



BEC 8920NE

Ultimum[®]

The Ultimate Residential Gateway

VDSL2/ADSL2+/Bonded/FTTH

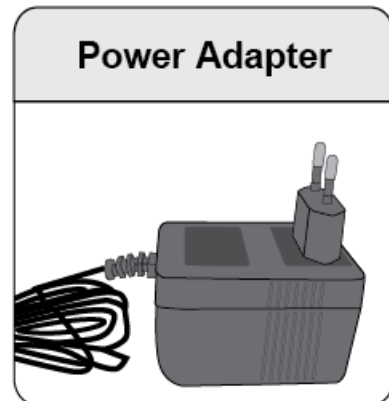
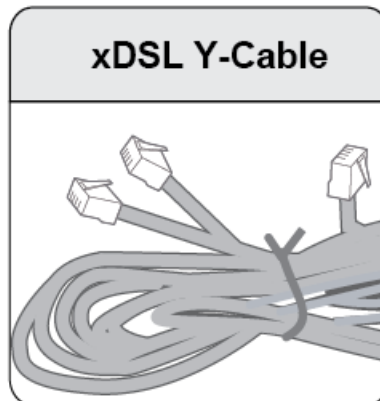
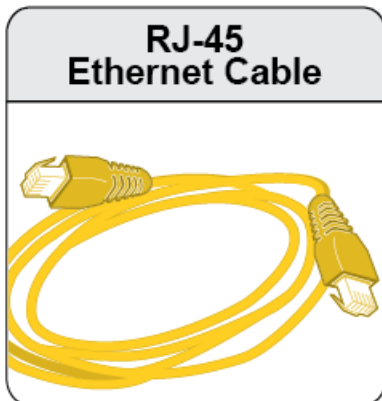
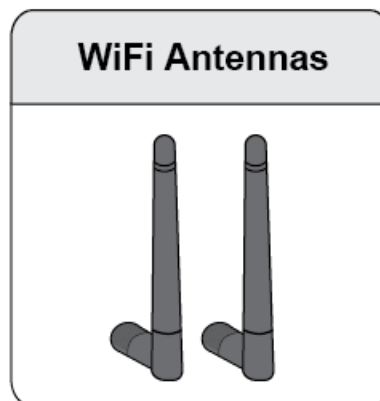
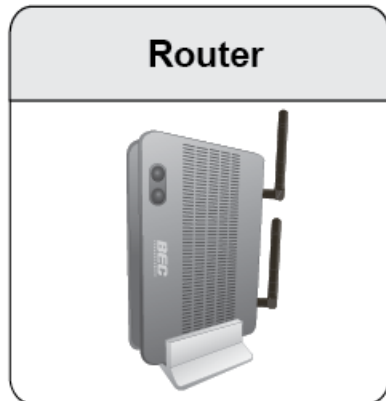
Quick Start Guide



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 8920NE The Ultimate Residential Gateway
- ✓ RJ-45 Ethernet Cable
- ✓ Y-Cable for xDSL bonded operation
- ✓ Two wireless detachable antennas
- ✓ Power adaptor



Warning

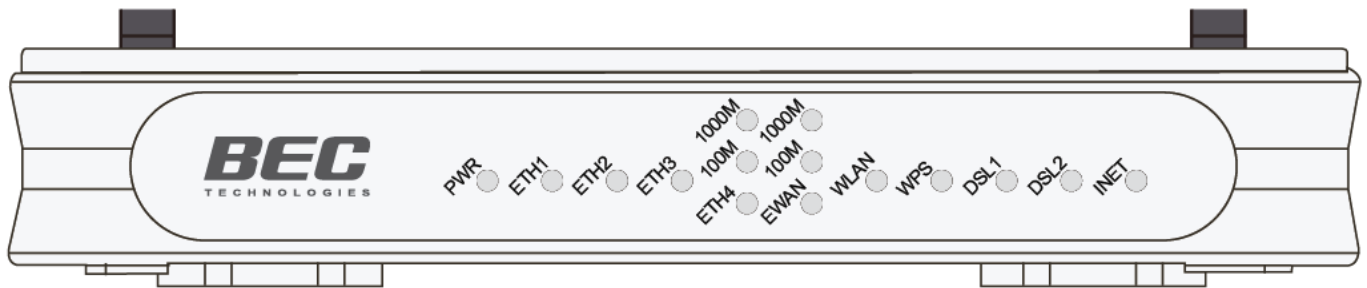
- Do not use the router in high humidity or high temperatures.
- Do not use the same power source for the router as other equipment.
- Do not open or repair the case yourself. If the router is too hot, turn off the power immediately and have it repaired at a qualified service center.
- Avoid using this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



