

## BR-6478AC V2

# User Manual

05-2021 / v2.1

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# ***I. Product Information***

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## **I-1. Package Contents**

Before you start using this product, please check if there is anything missing in the package, and contact your dealer to claim the missing item(s):



***BR-6478AC V2***



***CD-ROM***



***Ethernet Cable***






***Quick Installation Guide***

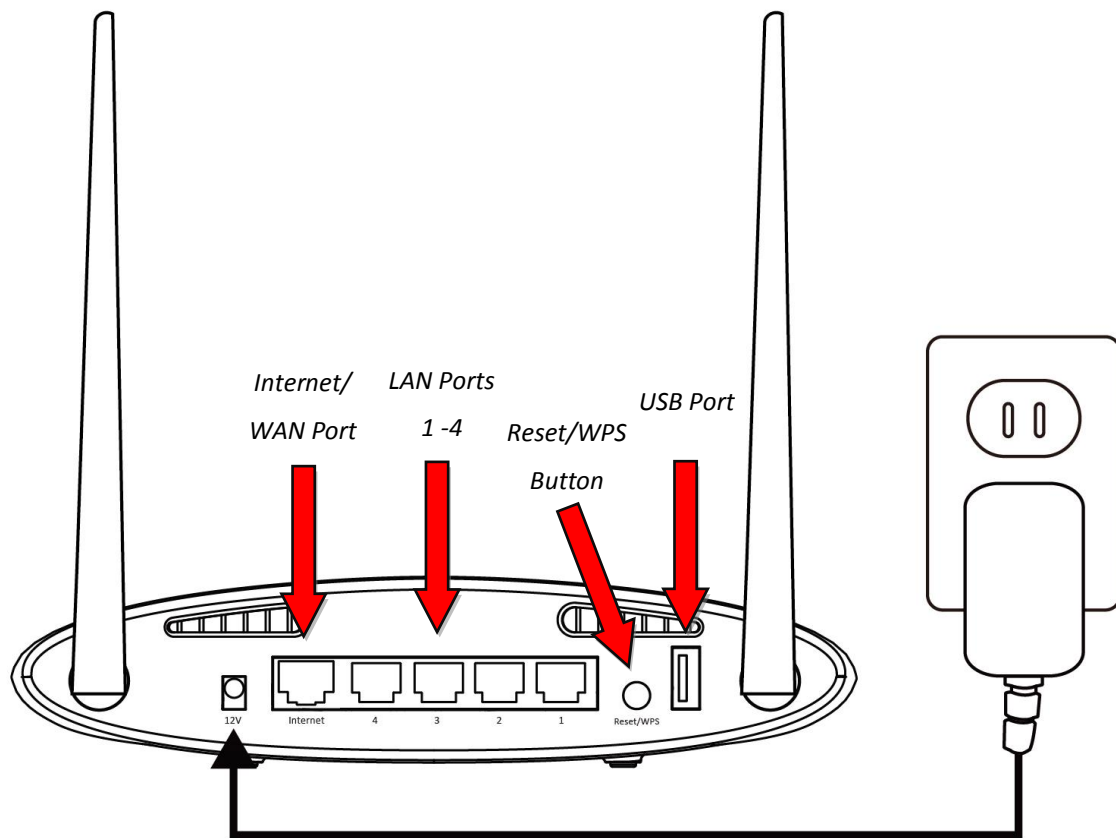


***Power Adapter***

## I-2. LED Status

LED	Color	Status	Description
Power 	White	On	The device is on.
		Off	The device is off.
Internet 	Blue	On	Internet connection is ready.
		Flashing	Restoring to factory default state, or Ethernet cable not connected, or no Internet connection.
Wi-Fi 	Blue	On	2.4G and/or 5G Wi-Fi wireless activity (transferring/receiving data).
		Flashing	WPS is active.
		Off	Wi-Fi not active.
USB	Blue	On	USB connection is ready.
		Off	USB is not active.

### I-3. Back Panel



## **I-4. Safety Information**

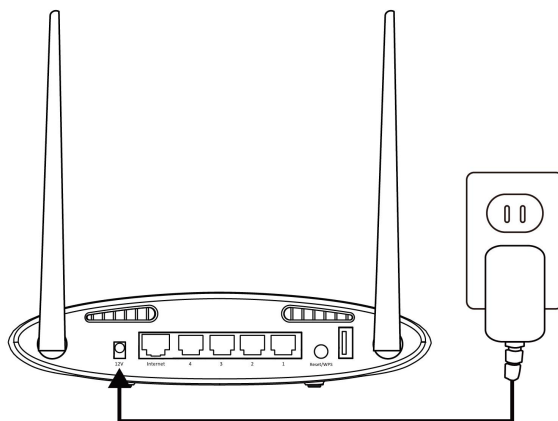
In order to ensure the safe operation of the device and its users, please read and act in accordance with the following safety instructions.

1. The device is designed for indoor use only; do not place it outdoors.
2. Do not place the device in or near hot/humid places, such as a kitchen or bathroom.
3. Do not pull any connected cable with force; carefully disconnect it from the BR-6478 AC V2.
4. Handle the device with care. Accidental damage will void the warranty of the device.
5. The device contains small parts which are a danger to small children under 3 years old. Please keep the device out of reach of children.
6. Do not place the device on paper, cloth, or other flammable materials. The device may become hot during use.
7. There are no user-serviceable parts inside the device. If you experience problems with the device, please contact your dealer of purchase and ask for help.
8. The device is an electrical device and as such, if it becomes wet for any reason, do not attempt to touch it without switching the power supply off. Contact an experienced electrical technician for further help.

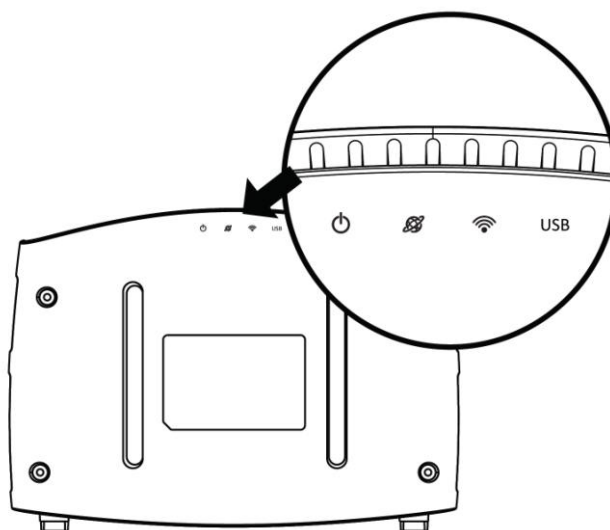
## II. Installation

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1. Plug the included power adapter into the device's 12V DC power port and the other end into an electrical socket.



2. Check that the power LED displays on.



3. Use a Wi-Fi device (e.g. computer, tablet, smartphone) to search for a Wi-Fi network with the SSID “edimax.setup” or “edimax.setup5G” and connect to it.



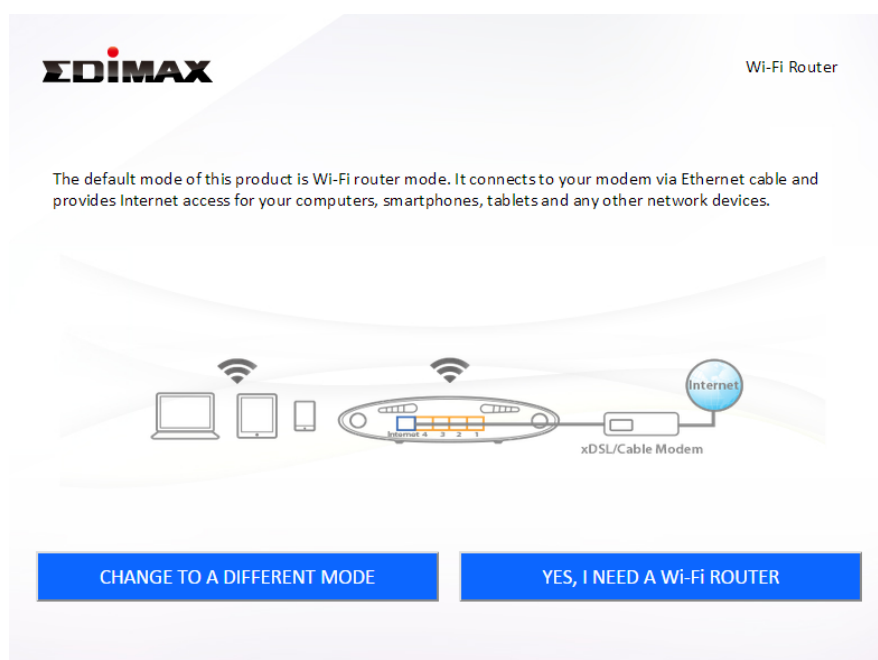
***iOS 4 or Android 4 and above are required for setup on a smartphone or tablet.***

4. Open a web browser and if you do not automatically arrive at the “Get Started” screen shown below, enter the URL ***http://edimax.setup*** and click “Get Started” to begin the setup process.



 ***If you cannot access <http://edimax.setup>, please make sure your computer is set to use a dynamic IP address.***

5. Choose if you want to use your BR-6478AC V2 in its default Wi-Fi router mode or in a different mode.

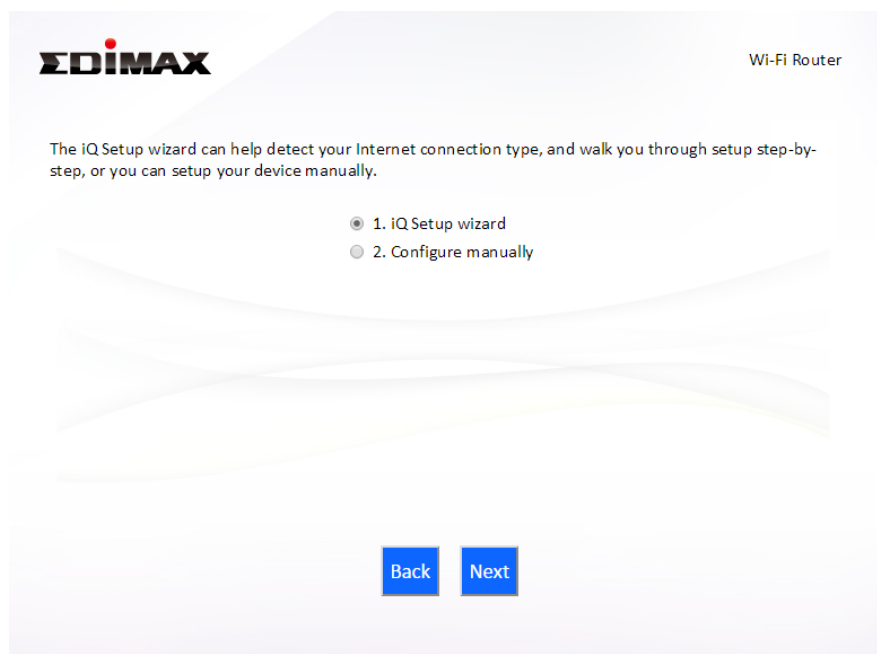


**Wi-Fi Router Mode**

*The device connects to your **modem** and provides*

	<i>2.4GHz and/or 5GHz Internet (wireless and Ethernet) access for your network devices.</i>
<b>Access Point Mode</b>	<i>The device connects to an existing <b>router</b> via Ethernet cable and provides 2.4GHz and/or 5GHz Internet (wireless and Ethernet) access for your network devices.</i>
<b>Wi-Fi Extender Mode</b>	<i>The device connects wirelessly to your existing 2.4GHz and/or 5GHz network and repeats the wireless signal(s).</i>
<b>Wi-Fi Bridge Mode</b>	<i>The device connects to a network device for example: TV, gaming console, or media player via Ethernet cable and acts as a Wi-Fi bridge, allowing the network device to join your Wi-Fi network.</i>
<b>WISP Mode</b>	<i>The device connects wirelessly to your Wireless Internet Service Provider and provides 2.4GHz and/or 5GHz Internet (wireless and Ethernet) access for your network devices.</i>

**6.** Follow the on-screen instructions to complete setup. Refer to the following chapters if you need more help.

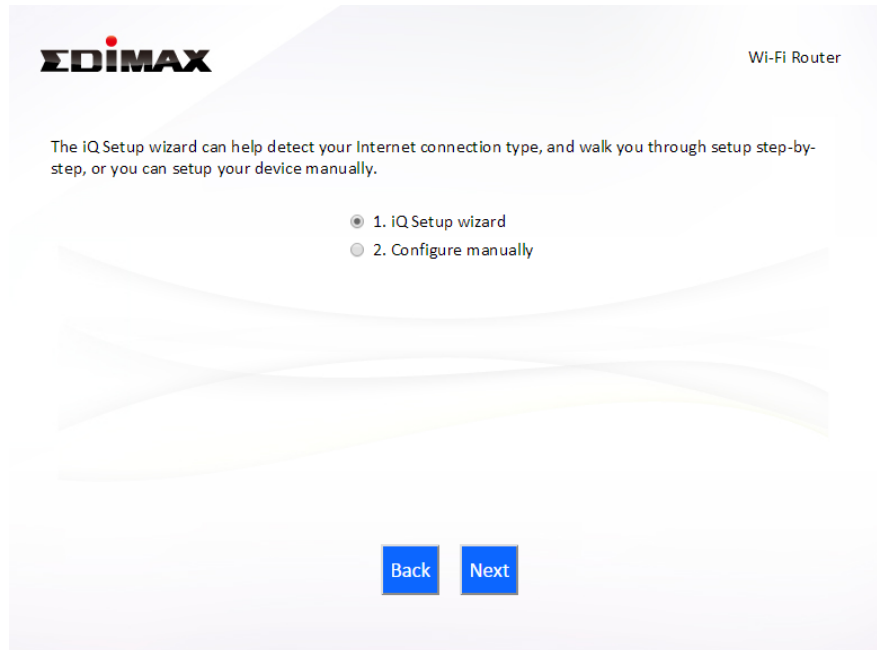


## II-1. Wi-Fi Router Mode

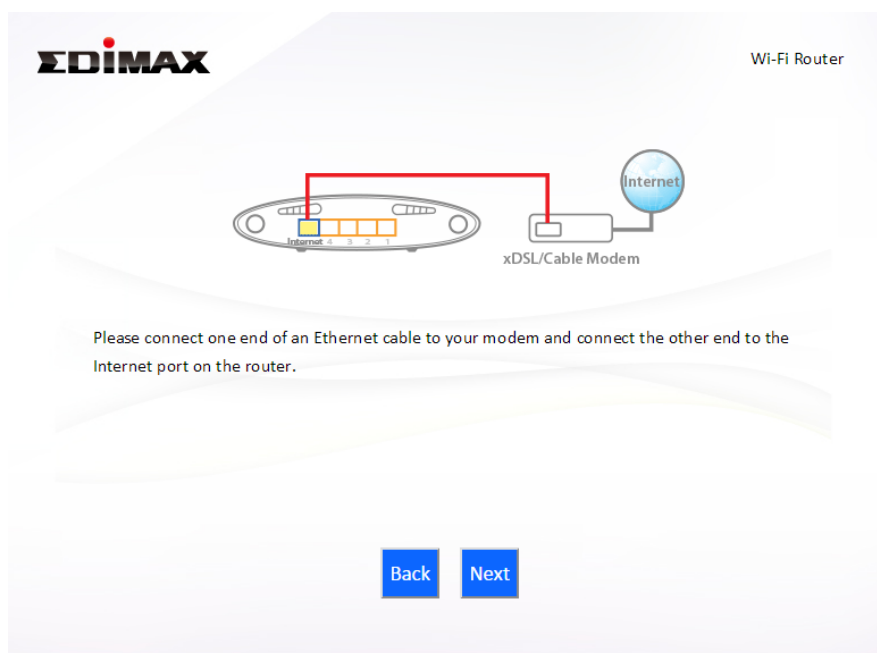
1. Select whether to use the iQ Setup wizard (recommended) to detect your Internet connection type, or enter the settings manually.



***Manual configuration is only recommended for advanced users.***

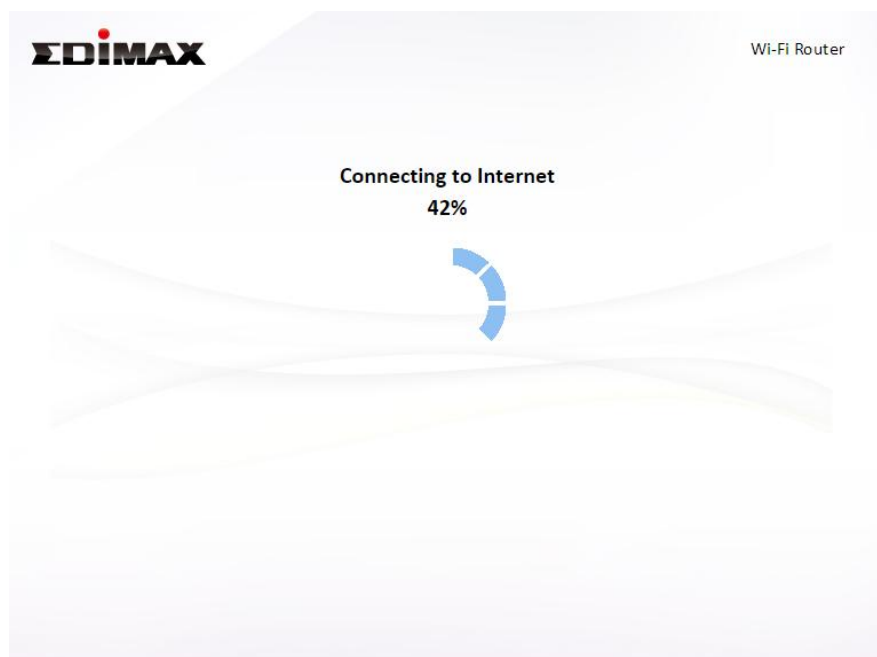


2. Connect the **blue** Internet port of your device to the LAN port of your modem using an Ethernet cable, and then click “Next”.

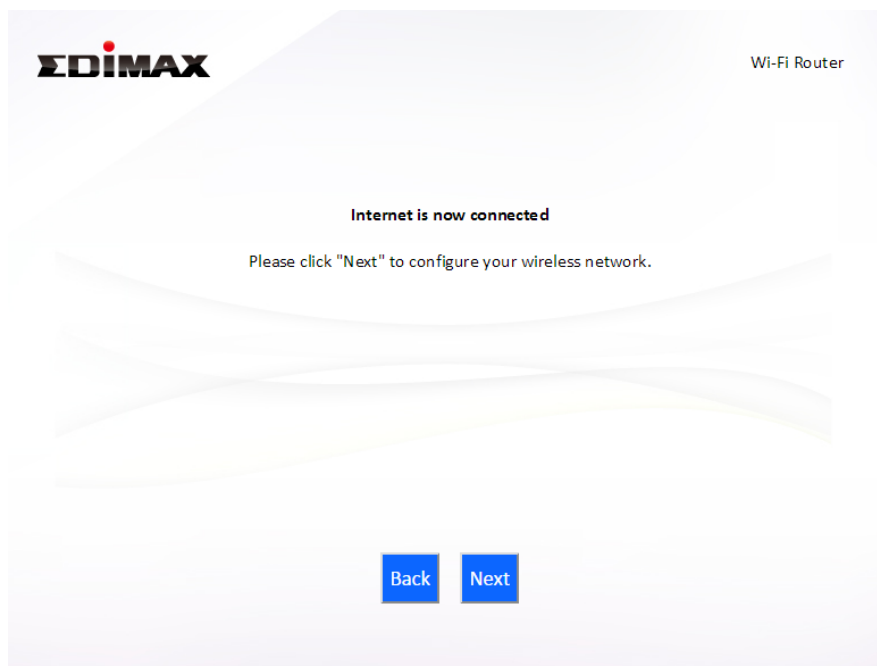




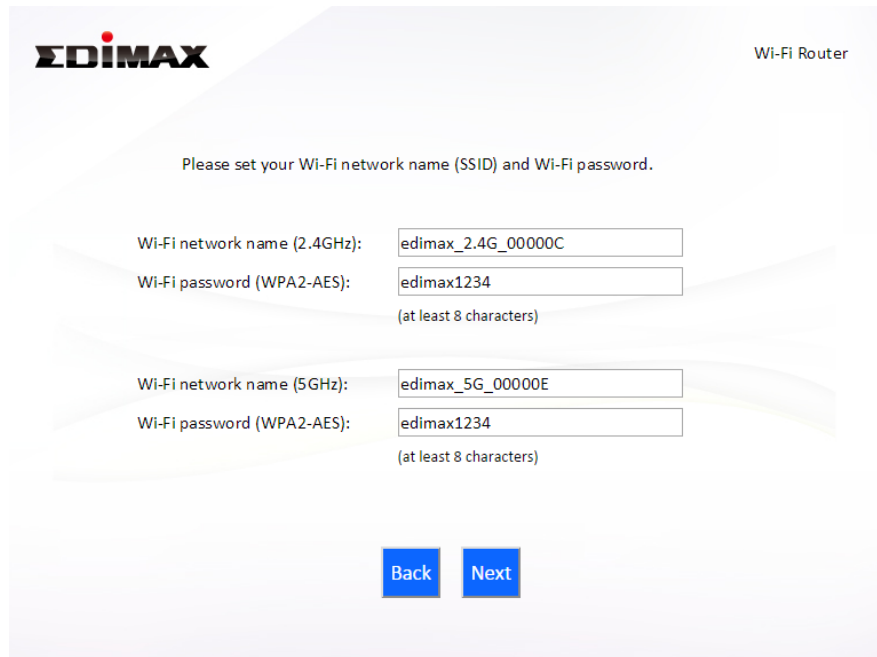
3. Please wait a moment while the device tests the connection.



4. Click “Next” to continue and configure the device’s wireless network.



5. Enter a name and password for your 2.4GHz & 5GHz wireless networks, then click “Next” to continue.



**EDIMAX** Wi-Fi Router

Please set your Wi-Fi network name (SSID) and Wi-Fi password.

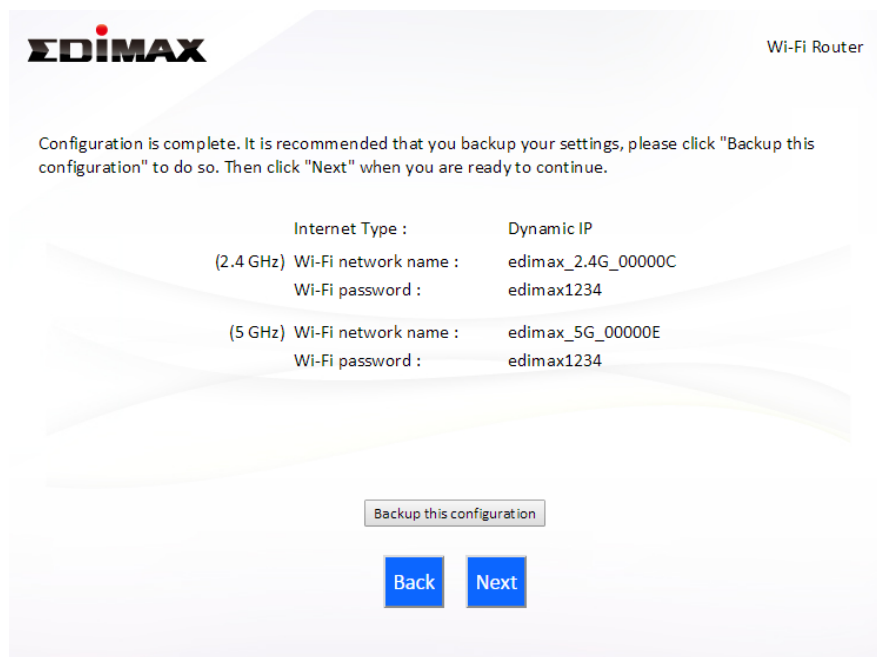
Wi-Fi network name (2.4GHz):

Wi-Fi password (WPA2-AES):   
(at least 8 characters)

Wi-Fi network name (5GHz):

Wi-Fi password (WPA2-AES):   
(at least 8 characters)

- 6.** A summary of your configuration will be displayed, as shown below. Check that all of the details are correct and then click “Next” to proceed.



**EDIMAX** Wi-Fi Router

Configuration is complete. It is recommended that you backup your settings, please click "Backup this configuration" to do so. Then click "Next" when you are ready to continue.

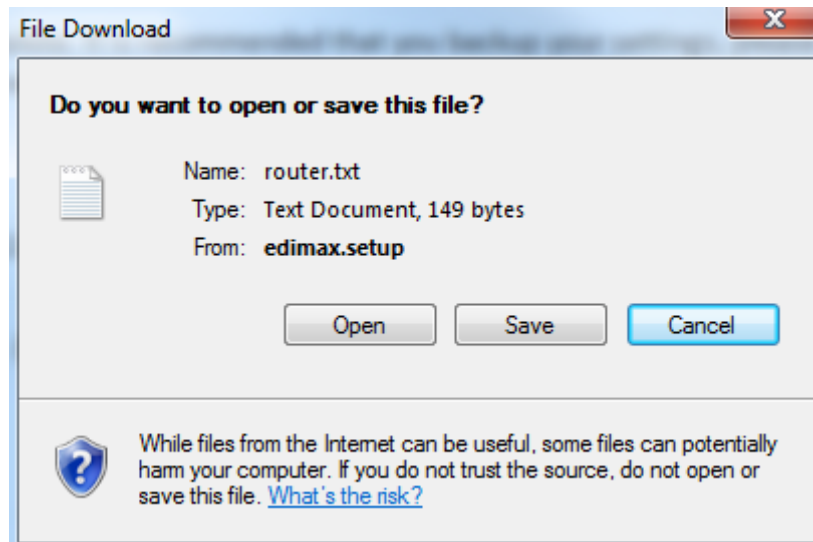
Internet Type : Dynamic IP

(2.4 GHz) Wi-Fi network name : edimax\_2.4G\_00000C  
Wi-Fi password : edimax1234

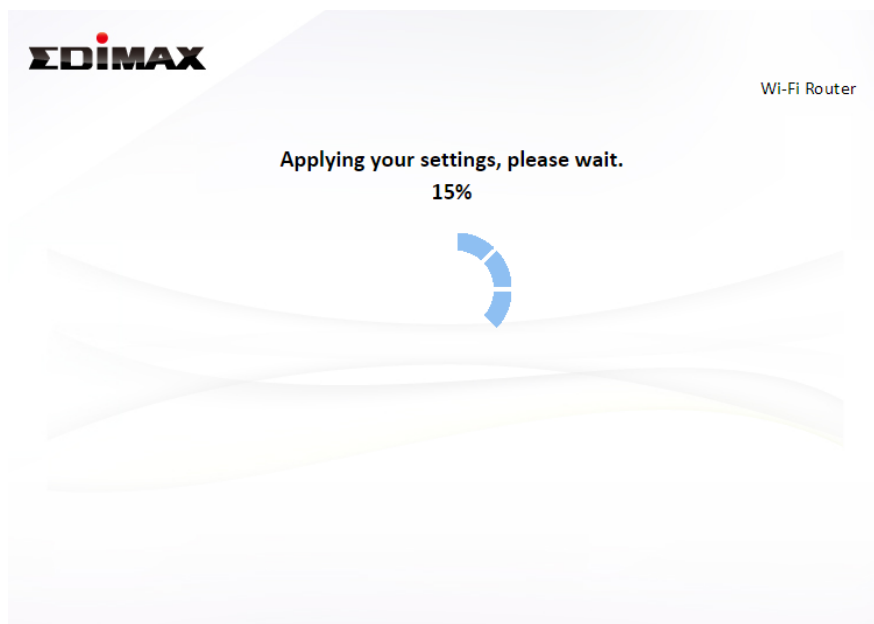
(5 GHz) Wi-Fi network name : edimax\_5G\_00000E  
Wi-Fi password : edimax1234



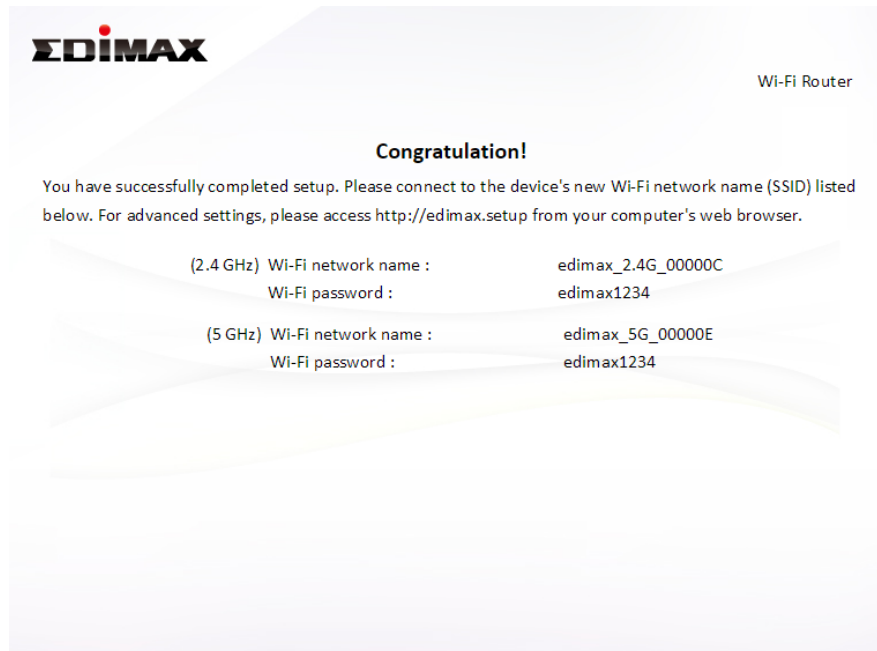
***If you wish to backup the device’s settings, click “Backup this configuration” to open a new window and save your current configuration to a .txt file.***



**7.** Please wait while the device applies your settings.



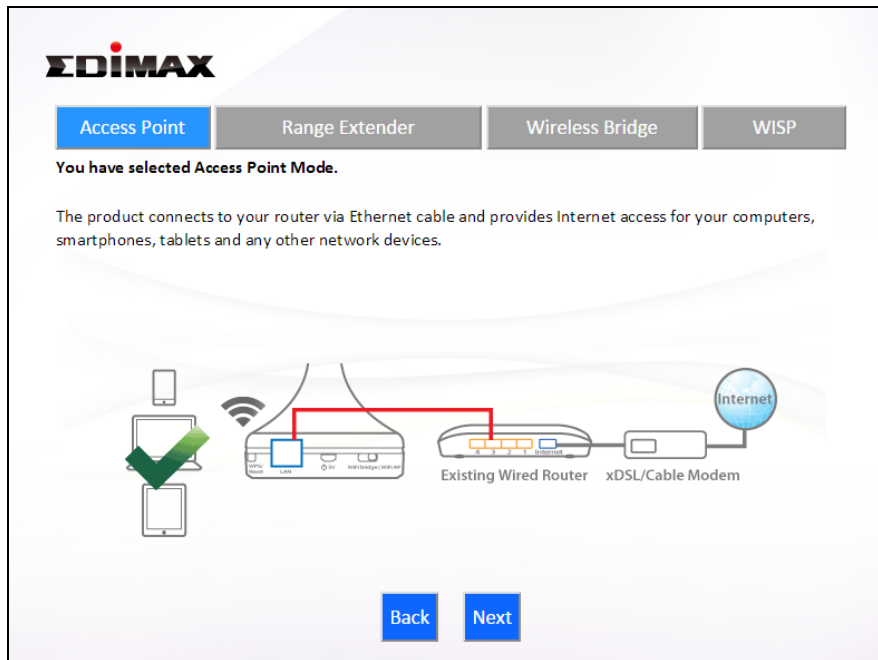
**8.** A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.



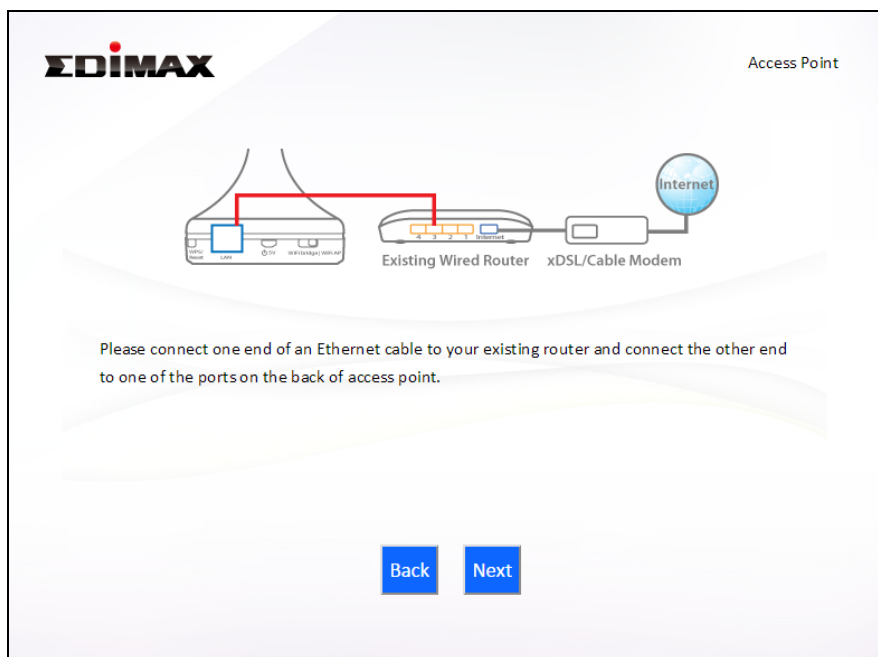
9. The BR-6478AC V2 is working and ready for use. Refer to [IV-2. Connecting to a Wi-Fi network](#) if you require more guidance.

## II-2. Access Point Mode


1. Select “Access Point” from the top menu and click “Next”.



2. Connect the network port of your BR-6478 AC V2 to the LAN port of your existing router using an Ethernet cable, then click “Next”.



3. Select whether to use the 5GHz wireless frequency, 2.4GHz wireless frequency or both. If you are not sure, select both.



Access Point

Please select the wireless frequency that you want to use. If you are not sure which one to use, please select both.

☒ Enable 2.4GHz  
☒ Enable 5GHz

Back Next

4. Select “Obtain an IP address automatically” or “Use the following IP address” for your BR-6478 AC V2. If you are using a static IP, enter the IP address, subnet mask and default gateway. Click “Next” to proceed to the next step.


Access Point

Please set the IP address of the access point.

☒ Obtain an IP address automatically  
☐ Use the following IP address

IP address :	192	.	168	.	2	.	1
Subnet Mask :	255	.	255	.	255	.	0
Default gateway :	0	.	0	.	0	.	0
DNS :	0	.	0	.	0	.	0

Back Next



***“Obtain an IP address automatically” is the recommended setting for most users. For more guidance on static IP addresses, please refer to [IV-1. Configuring your IP address.](#)***

5. Enter a name and password for your 2.4GHz & 5GHz wireless networks, then click “Next” to continue.

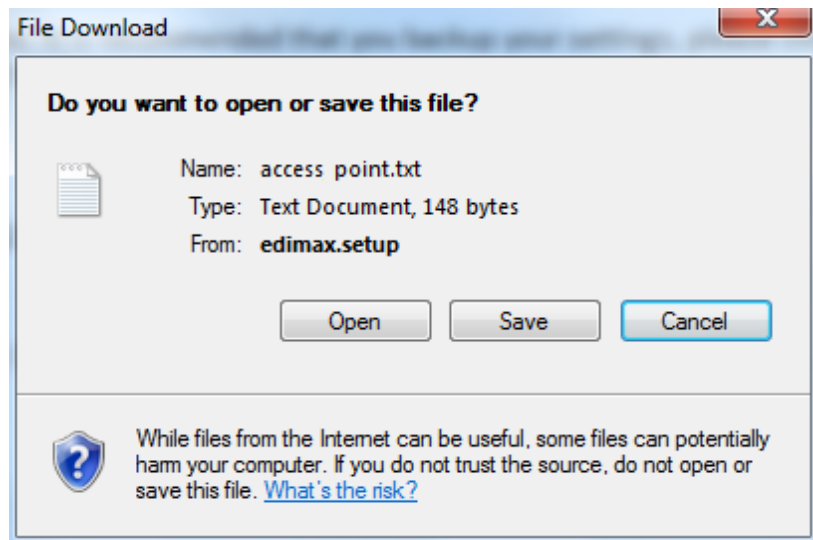
The screenshot shows the Edimax Access Point configuration interface. At the top left is the Edimax logo, and at the top right is the text "Access Point". Below the logo, a message reads: "Please set your Wi-Fi network name (SSID) and Wi-Fi password." There are two sets of input fields. The first set is for the 2.4GHz network, with the label "Wi-Fi network name (2.4GHz):" and a text box containing "edimax\_2.4G\_00000C", and the label "Wi-Fi password (WPA2-AES):" with a text box containing "edimax1234" and a note "(at least 8 characters)". The second set is for the 5GHz network, with the label "Wi-Fi network name (5GHz):" and a text box containing "edimax\_5G\_00000E", and the label "Wi-Fi password (WPA2-AES):" with a text box containing "edimax1234" and a note "(at least 8 characters)". At the bottom are two blue buttons labeled "Back" and "Next".

6. A summary of your configuration will be displayed, as shown below. Check that all of the details are correct and then click “Next” to proceed.

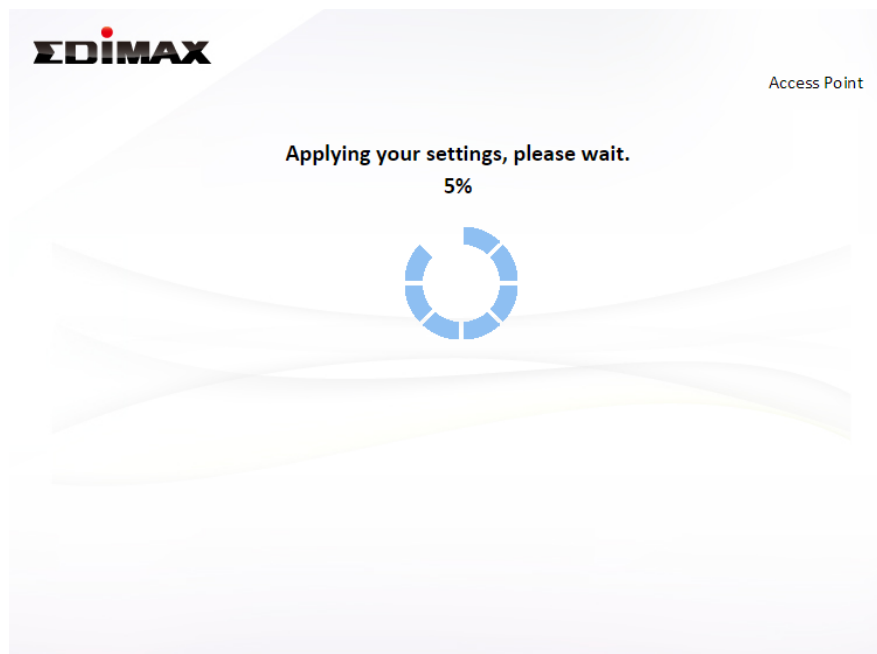
The screenshot shows the Edimax Access Point configuration interface displaying a summary of the configuration. At the top left is the Edimax logo, and at the top right is the text "Access Point". Below the logo, a message reads: "Configuration is complete. It is recommended that you backup your settings, please click "Backup this configuration" to do so. Then click "Next" when you are ready to continue." Below this message, the configuration details are listed: "(2.4 GHz) Wi-Fi network name : edimax\_2.4G\_00000C" and "Wi-Fi password : edimax1234", and "(5 GHz) Wi-Fi network name : edimax\_5G\_00000E" and "Wi-Fi password : edimax1234". Below the summary is a button labeled "Backup this configuration". At the bottom are two blue buttons labeled "Back" and "Next".



