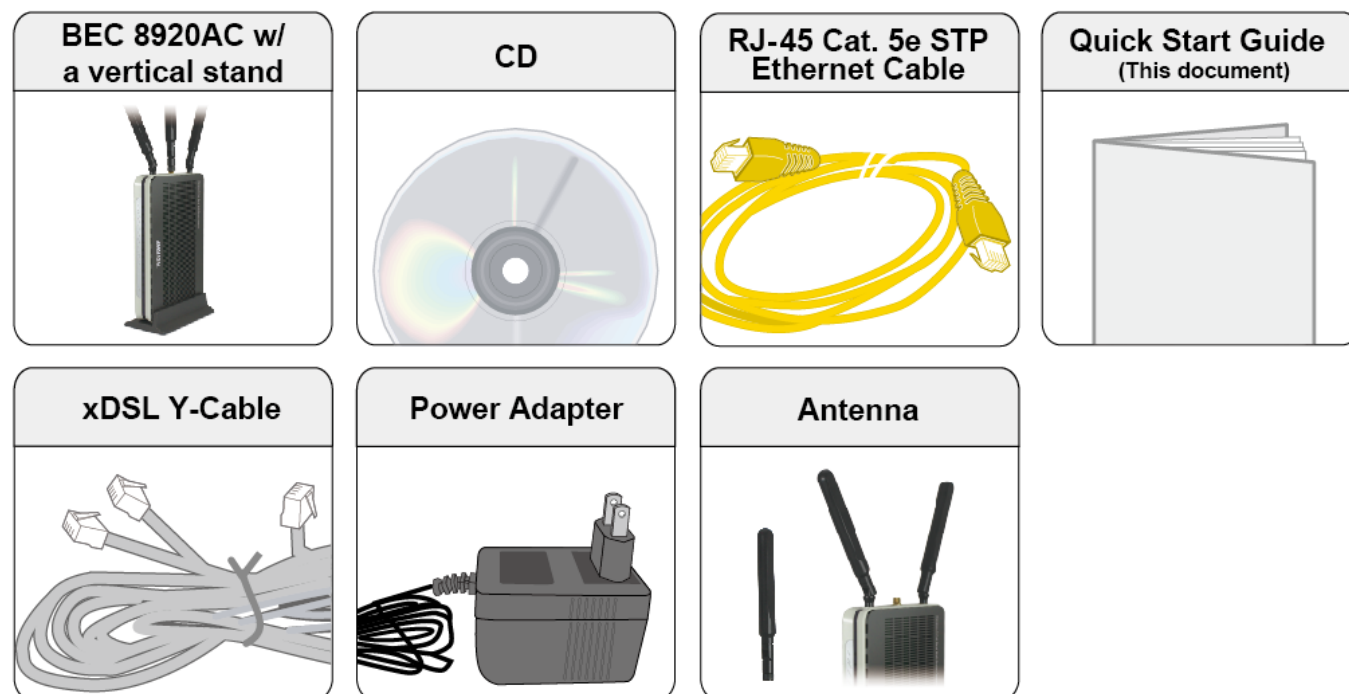
VDSL2/ADSL2+/Bonded/FTTH

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 USER MANUAL ON CD-ROM.

Package Contents

✓ BEC 8920ACS The Residential Gateway with 802.11ac * 1

✓ This Quick Installation Guide * 1

✓ CD containing User Manual * 1

✓ Vertical Stand * 1

✓ RJ-45 Ethernet Cable * 1

✓ Y-Cable for xDSL bonded operation * 1

✓ Detachable Antenna * 1

✓ Power adaptor * 1

BEC 8920AC w/ a vertical stand	CD	RJ-45 Cat. 5e STP Ethernet Cable	Quick Start Guide (This document)

xDSL Y-Cable	Power Adapter	Antenna

Warning

● **Do not use the router in high humidity or 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 other accessories outdoors.**