Attention

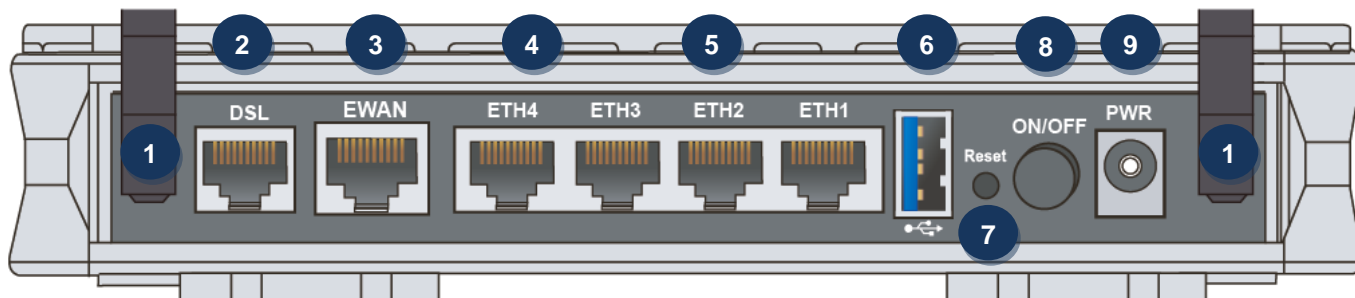
- Place the router on a stable surface.
- Only use the power adaptor that comes with the package. Using a different voltage rating power adaptor may damage the router.

Front Panel LEDs



LED	STATUS	DESCRIPTION
Power (PWR)	Green	System is up and ready
	Off	Device has no power.
Ethernet (ETH) Port 1 - 3	Green	LAN port is connected to an Ethernet device
	Blinking	Data being transmitted/received
	Off	No device is connected to the Ethernet port
Gigabit Ethernet Port 4	This is a Gigabit LAN Ethernet port.	
	Green	BEC 8920NE is successfully connected with a broadband connection device.
	Blinking	Data being transmitted/received
	Off	No device is connected to the Ethernet port
Gigabit Ethernet WAN (EWAN)	WAN port for broadband connectivity	
	Green	BEC 8920NE is successfully connected with a broadband connection device.
Wireless (WLAN)	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 registered and ready to be used.
	Orange	Phone is off-hook, in-use
Internet (INET)	Green	IP received and traffic is passing thru the device.
	Blinking	Data being transmitted / received
	Off	BEC 8920NE is either in bridged mode or WAN/DSL connection is not ready.