***If you wish to backup the device’s settings, click “Backup this configuration” to open a new window and save your current configuration to a .txt file.***

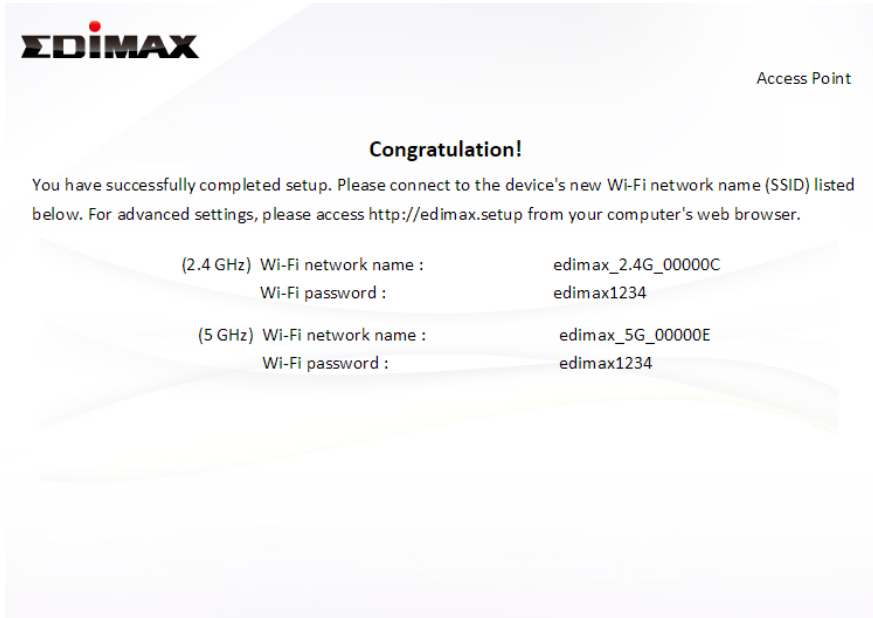


7. Please wait a moment until the BR-6478 AC V2 is ready.



8. A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.

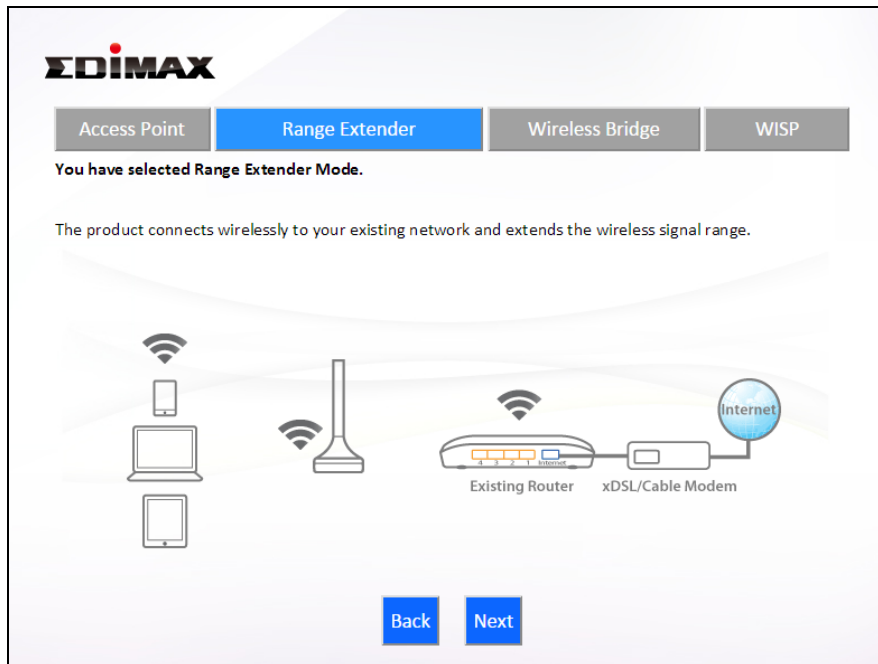




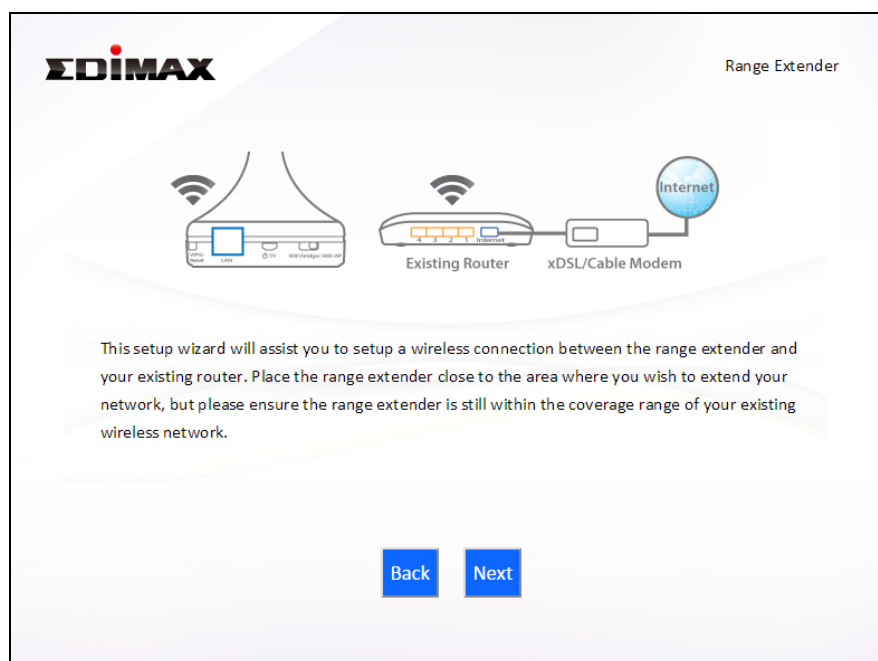
- 9.** The BR-6478 AC V2 is working and ready for use. Refer to [IV-2. Connecting to a Wi-Fi network](#) if you require more guidance.

## II-3. Range Extender Mode

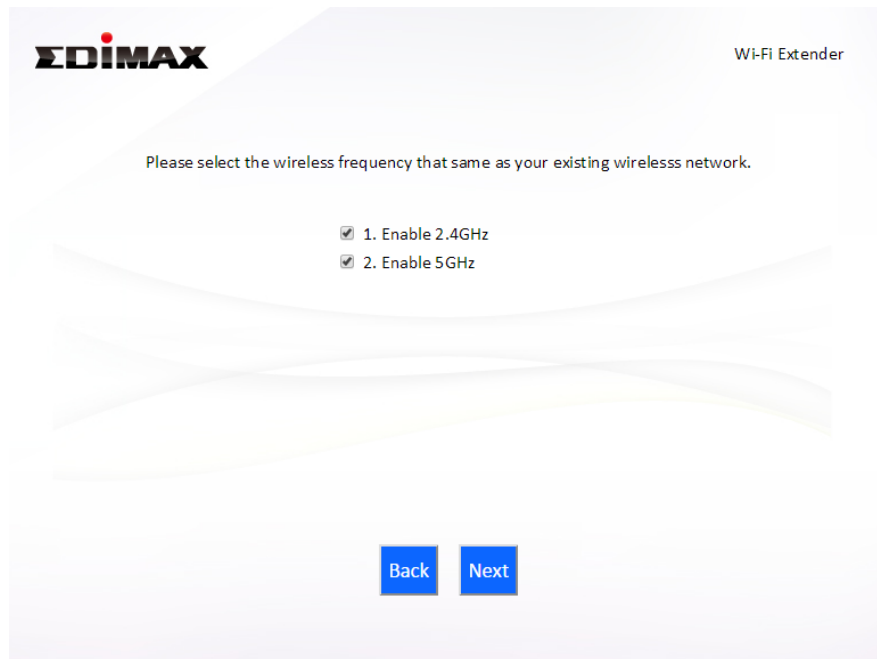
1. Select “Range Extender” from the top menu and click “Next”.



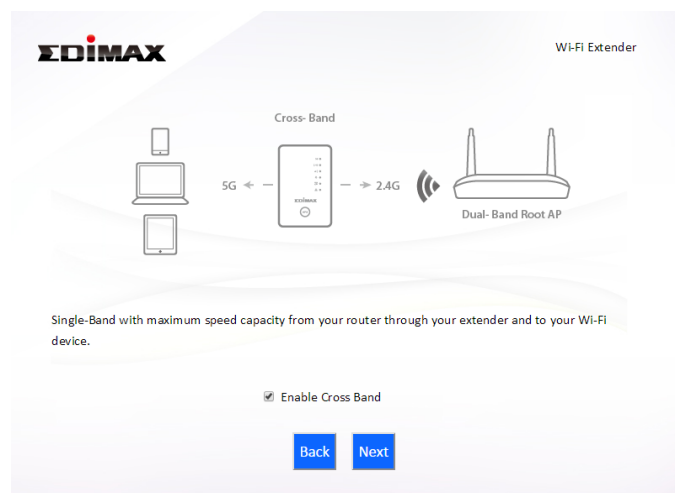
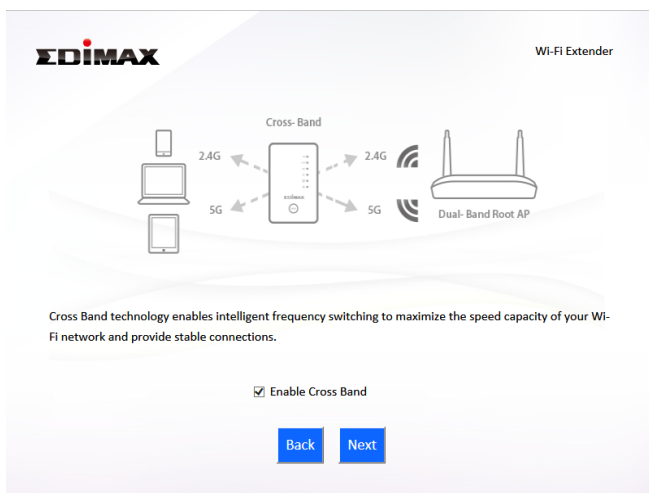
2. Please ensure your BR-6478 AC V2 is within Wi-Fi range of your existing wireless router. Click “Next” to continue.



3. Select whether to use the 5GHz wireless frequency, 2.4GHz wireless frequency or both. If you are not sure, select both and then click “Next”.




4. Select whether to enable Cross Band technology. This can help to maintain your router's maximum speed capacity as the Wi-Fi signal is extended.



5. Select the Wi-Fi network name (SSID) which you wish to connect to for the specified frequency and click "Next" to continue.



***If the Wi-Fi network you wish to connect to does not appear, try clicking "Refresh".***


Wi-Fi Extender

### 2.4GHz Wireless Site Survey

The range extender is surveying all available routers nearby. Please select the router you wish to connect to. If the router you wish to connect is not listed, try clicking "Refresh". To connect to a hidden SSID please select "Setup extender manually".


☐ Setup extender manually

Select	SSID	Signal
<input type="radio"/>	chichi	96 %
<input type="radio"/>	matt	76 %
<input type="radio"/>	JackWAP	44 %
<input type="radio"/>	DIRECT-V8-BRAVIA	39 %
<input type="radio"/>	max866799	34 %
<input type="radio"/>	Jackchen	15 %

Back
Refresh
Next



***To connect to a hidden SSID, check the “Setup extender manually” box and enter the details manually on the next page, as shown below.***


Wi-Fi Extender

### 2.4GHz Wireless Site Survey

Please set a new Wi-Fi network name (SSID) for the range extender if you wish, and set the security key for your existing wireless network if required.

Wi-Fi network name (SSID):

Range extender SSID:

Hide SSID ☐ Enable

Encryption WPA2 ▾

Security Type ☐ TKIP ☒ AES

Key Format Passphrase ▾

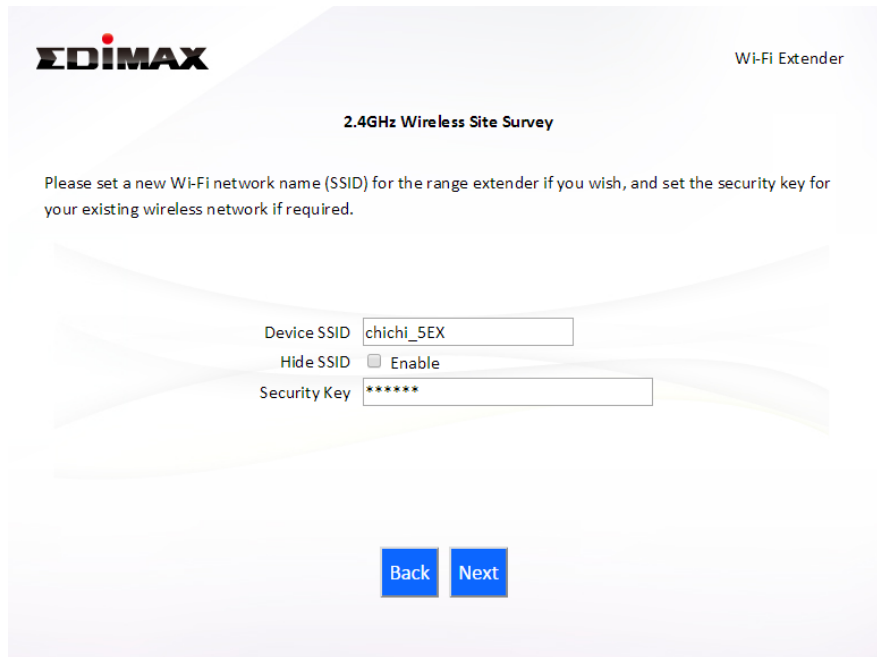
Wi-Fi password (Security Key):

Back
Next

- Enter your existing wireless network’s security key/password in the “Security Key” field and click “Next” to continue.

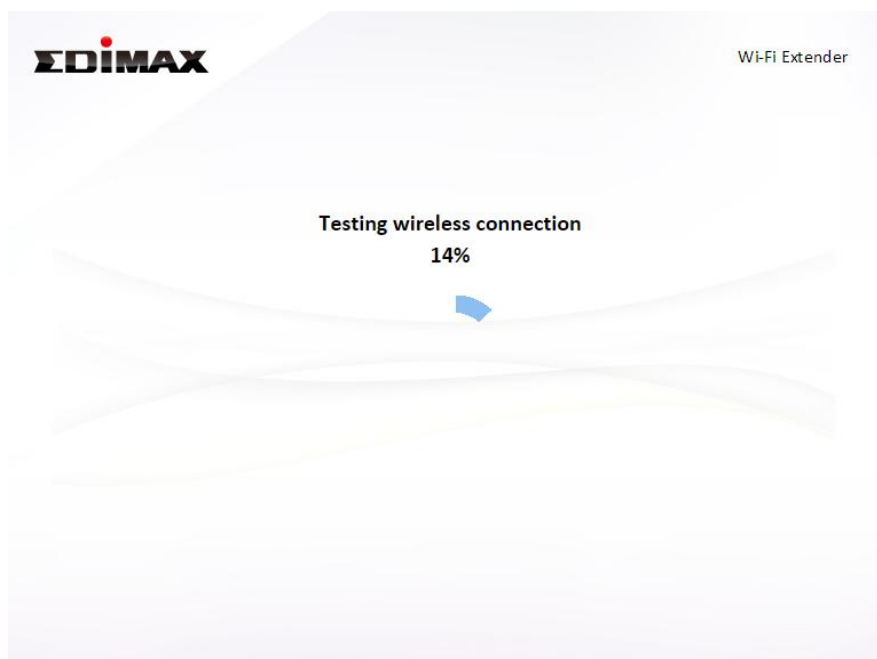


***Device SSID will be the SSID of your extender’s Wi-Fi. If using cross-band technology this will be 5GHz Wi-Fi for your router’s 2.4GHz signal and vice versa.***



The image shows the configuration interface for an EDIMAX Wi-Fi Extender. At the top left is the EDIMAX logo, and at the top right is the text "Wi-Fi Extender". The main heading is "2.4GHz Wireless Site Survey". Below this, a paragraph reads: "Please set a new Wi-Fi network name (SSID) for the range extender if you wish, and set the security key for your existing wireless network if required." There are three input fields: "Device SSID" with the text "chichi\_5EX", "Hide SSID" with a checkbox labeled "Enable" (which is unchecked), and "Security Key" with a masked field of seven asterisks. At the bottom, there are two blue buttons labeled "Back" and "Next".

- 7.** Wait a moment while the BR-6478 AC V2 tests the wireless connection.



- 8.** Select “Obtain an IP address automatically” or “Use the following IP address” for your BR-6478 AC V2. If you are using a static IP, enter the IP address, subnet mask and default gateway. Click “Next” to proceed to the next step.



***“Obtain an IP address automatically” is the recommended setting for most users. The IP address will be displayed in brackets.***

**EDIMAX** Wi-Fi Extender

Connection test complete. Please click "Next" when you are ready to continue.

☒ Obtain an IP address automatically  
 (IP : 192.168.0.107)

☐ Use the following IP address

IP address :	192	.	168	.	9	.	2
Subnet Mask :	255	.	255	.	255	.	0
Default gateway :	0	.	0	.	0	.	0
DNS :	0	.	0	.	0	.	0

Back Next

- 9.** If you selected to use both 2.4GHz and 5GHz wireless frequencies in step 3, then repeat **steps 4 – 7** for the 2.4GHz wireless frequency.

**EDIMAX** Wi-Fi Extender

**5GHz Wireless Site Survey**

The range extender is surveying all available routers nearby. Please select the router you wish to connect to. If the router you wish to connect is not listed, try clicking "Refresh". To connect to a hidden SSID please select "Setup extender manually".

☐ Setup extender manually

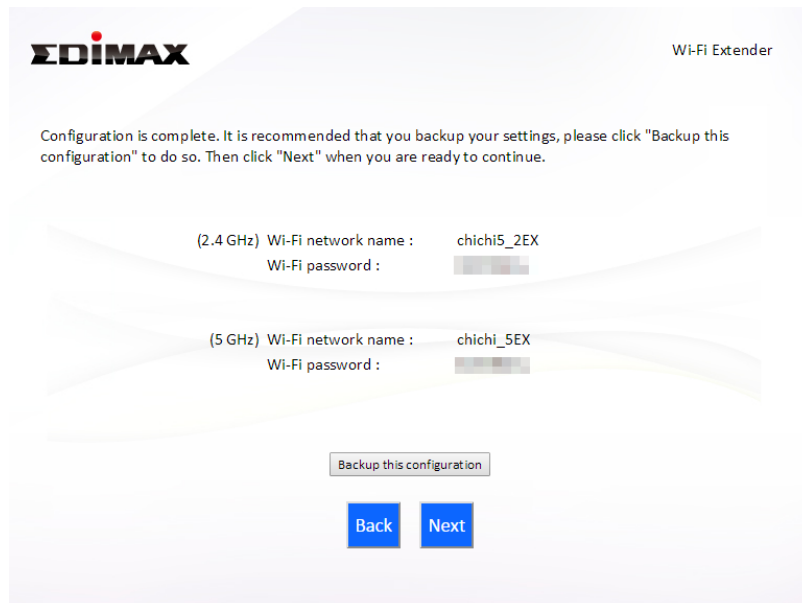
Select	SSID	Signal
<input type="radio"/>	chichi5	47 %

Back Refresh Next

- 10.** A summary of your configuration will be displayed, as shown below. Check that all of the details are correct and then click "Next" to proceed.



***The device will use the same wireless password/security key as the existing wireless network.***



**EDIMAX** Wi-Fi Extender


Configuration is complete. It is recommended that you backup your settings, please click "Backup this configuration" to do so. Then click "Next" when you are ready to continue.

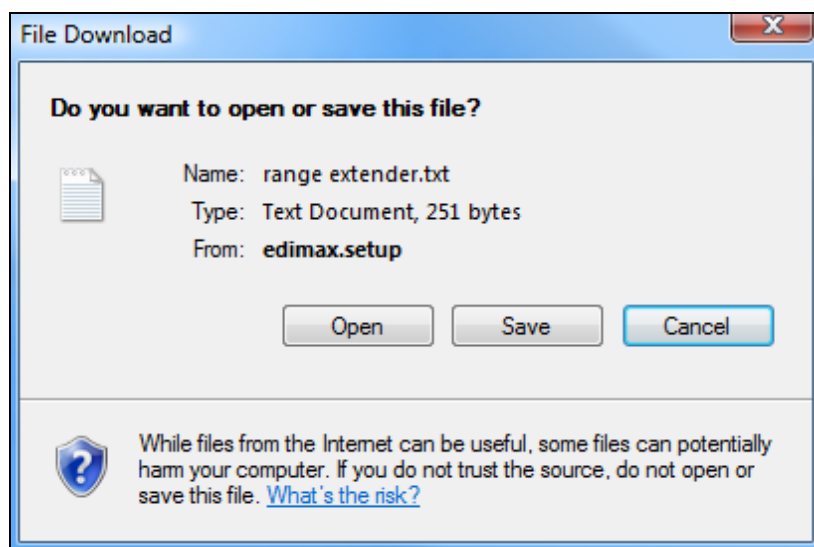
(2.4 GHz) Wi-Fi network name : chichi5\_2EX  
Wi-Fi password : [REDACTED]

(5 GHz) Wi-Fi network name : chichi\_5EX  
Wi-Fi password : [REDACTED]

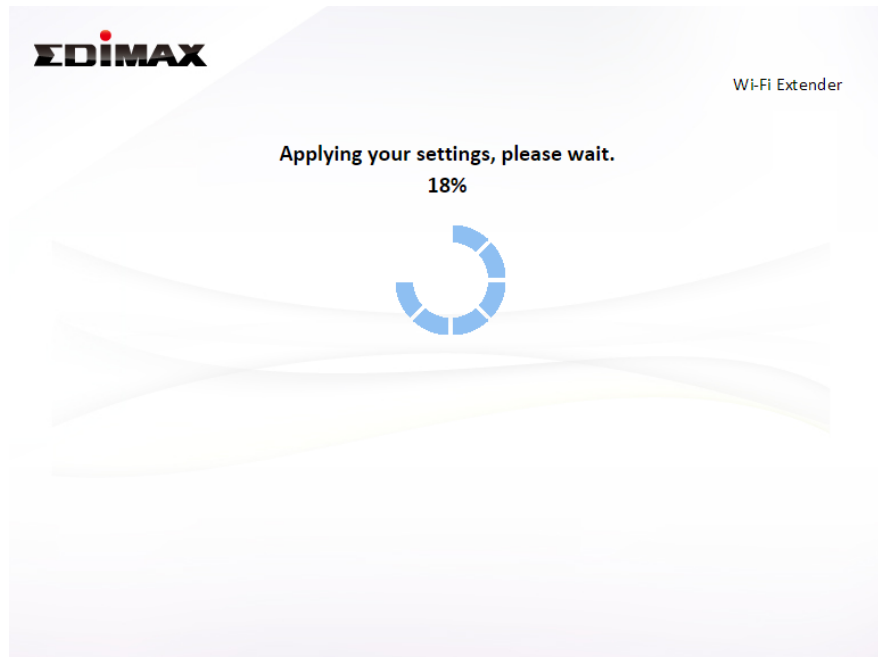
Backup this configuration

Back Next

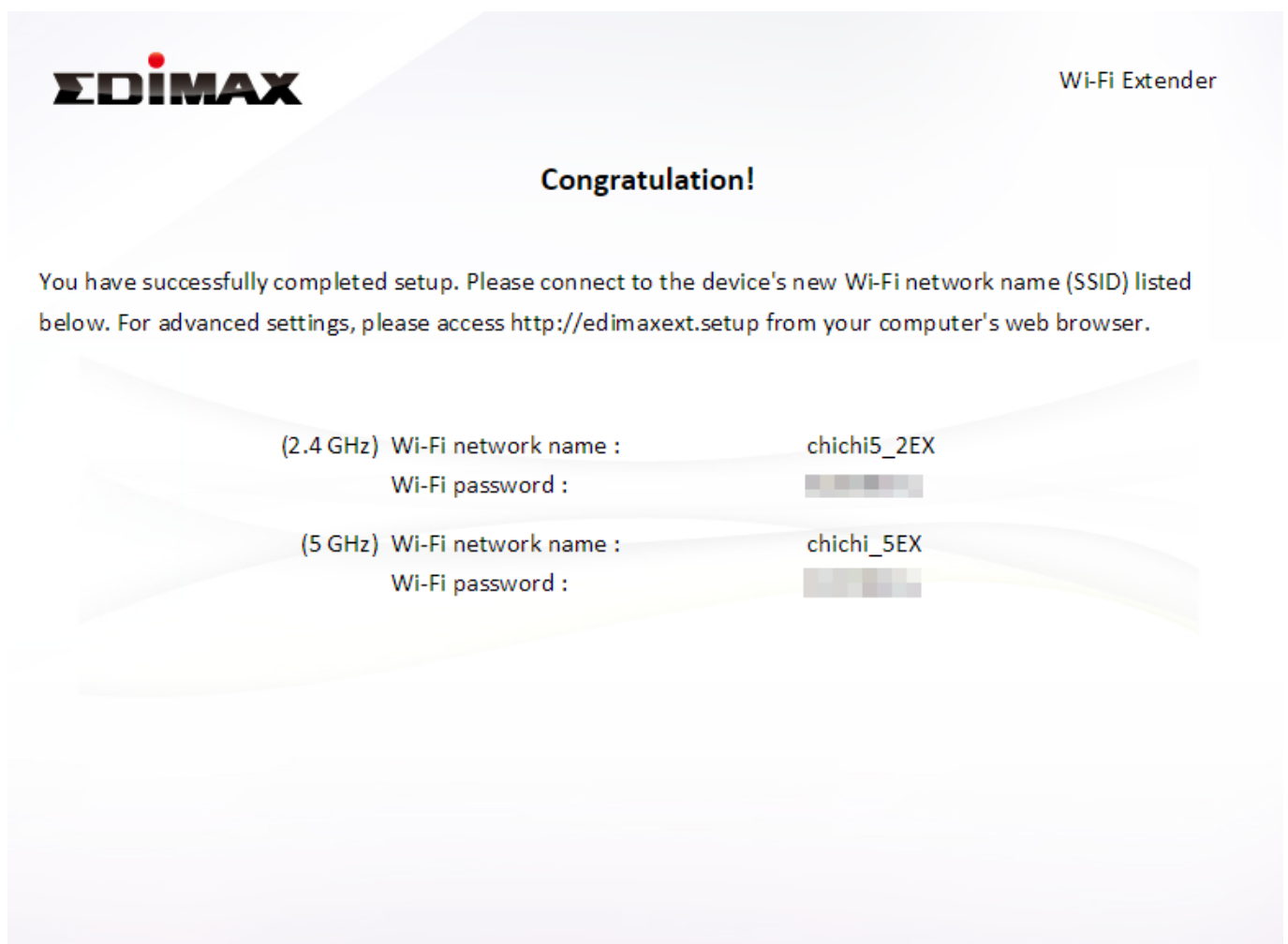
 ***If you wish to backup the BR-6478 AC V2's settings, click "Backup this configuration" to open a new window and save your current configuration to a .txt file.***



**11.** Please wait a moment until the BR-6478 AC V2 is ready.



- 12.** A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.

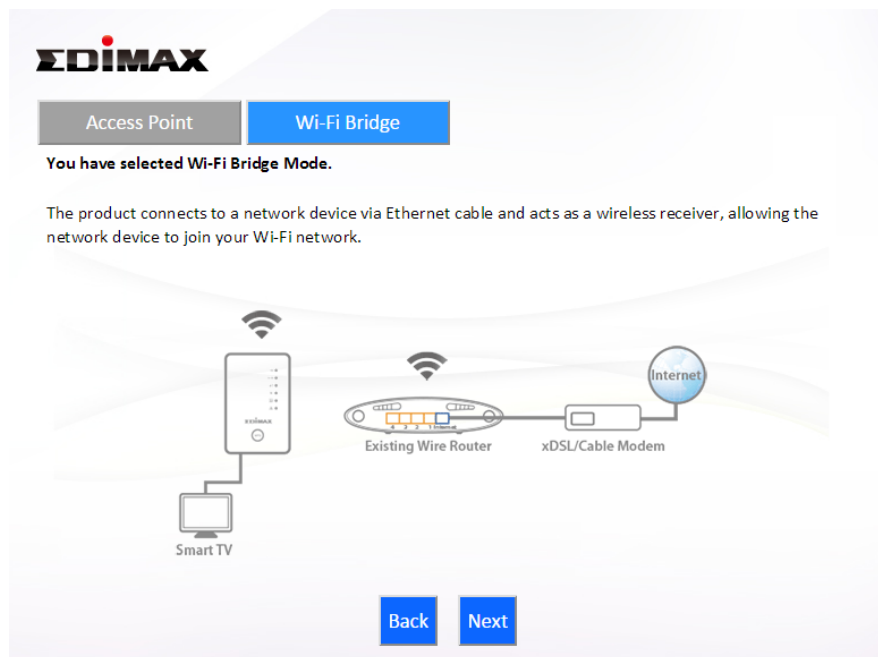




**13.** The BR-6478 AC V2 is working and ready for use. Refer to [IV-2. Connecting to a Wi-Fi network](#) if you require more guidance.

## II-4. Wireless Bridge Mode

1. Select “Wireless Bridge” from the top menu and click “Next”.



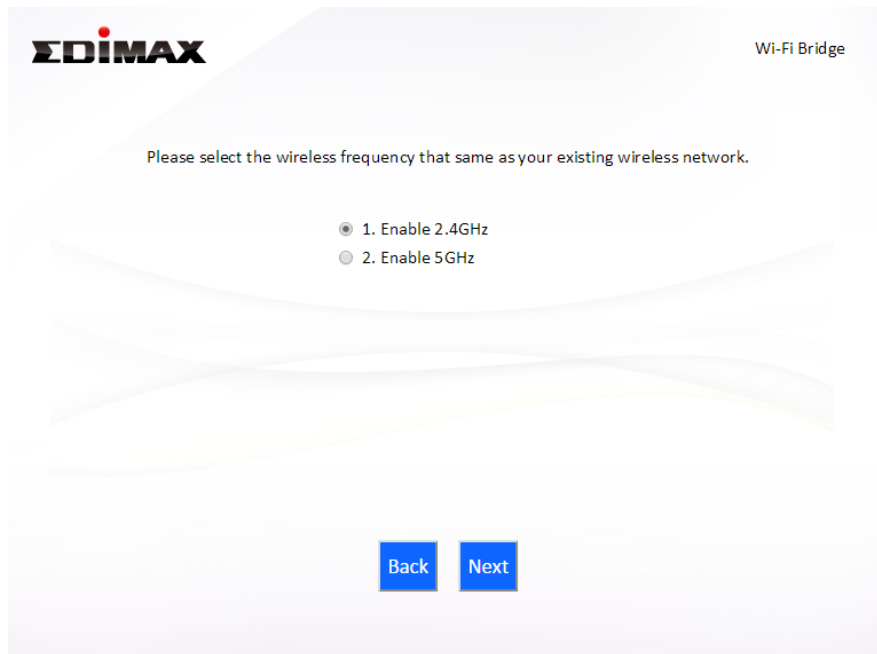
2. Please ensure your BR-6478 AC V2 is within Wi-Fi range of your existing wireless router. Click “Next” to continue.



3. Select the frequency (2.4GHz or 5GHz) of your existing wireless network.



***In wireless client mode, the BR-6478 AC V2 can only connect to one wireless network/frequency i.e. 2.4GHz or 5GHz.***



EDIMAX Wi-Fi Bridge

Please select the wireless frequency that same as your existing wireless network.

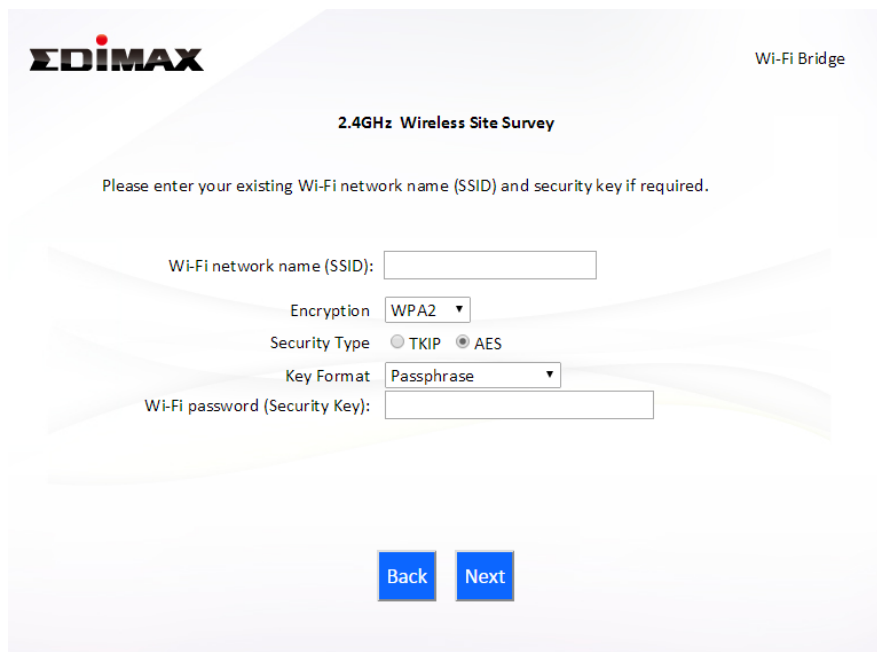
☒ 1. Enable 2.4GHz  
☐ 2. Enable 5GHz

Back Next

4. Select the Wi-Fi network name (SSID) which you wish to connect to and click “Next” to continue.



***If the Wi-Fi network you wish to connect to does not appear, try clicking “Refresh”.***



EDIMAX Wi-Fi Bridge

2.4GHz Wireless Site Survey

Please enter your existing Wi-Fi network name (SSID) and security key if required.

Wi-Fi network name (SSID):

Encryption: WPA2 ▼

Security Type: ☐ TKIP ☒ AES

Key Format: Passphrase ▼

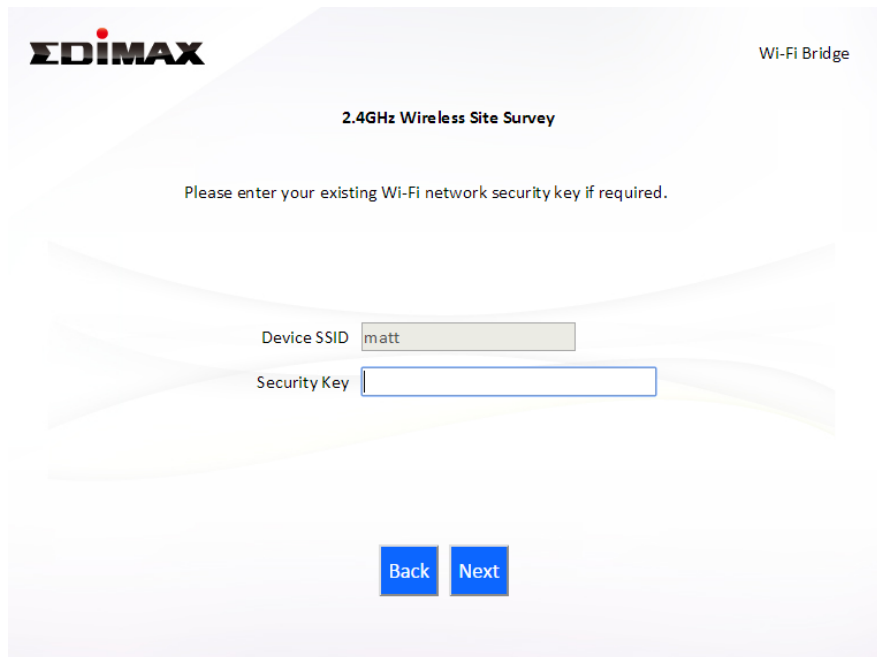
Wi-Fi password (Security Key):

Back Next



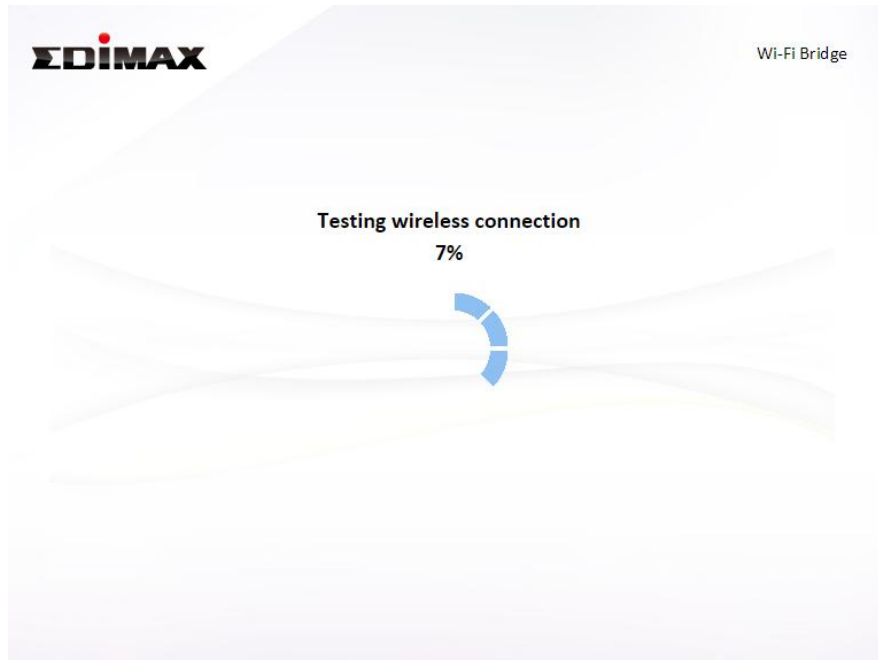
***To connect to a hidden SSID, check the “Setup extender manually” box and enter the details manually on the next page, as shown below.***

- 5.** Enter your existing wireless network's security key/password in the "Security Key" field and click "Next" to continue.



The screenshot shows the EDIMAX Wi-Fi Bridge configuration interface. At the top left is the EDIMAX logo, and at the top right is the text "Wi-Fi Bridge". The main heading is "2.4GHz Wireless Site Survey". Below this, a message states: "Please enter your existing Wi-Fi network security key if required." There are two input fields: "Device SSID" with the value "matt" and "Security Key" which is currently empty. At the bottom, there are two blue buttons labeled "Back" and "Next".

- 6.** Wait a moment while the BR-6478 AC V2 tests the wireless connection.



- 7.** Select "Obtain an IP address automatically" or "Use the following IP address" for your BR-6478 AC V2. If you are using a static IP, enter the IP address, subnet mask and default gateway. Click "Next" to proceed to the next step.



***“Obtain an IP address automatically” is the recommended setting for most users. The IP address will be displayed in brackets.***

EDIMAX Wi-Fi Bridge

Connection test complete. Please click "Next" when you are ready to continue.

☒ Obtain an IP address automatically  
(IP : 192.168.0.107)

☐ Use the following IP address

IP address :  .  .  .

Subnet Mask :  .  .  .

Default gateway :  .  .  .

DNS :  .  .  .

[Back](#) [Next](#)

- 8.** A summary of your configuration will be displayed, as shown below.  
Check that all of the details are correct and then click “Next” to proceed.

EDIMAX Wi-Fi Bridge

Configuration is complete. It is recommended that you backup your settings, please click "Backup this configuration" to do so. Then click "Next" when you are ready to continue.