Attention

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

Front Panel LEDs

| LED	STATUS	DESCRIPTION
PWR (Power)	Red	System failure or in emergency mode
	Green	System is up and ready
	Off	Device has no power.
Gigabit EWAN / ETH 5 (Ethernet)	*Can be configured to be WAN port for broadband connectivity*	
	Green	**Ethernet LAN** : Connected to an Gigabit (1000Mbps) Ethernet device **Ethernet WAN**: Successfully connected with a broadband connection device
	Orange	LAN port is connected to an 10/100Mbps Ethernet device
	Blinking	Data being transmitted/received
	Off	No device is connected to the Ethernet port
Gigabit ETH 1~4 (Ethernet)	Green	LAN port is connected to an 1000Mbps Ethernet device
	Orange	LAN port is connected to an 10/100Mbps Ethernet device
	Blinking	Data being transmitted/received
	Off	No device is connected to the Ethernet port
Wireless 2.4GHz / 5GHz	Green	Wireless connection established
	Blinking	Data being transmitted / received
	Off	Wireless being turned off
WPS	Green	Wireless device(s) being connected successfully via WPS mode
	Blinking	WPS is enabled and trying to establish a WPS connection.
	Off	WPS being turned off
DSL1 / DSL2	Green	Successfully connected to an ADSL DSLAM (Line Synced).
	Off	DSL cable is unplugged
INET (Internet)	Green	IP received and traffic is passing thru the device.
	Blinking	Data being transmitted / received
	Red	BEC 8920AC is unable to get a public (WAN) IP address
	Off	BEC 8920AC is either in bridged mode or WAN (DSL) connection is not ready

Panel labels (top to bottom): PWR, EWAN ETH 5, ETH 4, ETH 3, ETH 2, ETH 1, 2.4Gz, 5Gz, WPS, DSL1, DSL2, INET

Rear Panel Connectors

PORT	MEANING
1. Power ON/OFF	Power ON/OFF switch
2. PWR (Power)	Connect the supplied Power Adapter to this port.
3. WPS / Wi-Fi On/Off	By controlling the pressing time, users can achieve two different effects: **(1) WPS***: 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 On/Off the wireless. *** For WPS configuration, please refer to the WPS section in the User Manual.**
4. Reset	Push and hold the reset button for five (5) seconds to restore to its factory default settings (this is used when you cannot login to the router, e.g. forgot your password)
5. E (Gb EWAN)	Connect to Fiber/ Cable/ xDSL Modem with a RJ-45 cable, for broadband connectivity. **Note: LAN 5 automatically becomes an EWAN port when EWAN internet interface is being selected in the GUI**
6. Gb LAN Ethernet (1~5)	Connect PCs, Laptops or any other office/home LAN devices with the supplied RJ-45 Ethernet cable (Cat-5 or Cat-5e) to any of the five LAN ports. **Note: Port 5 is a LAN / WAN Configurable Port**
7. USB	Connect with a 3G or 4G/LTE USB adaptor/dongle for mobile connectivity.
8. DSL	Connect the device to an ADSL/VDSL telephone jack or splitter using a RJ-11 telephone cable / Y-Cable for xDSL bonded