Rear Panel Connectors

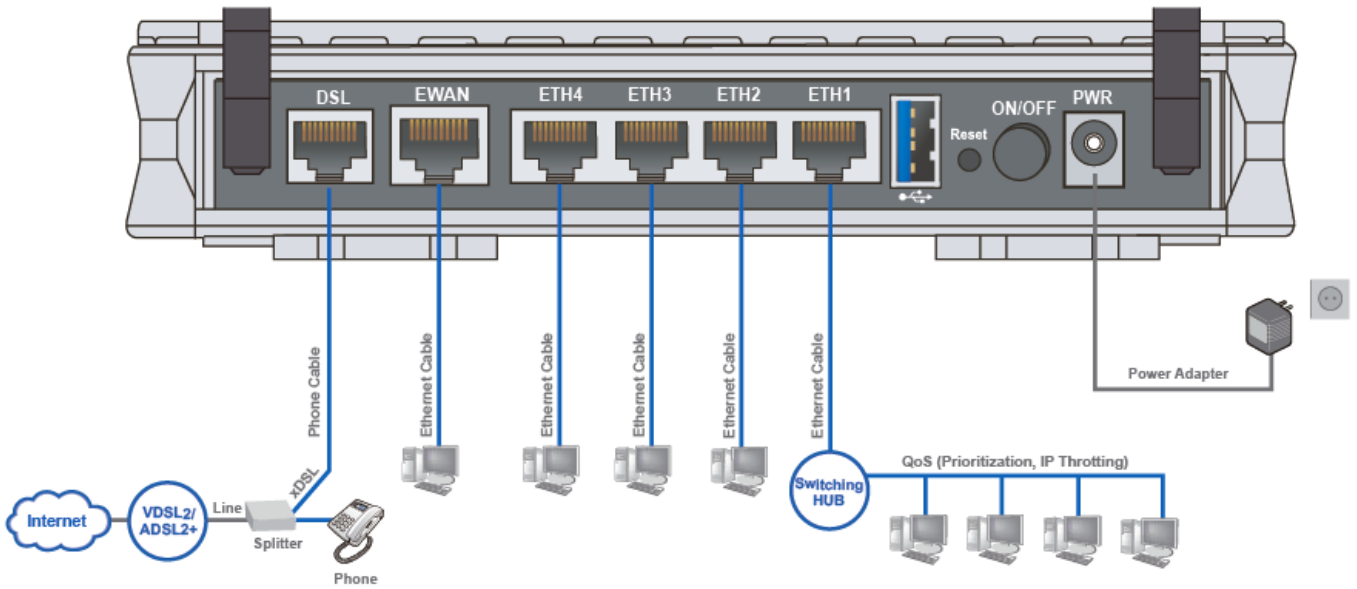


PORT		MEANING
1	Antenna	Screw the supplied Wi-Fi antennas onto the antenna connectors on both sides.
2	DSL	Connect the device to an ADSL/VDSL telephone jack or splitter using a RJ-11 telephone cable
3	Gigabit EWAN	Connect to Fiber/ Cable/ xDSL Modem with a RJ-45 cable
4	Gigabit LAN Ethernet (ETH4)	Connect 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
5	LAN Ethernet (ETH 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.
6	USB	USB function is not available
7	Reset	Press the reset button to restore to factory default settings (this is used when you cannot login to the router, e.g. forgot your password)
8	Power ON/OFF	Power ON/OFF switch
9	Power (PWR)	Connect the supplied Power Adapter to this port.