(2.4 GHz) Wi-Fi network name : matt

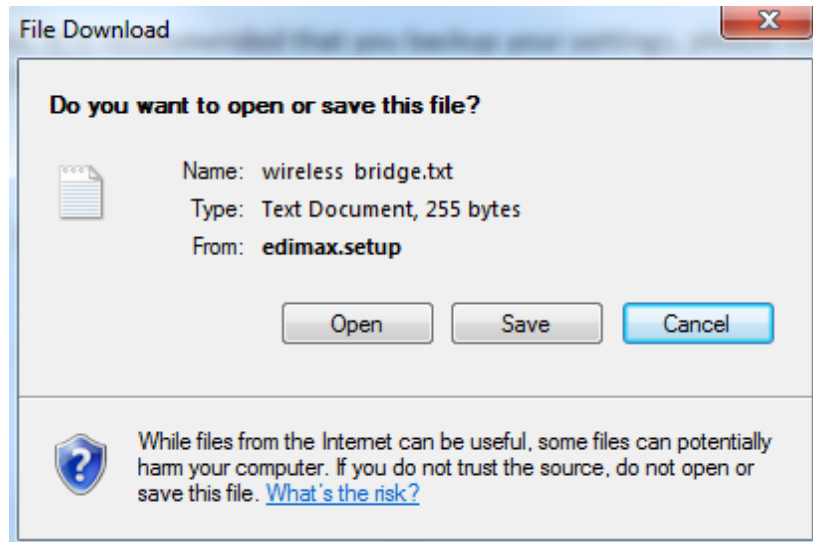
Wi-Fi password :

[Backup this configuration](#)

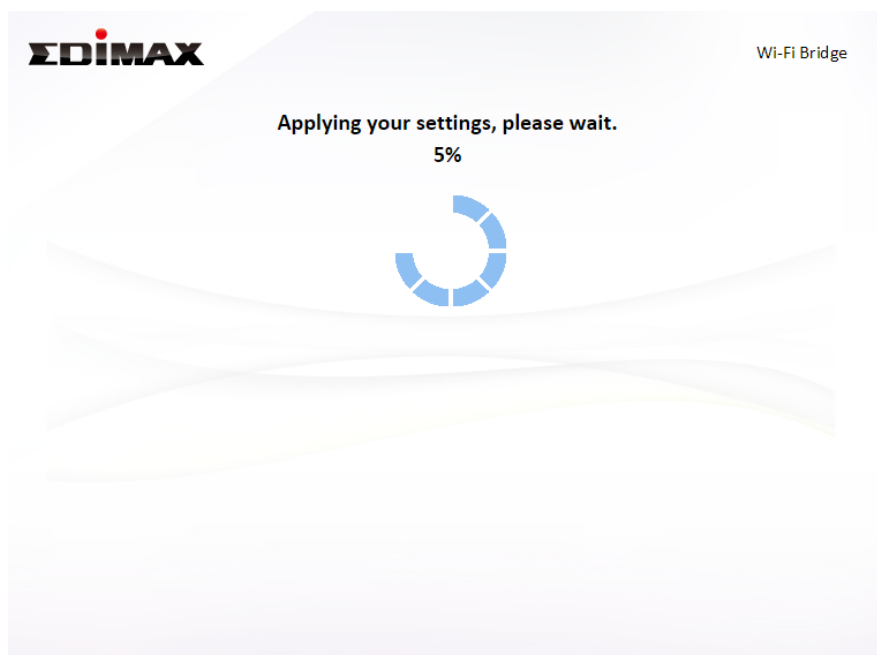
[Back](#) [Next](#)



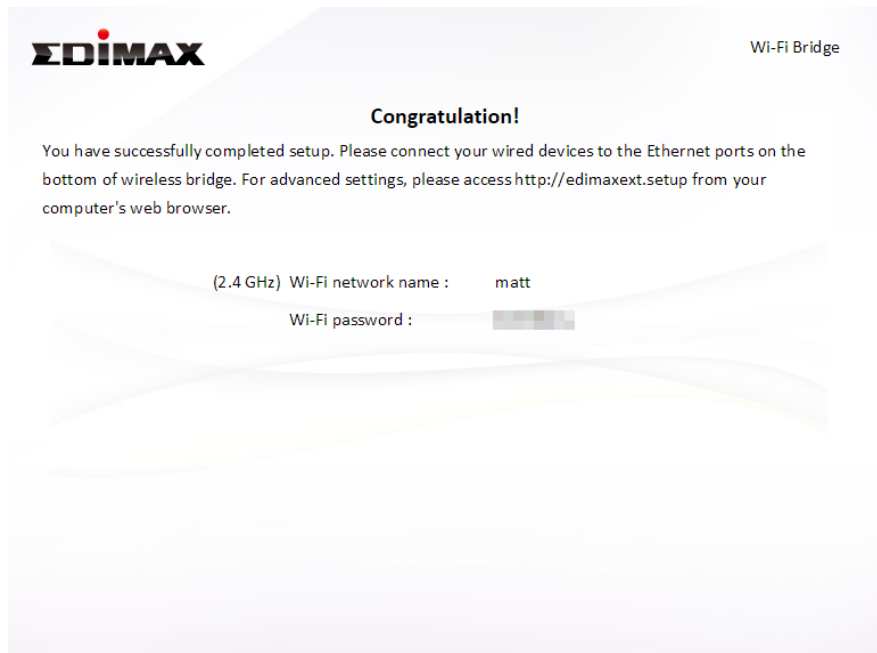
***If you wish to backup the BR-6478 AC V2’s settings, click “Backup this configuration” to open a new window and save your current configuration to a .txt file.***



**9.** Please wait a moment until the BR-6478 AC V2 is ready.



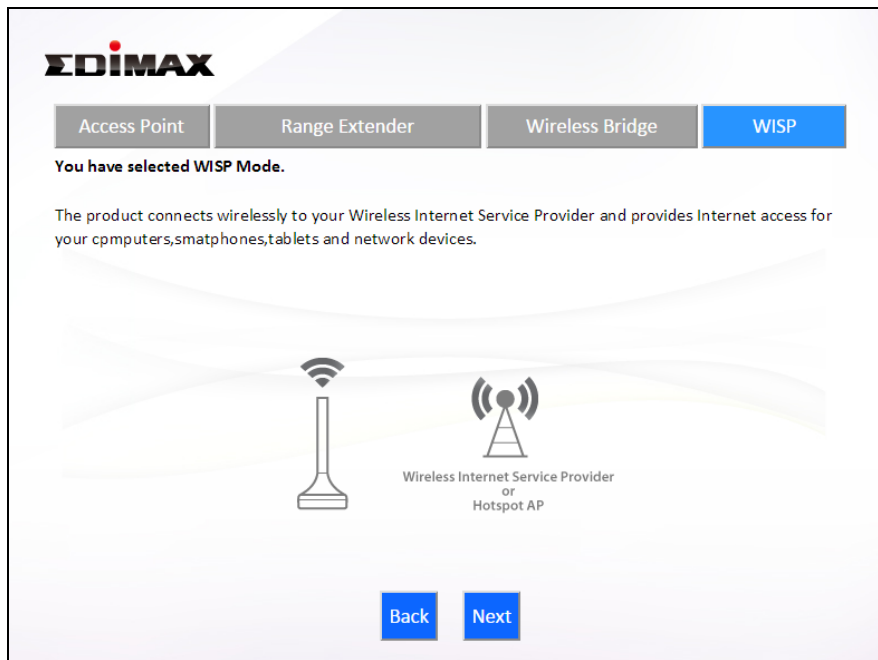
**10.** A final congratulations screen will indicate that setup is complete. Please close the browser window.



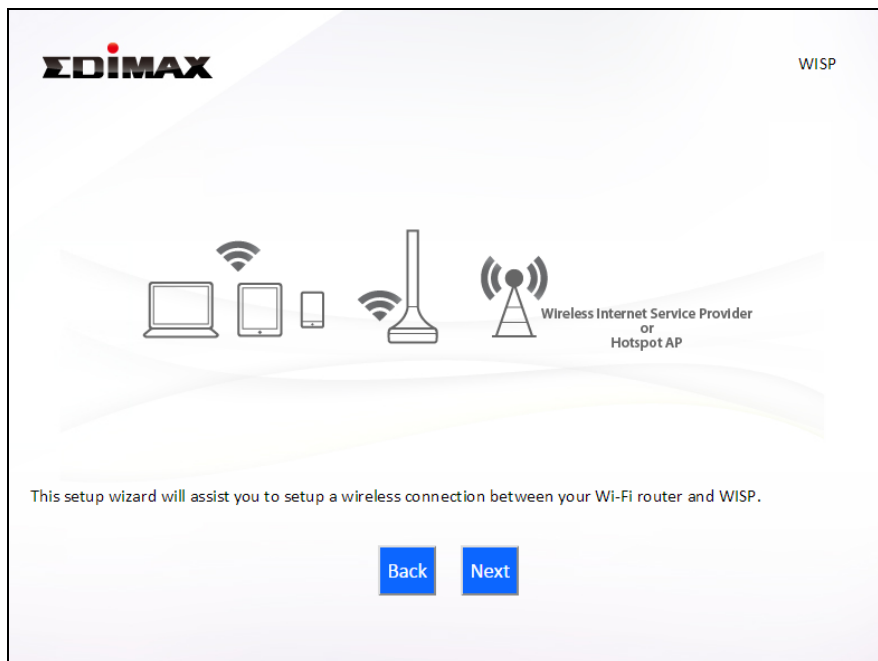
- 11.** The BR-6478 AC V2 is working and ready for use. You can now connect the BR-6478 AC V2 to your network device using an Ethernet cable and connect to your network as usual.

## II-5. WISP Mode

1. Select “WISP” from the top menu and click “Next”.



2. Please ensure your BR-6478 AC V2 is within Wi-Fi range of your WISP network and click “Next” to continue.



3. Select whether to use the iQ Setup wizard (recommended) to detect your Internet connection type, or enter the settings manually.





**Manual configuration is only recommended for advanced users.**

EDIMAX WISP

The iQ Setup wizard can help detect your Internet connection type, and walk you through setup step-by-step, or you can setup your device manually.

☒ 1. iQ Setup wizard  
☐ 2. Configure manually

Back Next

- 4.** Select the wireless frequency (2.4GHz or 5GHz) of your WISP network.

EDIMAX WISP

Please select the wireless frequency that same as your WISP used.

☐ 1. Enable 5GHz  
☒ 2. Enable 2.4GHz

Back Next

- 5.** Select the WISP SSID which you wish to connect to and click “Next” to continue.



**If the Wi-Fi network you wish to connect to does not appear, try clicking “Refresh”.**

**EDIMAX** WISP

### 2.4GHz Wireless Site Survey

The Wi-Fi router is surveying all available WISP nearby. Please select the WISP you wish to connect to. If the WISP you wish to connect is not listed, try clicking "Refresh". To connect to a hidden SSID please select "Setup WISP manually".

☐ Setup WISP manually.

Select	SSID	Signal
<input type="radio"/>	Matt	100%
<input type="radio"/>	FREE Wi-Fi	100%
<input type="radio"/>	OBM_68U	100%
<input type="radio"/>	edimax.setup	100%
<input type="radio"/>	EdimaxHQ	100%

Back Refresh Next



***To connect to a hidden SSID, check the “Setup extender manually” box and enter the details manually on the next page, as shown below.***

**EDIMAX** WISP

### 2.4GHz Wireless Site Survey

Please enter your WISP's Wi-Fi network name and the security key provide from your WISP if required.

Wi-Fi network name (SSID):

Encryption: WPA Pre-shared Key

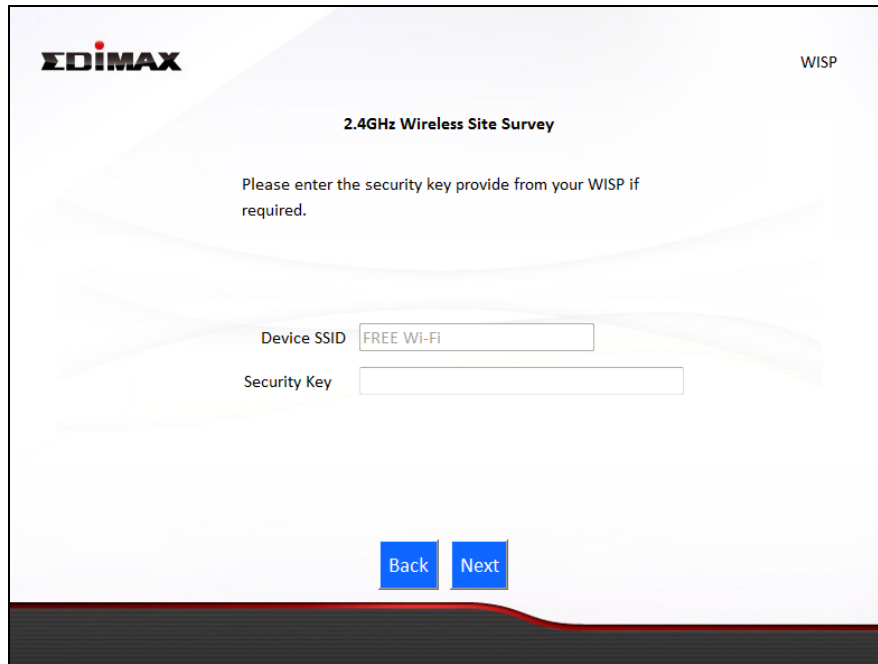
WPA Type: ☒ WPA(TKIP) ☐ WPA2(AES)

Key Format: Passphrase

Wi-Fi password (Security Key):

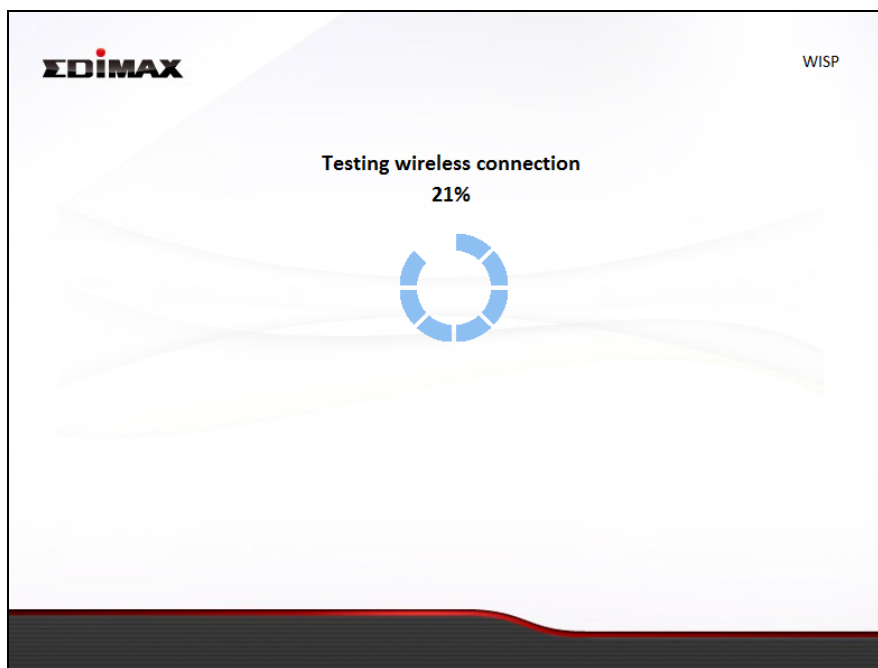
Back Next

- Enter your existing wireless network's security key/password in the “Security Key” field and click “Next” to continue.

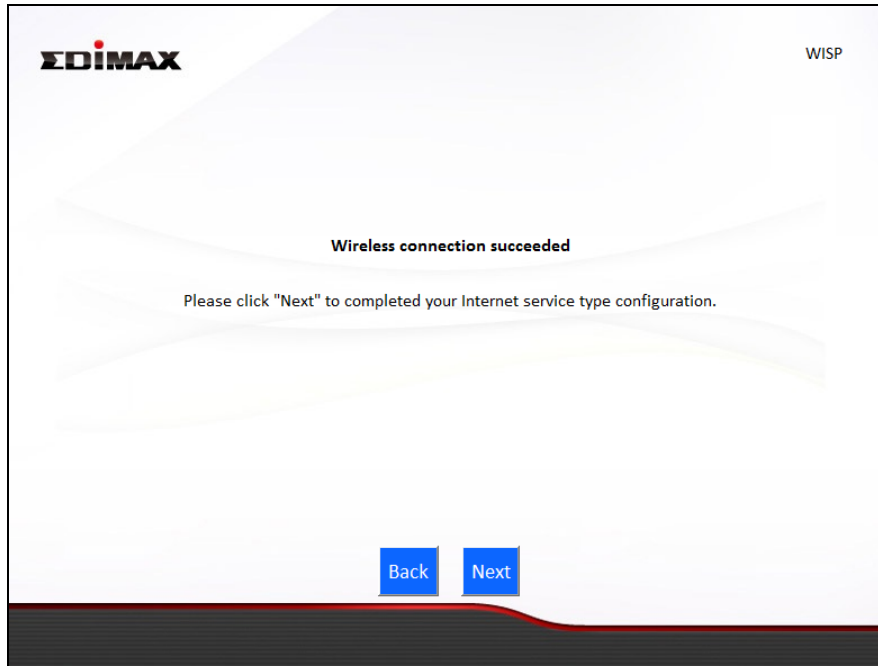


The image shows a web-based configuration interface for an EDIMAX router. At the top left is the EDIMAX logo, and at the top right is the text 'WISP'. The main heading is '2.4GHz Wireless Site Survey'. Below this, a message states: 'Please enter the security key provide from your WISP if required.' There are two input fields: 'Device SSID' with the text 'FREE WI-FI' and 'Security Key' which is empty. At the bottom, there are two blue buttons labeled 'Back' and 'Next'.

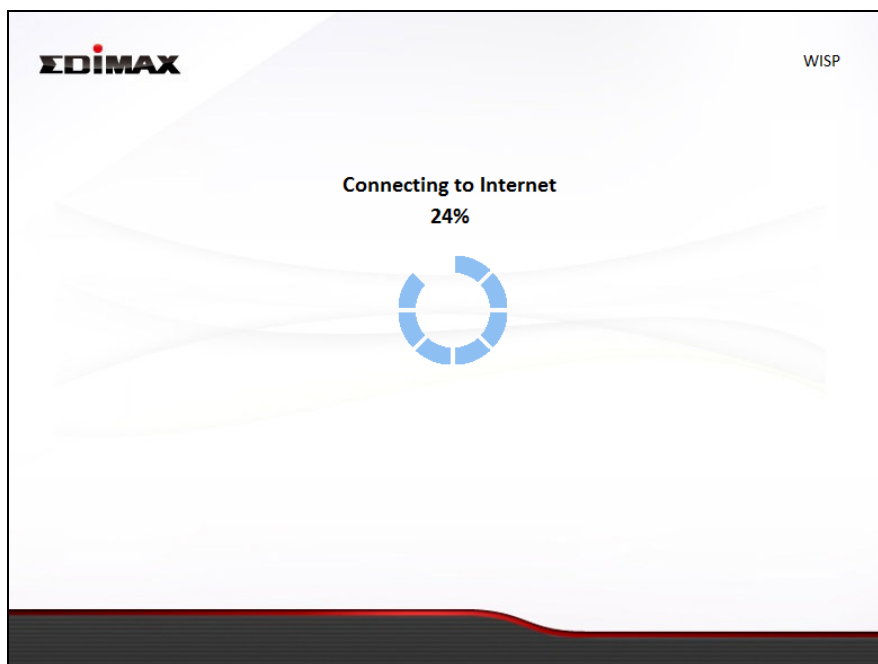
7. Wait a moment while the BR-6478 AC V2 tests the wireless connection.



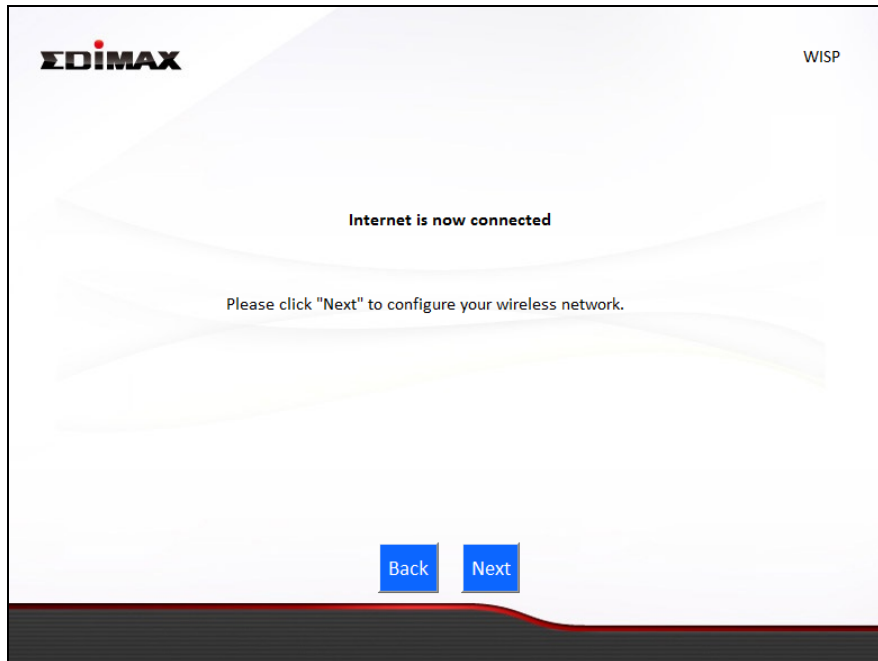
8. Click “Next” to continue your Internet service type configuration.



**9.** Wait a moment while the BR-6478 AC V2 connects to the Internet.



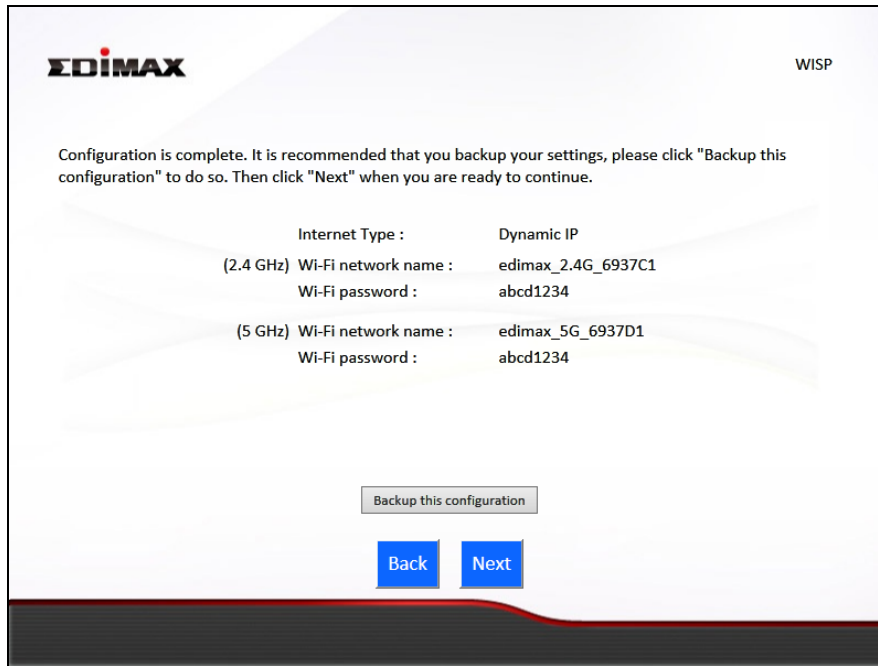
**10.** When the Internet is connected, click “Next” to configure your wireless network.



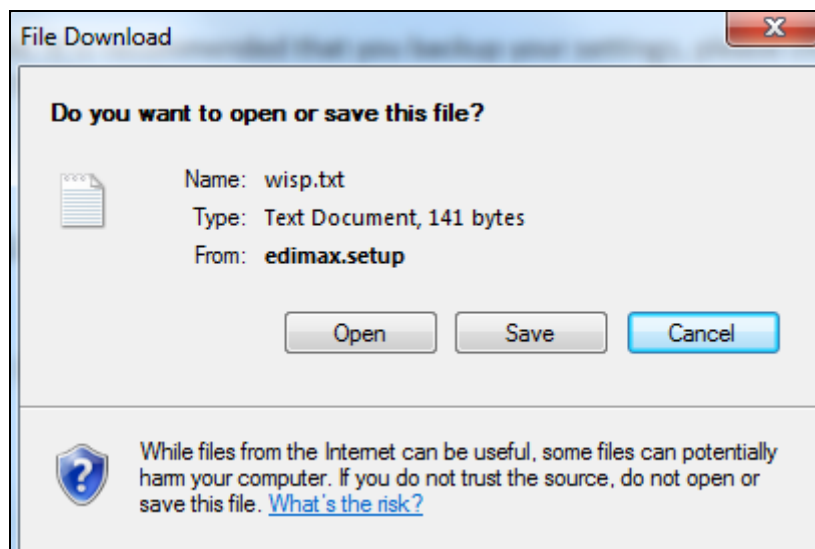
- 11.** Enter a name and password for your 2.4GHz & 5GHz wireless networks, then click “Next” to continue.

The image shows the EDIMAX WISP configuration interface for setting Wi-Fi networks. At the top left is the EDIMAX logo, and at the top right is the text 'WISP'. The main heading in the center is 'Please set your Wi-Fi network name (SSID) and Wi-Fi password.' Below this, there are two sections for 2.4GHz and 5GHz networks. Each section has a text label, a text input field, and a password input field. The 2.4GHz section shows 'edimax\_2.4G\_6937C1' for the SSID and 'abcd1234' for the password. The 5GHz section shows 'edimax\_5G\_6937D1' for the SSID and 'abcd1234' for the password. Below each password field is a note '(at least 8 characters)'. At the bottom of the screen, there are two blue buttons: 'Back' and 'Next'. The background features a light blue and white abstract design.

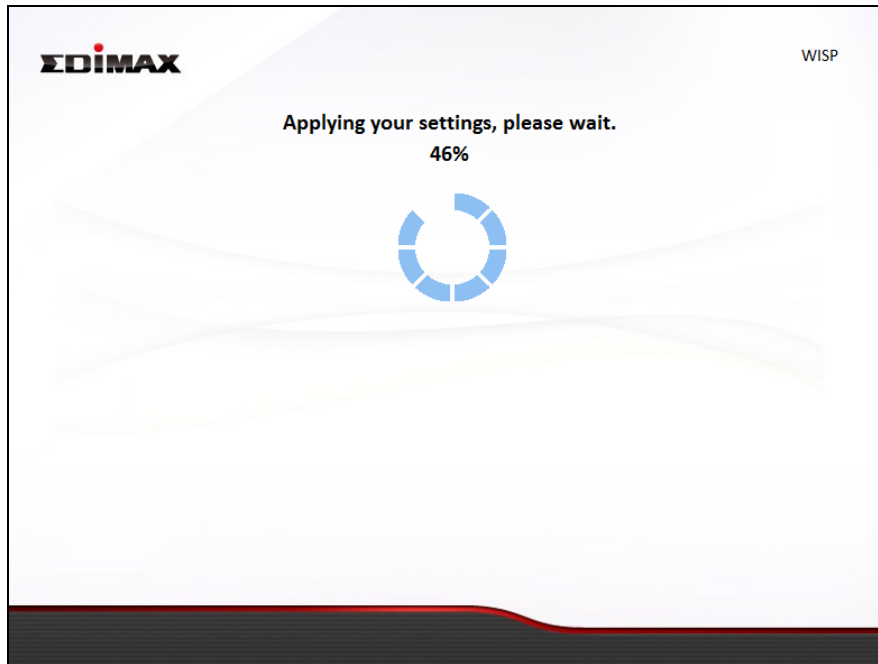
- 12.** A summary of your configuration will be displayed, as shown below. Check that all of the details are correct and then click “Next” to proceed.



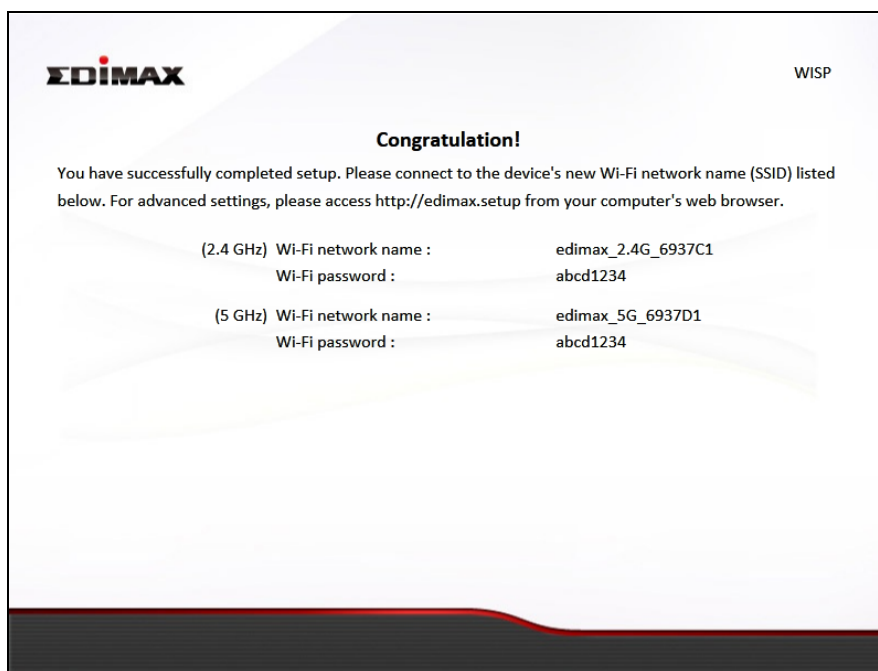
***If you wish to backup the device's settings, click "Backup this configuration" to open a new window and save your current configuration to a .txt file.***



**13.** Please wait a moment until the BR-6478 AC V2 is ready.



- 14.** A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.



- 15.** The BR-6478 AC V2 is working and ready for use. Refer to [IV-2. Connecting to a Wi-Fi network](#) if you require more guidance.

## II-6. WPS Setup

If your wireless device supports WPS (Wi-Fi Protected Setup) then you can use this method to connect to the BR-6478 AC V2's Wi-Fi network.

- 1.** Press the **WPS/Reset button** on the BR-6478 AC V2 for 2 seconds to activate WPS. The LED will then flash blue to indicate that WPS is active.
- 2.** **Within two minutes**, press the WPS button on the **wireless device/client** to activate its WPS.
- 3.** The devices will establish a connection. Repeat for additional wireless devices.



***Please check the instructions for your wireless device for how long you need to hold down its WPS button to activate WPS.***

## II-7. Reset to Factory Default Settings

If you experience problems with your BR-6478 AC V2, you can reset the device back to its factory settings. This resets **all** settings back to default.

- 1.** Press and hold the **WPS/Reset button** found on the rear base of the product for at least 10 seconds.
- 2.** Release the button when the LED is flashing blue.
- 3.** Wait for the BR-6478 AC V2 to restart.



### ***III. Browser Based Configuration Interface***

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After you have setup the BR-6478 AC V2 as detailed in **II. Installation** or the included **Quick Installation Guide**, you can use the browser based configuration interface to configure advanced settings.



***Please ensure that your computer is set to use a dynamic IP address. Refer to [IV-1. Configuring your IP address](#) for more information.***

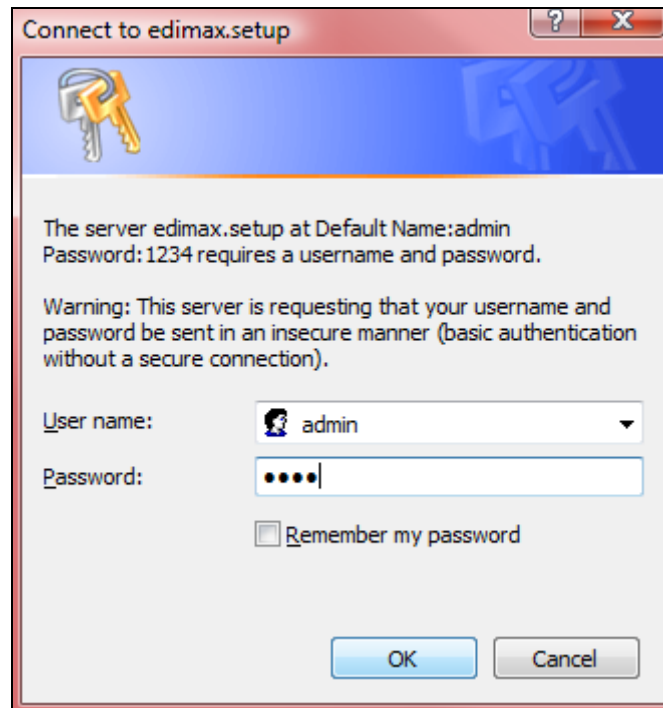
#### **III-1. Login**

- 1.** To access the browser based configuration interface enter ***http://edimax.setup*** into the URL bar of a browser on a network device connected to the same Wi-Fi network as the BR-6478 AC V2.



***If you can not access http://edimax.setup, connect the device to a computer using an Ethernet cable and try again.***

- 2.** You will be prompted for a username and password. The default username is “admin” and the default password is “1234”.



3. You will arrive at the “Status” screen. Use the menu down the left side to navigate.

Wi-Fi Router
English

Status
Setup Wizard
Internet
LAN
2.4GHz Wireless
5GHz Wireless
USB
Firewall
QoS
Advanced
Administration

System Status

System		LAN	
Model	Wireless Router	IP Address	192.168.2.1
Current Time	2015/7/17 11:43:26	Subnet Mask	255.255.255.0
Hardware Version	Rev. A	DHCP Server	Enable
Firmware Version	1.05.0717	MAC Address	82:1f:1f:00:00:0c
<a href="#">Check the latest version</a>			

Internet		2.4GHz Wireless	
IP Address Mode	PPPoE Connect	Mode	Access Point
IP Address	118.161.34.36	SSID	edimax_2.4G_00000C
Subnet Mask	255.255.255.255	Channel Number	2
Default Gateway Address	168.95.98.254	Security	WPA2 (AES)
MAC Address	82:1F:1F:00:00:0D	MAC Address	82:1f:1f:00:00:0c
DNS 1	168.95.192.1		
DNS 2	168.95.1.1		
DNS 3	168.95.1.1		

5GHz Wireless	
Mode	Access Point
SSID	edimax_5G_00000E
Channel Number	44
Security	WPA2 (AES)
MAC Address	82:1f:1f:00:00:0e

## III-2. Save Settings

1. After you configure any settings, click the “Save Settings” button at the bottom of the screen to save your changes.



***The device needs to restart in order to bring any changes into effect.***

2. Then, click “Click here to restart” in order to restart the device and bring the changes into effect.

Settings have been saved. Please [click here to restart](#) the router and bring the new settings into effect.

3. To make several changes at once, use the “Save Settings” button after each change and then click “click here to restart” after your final change. Only one restart is necessary as long as each change is saved with the “Save Settings” button.



***After you click “click here to restart”, all saved changes will come into effect.***

### III-3. Main Menu

The main menu displays different options depending on your device's operating mode.



**For Range Extender mode: WPS *please refer to* 2.4GHz Wireless & 5GHz Wireless → WPS**

#### ***Wi-Fi Router***

▶ Status
▶ Setup Wizard
▶ Internet
▶ LAN
▶ 2.4GHz Wireless
▶ 5GHz Wireless
▶ USB
▶ Firewall
▶ QoS
▶ Advanced
▶ Administration

#### ***Access Point***

▶ Status
▶ Setup Wizard
▶ LAN
▶ 2.4GHz Wireless
▶ 5GHz Wireless
▶ Advanced
▶ Administration

#### ***Range Extender***

▶ Status
▶ Setup Wizard
▶ LAN
▶ 2.4GHz Wireless
▶ 5GHz Wireless
▶ Administration

#### ***Wireless Bridge***

▶ Status
▶ Setup Wizard
▶ Administration

#### ***WISP***

▶ Status
▶ Setup Wizard
▶ WISP
▶ LAN
▶ 2.4GHz Wireless
▶ 5GHz Wireless
▶ Firewall
▶ QoS
▶ Advanced
▶ Administration

### III-3-1. Status



The “Status” page displays basic system information about the device, arranged into categories.



**Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.**

**System Status**

System	
Model	Wireless Router
Current Time	2015/7/17 11:43:26
Hardware Version	Rev. A
Firmware Version	1.05.0717
<a href="#">Check the latest version</a>	

LAN	
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
DHCP Server	Enable
MAC Address	82:1f:1f:00:00:0c

Internet	
IP Address Mode	PPPoE Connect
IP Address	118.161.34.36
Subnet Mask	255.255.255.255
Default Gateway Address	168.95.98.254
MAC Address	82:1f:1f:00:00:0d
DNS 1	168.95.192.1
DNS 2	168.95.1.1
DNS 3	168.95.1.1

2.4GHz Wireless	
Mode	Access Point
SSID	edimax_2.4G_00000C
Channel Number	2
Security	WPA2 (AES)
MAC Address	82:1f:1f:00:00:0c


5GHz Wireless	
Mode	Access Point
SSID	edimax_5G_00000E
Channel Number	44
Security	WPA2 (AES)
MAC Address	82:1f:1f:00:00:0e

You can click the orange **Check the latest version** button to open a new screen and automatically upgrade firmware to the latest version. Click **Firmware auto-upgrade** to begin the process.



**It is recommended to backup the existing firmware version using the “Save as File” button before upgrading.**

### III-3-2. Setup Wizard

 You can run the setup wizard again to reconfigure the basic settings of the device, or you can run a wizard to help you switch the device to a different operating mode. Select “Setup Wizard” or “Switch to Router/Access Point/Range Extender/Wireless Bridge/WISP mode” and then click “Run Wizard” to begin.

**Setup Wizard**

- ☒ **Setup Wizard**

This setup wizard is an intelligent and easy tool for you to complete the basic settings of the device quickly.
- ☐ **Switch to Router/Access Point/Range Extender/Wireless Bridge/WISP mode**

This setup wizard will guide you to switch the device to another mode.

Run Wizard

<b>Setup Wizard</b>	This wizard will help you to set up the basic functions and settings of the device. For guidance about using the setup wizard, please refer to <a href="#">II. Installation</a> .
<b>Switch to Router/Access Point/ Range Extender/ Wireless Bridge/ WISP mode</b>	This wizard will help you to switch the device to a different operating mode: Wi-Fi router mode, access point mode, range extender, wireless bridge, or WISP mode (see below).

**Switch to Router/Access Point/ Range Extender/ Wireless Bridge/ WISP mode:**

1. Follow the on-screen instructions to back up your current settings and then reset the device back to its factory default settings.
2. After the device has reset you will see the screen below. Close your browser and open it again.

#### Reset to Default

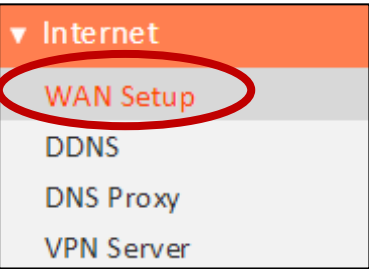
You have successfully reset the device to factory defaults. Please close the browser and open it again. This device will start running the setup wizard for you to switch the mode.

3. Follow the on-screen wizard to setup your device in a different mode. Refer to [II. Installation Step 3](#) onwards for help if needed.

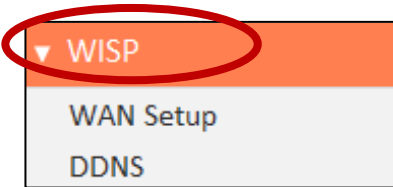


***If you don't see the "Get Started" screen, try reconnecting to the edimax.setup SSID and go to <http://edimax.setup> in a web browser.***

III-3-3. Internet/WISP



The “Internet” menu provides access to WAN, DDNS, DNS Proxy & VPN server settings. Click on an item from the submenu to view and/or configure the settings.



 ***In WISP mode, the screen below will be displayed:***

WISP

Enable / Disable

☐ Disable ☒ Enable

Basic Settings :

SSID

FREE Wi-Fi

Site Survey

☒ 2.4G ☐ 5G 

Select Site List

Channel Number

3

Security Setting :

Encryption

WPA Pre-shared Key

WPA Unicast Cipher Suite

☐ WPA (TKIP) ☒ WPA2 (AES)

Pre-shared Key Format

Passphrase

Pre-shared Key

12345678

Save Settings

Enable / Disable	Enable or disable your WISP connection.
SSID	The name of the WISP network which your BR-6478 AC V2 is connected to. Manually enter an SSID if you wish or use “Site Survey” below.
Site Survey	Select wireless frequency and click “Select Site List” to open a new window and select your WISP network.
Security Setting	Please refer to <b>III-3-5-1. Basic</b> for a



	description of security settings.
--	-----------------------------------

### III-3-3-1. WAN Setup

Select a Wide Area Network (WAN) connection mode and configure the settings. If you are unsure about your connection type, contact your ISP.



***In WISP mode, only Dynamic IP, Static IP & PPPoE are available for WAN Connection Mode.***

WAN Connection Mode

Connection Mode

Dynamic IP

Dynamic IP

Static IP

PPPoE

PPTP

L2TP

Host Name

#### III-3-3-1-1. Dynamic IP

Select “Dynamic IP”. If your Internet service provider assigns IP address automatically using DHCP (Dynamic Host Configuration Protocol).