Hardware Connection
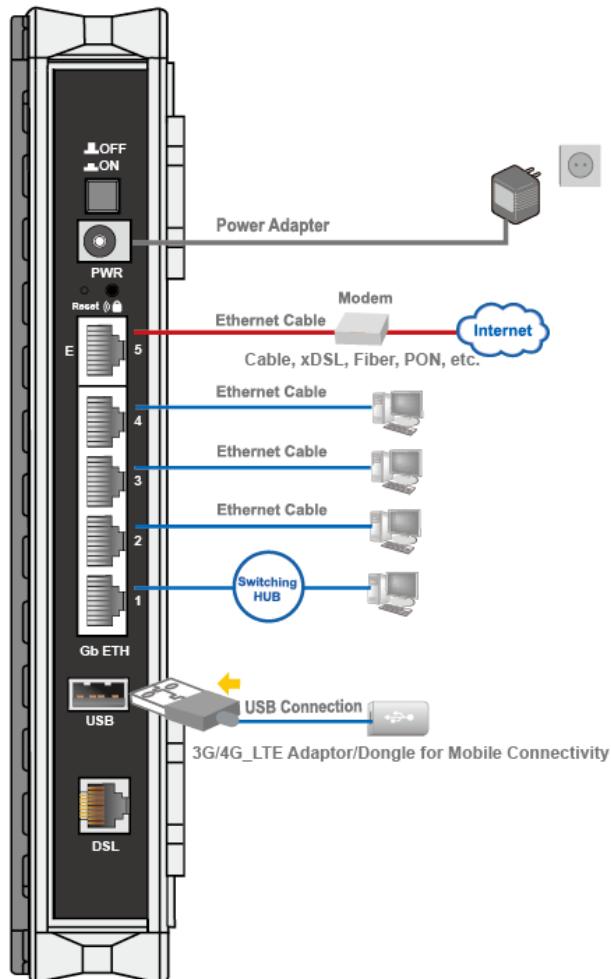
xDSL Connection – Single Pair
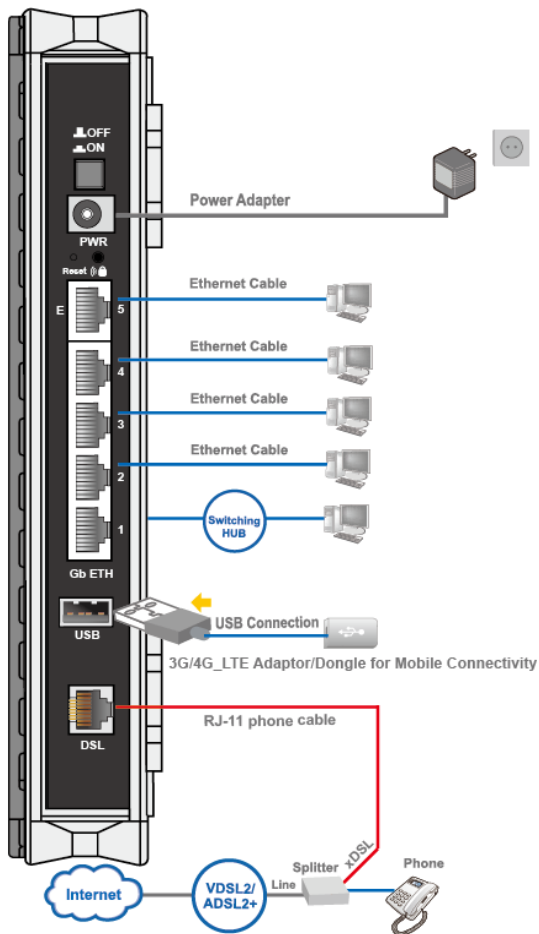

xDSL Connection – Bonding
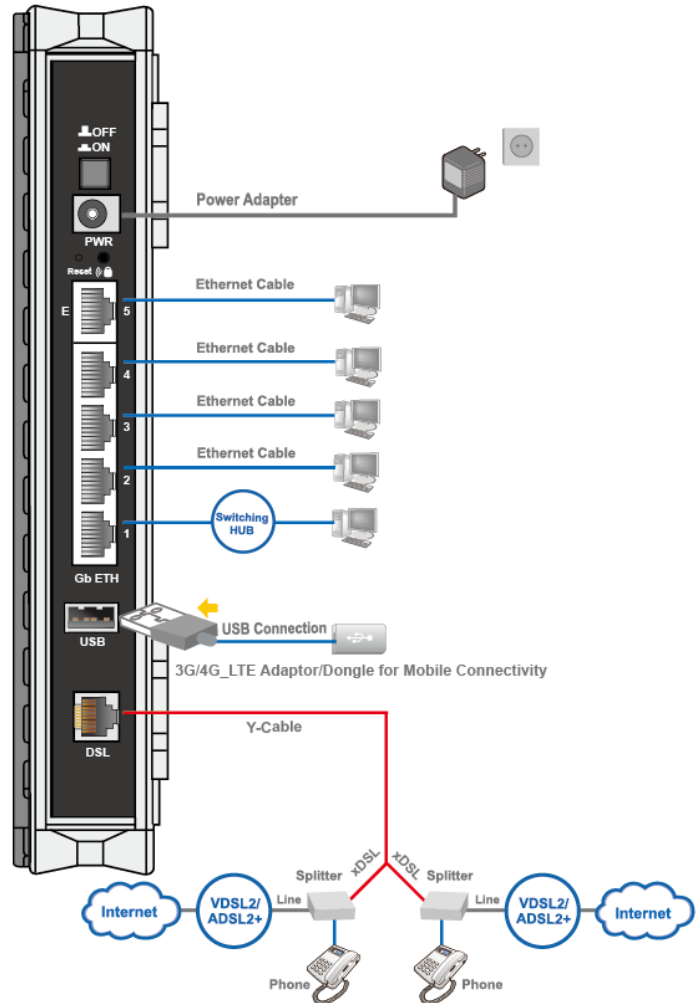
FTTH / Broadband Connection

The Ethernet 5 is an interchangeable LAN/WAN port. Refer to the User Manual to change this port to EWAN interface to connect with your Fiber, Cable, or xDSL modem.