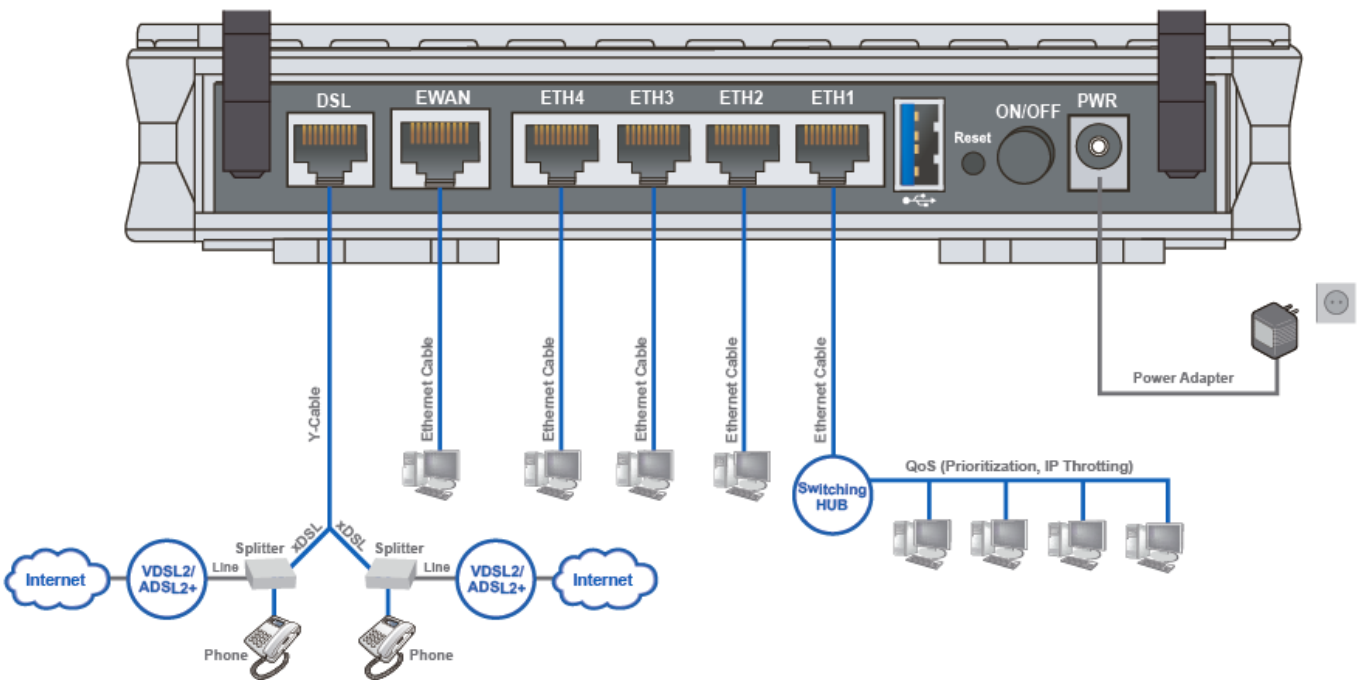
*** Note: 1. For WPS configuration, please refer to the WPS section in the User Manual.**