Dynamic IP

Host Name

MAC Address

000000000000

Clone MAC

DNS Address

☒ Obtain an IP address automatically

☐ Use the following IP address

DNS1 Address

0.0.0.0

DNS2 Address

0.0.0.0

DNS3 Address

0.0.0.0

MTU

1500

(576<= MTU Value <=1500)

TTL

☒ Disable ☐ Enable

Save Settings

<b>Host Name</b>	Enter the host name of your computer.
<b>MAC Address</b>	For some applications, you may need to designate a specific MAC address for the router. Please enter the MAC address here. If you are connecting the router to a computer, press “Clone Mac” to automatically enter your computer’s MAC address.
<b>DNS Address</b>	Select “Obtain an IP address automatically” or “Use the following IP address”. Check with your ISP if you are unsure.
<b>DNS Address 1,2 &amp; 3</b>	Enter the DNS address(es) assigned by your ISP here.
<b>MTU</b>	Enter the maximum transmission unit (MTU) value of your network connection. The default value is 1500.
<b>TTL</b>	Enable/Disable time to live (TTL) function which limits the lifespan of network data to improve performance.

### III-3-3-1-2. Static IP

Select “Static IP” if your ISP provides Internet access via a fixed IP address. Your ISP will provide you with such information as IP address, subnet mask, gateway address, and DNS address.

**Static IP**

Fixed IP IP Address	<input type="text" value="172.1.1.1"/>
Subnet Mask	<input type="text" value="255.255.0.0"/>
Default Gateway Address	<input type="text" value="172.1.1.254"/>
MAC Address	<input type="text" value="000000000000"/> <b>Clone MAC</b>
DNS1 Address	<input type="text" value="0.0.0.0"/>
DNS2 Address	<input type="text" value="0.0.0.0"/>
DNS3 Address	<input type="text" value="0.0.0.0"/>
MTU	<input type="text" value="1500"/> (576<= MTU Value <=1500)
TTL	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

**Save Settings**

<b>Fixed IP Address</b>	Input the IP address assigned by your ISP here.
<b>Subnet Mask</b>	Input the subnet mask assigned by your ISP here.
<b>Default Gateway Address</b>	Input the default gateway assigned by your ISP here. Some ISPs may call this “Default Route”.
<b>MAC Address</b>	For some applications, you may need to designate a specific MAC address for the router. Please enter the MAC address here. If you are connecting the router to a computer, press “Clone Mac” to automatically enter your computer’s MAC address.
<b>DNS Address 1, 2 &amp; 3</b>	Enter the DNS address(es) assigned by your ISP here.
<b>DNS Proxy</b>	Enable or disable a DNS proxy server.
<b>DNS Proxy Rules</b>	When DNS proxy is enabled, enter the URL of

<b>(URL)</b>	a DNS proxy server.
<b>TTL</b>	Enable/Disable time to live (TTL) function which limits the lifespan of network data to improve performance.

### III-3-3-1-3. PPPoE

Select “PPPoE” if your ISP is providing you Internet access via PPPoE (Point-to-Point Protocol over Ethernet).

**PPPoE**

User Name

74900117@wifi.hinet.net

Password

47835332

MAC Address

000000000000

Clone MAC

DNS Address

☒ Obtain an IP address automatically  
☐ Use the following IP address

DNS1 Address

0.0.0.0

DNS2 Address

0.0.0.0

DNS3 Address

0.0.0.0

TTL

☒ Disable ☐ Enable

Service Name

MTU

1492

(576<= MTU Value <=1492)

Connection Type

Continuous

Connect

Disconnect

Idle Time Out

10

(1-1000 minutes)

☒ Enable Dual Wan Access :

IGMP Source

☒ ETH ☐ PPP  
☒ Dynamic IP ☐ Static IP

Host Name

MAC Address

000000000000

Clone MAC

Save Settings

<b>User Name</b>	Enter the user name assigned by your ISP here.
<b>Password</b>	Enter the password assigned by your ISP here.
<b>MAC Address</b>	For some applications, you may need to designate a specific MAC address for the router. Please enter the MAC address here. If you are connecting the router to a computer, press “Clone Mac” to automatically enter

	your computer's MAC address.
<b>DNS Address</b>	Select "Obtain an IP address automatically" or "Use the following IP address". Check with your ISP if you are unsure.
<b>DNS Address 1, 2 &amp; 3</b>	Enter the DNS address(es) assigned by your ISP here.
<b>TTL</b>	Enable or disable TTL.
<b>Service Name</b>	Give this Internet service a name (optional).
<b>MTU</b>	Enter the maximum transmission unit (MTU) value of your network connection. The default value is 1392.
<b>Connection Type</b>	Specify a connection type: <ol style="list-style-type: none"> <li>1. "Continuous": Connected all the time.</li> <li>2. "Connect on Demand": Connect when you initiate an Internet connection.</li> <li>3. "Manual": Connect/disconnect manually using the "Connect" and "Disconnect" buttons.</li> </ol>
<b>Idle Time Out</b>	Specify the amount of time the router waits before shutting down an idle connection. Only available when "Connect on Demand" (above) is selected.
<b>Enable Dual-WAN Access</b>	Enable/disable dual WAN access. When you enable dual WAN access, select an IGMP source and enter a "Host Name" and "MAC Address".

### III-3-3-1-4. PPTP

Select “PPTP” if your ISP is providing you Internet access via PPTP (Point-to-Point Tunneling Protocol). Then select “Obtain an IP address automatically” or “Use the following IP address” depending on your ISP.

**PPTP**

☒ Obtain an IP address automatically :

Host Name

MAC Address  **Clone MAC**

☐ Use the following IP address :

Static IP Address

Subnet Mask

Default Gateway Address

MAC Address  **Clone MAC**

DNS Address ☒ Obtain an IP address automatically  
☐ Use the following IP address

DNS1 Address

DNS2 Address

DNS3 Address

DNS Proxy ☒ Disable ☐ Enable

DNS Proxy Rules (URL)

☐ Enable Dual Wan Access :

IGMP Source ☒ ETH ☐ PPP

**PPTP Settings :**

User ID

Password

PPTP Gateway

Connection ID  (Optional)

MTU  (512<= MTU Value <=1492)

BEZEQ-ISRAEL ☐ Enable (for use with BEZEQ network in Israel only)

Connection Type  **Connect** **Disconnect**

Idle Time Out  (1-1000 minutes)

**Save Settings**



<b>Host Name</b>	Enter the host name of your computer here if required.
<b>MAC Address</b>	For some applications, you may need to designate a specific MAC address for the router. Please enter the MAC address here. If you are connecting the router to a computer, press "Clone Mac" to automatically enter your computer's MAC address.
<b>Static IP Address</b>	Input the IP address assigned by your ISP here.
<b>Subnet Mask</b>	Input the subnet mask assigned by your ISP here.
<b>Default Gateway Address</b>	Input the default gateway assigned by your ISP here. Some ISPs may call this "Default Route".
<b>MAC Address</b>	If your ISP filters access by MAC addresses, enter your computer's MAC address here. Click "Clone MAC" to automatically enter your computer's MAC address.
<b>DNS Address</b>	Select "Obtain an IP address automatically" or "Use the following IP address". Check with your ISP if you are unsure.
<b>DNS Address 1,2 &amp; 3</b>	Enter the DNS address(es) assigned by your ISP here.
<b>DNS Proxy</b>	Enable or disable a DNS proxy server.
<b>DNS Proxy Rules (URL)</b>	When DNS proxy is enabled, enter the URL of a DNS proxy server.
<b>Enable Dual-WAN Access</b>	Enable/disable dual WAN access. When you enable dual WAN access, select an IGMP source.
<b>User ID</b>	Input the user name assigned by your ISP here.
<b>Password</b>	Input the password assigned by your ISP here.
<b>PPTP Gateway</b>	Input the PPTP gateway assigned by your ISP here.
<b>Connection ID</b>	Specify a reference name/ID for the connection.
<b>MTU</b>	Enter the maximum transmission unit (MTU) value of your network connection. The default value is 1392.
<b>BEZEQ-ISRAEL</b>	Check the "Enable" box if you are using BEZEQ network services (Israel users only).
<b>Connection Type</b>	Specify a connection type:  1. "Continuous": Connected all the time. 2. "Connect on Demand": Connect when you initiate an Internet connection. 3. "Manual": Connect/disconnect manually using

	the “Connect” and “Disconnect” buttons.
<b>Idle Time Out</b>	Specify the amount of time the router waits before shutting down an idle connection. Only available when “Connect on Demand” (above) is selected.

### III-3-3-1-5. L2TP

Select “L2TP” if your ISP is providing you Internet access via L2TP (Layer 2 Tunneling Protocol).

PPTP

☒ Obtain an IP address automatically :

Host Name

MAC Address
Clone MAC

☐ Use the following IP address :

Static IP Address

Subnet Mask

Default Gateway Address

MAC Address
Clone MAC

DNS Address

☒ Obtain an IP address automatically
☐ Use the following IP address

DNS1 Address

DNS2 Address

DNS3 Address

☒ Enable Dual Wan Access :

IGMP Source

☒ ETH
☐ PPP

L2TP Settings :

User ID

Password

L2TP Gateway

MTU
(512<= MTU Value <=1492)

Connection Type

Continuous
▼

Connect
Disconnect

Idle Time Out
(1-1000 minutes)

Save Settings

<b>Host Name</b>	Enter the host name of your computer here If required.
------------------	--

<b>MAC Address</b>	For some applications, you may need to designate a specific MAC address for the router. Please enter the MAC address here. If you are connecting the router to a computer, press “Clone Mac” to automatically enter your computer’s MAC address.
<b>Static IP Address</b>	Input the IP address assigned by your ISP here.
<b>Subnet Mask</b>	Input the subnet mask assigned by your ISP here.
<b>Default Gateway Address</b>	Input the default gateway assigned by your ISP here. Some ISPs may call this “Default Route”.
<b>MAC Address</b>	If your ISP filters access by MAC addresses, enter your computer’s MAC address here. Click “Clone MAC” to automatically enter your computer’s MAC address.
<b>DNS Address</b>	Select “Obtain an IP address automatically” or “Use the following IP address”. Check with your ISP if you are unsure.
<b>DNS Address 1,2 &amp; 3</b>	Enter the DNS address(es) assigned by your ISP here.
<b>Enable Dual-WAN Access</b>	Enable/disable dual WAN access. When you enable dual WAN access, select an IGMP source and enter a “Host Name” and “MAC Address”.
<b>User ID</b>	Input the user name assigned by your ISP here.
<b>Password</b>	Input the password assigned by your ISP here.
<b>L2TP Gateway</b>	Input the L2TP gateway assigned by your ISP here.
<b>Connection ID</b>	Specify a reference name/ID for the connection.
<b>MTU</b>	Enter the maximum transmission unit (MTU) value of your network connection. The default value is 1392.
<b>Connection Type</b>	Specify a connection type: <ul style="list-style-type: none"> <li>1. “Continuous”: Connected all the time.</li> <li>2. “Connect on Demand”: Connect when you initiate an Internet connection.</li> <li>3. “Manual”: Connect/disconnect manually using the “Connect” and “Disconnect” buttons.</li> </ul>
<b>Idle Time Out</b>	Specify the amount of time the router waits before shutting down an idle connection. Only available when “Connect on Demand” (above) is selected.

### III-3-3-2. DDNS

Dynamic DNS (DDNS) is a service which provides a hostname-to-IP service for dynamic IP users. The changing nature of dynamic IPs means that it can be difficult to access a service provided by a dynamic IP user; a DDNS service though can map such dynamic IP addresses to a fixed hostname, for easier access. The router supports several DDNS service providers, for more details and to register for a DDNS account please visit the DDNS providers website(s), examples of which are listed below.

**DDNS**

Enable / Disable

☐ Enable ☒ Disable

Provider

DynDNS

Domain Name

Account / E-mail

Password / Key

Save Settings

<b>Enable/Disable</b>	Enable or disable DDNS
<b>Provider</b>	Select DDNS service provider.
<b>Domain Name</b>	Enter the domain name provided by the DDNS provider.
<b>Account/Email</b>	Please enter the DDNS registration account/email.
<b>Password/Key</b>	Enter the DDNS service password/key.

The following DDNS services are supported:

<b>3322</b>	<a href="http://www.3322.org">http://www.3322.org</a>
<b>DHS</b>	<a href="http://www.dhs.org">http://www.dhs.org</a>
<b>DynDNS</b>	<a href="http://www.dyndns.org">http://www.dyndns.org</a>
<b>ODS</b>	<a href="http://ods.org">http://ods.org</a>
<b>TZO</b>	<a href="http://www.tzo.com">http://www.tzo.com</a>
<b>GnuDIP</b>	<a href="http://gnudip2.sourceforge.net">http://gnudip2.sourceforge.net</a>
<b>DyNS</b>	<a href="http://www.dyns.cx/">http://www.dyns.cx/</a>
<b>ZoneEdit</b>	<a href="http://www.zoneedit.com">http://www.zoneedit.com</a>

<b>DHIS</b>	<i><a href="http://www.dhis.org/">http://www.dhis.org/</a></i>
<b>CyberGate</b>	<i><a href="http://cybergate.planex.co.jp/ddns/">http://cybergate.planex.co.jp/ddns/</a></i>
<b>NS2GO</b>	<i><a href="http://www.ns2go.com/">http://www.ns2go.com/</a></i>
<b>NO-IP</b>	<i><a href="http://www.noip.com/">http://www.noip.com/</a></i>

### III-3-3-3. DNS Proxy

DNS Proxy is a DNS service which re-routes traffic to a proxy server in a different geographical location/region.

**DNS Proxy**

DNS Proxy

☒ Disable ☐ Enable

DNS Proxy Rules (URL)

Select Your Rules

☒ Original rules ☐ User define rules

User define rules :

(Only 50 sets of Domain Name are allowed.)

NO.

Domain Name

Proxy Server IP

☐ ▼

No data available in table

Delete Selected

Delete All

Original rules :

NO.

Domain Name

Proxy Server IP

☐ ▼

No data available in table

Add


Save Settings

<b>DNS Proxy</b>	Enable or disable a DNS proxy server.
<b>DNS Proxy Rules (URL)</b>	When DNS proxy is enabled, enter the URL of a DNS proxy server.
<b>Select Your Rules</b>	Enter the domain name provided by the DDNS provider.

### III-3-3-4. VPN Server

A VPN is a virtual private network which you can connect to remotely. VPNs are secure and encrypted. Your router has a built-in VPN server which you can configure and access on your network devices, including smartphones, tablets and computers.

**OpenVPN Server**

Enabled VPN Server :  **1**

Server Information :

EDIMAX DDNS	023se0004f.router.myedimax.com
VPN Subnet/Netmask	10.8.0.0/255.255.255.0
Protocol	UDP
Server Port	443

Client Configuration Files :

Send All Traffic Over VPN Server	<b>Export</b>	<b>2</b> <a href="#">more...</a>
Send "Only" Home-Network Traffic Over VPN Server	<b>Export</b>	<a href="#">more...</a>

**OpenVPN Client Setting**

[Windows](#)  
[Mac OS](#)  
[iOS](#)  
[Android](#)

**4**

**OpenVPN Client Account Control**

Status	Client Name	Password	<b>3</b>
	<input type="text"/>	<input type="text"/>	<b>Add</b>
Disconnect	admin	--	<b>Change</b>

1. Enable VPN server.
2. Export your VPN server configuration file. You can open this file on your network device (smartphone, tablet, computer) using VPN software/app to automatically connect to your VPN on your device.



***You can choose which kind of configuration file to export, depending on your requirement. "Send All Traffic Over VPN"***

***Server” will configure your network device to use the VPN for all Internet traffic. “Send Only Home Network Traffic over VPN Server” will configure your network device to access the Internet as usual but use the VPN to access your home (router) network. The 2<sup>nd</sup> option is ideal if you only wish to use the VPN for remote access to your home network. The 1<sup>st</sup> option will encrypt all Internet traffic through the VPN.***

- 3.** Setup a login account for your VPN. This is required to access your VPN on your network device.
- 4.** Send the exported configuration file to your network device (e.g. via email, cloud or USB). Open the file using VPN software or apps which are widely available online, and enter your login details to connect to your VPN.



***You can access further help to connect your network device to your VPN by selecting your operating system under “OpenVPN Client Settings”.***



III-3-4. LAN



You can configure your Local Area Network (LAN) on this page. You can enable the router to dynamically allocate IP addresses to your LAN clients, and you can modify the IP address of the device. The device’s default IP address is 192.168.2.1.



***You can access the browser based configuration interface using the device’s IP address instead of using the URL <http://edimax.setup>.***

LAN IP

IP Address

192.168.2.1

Subnet Mask

255.255.255.0

802.1d Spanning Tree

Disable ▼

IP Address	Specify the IP address here. This IP address will be assigned to the BR-6478 AC V2 and will replace the default IP address.
Subnet Mask	Specify a subnet mask. The default value is 255.255.255.0
802.1d Spanning Tree	Select “Enable” or “Disable” to enable/disable 802.1d Spanning Tree. This creates a tree of connected layer-2 bridges (typically Ethernet switches) within a mesh network, and disables those links that are not part of the tree, leaving a single active path between any two network nodes.

Your device’s DHCP server automatically assigns IP addresses to computers on its network, between a defined range of numbers.

DHCP Server

DHCP Server

Enable ▾

Lease Time

Forever ▾

Start IP

192.168.2.100

End IP

192.168.2.200

<b>DHCP Server</b>	Enable or disable the DHCP server.
<b>Lease Time</b>	Select a lease time for the DHCP leases here. The DHCP client will obtain a new IP address after the period expires.
<b>Start IP</b>	Enter the start IP address for the DHCP server's IP address leases.
<b>End IP</b>	Enter the end IP address for the DHCP server's IP address leases.

Your device's DHCP server can be configured to assign static (fixed) IP addresses to specified network devices, identified by their unique MAC address.

Static DHCP Lease Table

☐ Enable Static DHCP Leases

MAC Address

IP Address

Add

Only 32 sets of addresses are allowed.

NO.	MAC Address	IP Address	Select
1	aa:bb:cc:dd:ee:ff	192.168.2.110	<input type="checkbox"/>

Delete Selected

Delete All

<b>Enable Static DHCP Leases</b>	Enable/disable static DHCP leases. This must be enabled in order to assign any network device a static IP address.
<b>MAC Address</b>	Enter the specified network device's MAC address here.
<b>IP Address</b>	Assign a fixed IP address for the specified network device here.
<b>Add</b>	Add the information to the "Static DHCP

	Leases Table”.
<b>Clear</b>	Clear the MAC address and IP address fields.
<b>Delete Selected / Delete All</b>	Delete selected or all entries from the table.



***The LAN IP page will be displayed as below when your device is set to access point mode & extender mode. You can set the BR-6478 AC V2 to obtain an IP address automatically or you can specify an IP address.***

LAN IP

☒ Obtain an IP address automatically
☐ Use the following IP address

IP Address

192.168.2.1

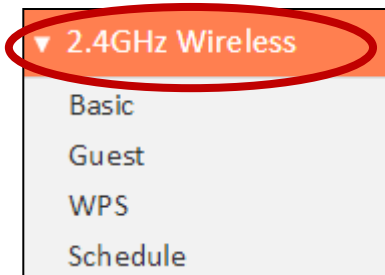
Subnet Mask

255.255.255.0

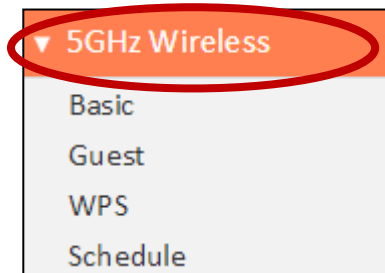
Default Gateway Address

DNS Address

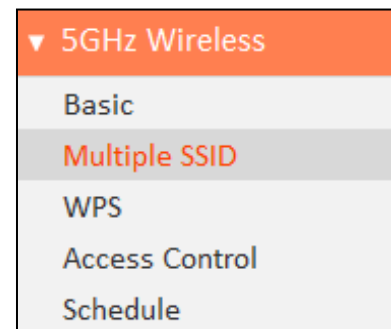
### III-3-5. 2.4GHz Wireless & 5GHz Wireless



The “2.4GHz Wireless” & “5GHz Wireless” menu allows you to configure SSID and security settings for your Wi-Fi network along with a guest Wi-Fi network. WPS, access control and scheduling functions can also be managed from here.



#### Access Point Mode:



***In Access Point mode, the “Guest” feature in the menu is replaced by “Multiple SSID”.***

#### III-3-5-1. Basic

The “Basic” screen displays settings for your primary 2.4GHz or 5GHz Wi-Fi network.

**Basic Settings**

☐ Disable Wireless

Mode

AP ▼

Band

2.4 GHz (b+g+n)

Wireless Network Name (SSID)

edimax\_2.4G\_00000C

☐ Hide SSID

☐ Enable Wireless Clients Isolation

Channel Number

Auto ▼

Site Survey

Show List

Wireless Clients

Show List

#### Disable Wireless

Check the box to disable the wireless function of your device.

<b>Mode</b>	Keep the default “AP” value for the device to act as a standard wireless access point, or select “AP Bridge-WDS” for the device to function in WDS mode (see below).
<b>Band</b>	Displays the wireless standard used for the BR-6478 AC V2’s “2.4GHz (B+G+N)” means that 802.11b, 802.11g, and 802.11n wireless clients can connect to the BR-6478 AC V2.
<b>Wireless Network Name (SSID)</b>	This is the name of your Wi-Fi network for identification, also sometimes referred to as “SSID”. The SSID can consist of any combination of up to 32 alphanumerical characters.
<b>Hide SSID</b>	Enable or disable hide SSID. When disabled, the SSID will be visible to clients as an available Wi-Fi network. When enabled, the SSID will not be visible as an available Wi-Fi network to clients – clients must manually enter the SSID in order to connect. A hidden (disabled) SSID is typically more secure than a visible (enabled) SSID.
<b>Enable Wireless Clients Isolation</b>	Check the box to enable wireless clients isolation. This prevents wireless clients connected to the BR-6478 AC V2 from communicating with each other and improves security. Typically, this function is useful for corporate environments or public hot spots and can prevent brute force attacks on clients’ usernames and passwords.
<b>Channel Number</b>	Select a wireless radio channel or use the default “Auto” setting from the drop-down menu.
<b>Site Survey</b>	Click “Select Site List” to display a new window showing information about the surrounding wireless environment. This information is useful to select an effective wireless channel number.
<b>Wireless Clients</b>	Click “Show List” to display a new window showing information about wireless clients. Please disable any pop-up blockers if you have difficulty using this function.

## AP Bridge-WDS:

Mode	AP Bridge-WDS
Band	AP AP Bridge-WDS

Wireless Distribution System (WDS) can bridge/repeat access points together in an extended network. WDS settings can be configured as shown below.



***When using WDS, configure the IP address of each access point to be in the same subnet and ensure there is only one active DHCP server among connected access points, preferably on the WAN side.***

WDS must be configured on each access point, using correct MAC addresses. All access points should use the same wireless channel.

MAC Address 1	000000000000
MAC Address 2	000000000000
MAC Address 3	000000000000
MAC Address 4	000000000000
Set Security	Set Security

<b>MAC Address 1 - 4</b>	Enter the correct MAC address for other access points in WDS mode.
<b>Set Security</b>	Click “Set Security” to open a new window and enter the security settings for WDS (shown below). Click “Save” when finished.



***Please ensure you setup and save wireless security settings before you click “Set Security” to set WDS security settings.***

## AP Bridge-WDS Security Setting

Encryption	<input type="text" value="WPA Pre-shared Key"/>
WPA Unicast Cipher Suite	<input checked="" type="radio"/> WPA2 (AES)
Pre-shared Key Format	<input type="text" value="Passphrase"/>
Pre-shared Key	<input type="text"/>

Save

Close

## Wireless Security:

Wireless Security

Encryption

Key Length

Key Format

Encryption Key  ☒ Hide

☐ Enable 802.1x Authentication

Select an encryption type from the drop-down menu:



***“WPA Pre-shared Key” is the recommended and most secure encryption type.***



***In WISP mode, WPA RADIUS is unavailable for the wireless band that is used to connect to WISP’s AP.***

Wireless Security

Encryption

☐ Enable 802.1x Authentication

Disable  
WEP  
WPA Pre-shared Key  
WPA RADIUS



### III-3-5-1-1. Disable

Encryption is disabled and no password/key is required to connect to the BR-6478 AC V2.



***Disabling wireless encryption is not recommended. When disabled, anybody within range can connect to your device's SSID.***

<b>Enable 802.1x Authentication</b>	Check the box to enable the 802.1x authentication. A RADIUS server is required to perform 802.1x authentication: enter the RADIUS server's information in the relevant fields (below).
-------------------------------------	--



Enable 802.1x Authentication

RADIUS Server IP address

RADIUS Server Port

1812

RADIUS Server Password

### III-3-5-1-2. WEP

WEP (Wired Equivalent Privacy) is a basic encryption type. For a higher level of security consider using WPA encryption.

Wireless Security

Encryption	WEP
Key Length	64-bit
Key Format	Hex (10 characters)
Encryption Key	•••••••••• <input checked="" type="checkbox"/> Hide

☐ Enable 802.1x Authentication

<b>Key Length</b>	Select 64-bit or 128-bit. 128-bit is more secure than 64-bit.
<b>Key Format</b>	Choose from “ASCII” (any alphanumerical character 0-9, a-z and A-Z) or “Hex” (any characters from 0-9, a-f and A-F).
<b>Encryption Key</b>	Enter your encryption key/password according to the format you selected above. A complex, hard-to-guess key is recommended. Check the “Hide” box to hide your password from being displayed on-screen.
<b>Enable 802.1x Authentication</b>	Check the box to enable the 802.1x authentication. A RADIUS server is required to perform 802.1x authentication: enter the RADIUS server’s information in the relevant fields (below).

☒ Enable 802.1x Authentication

RADIUS Server IP address	
RADIUS Server Port	1812
RADIUS Server Password	

### III-3-5-1-3. WPA Pre-Shared Key

WPA pre-shared key is the recommended and most secure encryption type.

Wireless Security

Encryption: WPA Pre-shared Key ▼

WPA Unicast Cipher Suite: ☒ WPA (TKIP) ☐ WPA2 (AES) ☐ WPA2 Mixed

Pre-shared Key Format: Passphrase ▼

Pre-shared Key:  ☒ Hide

<b>WPA Unicast Cipher Suite</b>	Select from WPA (TKIP), WPA2 (AES) or WPA2 Mixed. WPA2 (AES) is safer than WPA (TKIP), but not supported by all wireless clients. Please make sure your wireless client supports your selection. WPA2 (AES) is recommended followed by WPA2 Mixed if your client does not support WPA2 (AES).
<b>Pre-shared Key Format</b>	Choose from “Passphrase” (8-63 alphanumeric characters) or “Hex” (up to 64 characters from 0-9, a-f and A-F).
<b>Pre-shared Key</b>	Please enter a key according to the format you selected above. A complex, hard-to-guess key is recommended. Check the “Hide” box to hide your password from being displayed on-screen.

### III-3-5-1-4. WPA Radius

WPA RADIUS is a combination of WPA encryption and RADIUS user authentication. If you have a RADIUS authentication server, you can authenticate the identity of every wireless client against a user database.

**Wireless Security**

Encryption

WPA RADIUS

WPA Unicast Cipher Suite

☒ WPA (TKIP) ☐ WPA2 (AES) ☐ WPA2 Mixed

RADIUS Server IP address

RADIUS Server Port

1812

RADIUS Server Password

<b>WPA Unicast Cipher Suite</b>	Select from WPA (TKIP), WPA2 (AES) or WPA2 Mixed. WPA2 (AES) is safer than WPA (TKIP), but not supported by all wireless clients. Please make sure your wireless client supports your selection. WPA2 (AES) is recommended followed by WPA2 Mixed if your client does not support WPA2 (AES).
<b>RADIUS Server IP address</b>	Input the IP address of the RADIUS authentication server here.
<b>RADIUS Server Port</b>	Input the port number of the RADIUS authentication server here. The default value is 1812.
<b>RADIUS Server Password</b>	Input the password of the RADIUS authentication server here.

### III-3-5-2. Guest/Multiple SSID

You can setup an additional “Guest” Wi-Fi network so guest users can enjoy Wi-Fi connectivity without accessing your primary network. The “Guest” screen displays settings for your guest Wi-Fi network.



***The guest network is separate from your primary network. The settings for your primary network can be found in the “Basic” menu.***



***In access point mode, the “Guest” feature in the menu is replaced by “Multiple SSID”. The BR-6478 AC V2 supports up to four additional SSIDs for each wireless band in access point mode.***

**Basic Settings**

☒ Enable Guest SSID

Guest Wireless Name

edimax.guest

☐ Hide SSID

☐ Enable Wireless Clients Isolation

Band

2.4 GHz (b+g+n)

Channel Number

1 (Same as main SSID)

**Wireless Security**

Encryption

Disable

<b>Enable Guest SSID</b>	Check/uncheck the box to enable/disable the guest Wi-Fi network.
<b>Wireless Guest Name</b>	Enter a reference/ID name for your guest wireless network.
<b>Hide SSID</b>	Enable or disable hide SSID. When disabled, the SSID will be visible to clients as an available Wi-Fi network. When enabled, the SSID will not be visible as an available Wi-Fi network to clients – clients must manually enter the SSID in order to connect. A hidden (disabled) SSID is typically more secure than a visible (enabled) SSID.
<b>Enable Wireless</b>	Check the box to enable wireless clients

<b>Clients Isolation</b>	isolation. This prevents wireless clients connected to the BR-6478 AC V2 from communicating with each other and improves security. Typically, this function is useful for corporate environments or public hot spots and can prevent brute force attacks on clients' usernames and passwords.
<b>Band</b>	Displays the wireless standard used for the BR-6478 AC V2's frequency band: 2.4GHz (B+G+N): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to the BR-6478 AC V2.
<b>Channel Number</b>	Channel number for the guest network is the same as the main SSID and cannot be adjusted independently.

<b>Encryption</b>	Please refer to <a href="#"><i>III-3-5-1. Basic: Wireless Security</i></a> for details about security settings.
-------------------	---



***WPA RADIUS encryption type is not available for the guest network.***

## **MULTIPLE SSID:**

The BR-6478 AC V2 supports up to four additional SSIDs for each wireless band in access point mode. Once configured, these SSIDs are displayed in the "Multiple SSID Status" table as shown below. Use the "Multiple SSID Basic Settings" box to configure additional SSIDs.

Multiple SSID Status					
NO.	Status	SSID	VLAN ID	Encryption	MAC Address
1	Enabled	edimax.1	0	Disable	82:1F:1F:00:00:0C
2	Enabled	edimax.2	0	Disable	82:1F:1F:01:00:0C
3	Enabled	VLAN	1	Disable	82:1F:1F:02:00:0C
4	Disable	edimax.4	0	Disable	82:1F:1F:03:00:0C

## Multiple SSID Basic Settings

Multiple SSID  ( MAC Address : 82:1F:1F:00:00:0C )

☒ Enable Multiple SSID

Wireless Network Name (SSID)

☐ Enable Wireless Clients Isolation

☒ Broadcast SSID

Band 2.4 GHz (b+g+n)

Channel Number Auto (Same as main SSID)

VLAN ID  (Untagged:0, Tagged:1~4094)

<b>Multiple SSID</b>	Use the drop down menu to select which SSID (numbered 1 – 4) to configure.
<b>Enable Multiple SSID</b>	Check/uncheck this box to enable/disable the specified SSID. Must be checked for the SSID to function.
<b>Wireless Network Name (SSID)</b>	Enter a reference/ID name to separate your wireless network.
<b>Enable Wireless Clients Isolation</b>	Check the box to enable wireless clients isolation. This prevents wireless clients connected to the BR-6478 AC V2 from communicating with each other and improves security. Typically, this function is useful for corporate environments or public hot spots and can prevent brute force attacks on clients' usernames and passwords.
<b>Band</b>	Displays the wireless standard used for the BR-6478 AC V2's frequency band: 2.4GHz (B+G+N): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to the BR-6478 AC V2.
<b>Channel Number</b>	Channel number for the guest network is the same as the main SSID and cannot be adjusted independently.
<b>VLAN ID</b>	Set a VLAN ID for the specified SSID (see below).



***A VLAN is a local area network which maps workstations virtually instead of physically and allows you to group together or isolate users from each other. VLAN IDs 0 – 4094 are supported.***

Set wireless security for the specified SSID – security settings are described in **III-3-5-1. Basic.**

Multiple SSID Security

Encryption

Disable

Disable

WEP

WPA Pre-shared Key

WPA RADIUS

☐ Enable 802.1x Authentication



### III-3-5-3. WPS

Wi-Fi Protected Setup is a simple way to establish connections between WPS compatible devices. WPS can be activated on compatible devices by pushing a WPS button on the device or from within the device's firmware/configuration interface. When WPS is activated in the correct manner and at the correct time for two compatible devices, they will automatically connect. PIN code WPS includes the use of a PIN code between the two devices for verification.

The screenshot shows a web-based configuration page for WPS. At the top left, there is a red 'WPS' header. Below it, a checkbox labeled 'Enable WPS' is checked. The main section is titled 'Wi-Fi Protected Setup Information :'. It contains a table-like structure with the following details: WPS Status is 'Configured', Self Pin Code is '91486257', SSID is 'edimax\_2.4G\_EDF2D1', Authentication Mode is 'WPA Pre-shared Key', and Authentication Key is 'abcd1234'. Below this, the 'Device Configuration :' section shows 'Configuration Mode' set to 'Registrar'. There are three options for configuration: 'Configure via Push Button' with a red 'Start PBC' button, 'Configure via Client Pin Code' with a text input field, and a red 'Start PIN' button.

<b>Enable WPS</b>	Check/uncheck this box to enable/disable WPS.
<b>WPS Status</b>	Displays “Configured” or “unConfigured” depending on whether WPS and SSID/security settings for the device have been configured or not, either manually or using the WPS button.
<b>Self PIN Code</b>	Displays the WPS PIN code of the device.
<b>SSID</b>	Displays the SSID of the device.
<b>Authentication Mode</b>	Displays the wireless security authentication mode of the device.
<b>Authentication Key</b>	Displays the wireless security authentication key.
<b>Configuration Mode</b>	The configuration mode of the device’s WPS setting is displayed here. “Registrar” means the device acts as an access point for a wireless client to connect to and the wireless client(s)

	will follow the device's wireless settings.
<b>Configure via Push Button</b>	Click "Start PBC" (Push-Button Configuration) to activate WPS on the access point. WPS will be active for 2 minutes.
<b>Configure via Client PIN Code</b>	Enter the wireless client's PIN code here and click "Start PIN" to activate PIN code WPS. Refer to your wireless client's documentation if you are unsure of its PIN code.

### III-3-5-4. Access Control



#### ***Access Point mode only***

Access Control is a security feature that can help to prevent unauthorized users from connecting to your wireless router.

This function allows you to define a list of network devices permitted to connect to the BR-6478 AC V2. Devices are each identified by their unique MAC address. If a device which is not on the list of permitted MAC addresses attempts to connect to the BR-6478 AC V2, it will be denied.

To enable this function, check the box labeled "Enable Wireless Access Control".

#### Access Control

☐ Enable Wireless Access Control

Client PC  

----Select----

▼

>>

MAC Address

Comment

Add

MAC Address	Device Name	IP Address	Comment	Select
aa:bb:cc:dd:ee:ff	—	—	Home PC	<input type="checkbox"/>

Delete Selected

Delete All

Save Settings

Settings have been saved. Please [click here to restart](#) the router and bring the new settings into effect.

<b>MAC address</b>	<p>Select a PC name from the drop-down list and click “&gt;&gt;” to add enter it into the blank field to the right.</p> <p>Click “Refresh’ in the drop-down menu to refresh the list of available MAC addresses. If the address you wish to add is not listed, enter it manually.</p> <p>Enter a MAC address of computer or network device manually without dashes or colons e.g. for MAC address ‘aa-bb-cc-dd-ee-ff’ enter ‘aabbccddeeff’.</p>
<b>Comment</b>	Enter a comment for reference/identification consisting of up to 16 alphanumerical characters.
<b>Add</b>	Click “Add” to add the MAC address to the MAC address filtering table.

MAC address entries will be listed in the table as shown below. Select an entry using the “Select” checkbox.

MAC Address	Device Name	IP Address	Comment	Select
aa:bb:cc:dd:ee:ff	–	–	Home PC	<input type="checkbox"/>

Delete Selected

Delete All

<b>Delete Selected/ Delete All</b>	Delete selected or all entries from the table.
--	--

### III-3-5-5. Schedule



***When Cross-Band is enabled in extender mode, wireless scheduling is reversed according to frequency. Your 2.4GHz schedule will apply to your extender's 5GHz network and vice-versa.***

The schedule feature allows you to automate the wireless radio to switch off at specified times. Multiple schedules can be configured. Check/uncheck the box "Enable Wireless Off Schedule" to enable/disable the wireless off scheduling function.



***The BR-6478 AC V2 must have time & date settings initially set to use scheduling.***

**Wireless Schedule**

☒ Enable Wireless Off Schedule

☐ Every Day

Start Time

End Time

Add

Start Time	End Time	Select
Sunday - 23:30	Monday - 07:30	<input type="checkbox"/>
Monday - 23:30	Tuesday - 07:30	<input type="checkbox"/>
Tuesday - 23:30	Wednesday - 07:30	<input type="checkbox"/>
Wednesday - 23:30	Thursday - 07:30	<input type="checkbox"/>
Thursday - 23:30	Friday - 07:30	<input type="checkbox"/>
Friday - 23:30	Saturday - 07:30	<input type="checkbox"/>
Saturday - 23:30	Sunday - 07:30	<input type="checkbox"/>

Delete Selected Delete All

Save Settings

Settings have been saved. Please [click here to restart](#) the device and bring the new settings into effect.



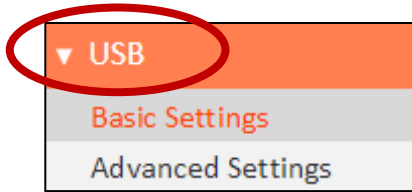
***Wireless scheduling can save energy and increase the security of your network.***

- 1.** Use the dropdown to select which day(s) to include in the schedule. Check “Every Day” as a shortcut for an every day schedule.
- 2.** Specify a start and end time (hour and minute) for the wireless off schedule using the drop-down menu.

<b>Add</b>	Add the schedule to the table of active schedules.
------------	--

<b>Delete Selected/ Delete All</b>	Delete selected or all entries from the table of active schedules.
--	--

### III-3-6. USB



Connect your USB storage to the USB port on the rear of the BR-6478AC V2. USB sharing is enabled by default so devices on your network can access the USB storage drive using appropriate tools for your OS (e.g. Windows File

Explorer → Network).



**USB drives should be pre-formatted to supported FAT32 or NTFS file systems before use with the USB port. USB hubs are not supported.**

#### III-3-6-1. Basic Settings

Configure basic USB settings: you can use the USB port for USB storage or for printer sharing. For USB storage you can enable Network Neighborhood access for Windows, and FTP access.

#### USB Sharing

☒ Enable USB Sharing

☒ USB Storage ☐ Print Server

#### USB Storage

USB Device Table

NO	Device Name	Total Space	Free Space	Select
	No Device			

Rescan Safely Remove

#### USB Storage Sharing

☐ Enable Network Neighborhood

Network Name : MyStorage  
Workgroup : Workgroup  
Access Link : \\192.168.2.1\share

☐ FTP Server

FTP :

ftp://192.168.2.1 :

port 21

☐ FTP(Internet) :

ftp://118.161.34.36 :

port 21

Note: To access FTP server from Internet (remotely) use the address ftp://public IP:port. If the device is restarted, check the public IP address again.

### Print Server

- Step1 : Connect your printer to the router with a USB cable.
- Step2 : Install printer drivers on your computer.
- Step3 : Install Edimax USB Device Server Utility on your computer from [here](#) or included on the CD.

<b>Enable USB Sharing</b>	Enable or disable USB Sharing. This must be enabled to use USB storage or printer sharing. Select USB storage or printer sharing.
<b>Enable Network Neighborhood</b>	Enable Network Neighborhood access for Windows if you can't find your USB storage on a Windows device when connected to the network.
<b>FTP Server</b>	Enable FTP access to the USB storage. Modify the port number if required.
<b>FTP Server (Internet)</b>	Enable remote (Internet) FTP access to the USB storage. Modify the port number if required.

### III-3-6-2. Advanced Settings

You can configure advanced USB storage settings for access management (folder access settings) and Network Neighborhood.

**Network Neighborhood**

Network Name :

MyStorage

Workgroup :

Workgroup

**Access Management**

☒ Share All

☐ Required Authentication

Current Share Folder Table

NO	USB Device	Share Name	Shared Folder	User Name	Password	Permission	Select
No data available in table							

Add

Edit

Delete Selected

Delete All

<b>Network Name</b>	Edit the name of the USB storage in the network.
<b>Workgroup</b>	Edit the name of the Network Neighborhood workgroup for your USB storage.