Automatic WAN Failover

The automatic failover ensures uninterrupted operation and 24/7 Internet availability. When Primary WAN connection fails, the Secondary connection will back up the Internet connection seamlessly.
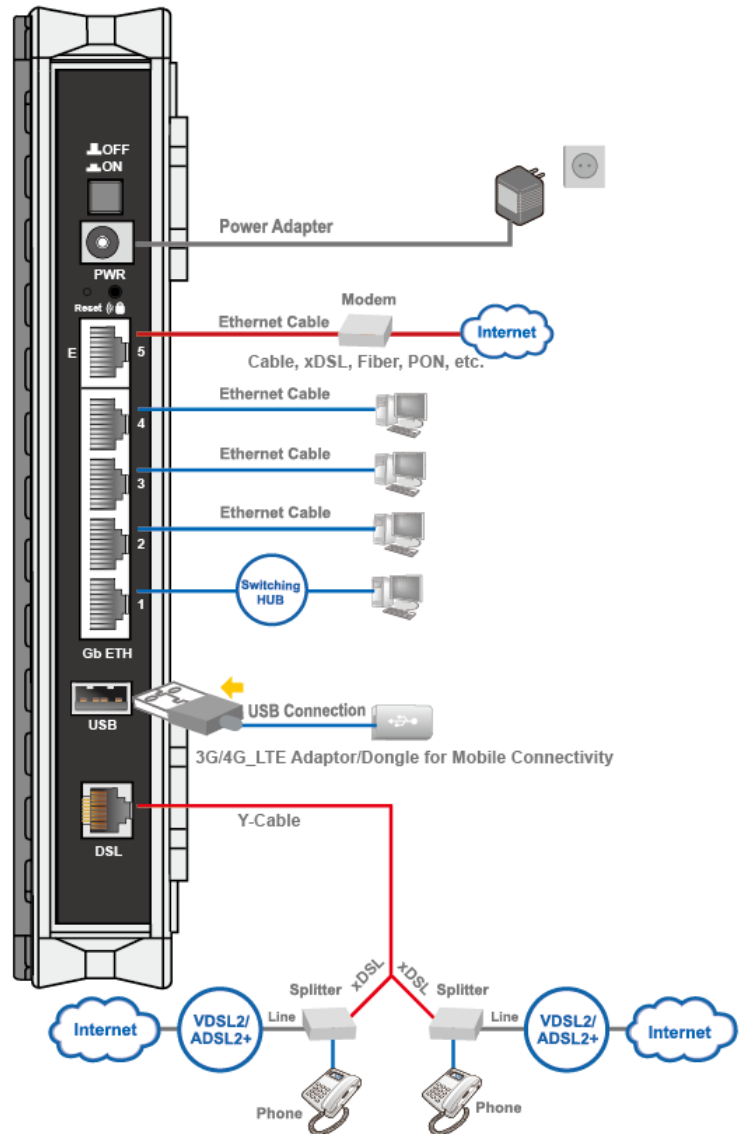
Hardware Installation

1. Attach the Vertical Stand to the 8920AC

Setup your 8920AC in a vertical position using the stand provided in the package and place it on a stable surface for proper operation.