Hardware Connection

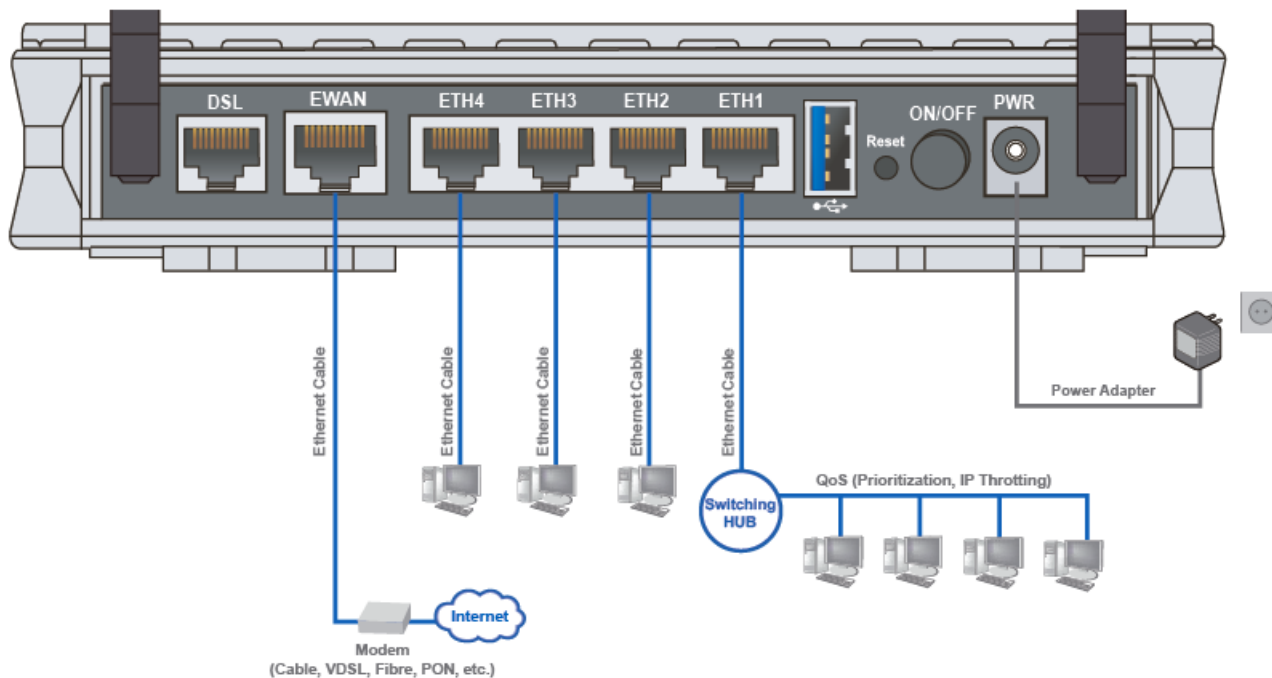
xDSL Connection – Single Pair



xDSL Connection – Bonding



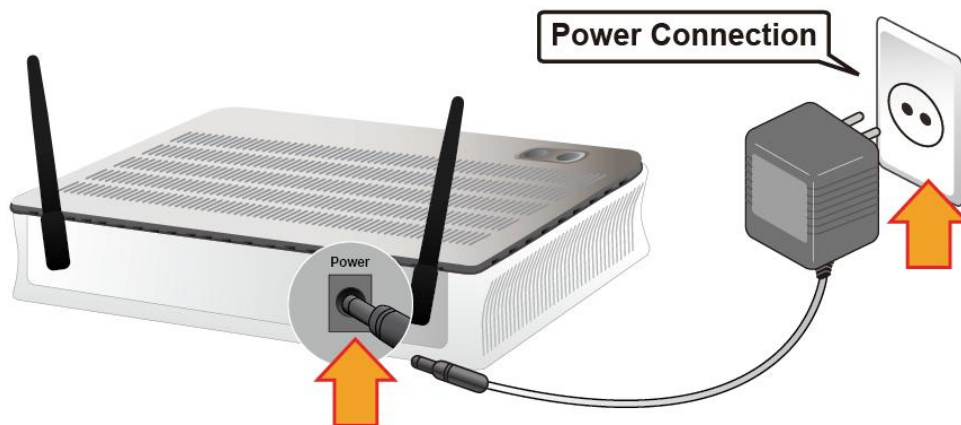
FTTH / Broadband Connection



Hardware Installation

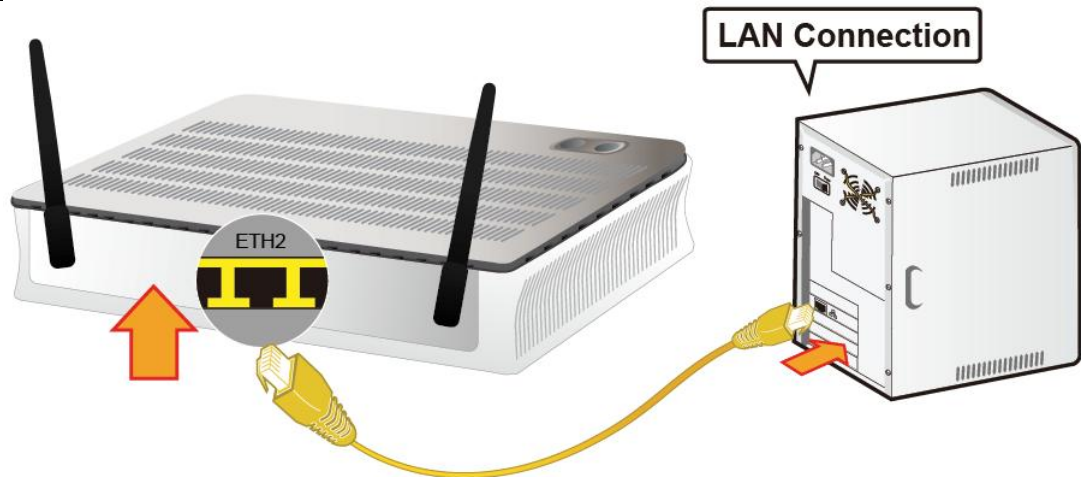