<b>Share All</b>	Select to share all folders and content on your USB storage.
<b>Require Authentication</b>	Select to use password authentication to access USB storage for all folders or only specified folders. Click “Add” to setup authentication.



## Add Network Folder

USB Device

File System

Share Name

Folder Name ☒ All Folders ☐ Select Folders

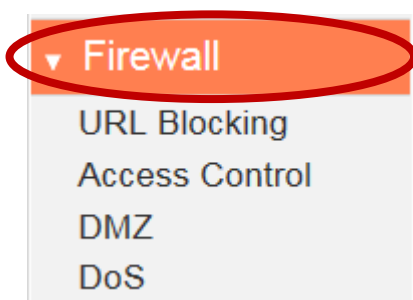
User Name  (4~20 characters)

Password  (4~20 characters)

Access Limit

<b>USB Device</b>	Displays the name of your attached USB storage.
<b>File System</b>	Displays the file system configured on your USB storage. FAT32 & NTFS are supported.
<b>Share Name</b>	Set a reference name for this sharing configuration.
<b>Folder Name</b>	Specify whether to share all folders or only selected folders. Browse to choose a specific folder to share.
<b>User Name</b>	Select a username.
<b>Password</b>	Select a password.
<b>Access Limit</b>	Select access limit for this USB storage.

### III-3-7. Firewall



The “Firewall” menu provides access to URL blocking, access control, DMZ and DoS functions to improve the security of your wireless network.



<b>SPI firewall</b>	Enable or disable the Stateful Packet Inspection (SPI) firewall.
---------------------	--

#### III-3-7-2. Access Control



***Access Control (MAC filtering) can also be configured from [III-3-5-4. Access Control](#).***

Access Control is a security feature that can help to prevent unauthorized users from connecting to your wireless router.

This function allows you to define a list of network devices permitted or denied to connect to the BR-6478 AC V2. Devices are each identified by their unique MAC address or IP address. Specific services can also be allowed/denied for IP addresses.

Check/uncheck the “Enable MAC Filtering” and/or “Enable IP Filtering” box to enable/disable MAC filtering and/or IP filtering.

## Access Control

☐ Enable MAC Filtering : ☐ Deny ☒ Allow

Client PC MAC Address

Computer Name



---- Select----



Comment

Add

MAC Filtering Table :

NO	Computer Name	Client PC MAC Address	Comment	Select
1	BLOOMHOUSEWIN8	80:1f:02:9c:8f:ff		<input type="checkbox"/>

Delete Selected

Delete All

☐ Enable IP Filtering Table : ☐ Deny ☒ Allow

IP Filtering Table :

NO	Client PC Description	Client PC IP Address	Client Service	Protocol	Port Range	Select
1	Home	192.168.2.115	TCP, UDP			<input type="checkbox"/>

Add PC

Delete Selected

Delete All

Save Settings

Settings have been saved. Please [click here to restart](#) the router and bring the new settings into effect.

## MAC Filtering:

<b>Enable MAC Filtering</b>	Check the box to enable MAC filtering and select whether to “Deny” or “Allow” access for specified MAC address.
<b>Client PC MAC Address</b>	Enter a MAC address of computer or network device manually without dashes or colons e.g. for MAC address ‘aa-bb-cc-dd-ee-ff’ enter ‘aabbccddeeff’.
<b>Computer Name</b>	Select a computer name from the drop-down list and click “<<” to add its MAC address into the “Client PC Mac Address” field.  Click “Refresh’ in the drop-down menu to refresh the list of available MAC addresses. If the address you wish to add is not listed, enter it manually.
<b>Comment</b>	Enter a comment for reference/identification consisting of up to 16 alphanumerical characters.
<b>Add</b>	Click “Add” to add the MAC address to the MAC address filtering table.

MAC address entries will be listed in the table. Select an entry using the “Select” checkbox.

MAC Filtering Table :

NO	Computer Name	Client PC MAC Address	Comment	Select
1	BLOOMHOUSEWIN8	80:1f:02:9c:8f:ff		<input type="checkbox"/>

Delete Selected

Delete All

<b>Delete Selected / Delete All</b>	Delete selected or all entries from the table.
-------------------------------------	--

## IP Filtering:

<b>Enable IP Filtering</b>	Check the box to enable IP filtering and select whether to “Deny” or “Allow” access for specified IP address.
<b>Add PC</b>	Opens a new window to add a new IP to the list, to deny or allow access/services according to above.

### Access Control Add PC

This page allows users to define service limitations of client PCs, including IP address and service type.

#### Access Control Add PC :

Client PC Description

Client PC IP address  -

#### Client PC Service :

Service Name	Detail Description	Select
WWW	HTTP, TCP Port 80, 3128, 8000, 8080, 8081	<input checked="" type="checkbox"/>
E-mail Sending	SMTP, TCP Port 25	<input checked="" type="checkbox"/>
News Forums	NNTP, TCP Port 119	<input checked="" type="checkbox"/>
E-mail Receiving	POP3, TCP Port 110	<input checked="" type="checkbox"/>
Secure HTTP	HTTPS, TCP Port 443	<input checked="" type="checkbox"/>
File Transfer	FTP, TCP Port 21, 20	<input checked="" type="checkbox"/>
MSN Messenger	TCP Port 1863	<input type="checkbox"/>
Telnet Service	TCP Port 23	<input type="checkbox"/>
AIM	AOL Instant Messenger, TCP Port 5190	<input type="checkbox"/>
NetMeeting	H.323, TCP Port 389,522,1503,1720,1731	<input type="checkbox"/>
DNS	UDP Port 53	<input type="checkbox"/>
SNMP	UDP Port 161, 162	<input type="checkbox"/>
VPN-PPTP	TCP Port 1723	<input type="checkbox"/>
VPN-L2TP	UDP Port 1701	<input type="checkbox"/>
TCP	All TCP Port	<input type="checkbox"/>
UDP	All UDP Port	<input type="checkbox"/>

#### User Define Service :

Protocol

Port Range

<b>Client PC Description</b>	Enter a description for reference/identification of up to 16 alphanumeric characters.
<b>Client PC IP address</b>	Enter a starting IP address in the left field and the end IP address in the right field to define a range of IP addresses; or enter an IP address in the left field only to define a single IP address.
<b>Service Name</b>	Various services are listed here with a short description. Check/uncheck the box for each service you wish to select.
<b>Protocol</b>	Select protocol "TCP" or "UDP" or "Both" for a service not included in the "Client PC Service" list.
<b>Port Range</b>	Enter the port range for the service not included in the "Client PC Service" list.  Enter a single port number e.g. 110, a range of port numbers e.g. 110-120, or multiple port numbers separated by a comma e.g. 110,115,120.
<b>Add</b>	Click "Add" to add selected services or a user defined service to the IP filtering table.

IP filtering entries will be listed in the IP filtering table shown below.

☐ Enable IP Filtering Table : ☐ Deny ☒ Allow

IP Filtering Table :

NO	Client PC Description	Client PC IP Address	Client Service	Protocol	Port Range	Select
1	Home	192.168.2.115	TCP, UDP			<input type="checkbox"/>

[Add PC](#) [Delete Selected](#) [Delete All](#)

<b>Delete Selected/ Delete All</b>	Delete selected or all entries from the table.
--	--

### III-3-7-3. DMZ

A Demilitarized Zone (DMZ) is an isolated area in your local network where private IP addresses are mapped to specified Internet IP addresses, allowing unrestricted access to the private IP addresses but not to the wider local network.

You can define a virtual DMZ host here. This is useful for example, if a network client PC cannot run an application properly from behind an NAT firewall, since it opens the client up to unrestricted two-way access.

**DMZ**

☐ Enable DMZ

Public

Client PC

Computer Name

☒ Dynamic IP 

Session 1 ▾

☐ Static IP

<<

----Select----

▾

Add

Current DMZ Table :

NO	Computer Name	Public IP Address	Client PC IP Address	Select
----	---------------	-------------------	----------------------	--------

Delete Selected

Delete All

Save Settings

<b>Enable DMZ</b>	Check/uncheck the box to enable/disable the device's DMZ function.
<b>Public</b>	Select "Dynamic IP" or "Static IP" here.  For "Dynamic IP" select an Internet connection session from dropdown menu.  For "Static IP" enter the IP address that you want to map to a specific private IP address.
<b>Client PC</b>	Enter the private IP address that the internet IP address will be mapped to.
<b>Computer Name</b>	Select a computer name from the list and click "<<" to enter its IP address into the "Client PC" field (above).
<b>Add</b>	Click "Add" to add the client to the "Current DMZ Table".

DMZ entries will be displayed in the table shown below:

Current DMZ Table :

NO	Computer Name	Public IP Address	Client PC IP Address	Select
<div>Delete SelectedDelete All</div>				

Delete Selected/ Delete All	Delete selected or all entries from the table.
--------------------------------	--

III-3-7-4. DoS

Denial-of-Service (DoS) is a common form of malicious attack against a network. The router’s firewall can protect against such attacks.

If you are not familiar with these functions, it is recommended you keep the default settings.

DoS

☐ Ping of Death

Ping of Death Packet(S) Per 

Second

 Burst

☐ Discard Ping From WAN

☒ NMAP FIN / URG / PSH

☒ Xmas tree

☒ Another Xmas tree

☒ Null scan

☒ SYN / RST

☒ SYN / FIN

☒ SYN (only unreachable ports)

☐ Port Scan

☐ Sync Flood

Packet(S) Per 

Second

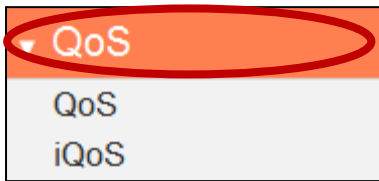
 Burst

Save Settings



<b>Ping of Death</b>	Specify the frequency of ping of death packets which will trigger the router's DoS protection function.
<b>Discard Ping from WAN</b>	Check this box and the router will not answer ping requests from the Internet.
<b>Port Scan</b>	Intruders use "port scanners" to detect open Internet IP address ports. Check each type of port scan to prevent.
<b>Sync Flood</b>	Specify the frequency of sync flood packets which will trigger the DoS protection function.

### III-3-8. QoS



Quality of Service (QoS) is a feature to manage Internet bandwidth efficiently. Some applications require more bandwidth than others to function properly, and QoS allows you to ensure that sufficient bandwidth is available. Minimum or maximum bandwidth can be guaranteed for a specified application.



***QoS can improve the BR-6478 AC V2's performance. QoS is recommended to optimize performance for online gaming.***

#### III-3-8-1. QoS

Check/uncheck the box “Enable QoS” to enable/disable the QoS function. Click “Add” to open a new window and setup a QoS rule. The “Current QoS Table” displays all QoS rules.

**QoS**

☐ Enable QoS

Total Download Bandwidth  kbits

Total Upload Bandwidth  kbits

Current QoS Table :

Priority	Rule Name	Upload Bandwidth	Download Bandwidth	Select
No data available in table				

Add

Edit

Delete Selected

Delete All

Move Up

Move Down

Save Settings

<b>Total Download Bandwidth</b>	Enter your total download bandwidth limit from your Internet service provider (ISP) in kbits.
<b>Total Upload Bandwidth</b>	Enter your total upload bandwidth limit from your Internet service provider (ISP) in kbits.
<b>Add</b>	Opens a new window to add a new QoS rule to the current QoS table.

## QoS

This page allows users to add/modify the QoS rule's settings.

Rule Name

Bandwidth   kbits

Local IP Address  -

Local Port Range

Remote IP Address  -

Remote Port Range

Traffic Type

Protocol

<b>Rule Name</b>	Enter a name for the QoS rule for reference/identification.
<b>Bandwidth</b>	<p>Set the bandwidth limits for the QoS rule:</p> <div> <div>Bandwidth :</div> <div> <input type="button" value="Download"/> <input type="text"/> Kbps <input type="button" value="guarantee"/> </div> </div> <div> <div>(1)</div> <div>(2)</div> <div>(3)</div> </div> <ol style="list-style-type: none"> <li>1. Select "Download" or "Upload" for the QoS rule.</li> <li>2. Enter the bandwidth limit.</li> <li>3. Select whether the bandwidth is a "Guarantee" (minimum) or "Max" (maximum).</li> </ol>
<b>Local IP Address</b>	<p>Enter the IP address range to which the QoS rule will be applied.</p> <p>Enter a starting IP address in the left field and the end IP address in the right field to define a range of IP addresses; or enter an IP address in the left field only to define a single IP address.</p>

<b>Local Port Range</b>	Enter the port range to activate the QoS rule. Enter a single port number e.g. 110 or a range of port numbers e.g. 110-120
<b>Remote IP Address</b>	Enter the remote IP address range which will activate the QoS rule. Enter a starting IP address in the left field and the end IP address in the right field to define a range of IP addresses; or enter an IP address in the left field only to define a single IP address.
<b>Remote Port Range</b>	Enter the remote port range to activate the QoS rule. Enter a single port number e.g. 110 or a range of port numbers e.g. 110-120
<b>Traffic Type</b>	Select traffic type as an alternative to specifying a port range above.
<b>Protocol</b>	Select a "TCP" or "UDP" protocol type.
<b>Save</b>	Click 'add' button to add a new QoS rule (detailed instructions will be given below).

QoS rule entries will be listed in the "Current QoS Table" as shown below.  
Select a rule using the "Select" checkbox.



***When using the "Edit" button only one rule can be selected each time.***



***QoS rules will be processed in the order that they are listed i.e. the rule at the top of the list will be applied first, and then the second rule etc. The order can be adjusted using the "Move Up/Down" buttons.***

Current QoS Table :

Priority	Rule Name	Upload Bandwidth	Download Bandwidth	Select
----------	-----------	------------------	--------------------	--------

[Add](#)
[Edit](#)
[Delete Selected](#)
[Delete All](#)
[Move Up](#)
[Move Down](#)

<b>Edit</b>	Edit a selected rule.
<b>Delete Selected/ Delete All</b>	Delete selected or all entries from the table.
<b>Move Up/Down</b>	Move selected rule up or down the list.

### III-3-8-2. iQoS

iQoS is a more intuitive and automated tool to manage internet bandwidth than manually configuring the settings using QoS. For online gamers or users with bandwidth requirements for audio/video, iQoS is a useful function.



***iQoS cannot be used in conjunction with QoS and vice-versa. When one is enabled, the other is automatically disabled.***

**iQoS**

iQoS is a smart tool for bandwidth management. iQoS cannot be used simultaneously with QoS.

☐ Enable iQoS

Total Download Bandwidth  kbits

Total Upload Bandwidth  kbits

Current iQoS Table :

High					Low				

[Save Settings](#)

Settings have been saved. Please [click here to restart](#) the router and bring the new settings into effect.

Check/uncheck the box “Enable iQoS” to enable/disable the iQoS function, and then enter your bandwidth limits and arrange the network application icons in priority order in the “Current iQoS Table”. Icons with higher priority will be assigned bandwidth more efficiently for better performance.

<b>Total Download Bandwidth</b>	Enter your total download bandwidth limit from your Internet service provider (ISP) in kbits.
<b>Total Upload Bandwidth</b>	Enter your total upload bandwidth limit from your Internet service provider (ISP) in kbits.

The icons represent the following categories:



Internet Browsing



P2P/BT Downloads



FTP



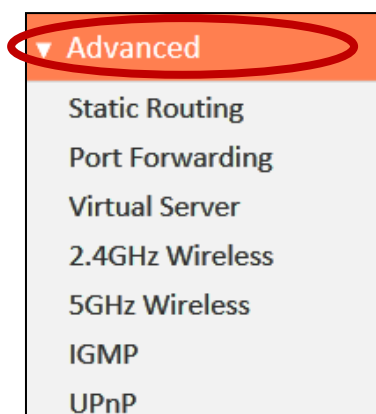
Multimedia



Online Gaming

The iQoS table is ordered left to right, high to low priority. Click a small icon below the table to insert it into the table, and click a large icon in the table to remove it. All spaces in the priority table must be filled.

### III-3-9. Advanced



Advanced features of the BR-6478 AC V2 can be configured from the “Advanced” menu.

#### III-3-9-1. Static Routing

Static routing is a method of configuring path selection of routers, characterized by the absence of communication between routers regarding the current topology of the network. The opposite of static routing is dynamic routing, sometimes also referred to as adaptive routing.

You can configure static routing and manually add routes to the routing table shown below.

**Static Routing**

☐ Enable Static Routing

Destination LAN IP      Subnet Mask      Default Gateway      Hop Count      Interface

                       LAN ▼

**Add**

Current Static Routing Table :

NO	Destination LAN IP	Subnet Mask	Default Gateway	Hop Count	Interface	Select
No data available in table						

**Delete Selected**      **Delete All**

**Save Settings**

<b>Enable Static Routing</b>	Check/uncheck the box to enable/disable static routing.
<b>Destination LAN IP</b>	Enter the destination network's IP address.
<b>Subnet Mask</b>	Enter the subnet mask of the destination network.
<b>Default Gateway</b>	Enter the default gateway of the destination network.
<b>Hop Count</b>	Enter the hop count (the distance between destination network and this broadband router) here.
<b>Interface</b>	Enter the interface which leads to destination network.
<b>Add</b>	Add the route to the current static routing table.

Static Routing Table entries will be displayed in the table shown below:

Current Static Routing Table :						
NO	Destination LAN IP	Subnet Mask	Default Gateway	Hop Count	Interface	Select
						<div>Delete Selected</div> <div>Delete All</div>

<b>Delete Selected/ Delete All</b>	Delete selected or all entries from the table.
--	--

### III-3-9-2. Port Forwarding

This function allows you to redirect a single port or consecutive ports of an Internet IP address to the same port of a local IP address. The port number(s) of the Internet IP address and local IP address must be the same.

If the port number of the Internet IP address and local IP address is different, please use the “Virtual Server” function instead.



**Port Forwarding**

☐ Enable Port Forwarding

Private IP:  Computer Name:   Type:  Port Range:  -  Comment:

Current Port Forwarding Table :

NO	Computer Name	Private IP	Type	Port Range	Comment	Select
No data available in table						

<b>Private IP</b>	Enter the IP address of the computer on the local network.
<b>Computer Name</b>	Windows computers on the local network will be listed here – select a computer from the list and click << to automatically add the IP address to the “Private IP” field.
<b>Type</b>	Select the type of connection, “TCP”, “UDP” or “Both”.
<b>Port Range</b>	Input the starting port number in the left field, and input the ending port number in the right field. If you only want to redirect a single port number, only enter a port number in the left field.
<b>Comment</b>	Enter a comment for reference or identification.

Port Forwarding Table entries will be displayed in the table shown below:

Current Port Forwarding Table :						
NO	Computer Name	Private IP	Type	Port Range	Comment	Select
						<input style="background-color: #f08080;" type="button" value="Delete Selected"/> <input style="background-color: #f08080;" type="button" value="Delete All"/>

<b>Delete Selected/ Delete All</b>	Delete selected or all entries from the table.
--	--

### III-3-9-3. Virtual Server

This function allows you to set up an internet service on a local computer, without exposing the local computer to the internet. You can also build various sets of port redirection, to provide various internet services on different local computers via a single internet IP address.

**Virtual Server**

☐ Enable Virtual Server

Private IP

Computer Name

Private Port

Type

Public Port

Comment

<< ----Select----

Both ▼

Add

Current Virtual Server Table :

NO	Computer Name	Private IP	Private Port	Type	Public Port	Comment	Select
No data available in table							

Delete SelectedDelete All

Save Settings

<b>Private IP</b>	Specify the IP address of the computer on your local network.
<b>Computer Name</b>	Select the name of a Windows computer from the drop-down menu and click << to auto-input its IP address in the “Private IP” field.
<b>Private Port</b>	Specify the private port you wish to use on the computer in your local network.
<b>Type</b>	Select the type of Internet Protocol.
<b>Public Port</b>	Specify a public port to access the computer on your local network.
<b>Comment</b>	Enter a comment for reference or identification.

Current Virtual Table entries will be displayed in the table shown below:

Current Virtual Server Table :

NO	Computer Name	Private IP	Private Port	Type	Public Port	Comment	Select
							<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/>

**Delete Selected/  
Delete All**

Delete selected or all entries from the table.

### III-3-9-4. 2.4GHz Wireless

These settings are for experienced users only. Please do not change any of the values on this page unless you are already familiar with these functions.

#### 2.4GHz Wireless

Wireless Module	Enable
Fragment Threshold	<input type="text" value="2346"/> (256-2346)
RTS Threshold	<input type="text" value="2347"/> (0-2347)
Beacon Interval	<input type="text" value="100"/> (20-1024 ms)
DTIM Period	<input type="text" value="3"/> (1-10)
Data Rate	<input type="text" value="Auto"/>
N Data Rate	<input type="text" value="Auto"/>
Channel Width	<input checked="" type="radio"/> Auto 20/40 MHZ <input type="radio"/> 20 MHZ
Preamble Type	<input checked="" type="radio"/> Short Preamble <input type="radio"/> Long Preamble
CTS Protect	<input type="radio"/> Auto <input type="radio"/> Always <input checked="" type="radio"/> None
Tx Power	<input type="text" value="100 %"/>
WMM	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

<b>Fragment Threshold</b>	Set the Fragment threshold of the wireless radio. The default value is 2346.
<b>RTS Threshold</b>	Set the RTS threshold of the wireless radio. The default value is 2347.
<b>Beacon Interval</b>	Set the beacon interval of the wireless radio. The default value is 100.

<b>DTIM Period</b>	Set the DTIM period of wireless radio. The default value is 3.
<b>Data Rate</b>	Set the wireless data transfer rate. The default is set to Auto.
<b>N Data Rate</b>	Set the data rate of 802.11n. The default is set to Auto.
<b>Channel Width</b>	Select wireless channel width (bandwidth used by wireless signals from the device) – the recommended value is Auto 20/40MHz.
<b>Preamble Type</b>	Set the wireless radio preamble type. The default value is “Short Preamble”.
<b>CTS Protect</b>	Enabling this setting will reduce the chance of radio signal collisions between 802.11b and 802.11g wireless access points. It’s recommended to set this option to “Auto”.
<b>Tx Power</b>	Set the power output of the wireless radio. You may not require 100% output power. Setting a lower power output can enhance security since potentially malicious/unknown users in distant areas will not be able to access your signal.
<b>WMM</b>	WMM (Wi-Fi Multimedia) technology can improve the performance of certain network applications, such as audio/video streaming, network telephony (VoIP) and others. When WMM is enabled, the device will prioritize different kinds of data and give higher priority to applications which require instant responses for better performance.

### III-3-9-5. 5GHz Wireless

These settings are for experienced users only. Please do not change any of the values on this page unless you are already familiar with these functions.

5GHz Wireless

Wireless Module	Enable	
Fragment Threshold	<input type="text" value="2346"/>	(256-2346)
RTS Threshold	<input type="text" value="2347"/>	(0-2347)
Beacon Interval	<input type="text" value="100"/>	(20-1024 ms)
DTIM Period	<input type="text" value="3"/>	(1-10)
Data Rate	<input type="text" value="Auto"/>	
N Data Rate	<input type="text" value="Auto"/>	
Channel Width	<input checked="" type="radio"/> 20/40/80 MHz <input type="radio"/> 20/40 MHz <input type="radio"/> 20 MHz	
Preamble Type	<input checked="" type="radio"/> Short Preamble <input type="radio"/> Long Preamble	
CTS Protect	<input type="radio"/> Auto <input type="radio"/> Always <input checked="" type="radio"/> None	
Tx Power	<input type="text" value="100 %"/>	
WMM	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	

Save Settings

<b>Fragment Threshold</b>	Set the Fragment threshold of the wireless radio. The default value is 2346.
<b>RTS Threshold</b>	Set the RTS threshold of the wireless radio. The default value is 2347.
<b>Beacon Interval</b>	Set the beacon interval of the wireless radio. The default value is 100.
<b>DTIM Period</b>	Set the DTIM period of wireless radio. The default value is 3.
<b>Data Rate</b>	Set the wireless data transfer rate. The default is set to Auto.
<b>N Data Rate</b>	Set the data rate of 802.11n. The default is set to Auto.

<b>Channel Width</b>	Select wireless channel width (bandwidth used by wireless signals from the device) – the recommended value is 20/40/80MHz.
<b>Preamble Type</b>	Set the wireless radio preamble type. The default value is “Short Preamble”.
<b>CTS Protect</b>	Enabling this setting will reduce the chance of radio signal collisions between 802.11b and 802.11g wireless access points. It’s recommended to set this option to “Auto”.
<b>Tx Power</b>	Set the power output of the wireless radio. You may not require 100% output power. Setting a lower power output can enhance security since potentially malicious/unknown users in distant areas will not be able to access your signal.
<b>WMM</b>	WMM (Wi-Fi Multimedia) technology can improve the performance of certain network applications, such as audio/video streaming, network telephony (VoIP) and others. When WMM is enabled, the device will prioritize different kinds of data and give higher priority to applications which require instant responses for better performance.

### III-3-9-6. IGMP

IGMP is a communications protocol used to establish multicast group memberships. It allows for a more efficient use of resources and better performance for applications such as IPTV video streaming.

**IGMP**

IGMP Snooping

☒ Enable ☐ Disable

IGMP Proxy

☒ Enable ☐ Disable

Save Settings

<b>IGMP Snooping</b>	IGMP snooping monitors traffic between hosts and multicast routers to facilitate bandwidth conservation. Select enable or disable.
<b>IGMP Proxy</b>	IGMP proxy enables intelligent multicast forwarding based on IGMP snooping information. Select enable or disable.



***It is recommended to set “IGMP Snooping” and “IGMP Proxy” to “Enable”.***

### III-3-9-7. UPnP

Universal plug-and-play (UPnP) is a set of networking protocols which enables network devices to communicate and automatically establish working configurations with each other. Select “Enable” or “Disable”.

**UPnP**

UPnP Feature ☐ Enable ☒ Disable

Save Settings

### III-3-9-8. Fast NAT

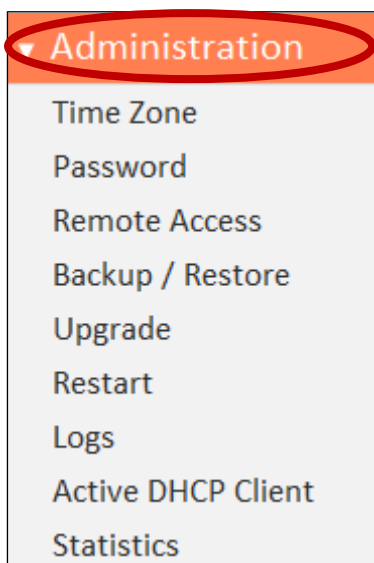
Enable or disable fast NAT (Network Address Translation) for better network performance.

**Fast NAT**

Fast NAT ☒ Enable ☐ Disable



### III-3-10. Administration



Various administrative functions can be accessed from the “Administration” menu.

#### III-3-10-1. Time Zone

**Time Zone**

Set Time Zone: (GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London ▼

Time Server Address: pool.ntp.org ▼

Daylight Savings: ☐ Enable Function

January ▼ 1 ▼ To January ▼ 1 ▼

**Save Settings**

<b>Set Time Zone</b>	Select the time zone of your country or region.
<b>Time Server Address</b>	The travel router supports NTP (Network Time Protocol) for automatic time and date setup. Input the host name of the IP server manually.
<b>Daylight Saving</b>	If your country/region uses daylight saving time, please check the “Enable Function” box, and select the start and end date.

### III-3-10-2. Password

You can change the password used to login to the browser-based configuration interface here. It is advised to do so for security purposes.



***Please make a note of the new password. In the event that you forget the password and are unable to login to the browser based configuration interface, see [II-7. Reset to factory default settings](#) for how to reset the device.***

**Password**

Current Password

New Password

Confirmed Password

Apply

<b>Current Password</b>	Enter your current password.
<b>New Password</b>	Enter your new password.
<b>Confirmed Password</b>	Confirm your new password.

III-3-10-3. Remote Access

Check “Enabled” to enable the remote access feature and then enter the appropriate values.

Remote Access

Host IP Address

0.0.0.0

Port

8080

Enabled

☐

Save Settings

Host IP Address	Specify the IP address which is allowed remote access.
Port	Specify a port number used for remote access.

### III-3-10-4. Backup/Restore

Backup / Restore

Backup Settings

Save

Restore Settings

Choose File

No file chosen

Upload

Restore to Factory Default

Reset

Debug Logs

Save

<b>Backup Settings</b>	Click “Save” to save the current settings on your computer as config.bin file.
<b>Restore Settings</b>	Click “Browse” to find a previously saved config.bin file and then click “Upload” to replace your current settings.
<b>Restore to Factory Default</b>	Click “Reset” to restore settings to the factory default. A pop-up window will appear and ask you to confirm and enter your log in details. Enter your username and password and click “Ok”. See below for more information.
<b>Debug Logs</b>	Click to save a log file of wireless information to your computer as a .txt file.

### III-3-10-5. Upgrade

The upgrade page displays the current firmware version and allows you to upgrade the system firmware to a more recent version. You can download the latest firmware from the Edimax website and upgrade manually using the **Choose File** button or you can click the **Check the latest version** button to check your version and automatically upgrade if a newer version is available. After the upgrade, the system will restart.



***Do not switch off or disconnect the device during a firmware upgrade, as this could damage the device. It is recommended that you use a wired Ethernet connection for a firmware upgrade and that you backup your existing firmware before upgrading.***

Upgrade

The current firmware version : 1.03

Check the latest version

Choose File No file chosen

Apply

### III-3-10-6. Restart

In the event that the router malfunctions or is not responding, then it is recommended that you restart the device.

Restart

In the event that the system stops responding correctly or stops functioning, you can perform a system restart. Your settings will not be changed. To restart, click on the APPLY button below. You will be asked to confirm your decision. The restart will be complete when the Internet LED light stops blinking.

Apply

### III-3-10-7. Logs

You can view the system log and security log here. Use the drop down menu in the top-right corner to select which log to view.

System Log

System Log ▼

Jan 1 00:00:08 (none) syslog.info syslogd started: BusyBox v1.11.1  
Mar 13 07:34:44 (none) user.debug syslog: Debu: buildifVc: Interface lo Addr: 127.0.0.1, Flags: 0x  
Mar 13 07:34:44 (none) user.debug syslog: Debu: buildifVc: Interface eth1 Addr: 192.168.10.143,  
Mar 13 07:34:44 (none) user.debug syslog: Debu: buildifVc: Interface br0 Addr: 192.168.2.1, Flag  
Mar 13 07:34:44 (none) user.notice syslog: Note: adding VIF, idx=0 FI flags=0x0 IP=192.168.2.1 b  
Mar 13 07:34:44 (none) user.notice syslog: Note: adding VIF, idx=1 FI flags=0x0 IP=192.168.10.14

Save Clear Refresh

## Security Log

```
[1970-01-01 00:00:22]: start Dynamic IP  
[1970-01-01 00:00:24]: [SNTP]: connect to TimeServer 59.124.196.84 ...  
[2014-03-13 07:34:33]: [SNTP]: connect success!  
[2014-03-13 07:34:33]: [SNTP]: set time to 2014-03-13 07:34:33  
[2014-03-13 07:34:34]: [Firewall]: WAN1 IP is 192.168.10.143  
[2014-03-13 07:34:34]: [Firewall]: WAN2 IP is 0.0.0.0  
[2014-03-13 07:34:34]: [Firewall]: WAN3 IP is 0.0.0.0  
[2014-03-13 07:34:34]: [Firewall]: setting firewall...  
[2014-03-13 07:34:36]: [SNTP]: connect to TimeServer 59.124.196.84 ...
```

Save

Clear

Refresh

<b>Save</b>	Click “Save” to save the log on your computer as .txt file.
<b>Clear</b>	Click “Clear” to clear/erase the existing log.
<b>Refresh</b>	Click “Refresh” to refresh the log and update any activity.

### III-3-10-8. Active DHCP Client

Information about active DHCP clients is shown in the table, which displays the DHCP server assigned IP address, MAC address and time expired for each computer or device on the local network.

Active DHCP Client		
IP Address	MAC Address	Time Expired (Sec)
192.168.2.100	bc:ee:7b:4b:fa:3a	forever
192.168.2.101	f8:a9:d0:0b:7d:a8	forever
192.168.2.102	80:1f:02:9c:8f:ff	forever
<div>Refresh</div>		

### III-3-10-9. Statistics

Displays sent and received packet network statistics.

Statistics		
2.4GHz Wireless	Sent Packets	36553
	Received Packets	27058
5GHz Wireless	Sent Packets	2924
	Received Packets	756
Ethernet LAN	Sent Packets	3225
	Received Packets	0
Ethernet WAN	Sent Packets	25951
	Received Packets	34267
<div>Refresh</div>		

## IV. Appendix

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### IV-1. Configuring your IP address

For first time access to the URL ***http://edimax.setup*** please ensure your computer is set to use a dynamic IP address. This means your computer can obtain an IP address automatically from a DHCP server. You can check if your computer is set to use a dynamic IP address by following [IV-1-1. How to check that your computer uses a dynamic IP address.](#)

**Static IP users** can also temporarily modify your computer's IP address to be in the same IP address subnet e.g. **192.168.2.x (x = 3 – 254)** as the BR-6478 AC V2 in order to access ***http://edimax.setup***.



***The BR-6478 AC V2's default IP address is 192.168.2.1.***

The procedure for modifying your IP address varies across different operating systems; please follow the guide appropriate for your operating system in [IV-1-2. How to modify the IP address of your computer.](#)



***Static IP users please make a note of your static IP before you change it.***

You can assign a new IP address to the device which is within the subnet of your network during setup or using the browser based configuration interface (refer to [III-3-4. LAN](#)). Then you can access the URL ***http://edimax.setup*** in future without modifying your IP address.



***Please remember to change your IP address back to its original value after the device is properly configured.***

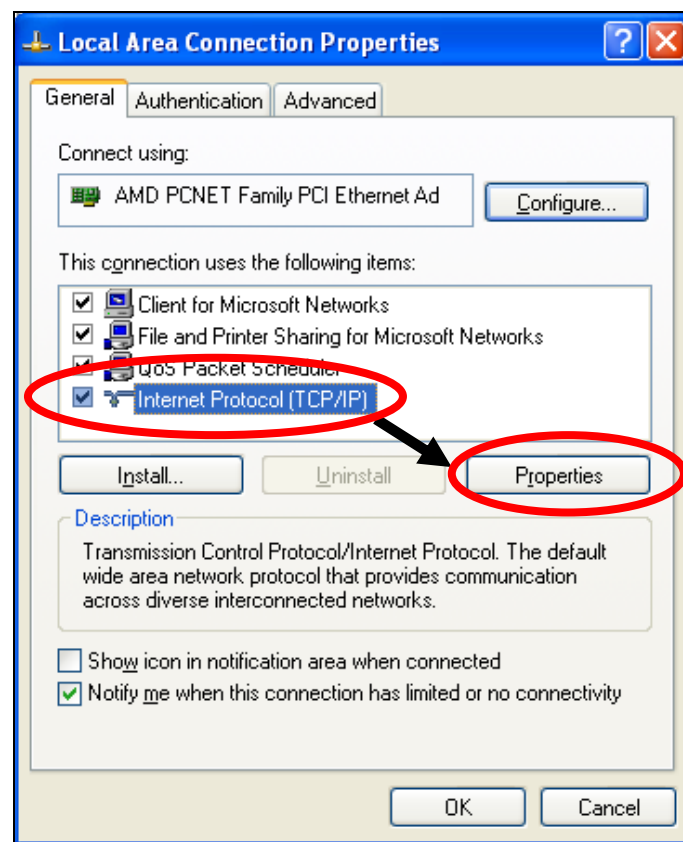


## IV-1-1. How to check that your computer uses a dynamic IP address

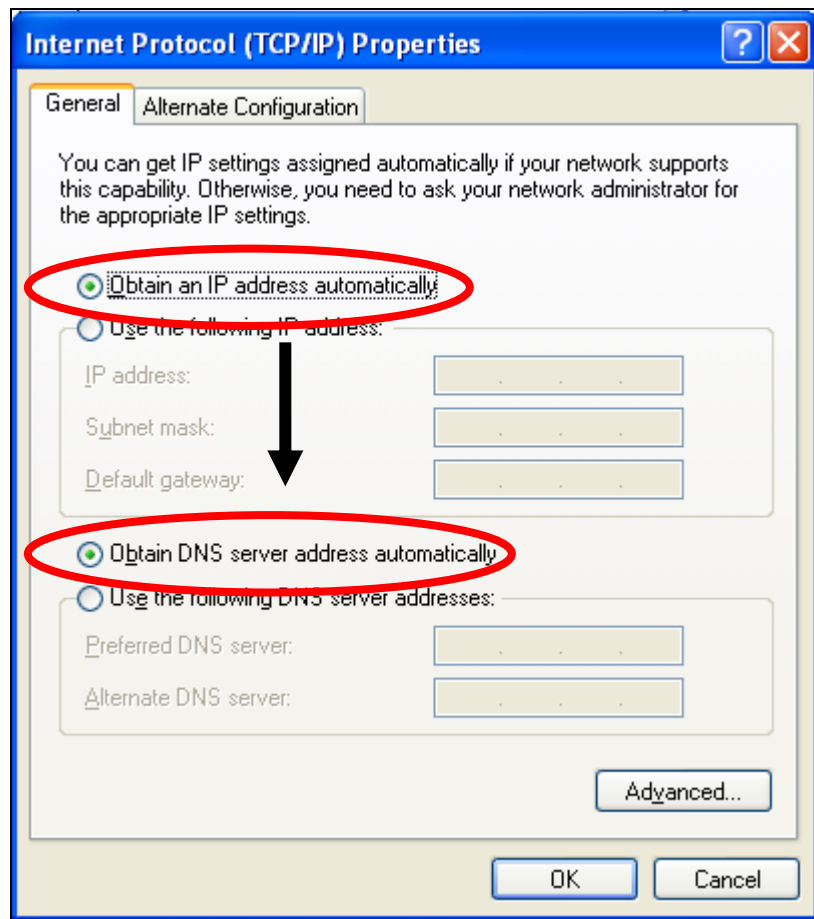
Please follow the instructions appropriate for your operating system.

### IV-1-1-1. Windows XP

1. Click the “Start” button (it should be located in the lower-left corner of your computer), then click “Control Panel”. Double-click the “Network and Internet Connections” icon, click “Network Connections”, and then double-click “Local Area Connection”. The “Local Area Connection Status” window will then appear, click “Properties”.

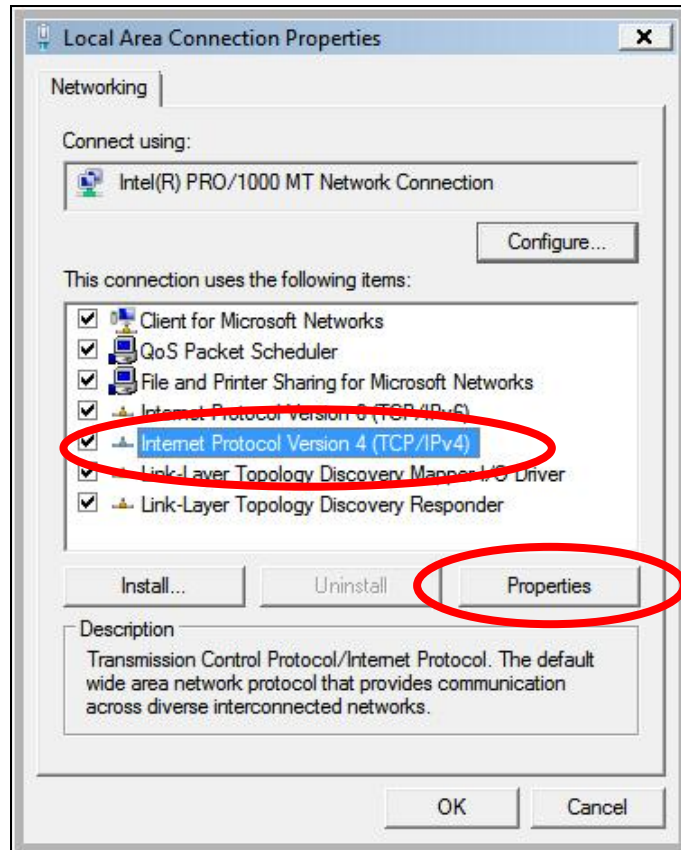


2. “Obtain an IP address automatically” and “Obtain DNS server address automatically” should be selected.