To correctly insert the vertical stand to the 8920AC, left up the router with PWR (Power LED) facing upward then slide it into the stand by attaching the wider side of the vertical stand to the top casing (BEC Logo) and shorter side on the back of the 8920AC
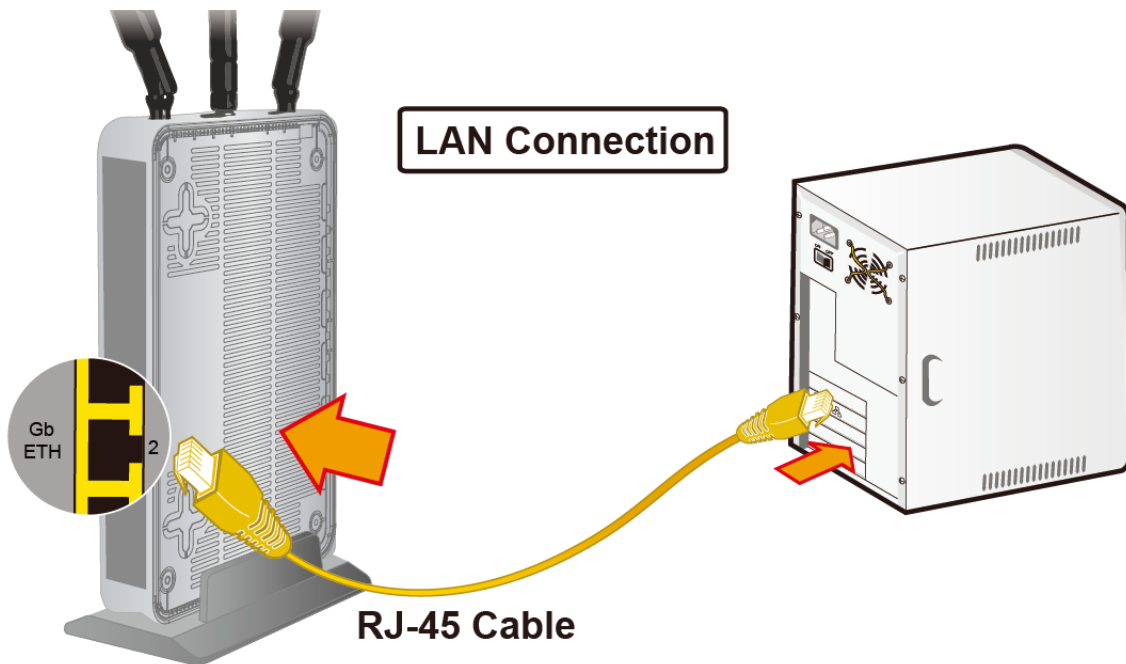

.