1. Power Connection

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



2. LAN Connection

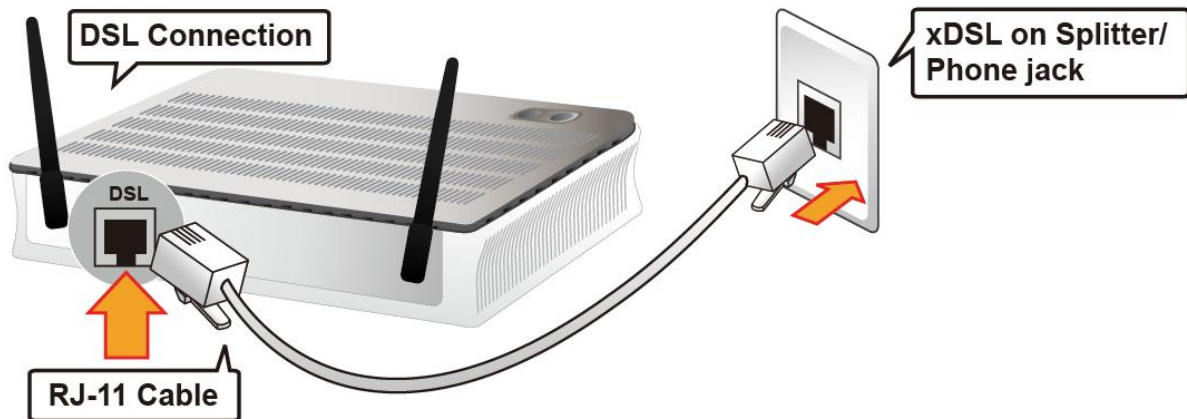
Connect the supplied RJ-45 Ethernet cable to one of the Ethernet ports, and the other side to the PC's Ethernet interface.