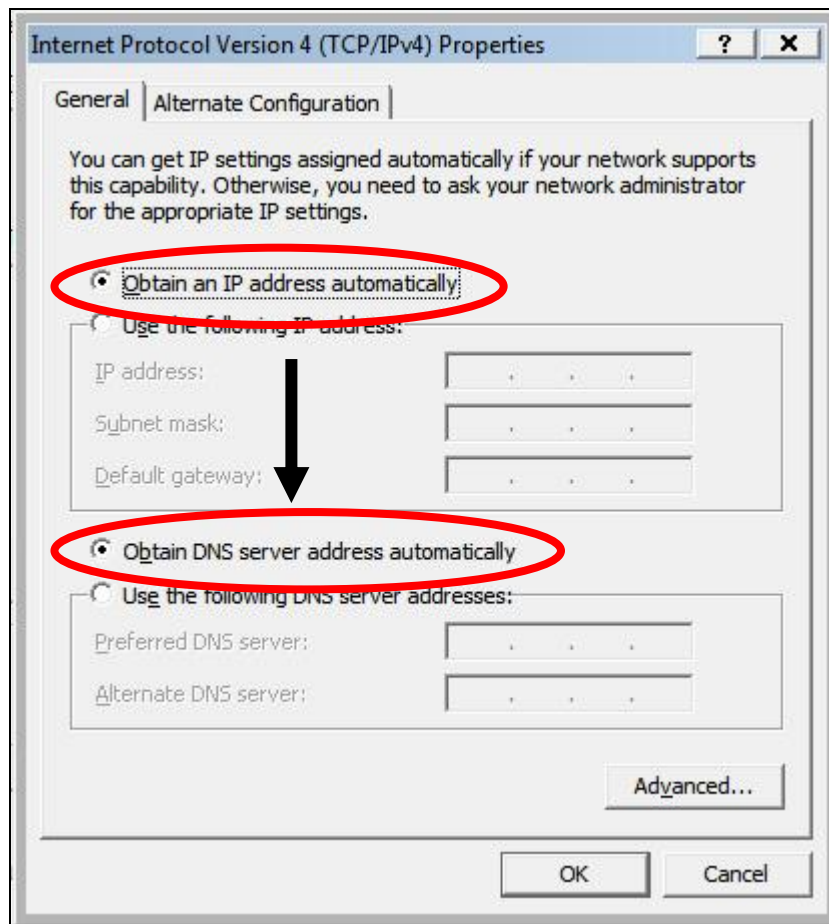


## IV-1-1-2. Windows Vista

1. Click the “Start” button (it should be located in the lower-left corner of your computer), then click “Control Panel”. Click “View Network Status and Tasks”, then click “Manage Network Connections”. Right-click “Local Area Network”, then select “Properties”. The “Local Area Connection Properties” window will then appear, select “Internet Protocol Version 4 (TCP / IPv4)”, and then click “Properties”.

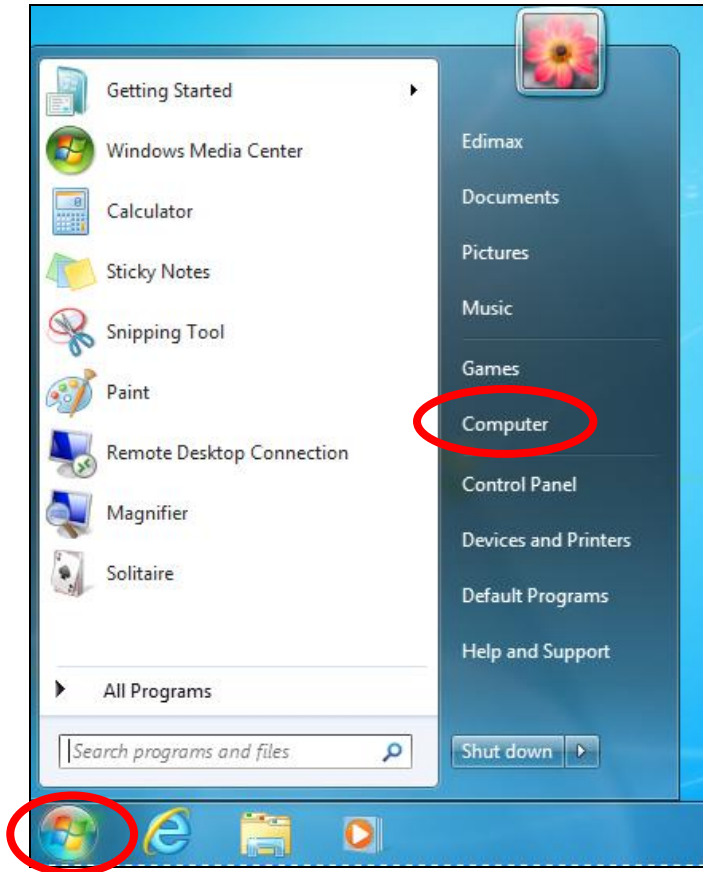


2. Select “Obtain an IP address automatically” and “Obtain DNS server address automatically” should be selected.

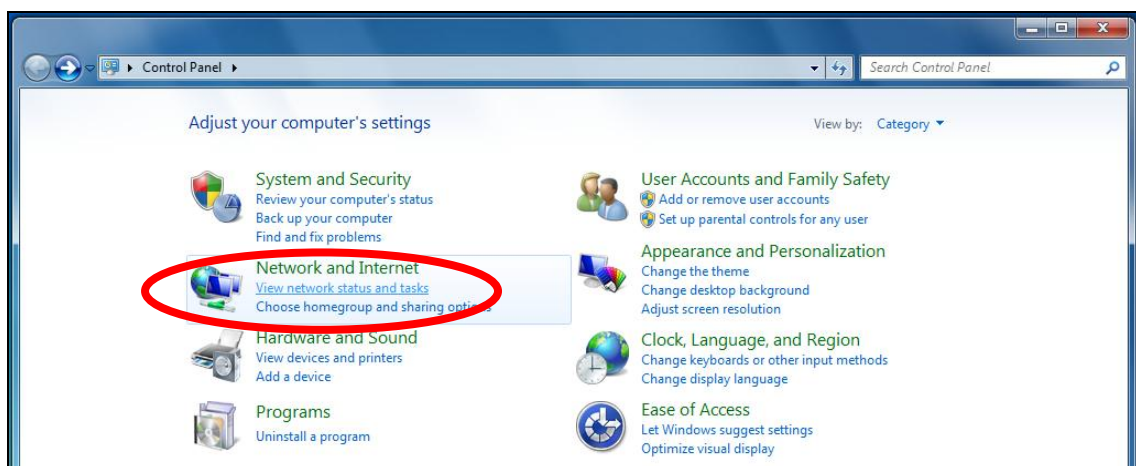


### IV-1-1-3. Windows 7

1. Click the “Start” button (it should be located in the lower-left corner of your computer), then click “Control Panel”.

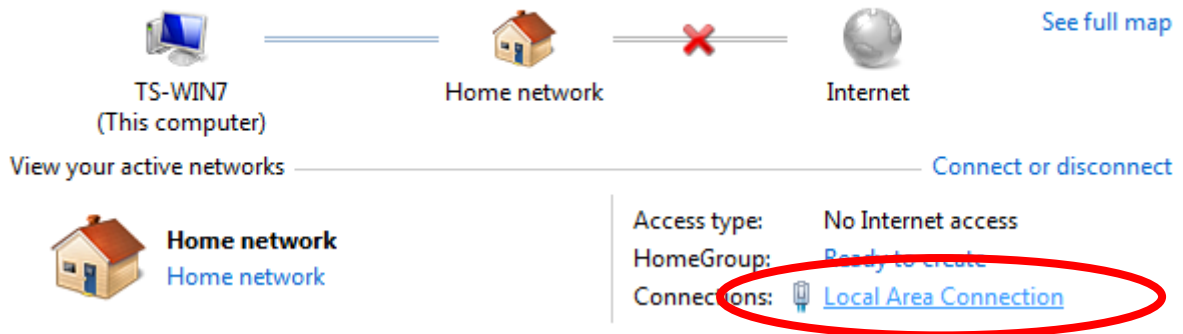


2. Under “Network and Internet” click “View network status and tasks”.

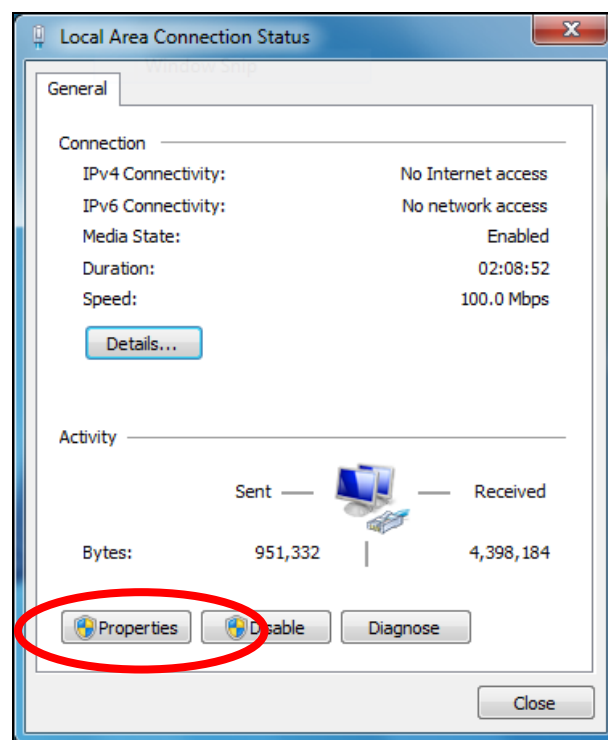


3. Click “Local Area Connection”.

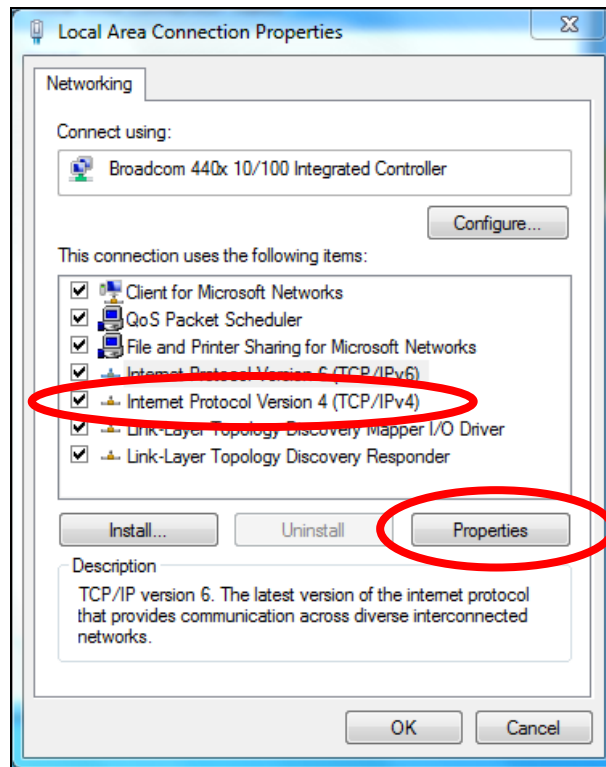
View your basic network information and set up connections



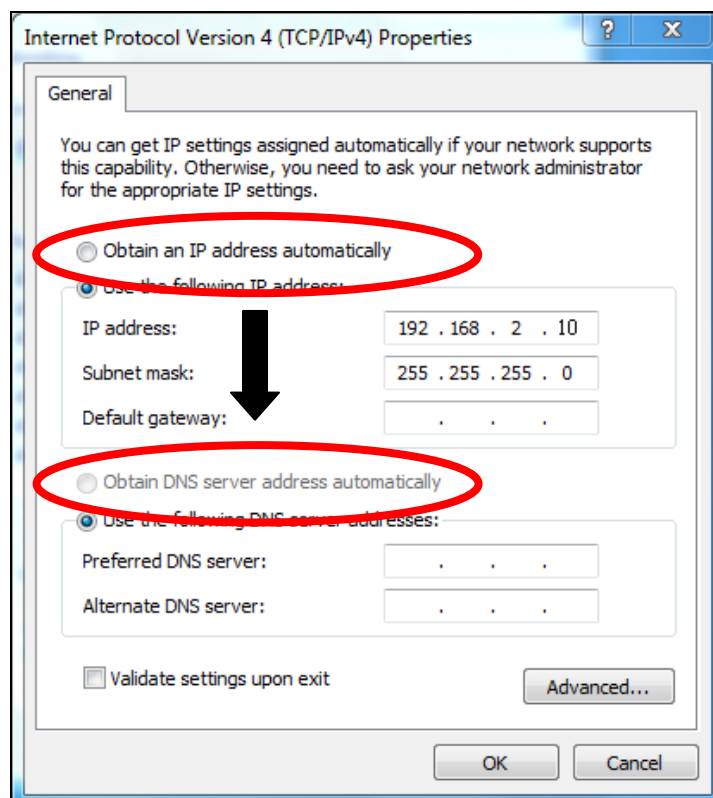
4. Click “Properties”.



5. Select “Internet Protocol Version 4 (TCP/IPv4)” and then click “Properties”.

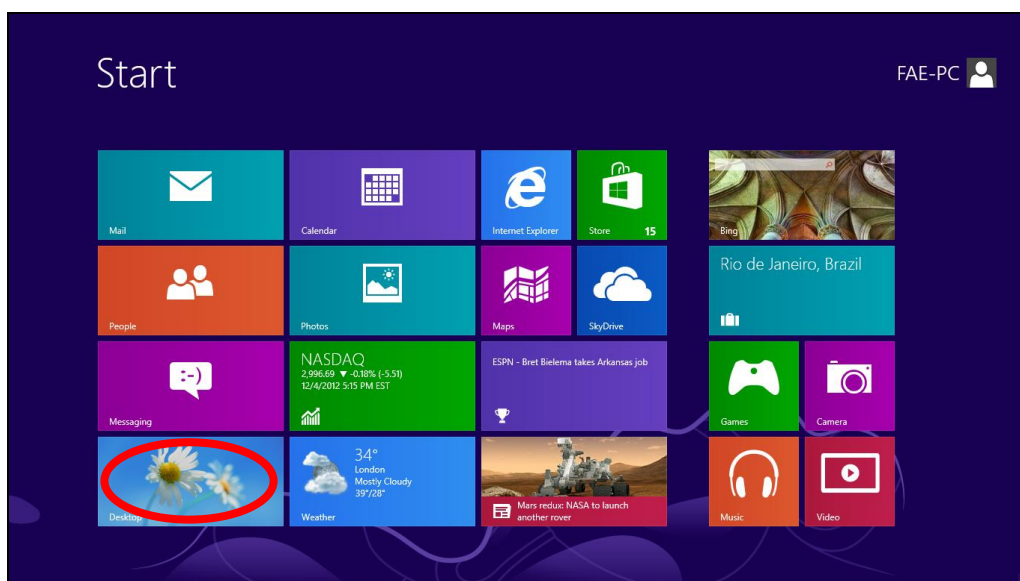


6. Select “Obtain an IP address automatically” and “Obtain DNS server address automatically” should be selected.

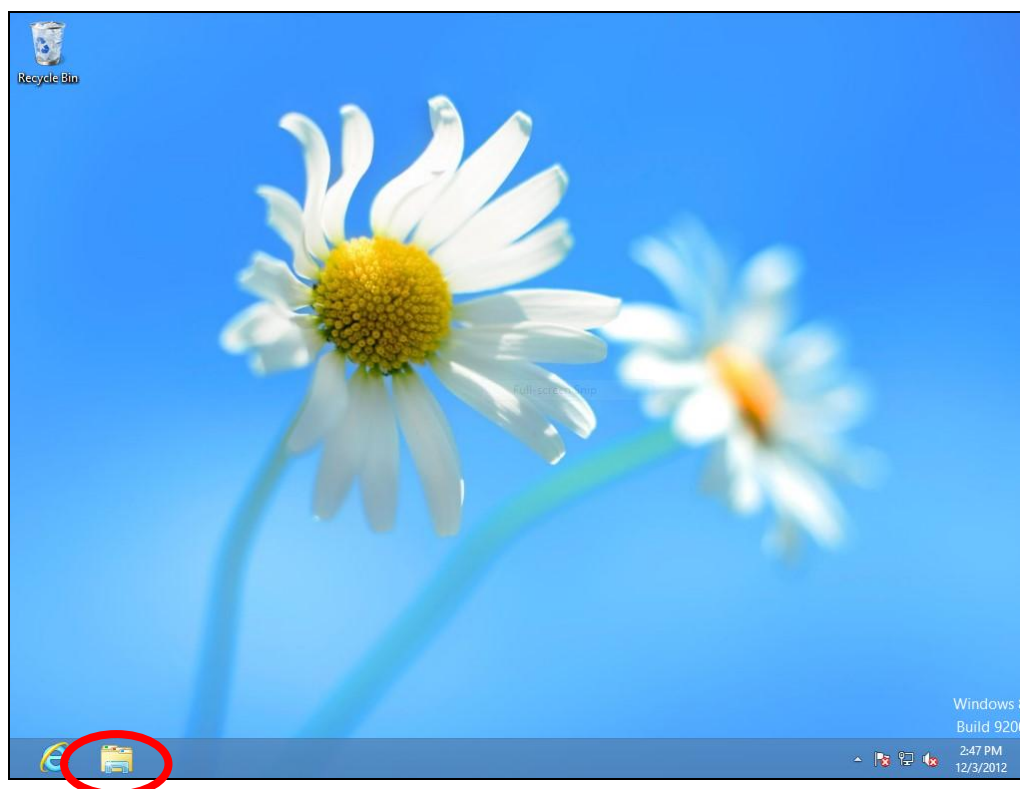


#### IV-1-1-4. Windows 8

1. From the Windows 8 Start screen, you need to switch to desktop mode. Move your cursor to the bottom left of the screen and click.

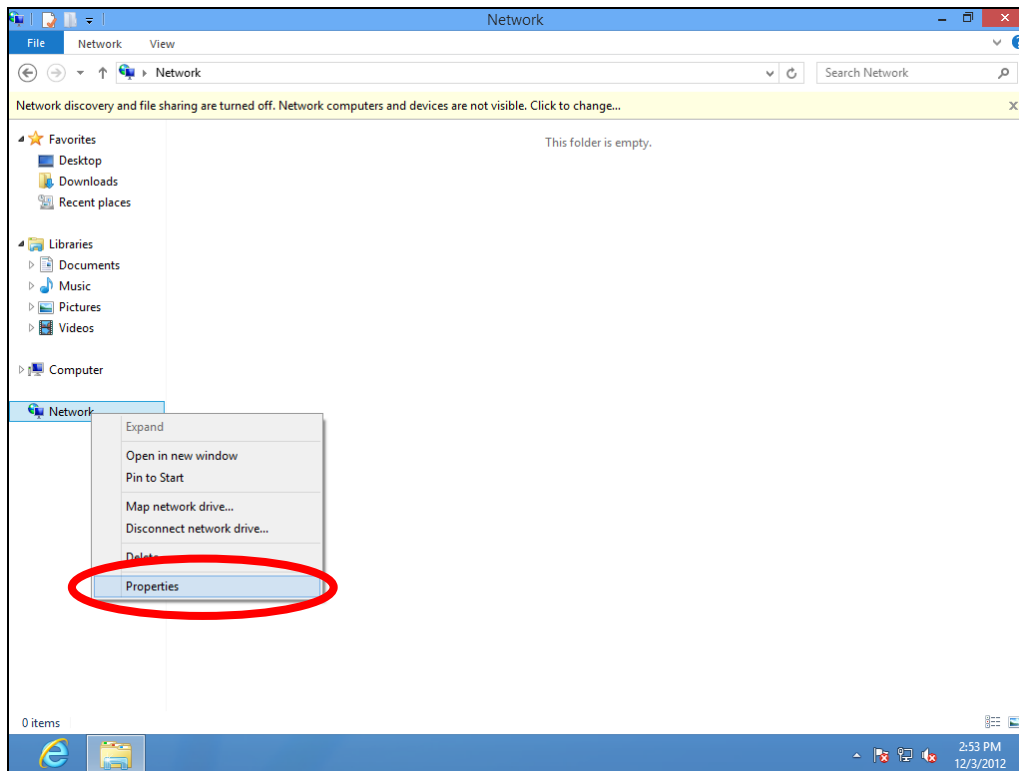


2. In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.

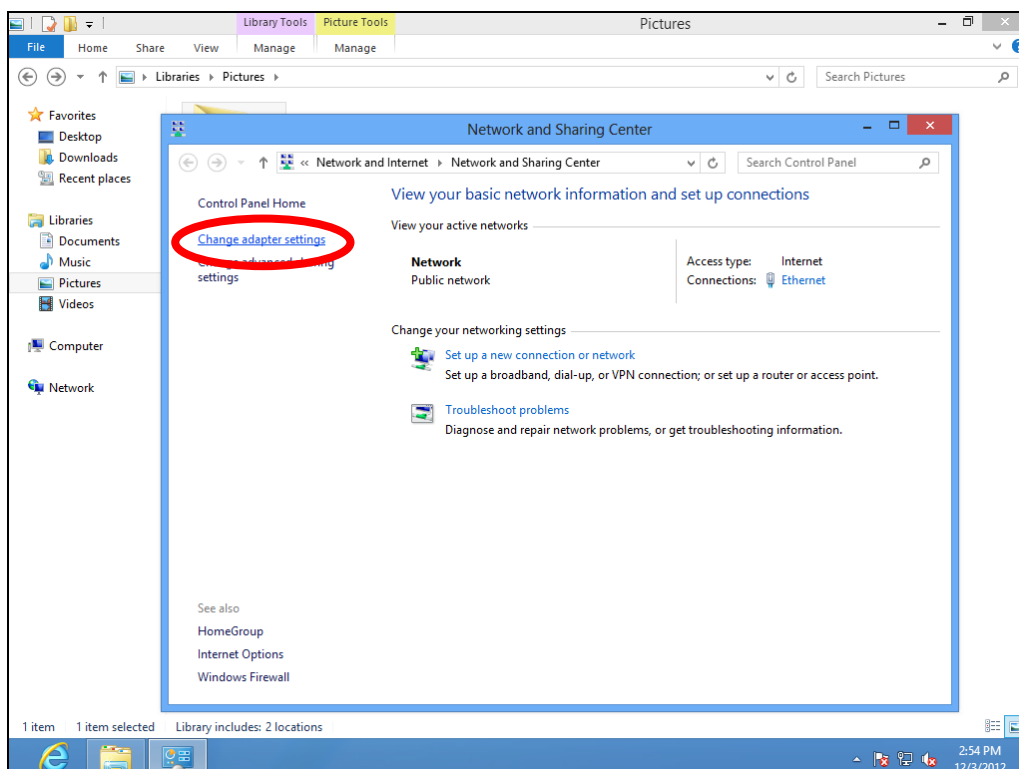


3. Right click "Network" and then select "Properties".

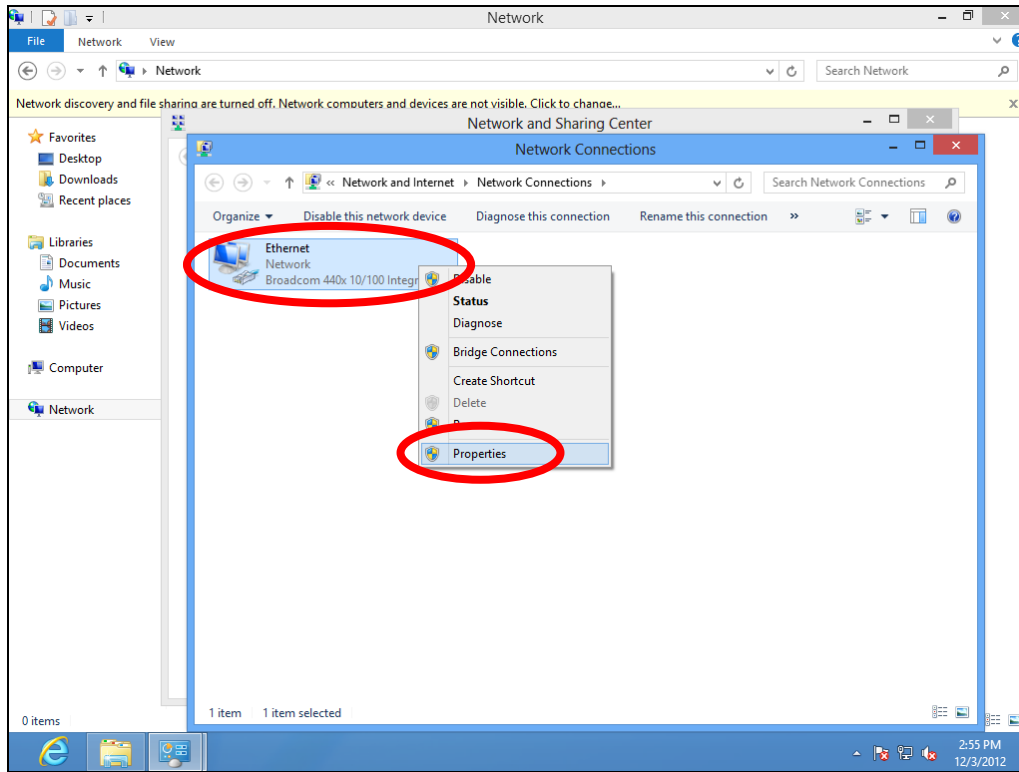




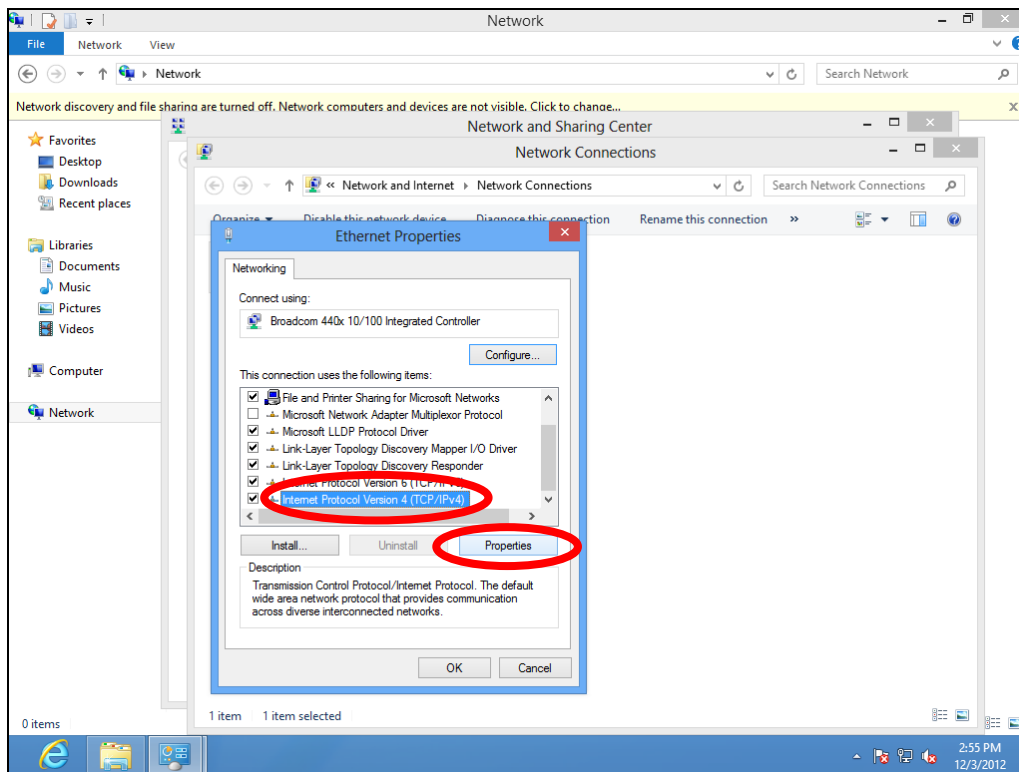
4. In the window that opens, select “Change adapter settings” from the left side.



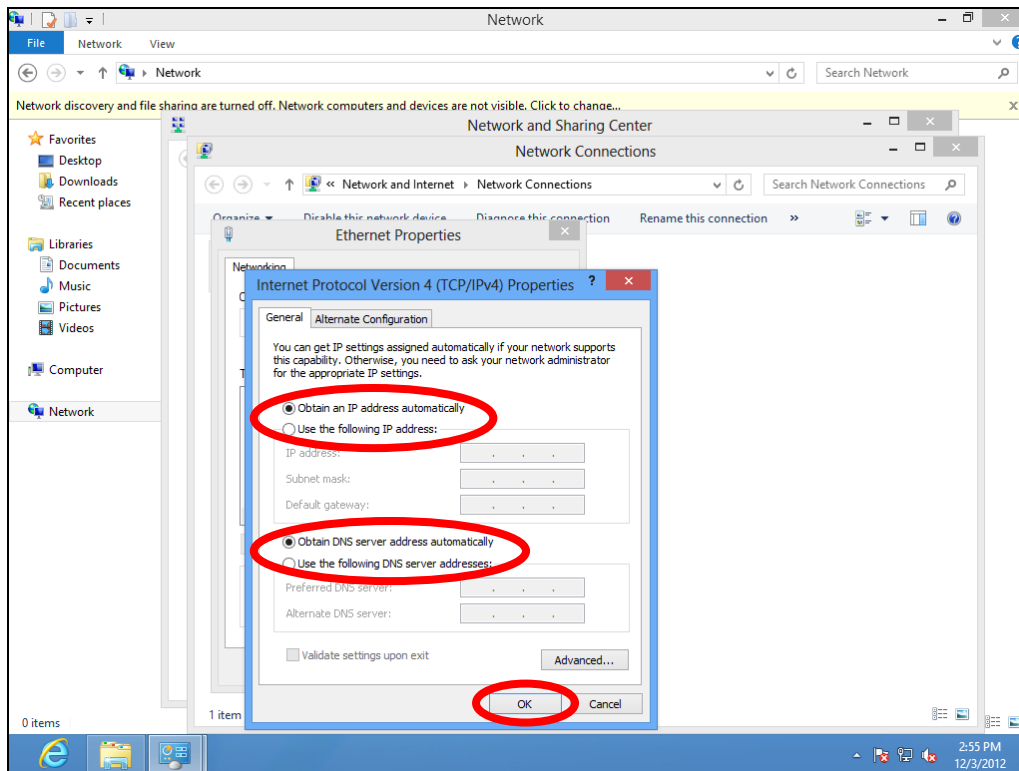
5. Choose your connection and right click, then select “Properties”.



**6.** Select “Internet Protocol Version 4 (TCP/IPv4) and then click “Properties”.

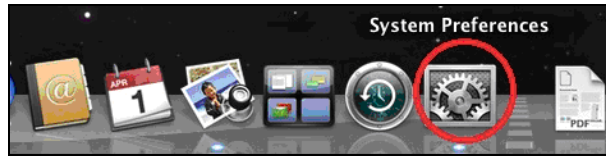


**7.** Select “Obtain an IP address automatically” and “Obtain DNS server address automatically” should be selected.



#### IV-1-1-5. Mac OS

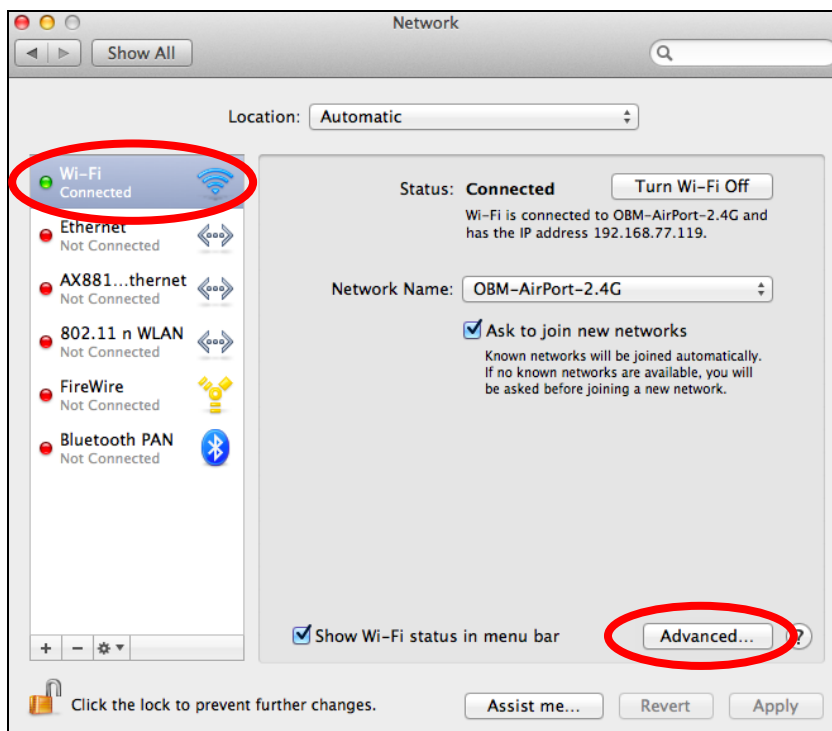
1. Have your Macintosh computer operate as usual, and click on “System Preferences”.



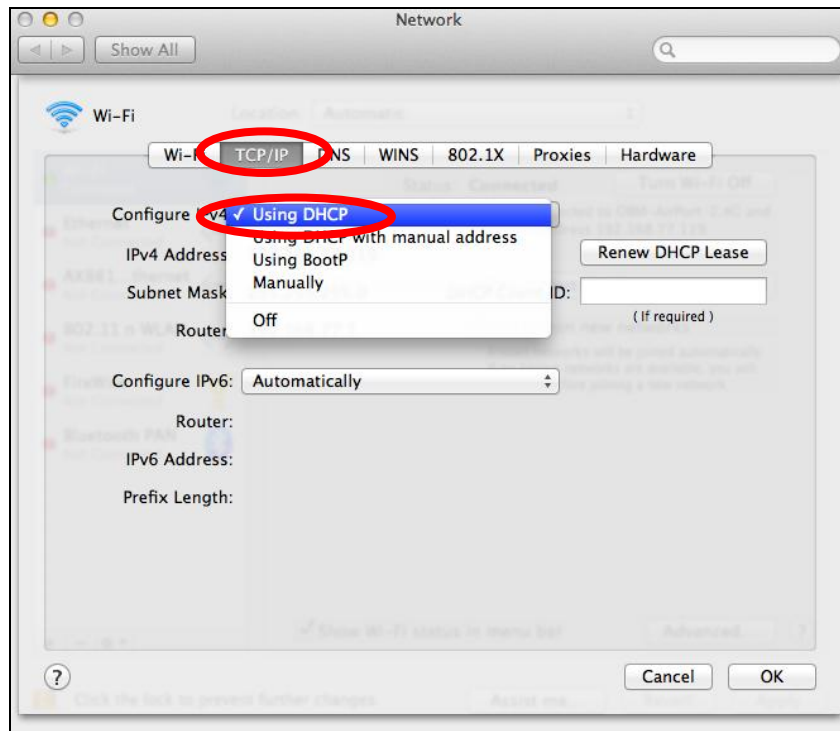
2. In System Preferences, click on “Network”.



3. Click on “Wi-Fi” in the left panel and then click “Advanced” in the lower right corner.



4. Select “TCP/IP” from the top menu and “Using DHCP” in the drop down menu labeled “Configure IPv4” should be selected.



## IV-1-2. How to modify the IP address of your computer

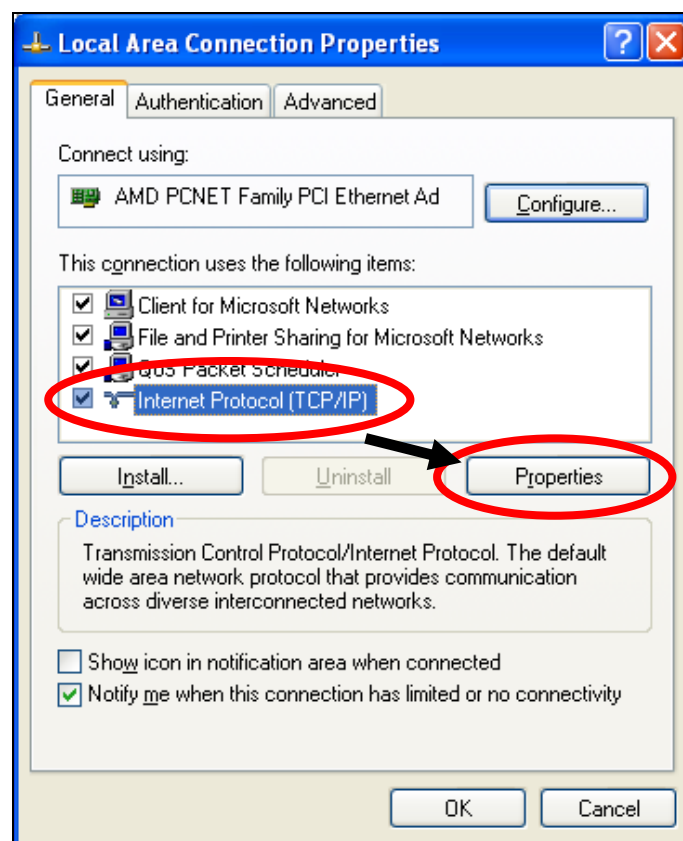
Please follow the instructions appropriate for your operating system. In the following examples we use the IP address **192.168.2.10** though you can use any IP address in the range **192.168.2.x (x = 3 – 254)** in order to access iQ Setup/browser based configuration interface.



***Please make a note of your static IP before you change it.***

### IV-1-2-1. Windows XP

1. Click the “Start” button (it should be located in the lower-left corner of your computer), then click “Control Panel”. Double-click the “Network and Internet Connections” icon, click “Network Connections”, and then double-click “Local Area Connection”. The “Local Area Connection Status” window will then appear, click “Properties”.



2. Select “Use the following IP address” and “Use the following DNS server addresses”, then input the following values:



***Your existing static IP address will be displayed in the “IP address” field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.***

**IP address:** 192.168.2.10

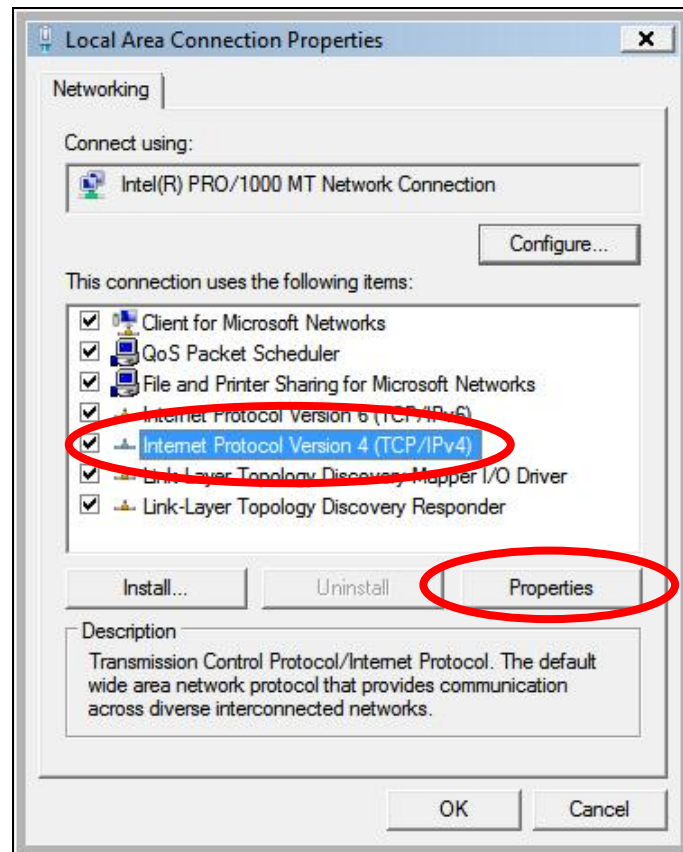
**Subnet Mask:** 255.255.255.0

**Preferred DNS Server:** 192.168.2.1


Click 'OK' when finished.

## IV-1-2-2. Windows Vista

1. Click the “Start” button (it should be located in the lower-left corner of your computer), then click “Control Panel”. Click “View Network Status and Tasks”, then click “Manage Network Connections”. Right-click “Local Area Network”, then select “Properties”. The “Local Area Connection Properties” window will then appear, select “Internet Protocol Version 4 (TCP / IPv4)”, and then click “Properties”.