2. Power Connection

Plug in the supplied power adapter to the wall jack, the other side to the 8920AC then power **ON** the 8920AC by pressing the Power On/Off button.
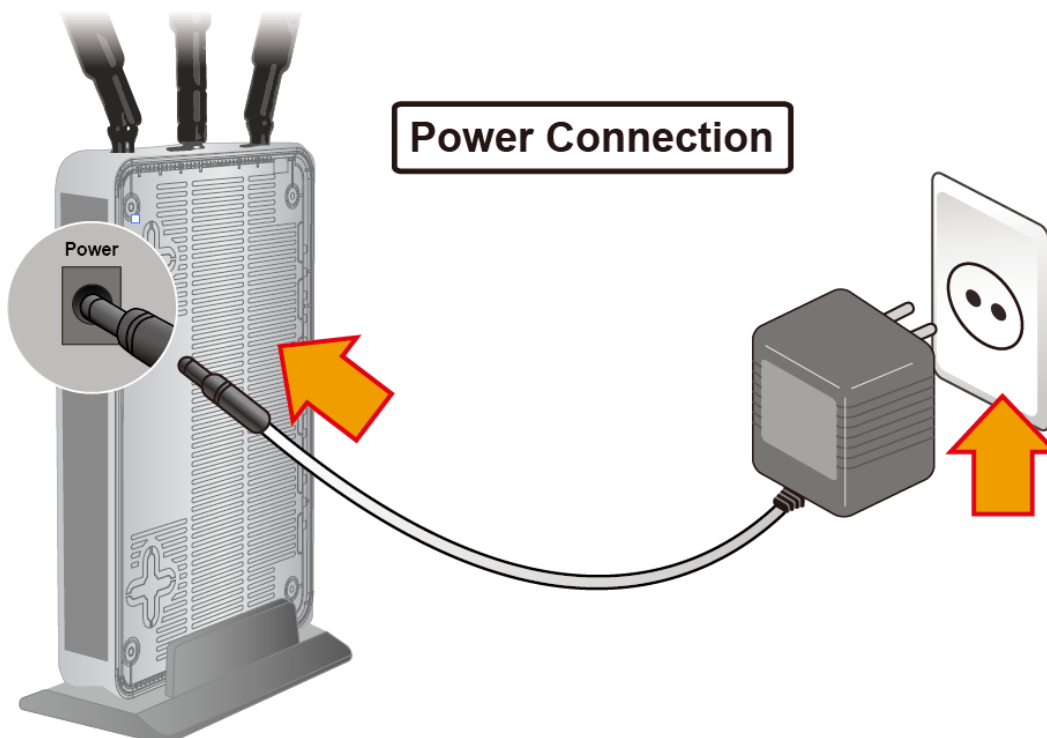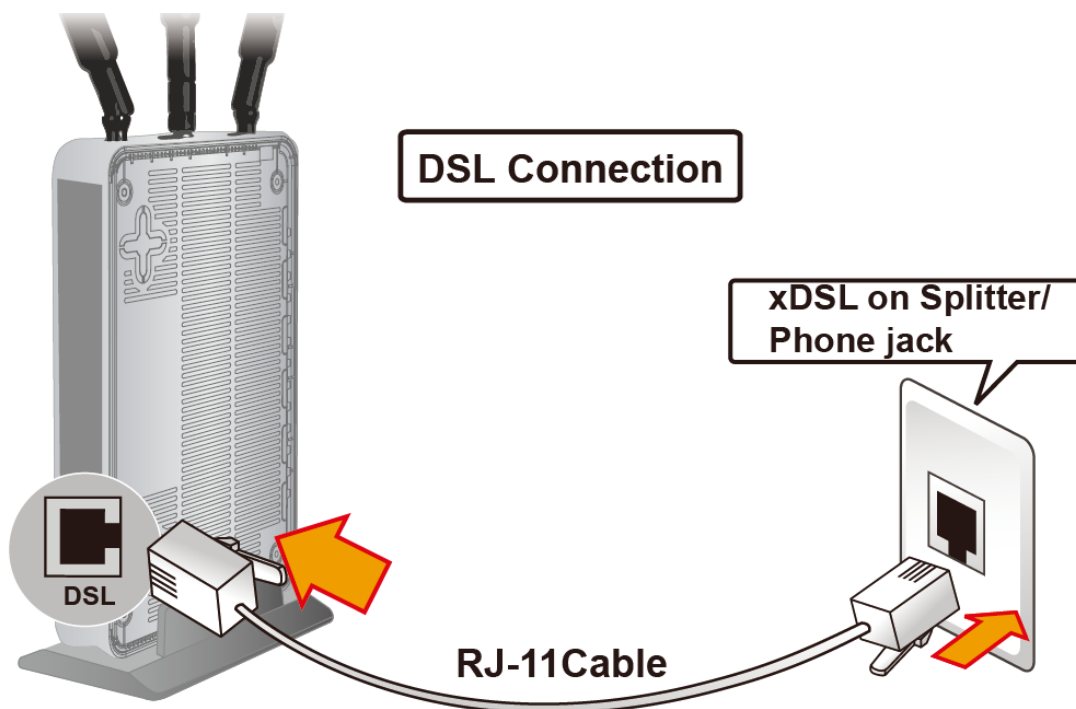
3. LAN Connection