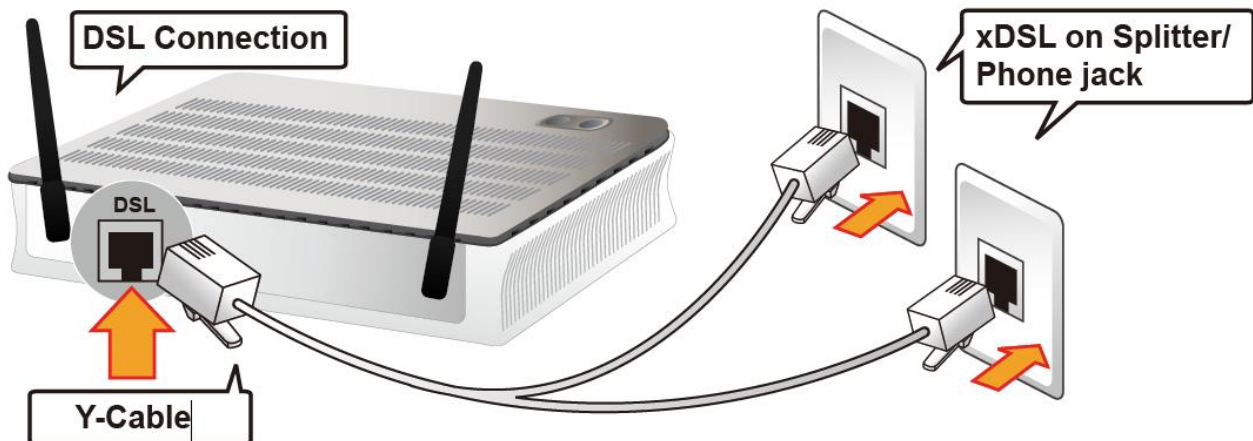
3. WAN Connection

3.1 xDSL Interface

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

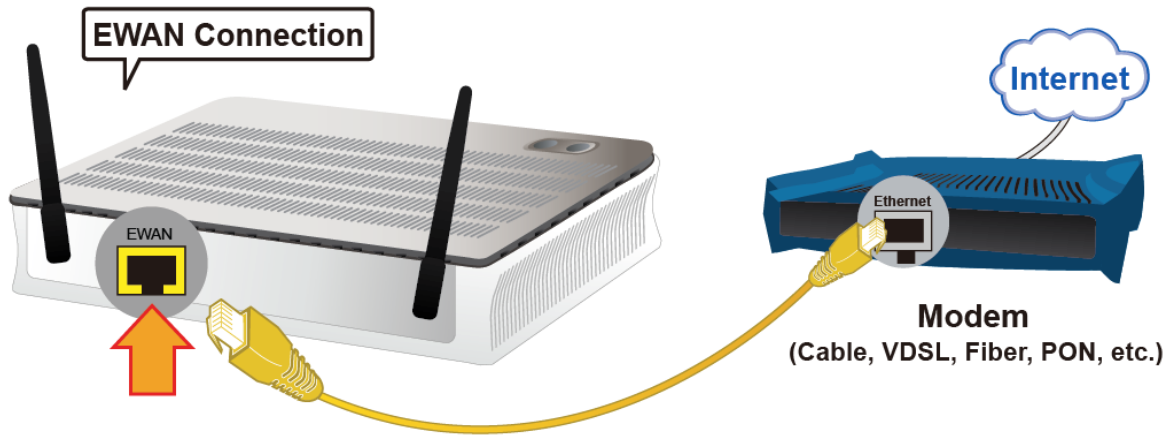


For **bonded xDSL**, please connect the supplied Y-cable to the **DSL port**, and the other two ends to the phone jacks on the wall.



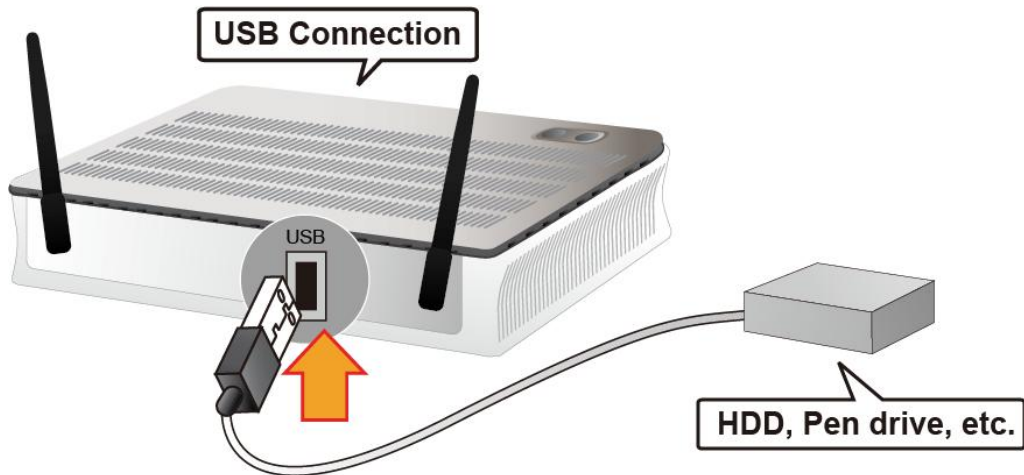
3.2 EWAN Interface

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.>



4. USB Connection

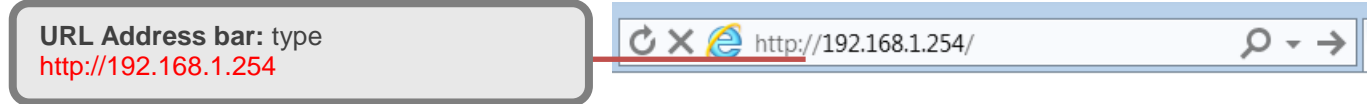
FTP or Samba Server attached to the USB port. Simply plug in an external USB HD and do a setup in the GUI. <Please refer to User Manual for detailed instruction.>



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.



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 8920NE, 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 mode.

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 - 20 seconds for the Gateway to establish an Internet connection.

Step 4: Internet connection established

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

Step 5: Setup Wireless Connection

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, WPA2-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	<input checked="" type="checkbox"/> Enable
Hide SSID	<input type="checkbox"/> Enable
Clients Isolation	<input type="checkbox"/> Enable
Disable WMM Advertise	<input type="checkbox"/> Enable
Wireless Multicast Forwarding (WMF)	<input type="checkbox"/> 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 detail 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.