2. Select “Use the following IP address” and “Use the following DNS server addresses”, then input the following values:

 ***Your existing static IP address will be displayed in the “IP address” field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.***

**IP address:** 192.168.2.10

**Subnet Mask:** 255.255.255.0

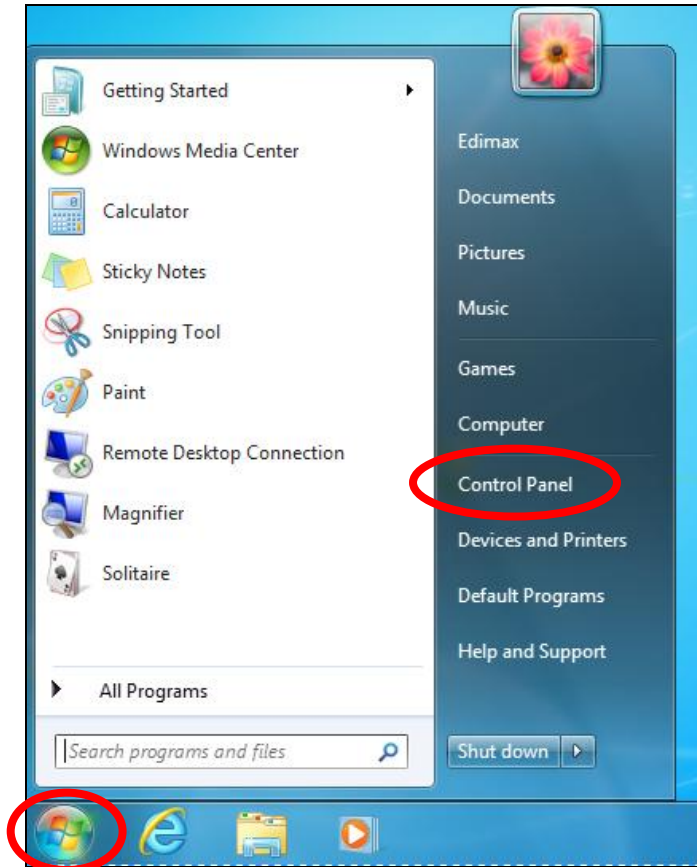
**Preferred DNS Server:** 192.168.2.1

Click ‘OK’ when finished.

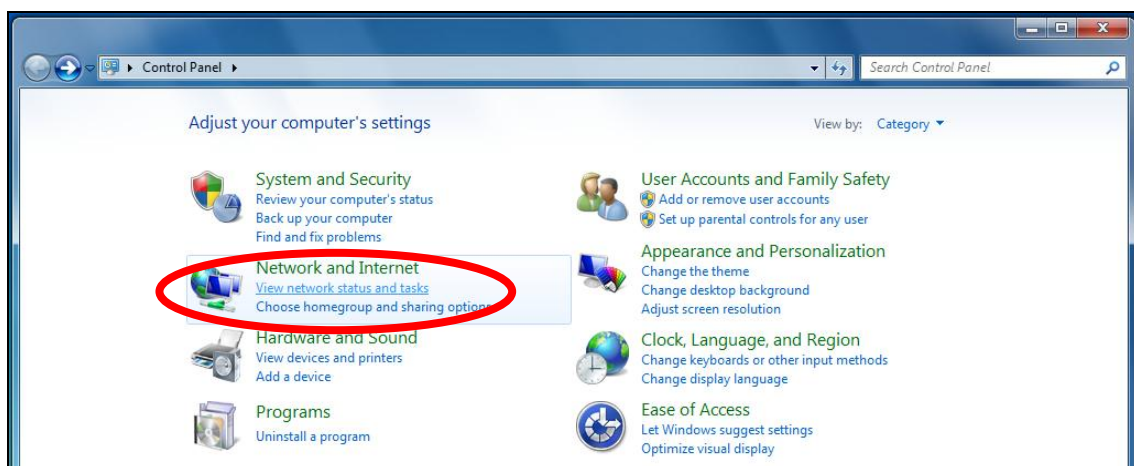


### IV-1-2-3. Windows 7

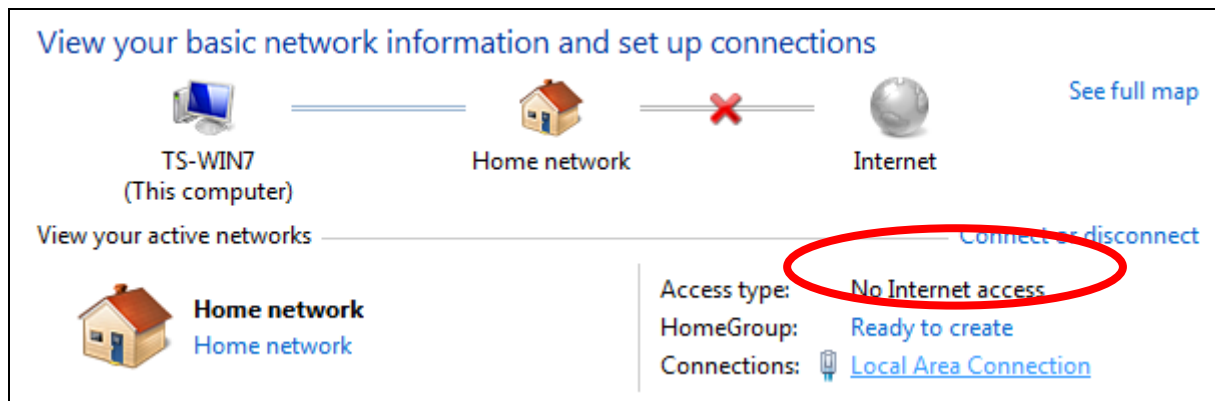
1. Click the “Start” button (it should be located in the lower-left corner of your computer), then click “Control Panel”.



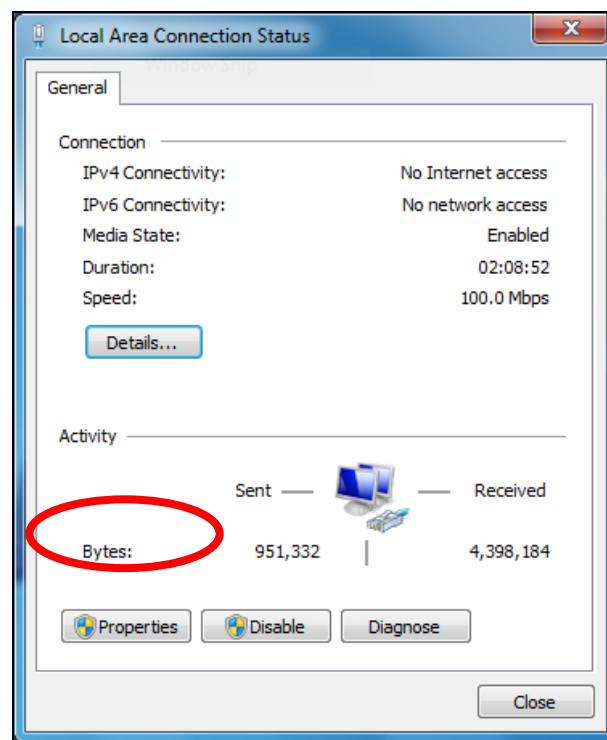
2. Under “Network and Internet” click “View network status and tasks”.



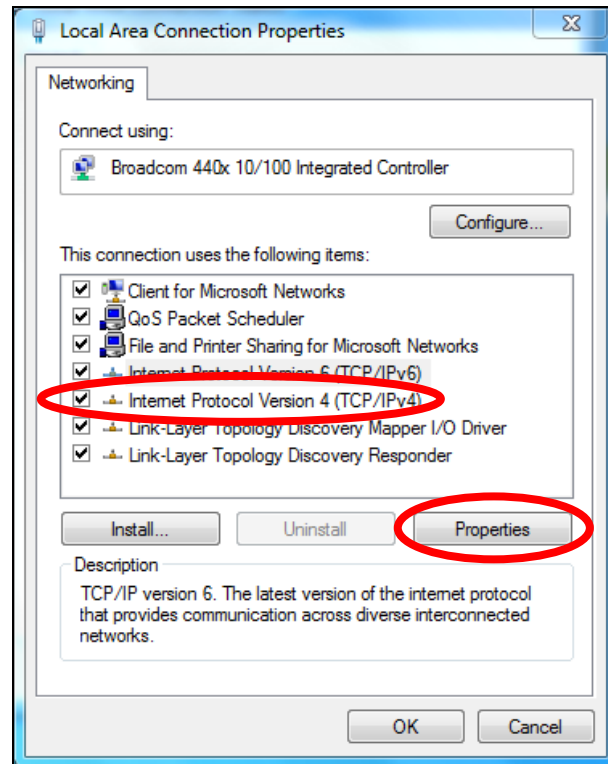
### 3. Click "Local Area Connection".



### 4. Click "Properties".



5. Select “Internet Protocol Version 4 (TCP/IPv4)” and then click “Properties”.



6. Select “Use the following IP address” and “Use the following DNS server addresses”, then input the following values:



***Your existing static IP address will be displayed in the “IP address” field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.***

**IP address:** 192.168.2.10

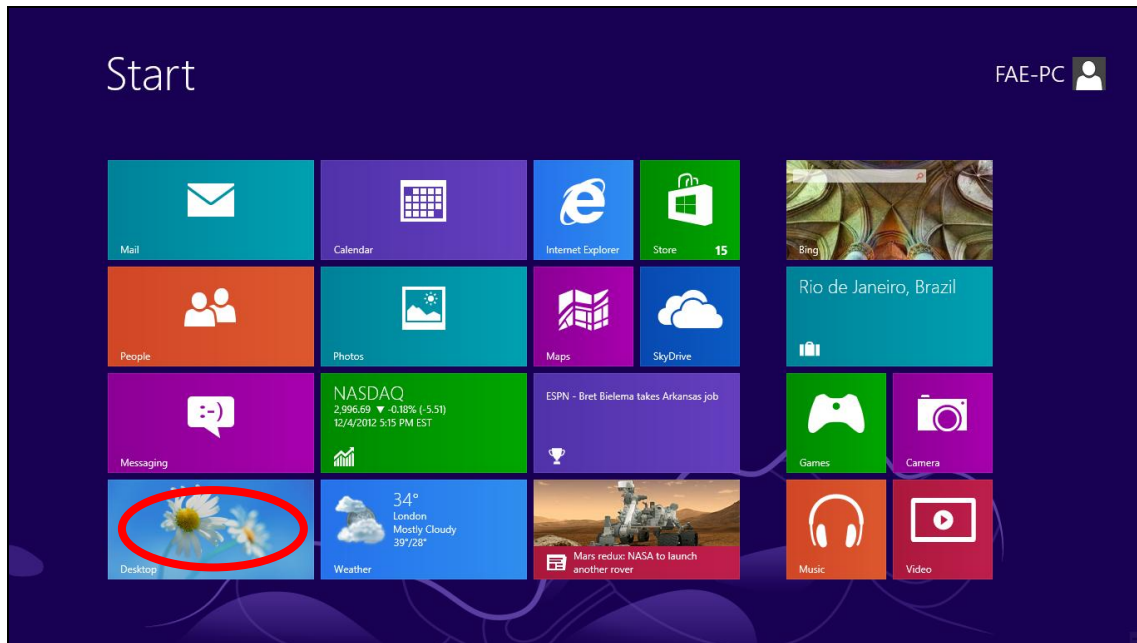
**Subnet Mask:** 255.255.255.0

**Preferred DNS Server:** 192.168.2.1

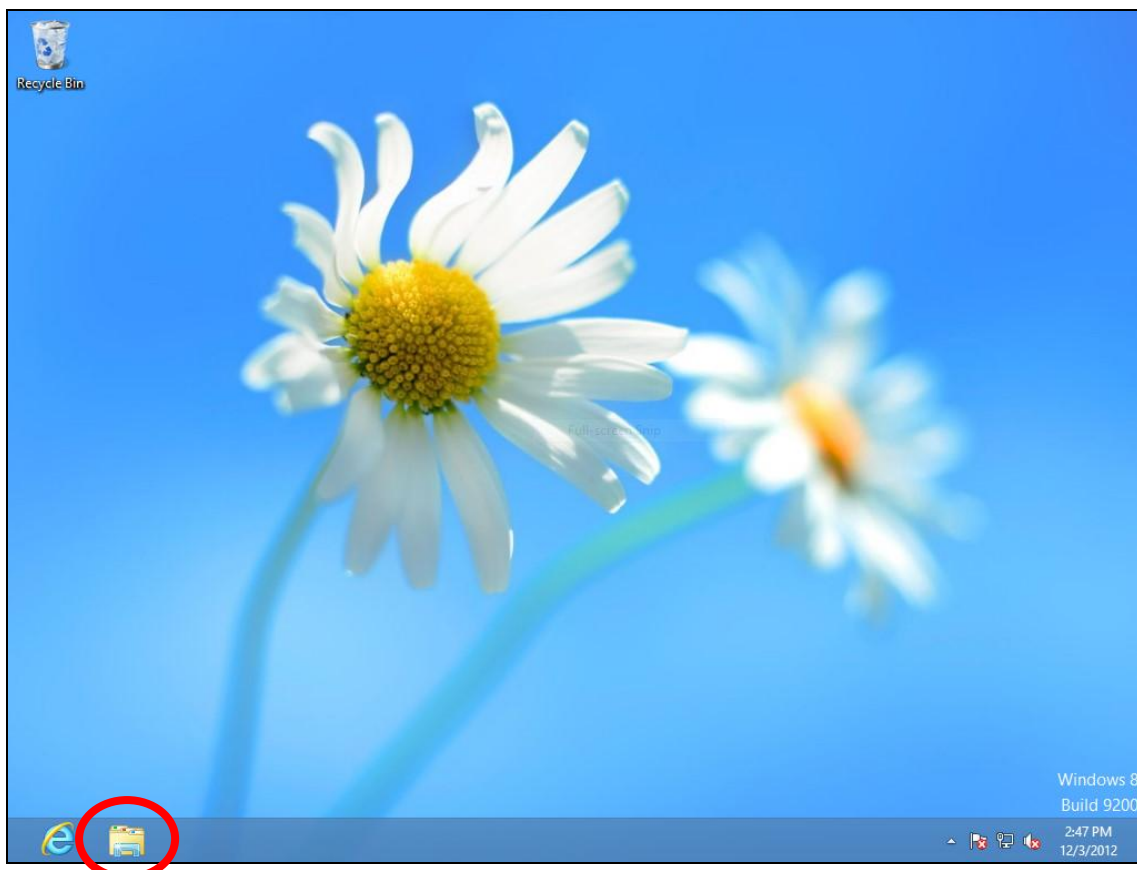
Click ‘OK’ when finished.

#### IV-1-2-4. Windows 8

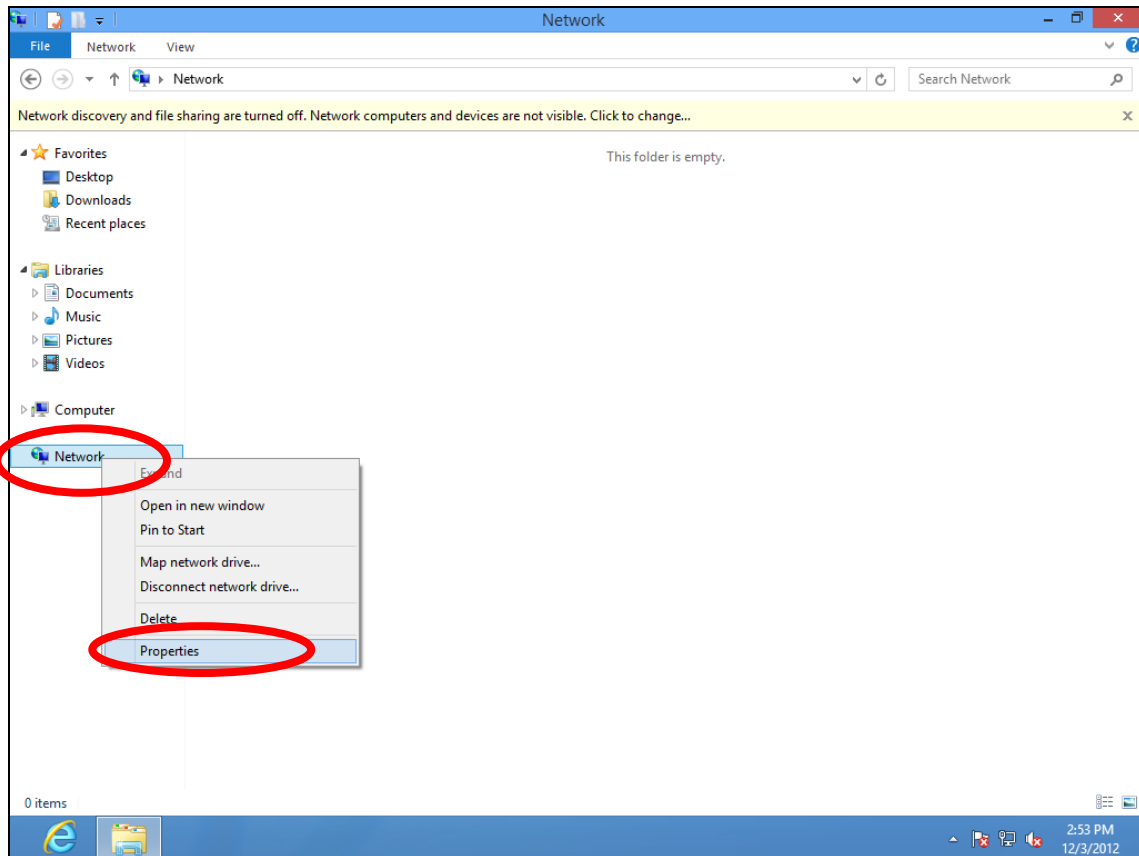
1. From the Windows 8 Start screen, you need to switch to desktop mode. Move your cursor to the bottom left of the screen and click.



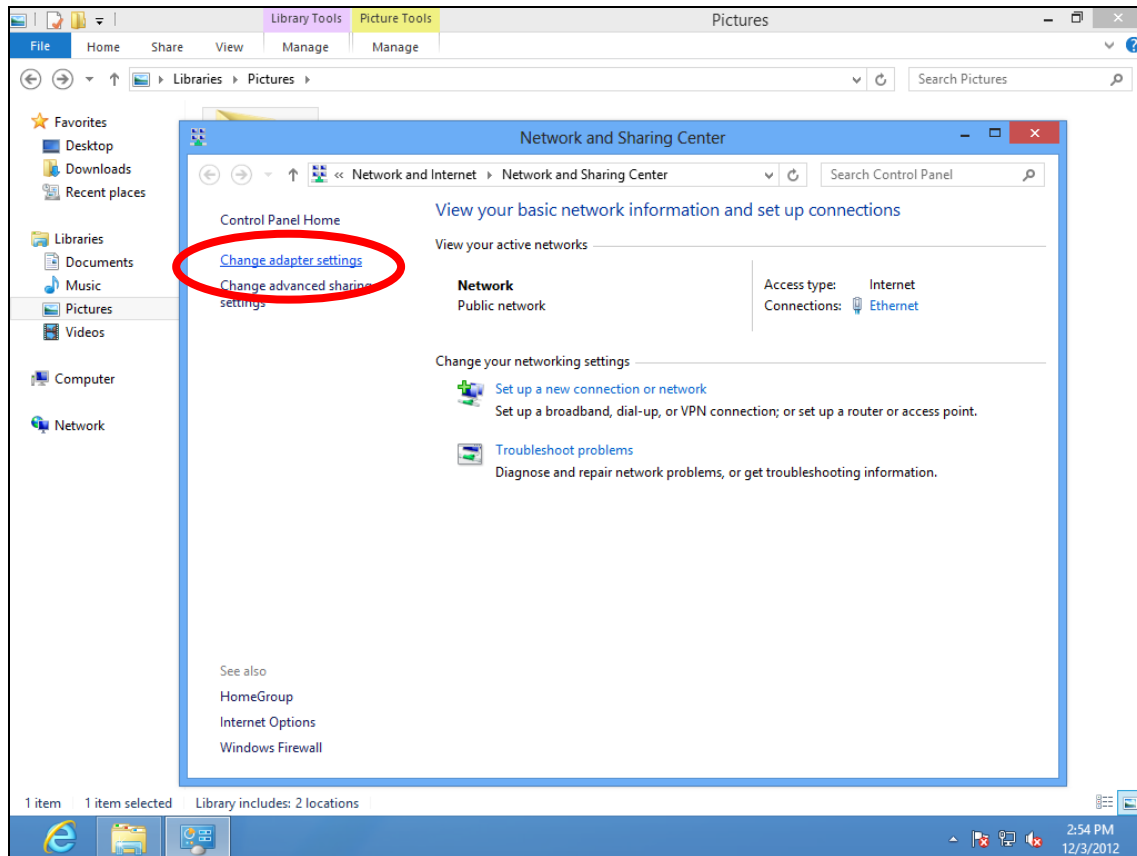
2. In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.



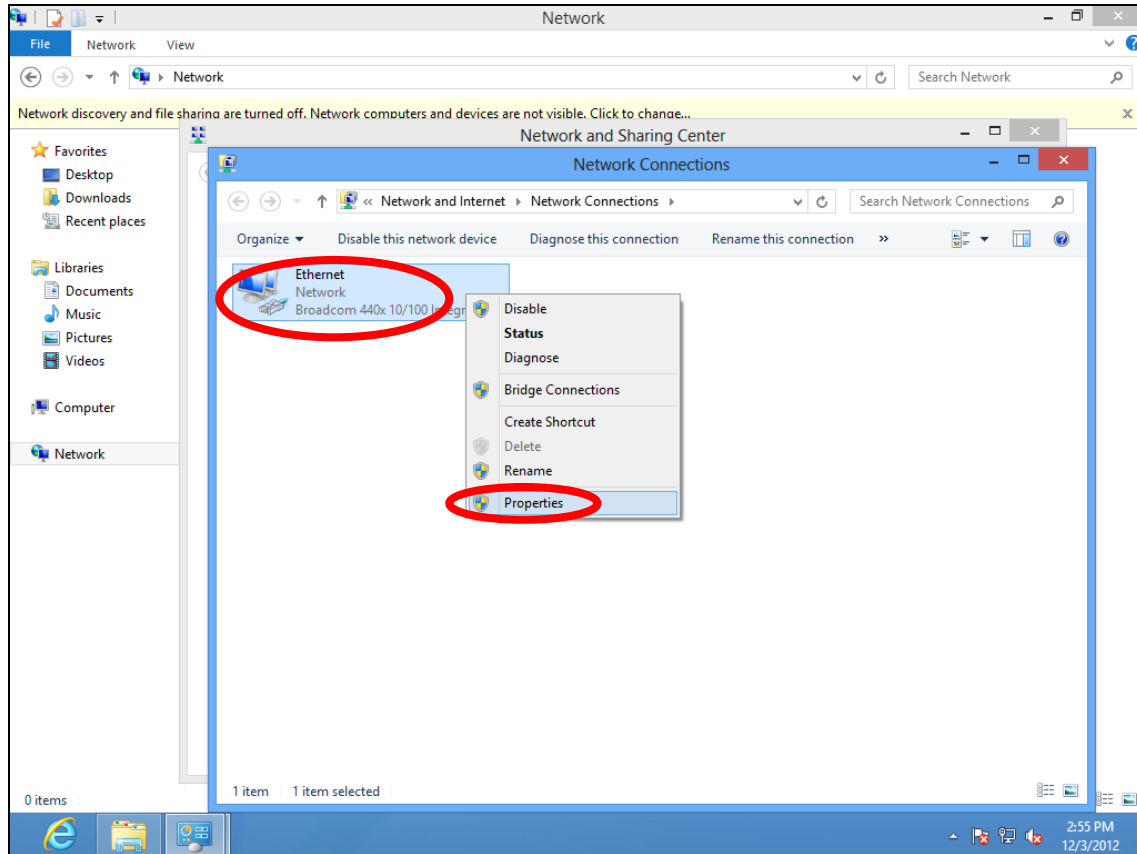
**3.** Right click “Network” and then select “Properties”.



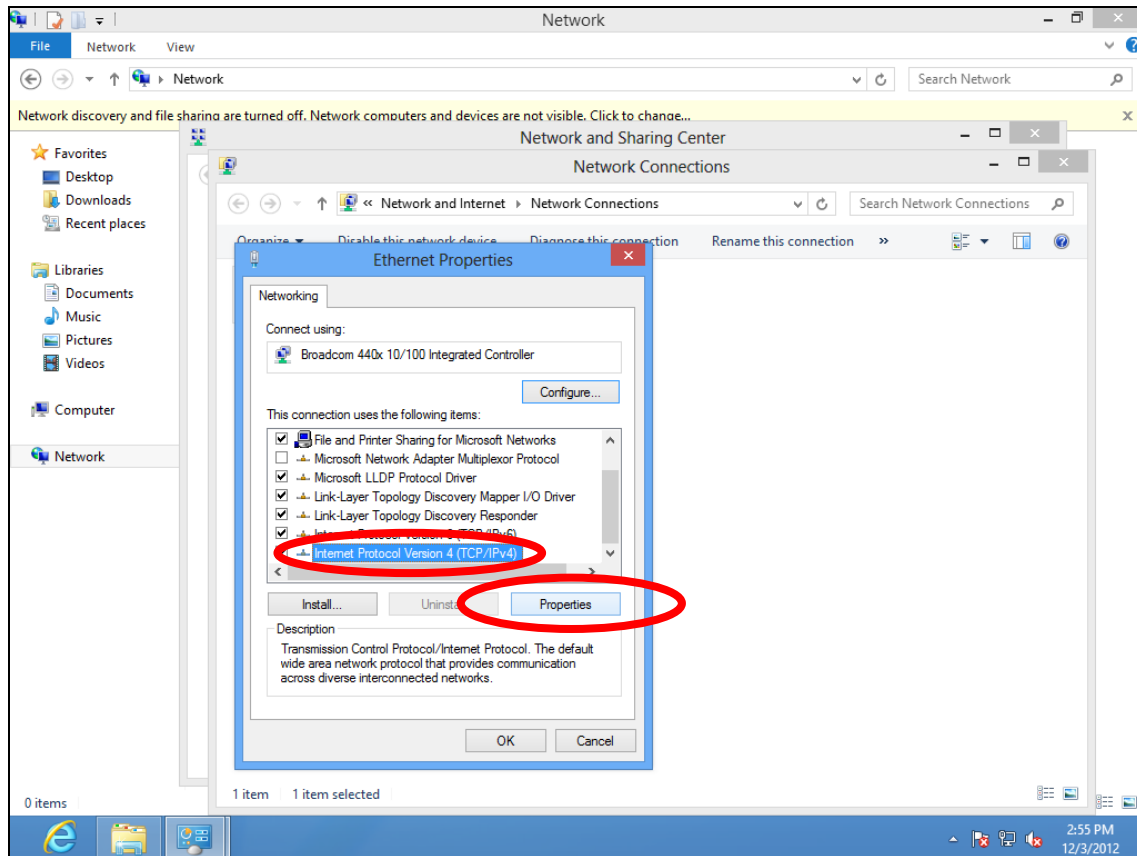
**4.** In the window that opens, select “Change adapter settings” from the left side.



5. Choose your connection and right click, then select “Properties”.



6. Select “Internet Protocol Version 4 (TCP/IPv4)” and then click “Properties”.



7. Select “Use the following IP address” and “Use the following DNS server addresses”, then input the following values:



***Your existing static IP address will be displayed in the “IP address” field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.***

**IP address:** 192.168.2.10

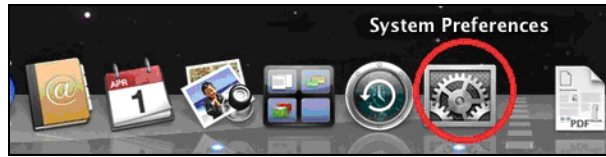
**Subnet Mask:** 255.255.255.0

**Preferred DNS Server:** 192.168.2.1

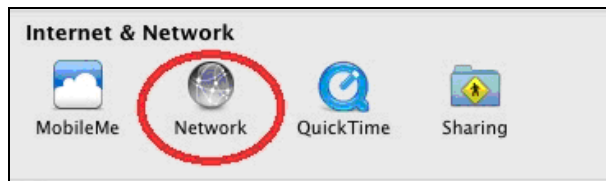
Click ‘OK’ when finished.

#### IV-1-2-5. Mac

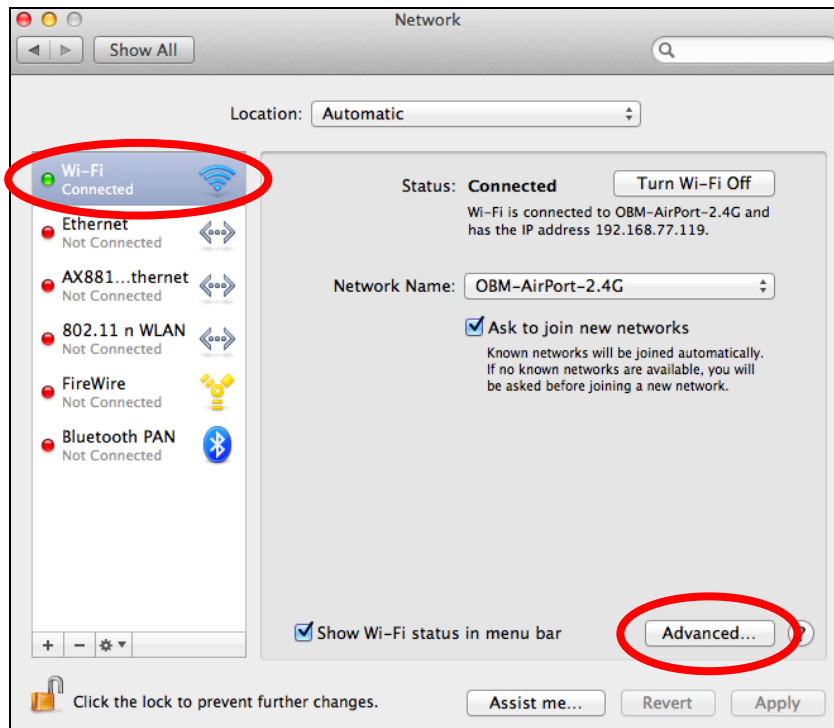
1. Have your Macintosh computer operate as usual, and click on “System Preferences”



2. In System Preferences, click on “Network”.

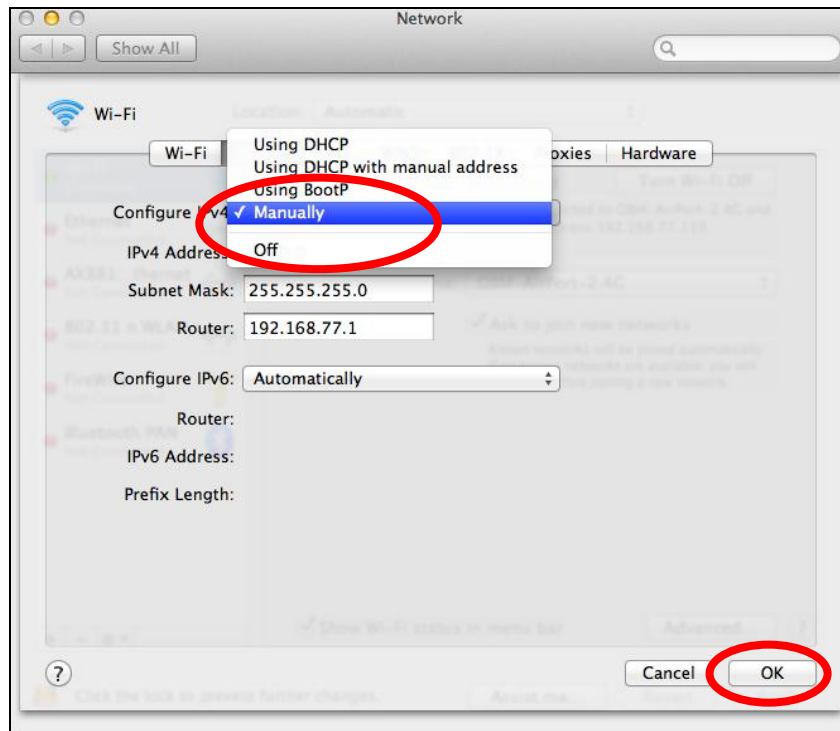


3. Click on “Wi-Fi” in the left panel and then click “Advanced” in the lower right corner.



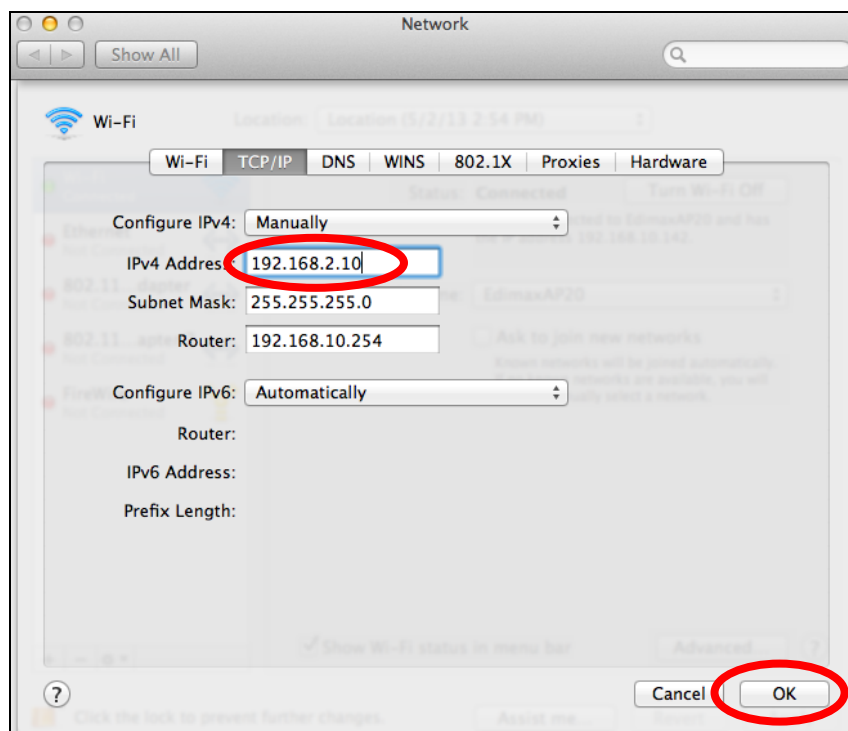
4. Select “TCP/IP” from the top menu and select “Manually” from the drop down menu labeled “Configure IPv4”, then click “OK”.



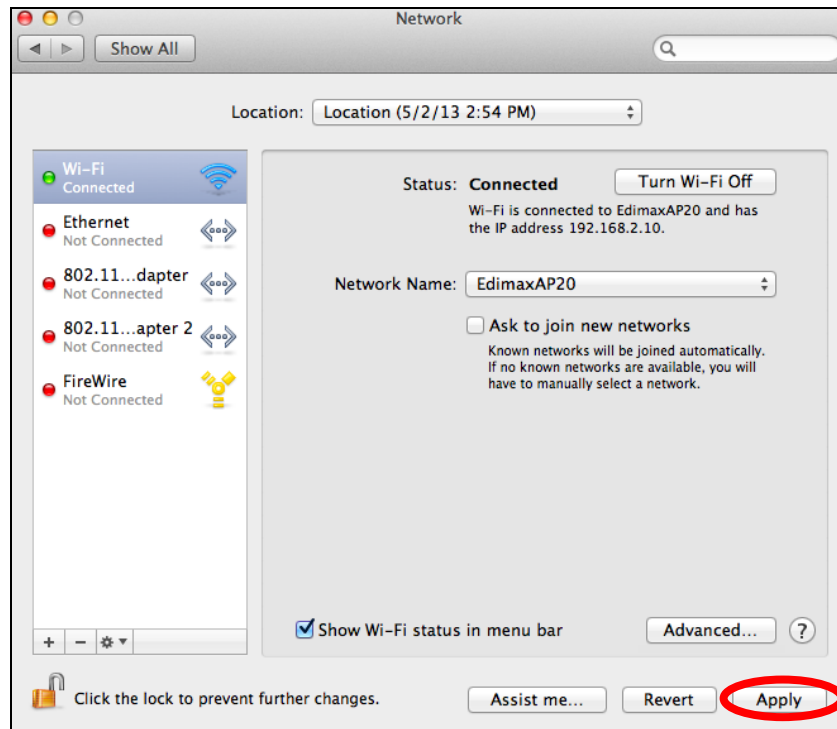


***Your existing static IP address will be displayed in the “IP address” field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.***

- 5.** In the “IPv4 Address” and “Subnet Mask” field enter IP address 192.168.2.10 and subnet mask 255.255.255.0. Click on “OK”.



## 6. Click “Apply” to save the changes.



### IV-1-3. How to Find Your Network Security Key

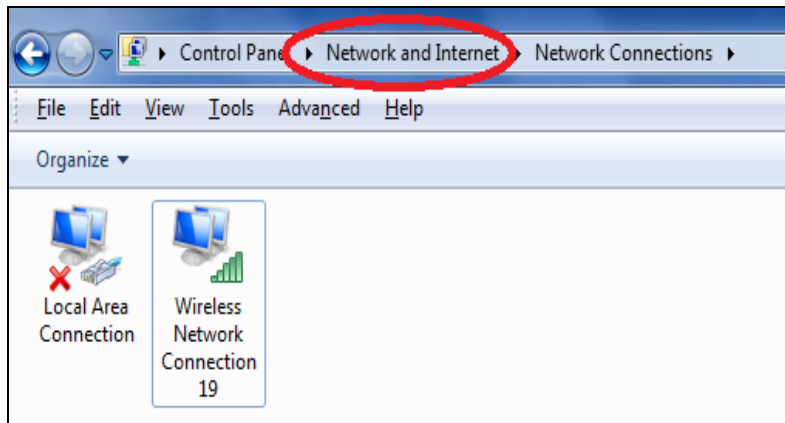
To find your network security key, please follow the instructions appropriate for your operating system.



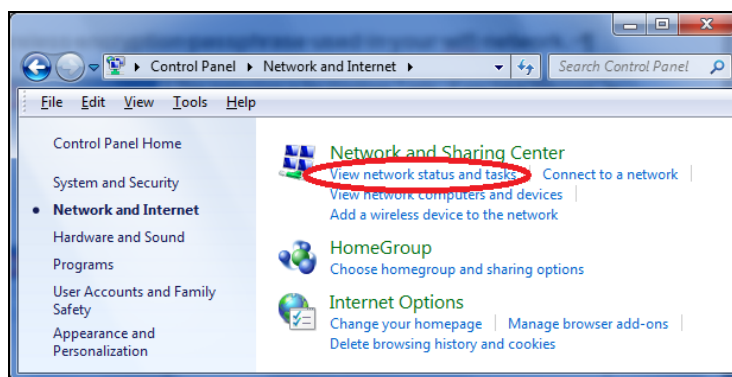
***If you are using Windows XP or earlier, please contact your ISP or router manufacturer to find your network security key.***

#### IV-1-3-1. Windows 7 & Vista

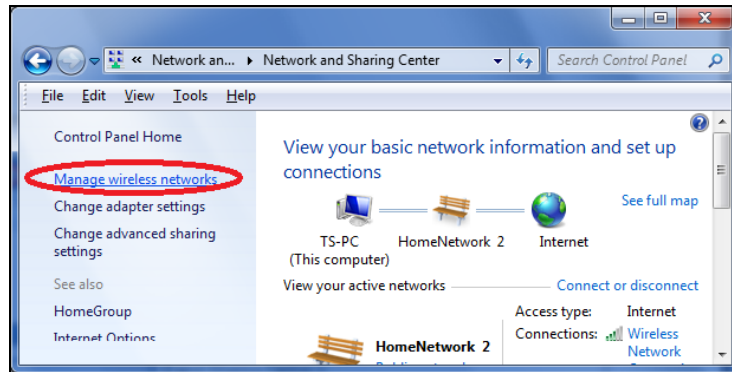
1. Open “Control Panel” and click on “Network and Internet” in the top menu.