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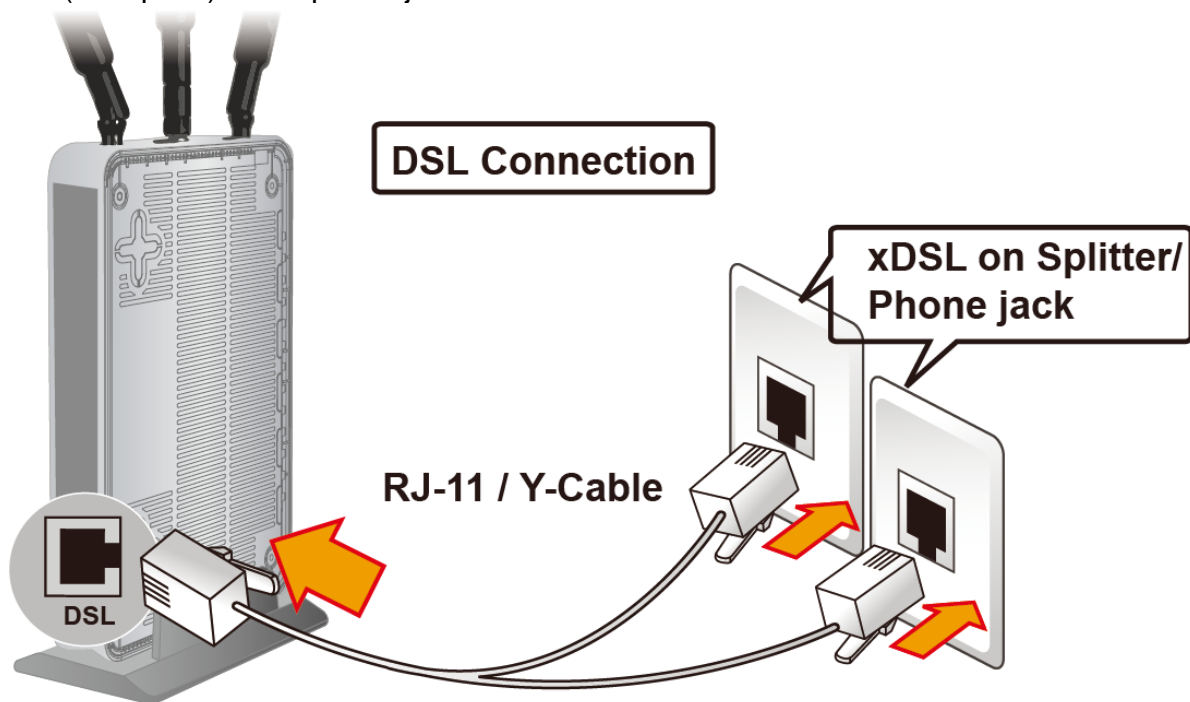

4. WAN Connection

4.1 xDSL Interface

For **single line xDSL**, please connect the supplied Y-Cable or a regular RJ-11 phone cable to the **DSL port** and the other side to the phone jack on the wall.

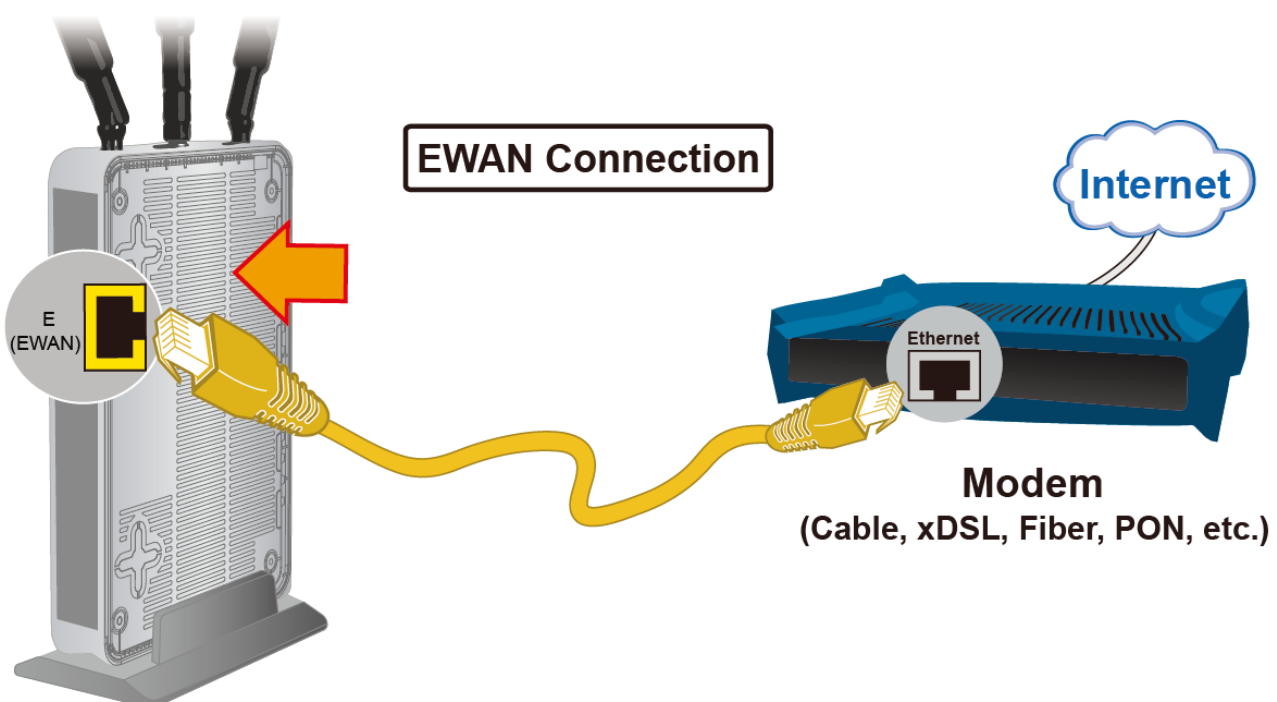For **bonded xDSL**, please connect the supplied Y-cable to the **DSL port**, and the other two ends (both pairs) to the phone jacks on the wall.


4.2 EWAN Interface

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. **<Please refer to User Manual for detailed instruction.>**

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.

URL Address bar: type
http://192.168.1.254
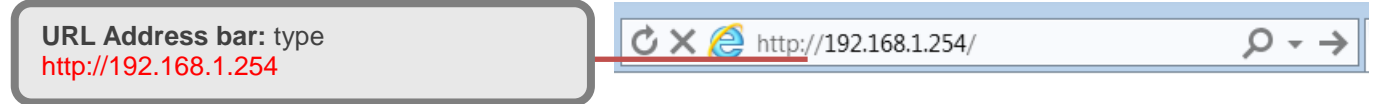
The login prompt will appear. Input the default username (**admin**) and password (**admin**) for Account type, Administrator. *This username / password may vary by different Internet Service Providers.*

Quick Setup Your Router

Before start configuring your BEC 8920AC, make sure you have the WAN port connected to phone jacks or with your Internet box or fiber line.

Step 1: WAN Connection Setup

Select the primary network interface for your Internet connection, xDSL/FTTH/3G_4G LTE mode.

Click **Continue** to the next step

Step 2: Internet Connection Setup

Next to **Type**, select your Internet connection and fill out all of the appropriate fields.

Step 3: Connection attempts to the Internet

Wait for 10 - 30 seconds for 8920AC to establish an Internet connection.

Step 4: Internet connection established

"Congregations!" message will be shown if the Internet connection is ready to go.

<u>**Step 5: Setup Wireless Connection**</u>
Setup the SSIDs and change the Security Passphrase to secure your wireless network.

Wireless Service: select Enable

SSID: Assign an unique name

Network Authentication: select a mode
- WPA-PSK
- WPA2-PSK (Most secure one)
- Mixed WPA2 / WPA-PSK
  (Auto detect WPA mode with wireless
  clients)
- Open + WEP Enable (Less secure)
- Share + WEP Enable (Less secure)
- Open + WEP Disable (No security)

Passphrase: key for wireless authentication
- **WPA-PSK, WAPA2-PSK**: Assign a key
       between 8 ~ 63 characters.
- **WEP:** select **Open or Share System**, use
       default WEP Key **1** then assign **26 Hex**
       codes

Next Step: click Apply

▼ Basic

Parameters

Wireless	☑ Enable
Hide SSID	☐ Enable
Clients Isolation	☐ Enable
Disable WMM Advertise	☐ Enable
Wireless Multicast Forwarding (WMF)	☐ Enable
SSID	wlan-ap-5g
BSSID	00:04:ED:EC:FF:F8

▼ Security

If Hide Access Point enabled or Mac filter list is empty with 'allow' chosen, WPA2 will be disabled.

WPS Setup

WPS	Disable ⌄	(Current: Disable)

Manual Setup AP

Select SSID	wlan-ap-5g ⌄	
Network Authentication	Mixed WPA2/WPA -PSK ⌄	
WPA/WAPI passphrase	●●●●●●●●	Click here to display
WPA Group Rekey Interval	0	[0-2147483647]
WPA/WAPI Encryption	TKIP+AES ⌄	

Please see the relevant sections of User Manual for more 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.

Version 2.0