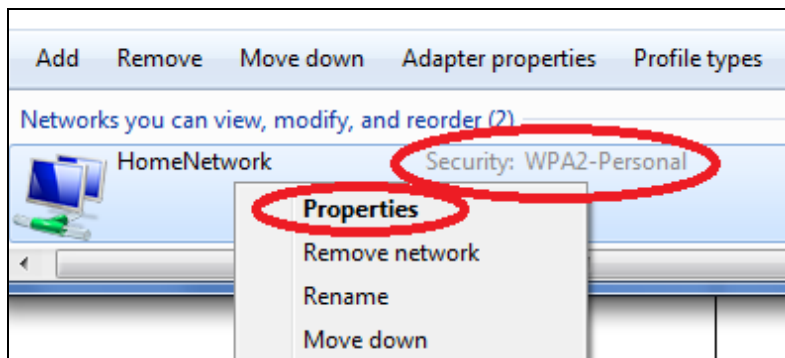
2. Click on “View network status and tasks” which is under the heading “Network and Sharing Center”.



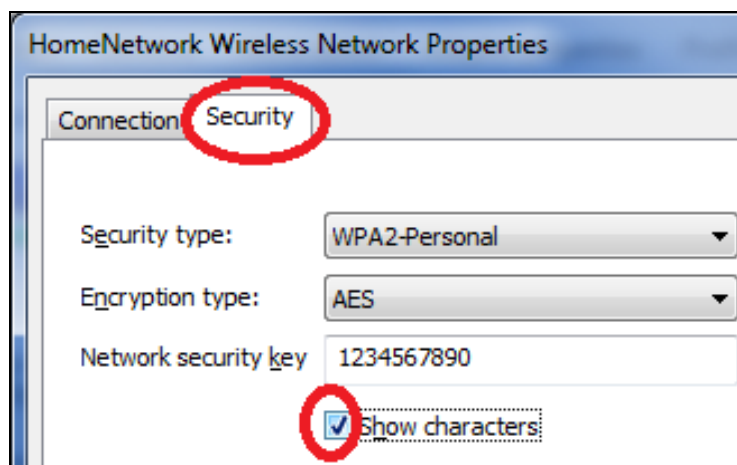
**3.** Click on “Manage wireless networks” in the left menu.



**4.** You should see the profile of your Wi-Fi network in the list. Right click on your Wi-Fi network and then click on “Properties”.

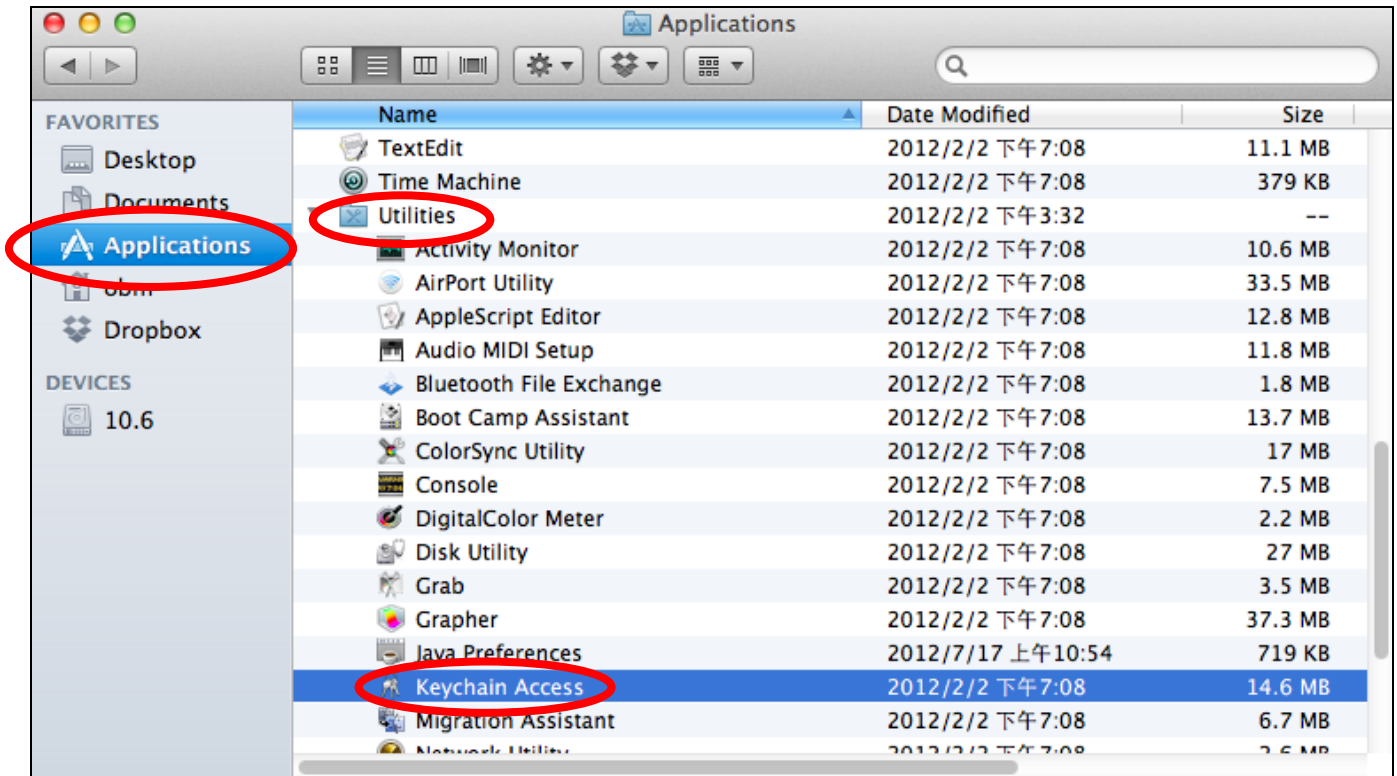


**5.** Click on the “Security” tab, and then check the box labeled “Show characters”. This will show your network security key. Click the “Cancel” button to close the window.

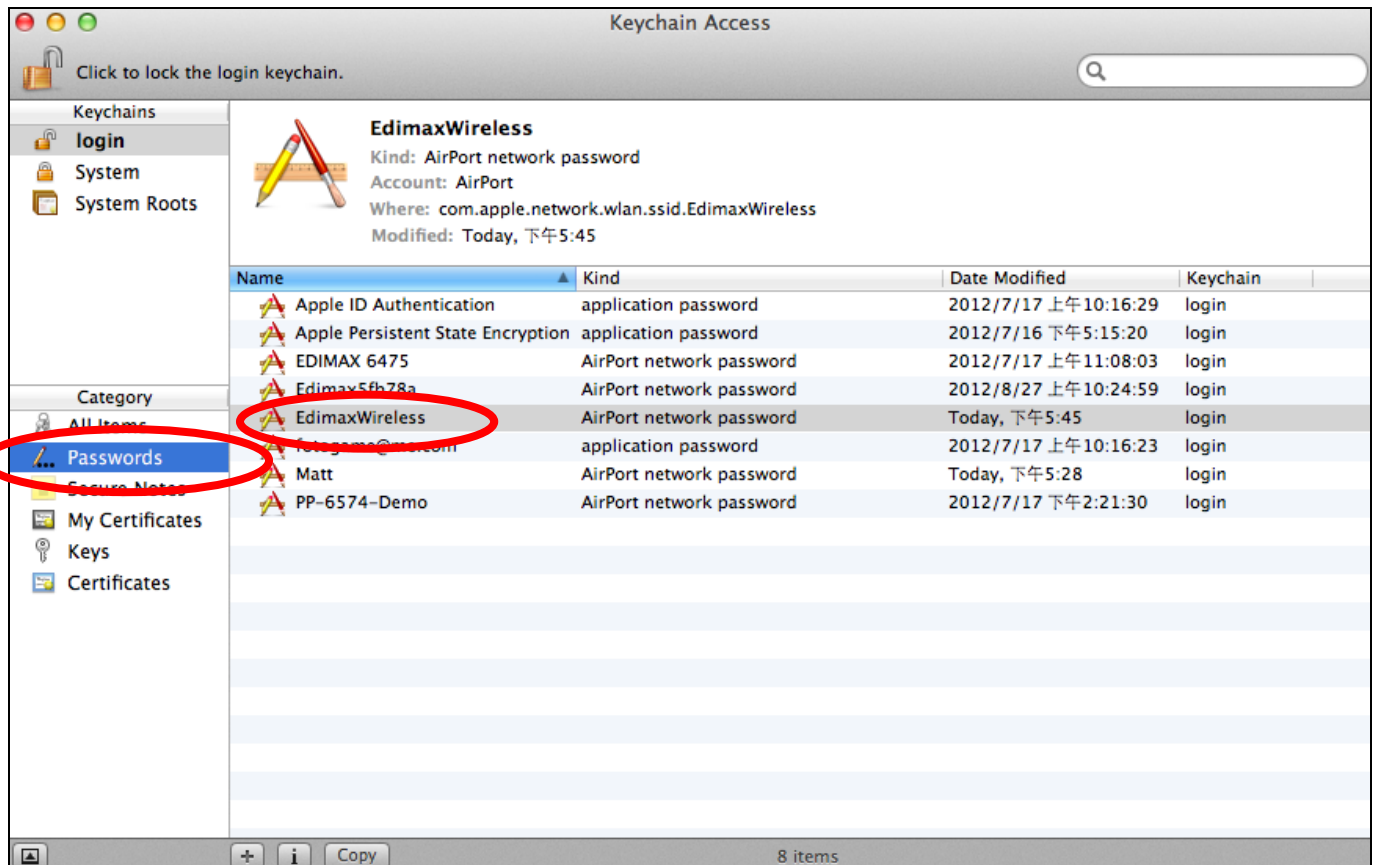


## IV-1-3-2. Mac

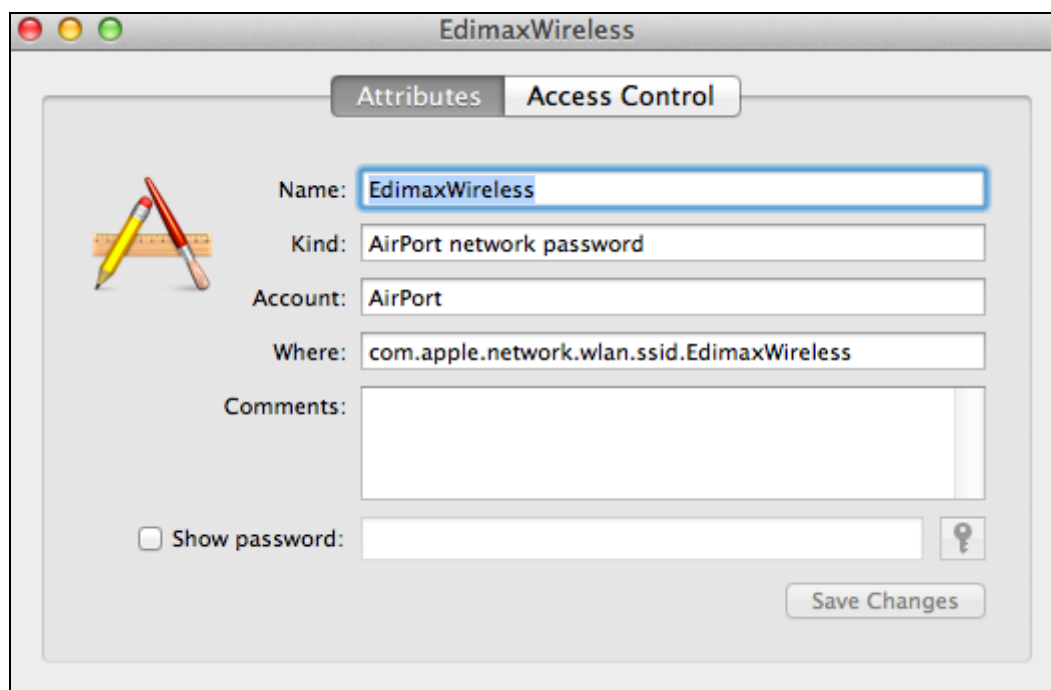
1. Open a new Finder window, and select “Applications” from the menu on the left side. Open the folder labeled “Utilities” and then open the application “Keychain Access”.



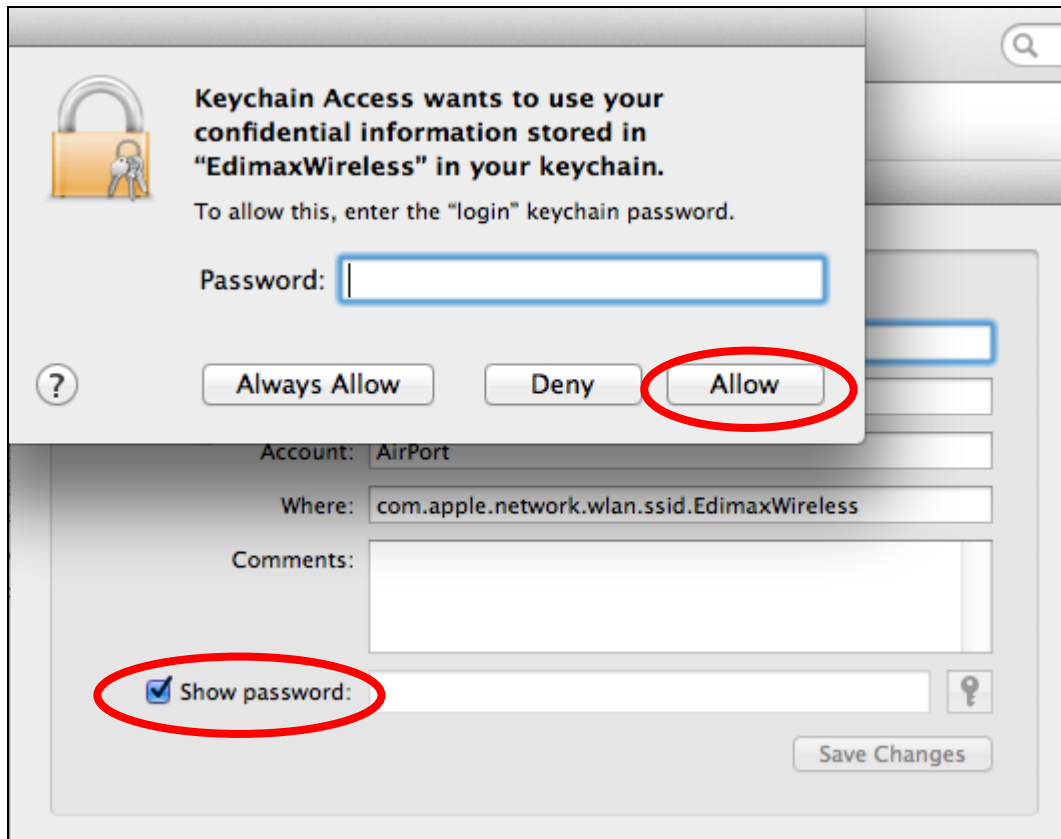
2. Select “Passwords” from the sub-menu labeled “Category” on the left side, as shown below. Then search the list in the main panel for the SSID of your network. In this example, the SSID is “EdimaxWireless” – though your SSID will be unique to your network.



3. Double click the SSID of your network and you will see the following window.



4. Check the box labeled "Show password" and you will be asked to enter your administrative password, which you use to log into your Mac. Enter your password and click "Allow".



Your network security password will now be displayed in the field next to the box labeled "Show password". In the example below, the network security password is "edimax1234". Please make a note of your network security password.

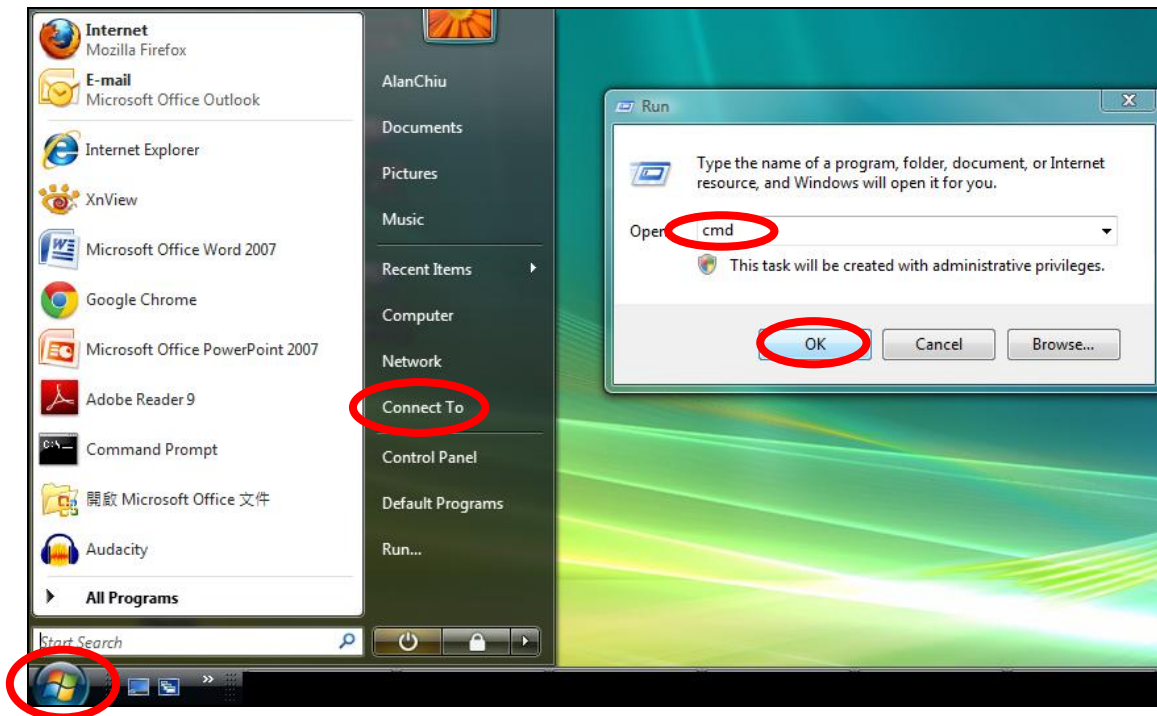


## IV-1-4. How to Find Your Router's IP Address

To find your router's IP address, please follow the instructions appropriate for your operating system.

### IV-1-4-1. Windows XP, Vista & 7

1. Go to "Start", select "Run" and type "cmd", then press Enter or click "OK".



2. A new window will open, type "ipconfig" and press Enter.



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.0.6002]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

C:\Users\AlanChiu>ipconfig
```

3. Your router's IP address will be displayed next to "Default Gateway".

```
Administrator: C:\Windows\system32\cmd.exe
Ethernet adapter 區域連線:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::4cdc:3e90:ba56:1722%9
    IPv4 Address. . . . . : 192.168.10.14
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::1867:2a1b:e9c2:e57b%9
                                192.168.10.254

Wireless LAN adapter 無線網路連線:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : edimax.com

Tunnel adapter 區域連線* 6:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

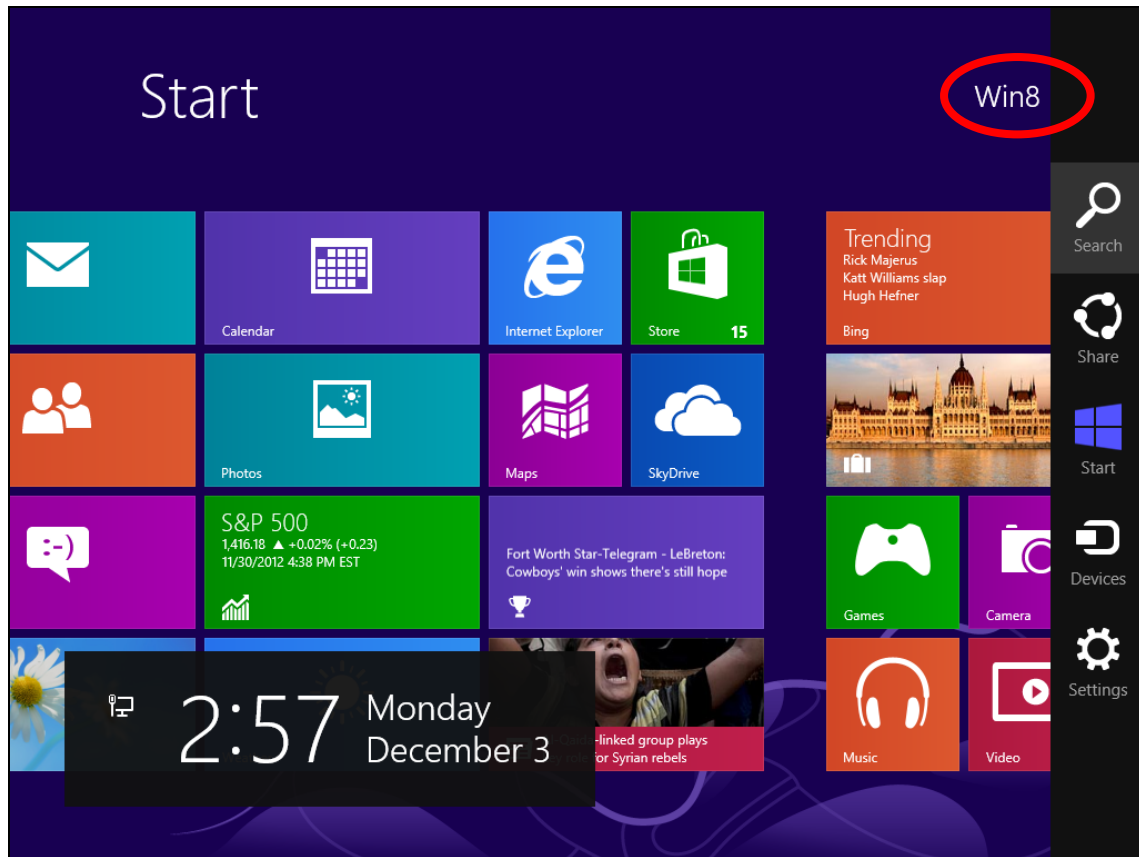
Tunnel adapter 區域連線* 7:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

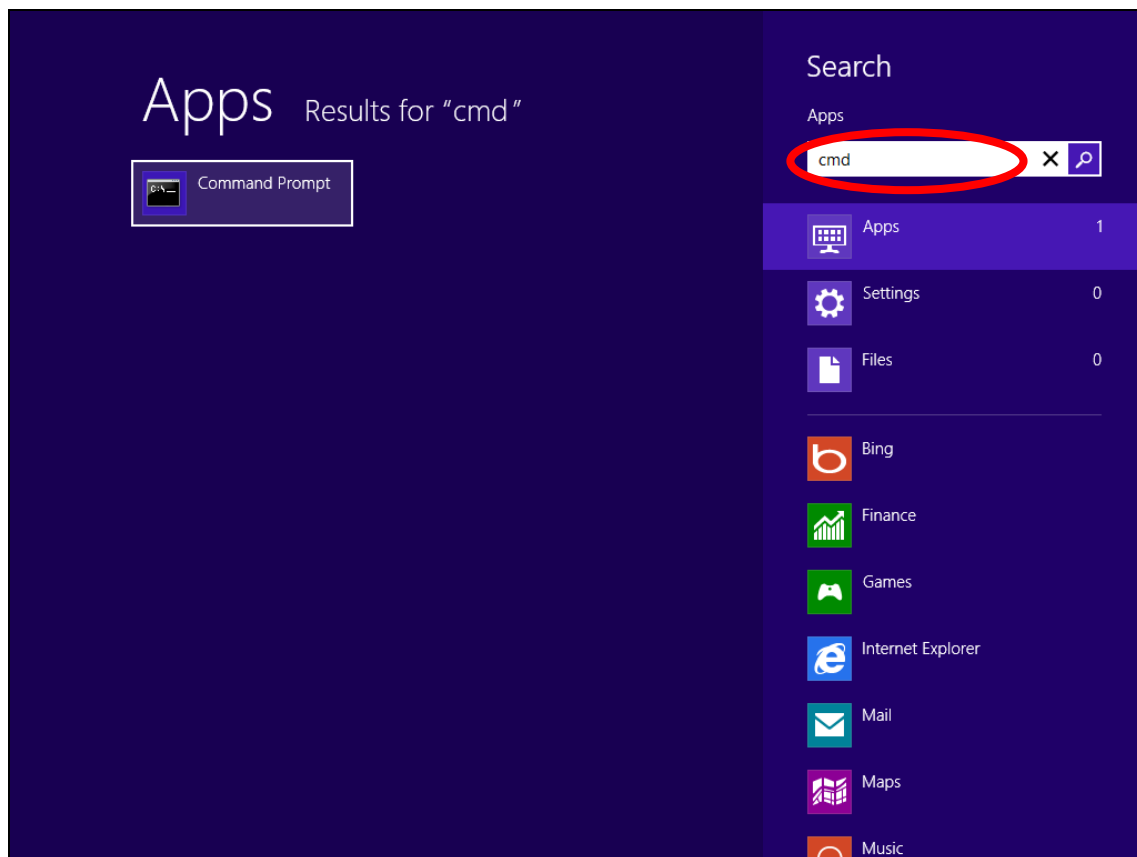
C:\Users\AlanChiu>
```

## IV-1-4-2. Windows 8

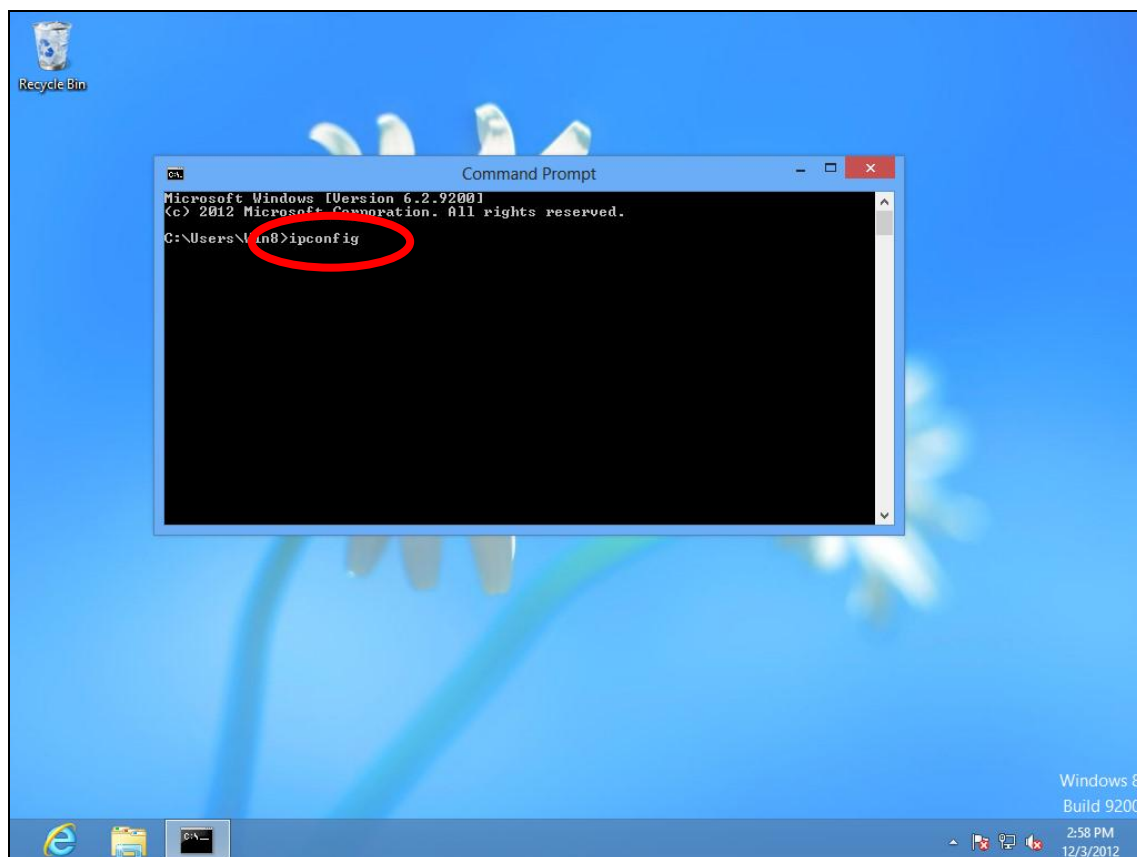
1. From the Windows 8 Start screen, move your cursor to the top right corner of the screen to display the Charms bar.



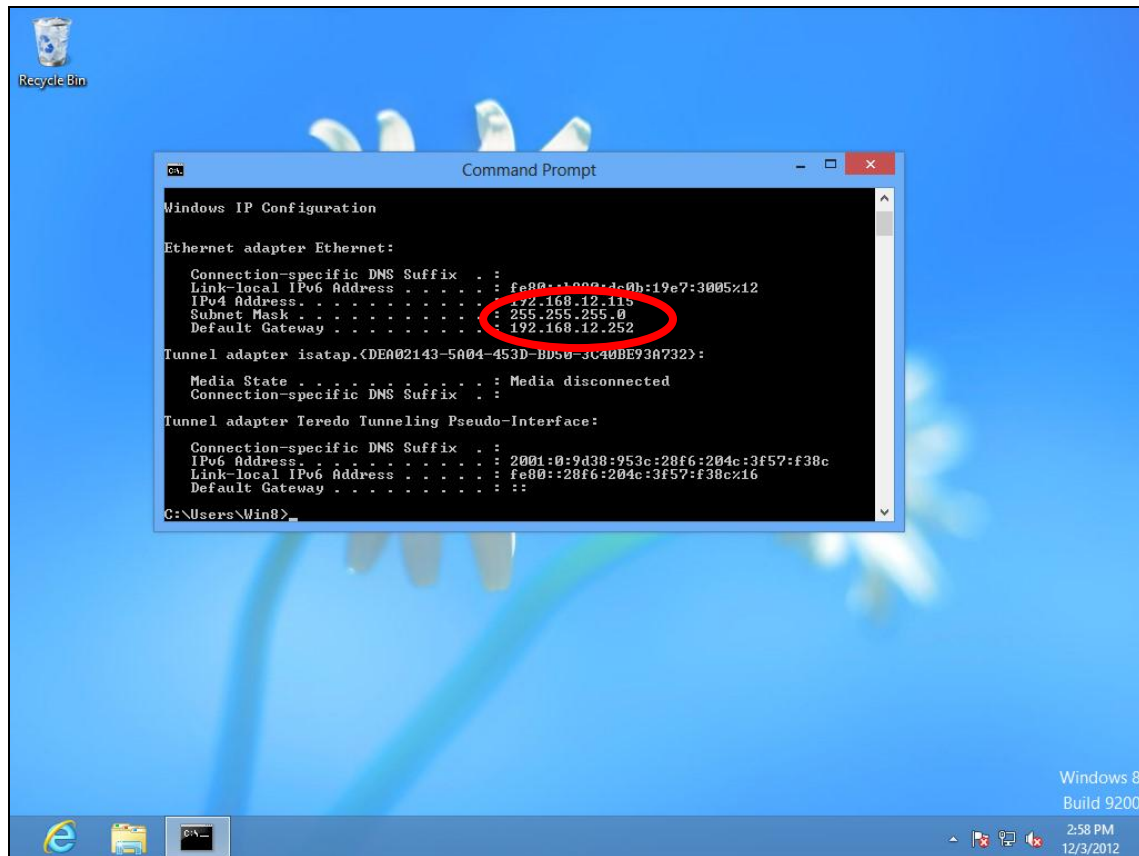
2. Click "Search" and enter "cmd" into the search bar. Click the "Command Prompt" app which be displayed on the left side.



**3.** A new window will open, type “ipconfig” and press Enter.

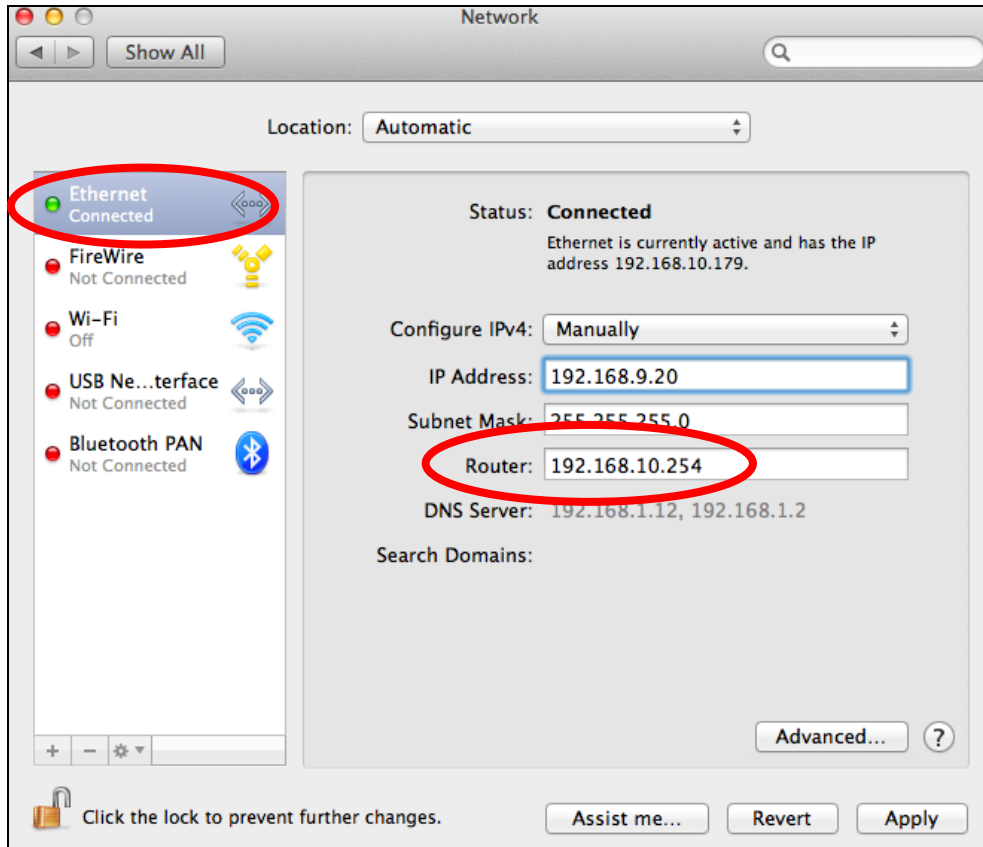


#### 4. Your router's IP address will be displayed next to "Default Gateway".

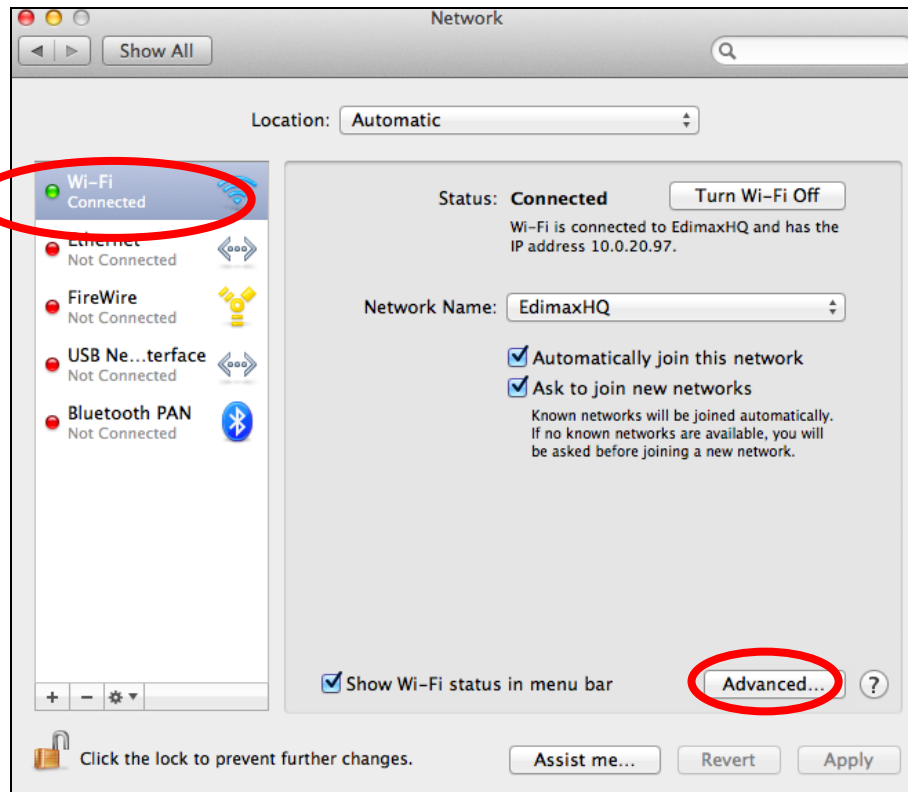


### IV-1-4-3. Mac

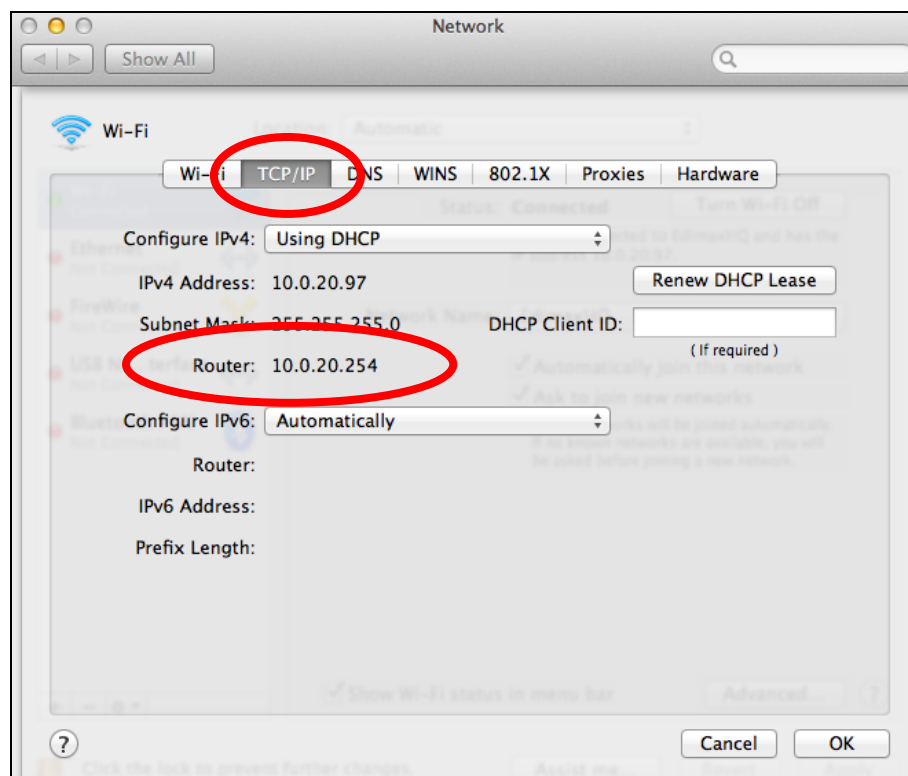
1. Launch “System Preferences” and click on “Network”.
2. If you are using an Ethernet cable to connect to your network, your router’s IP address will be displayed next to “Router”.



3. If you are using Wi-Fi, click “Wi-Fi” in the left panel, and then “Advanced” in the bottom right corner.



4. Click the “TCP/IP” tab and your router’s IP address will be displayed next to “Router”.






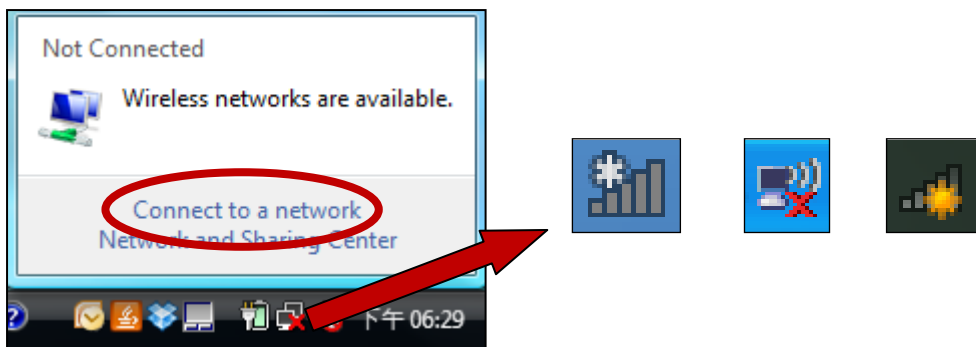
## IV-2. Connecting to a Wi-Fi network

For help connecting to your device's **Edimax.Setup** SSID for initial setup, or to connect to your device's new Wi-Fi network (SSID) after setup is complete, follow the guide below:

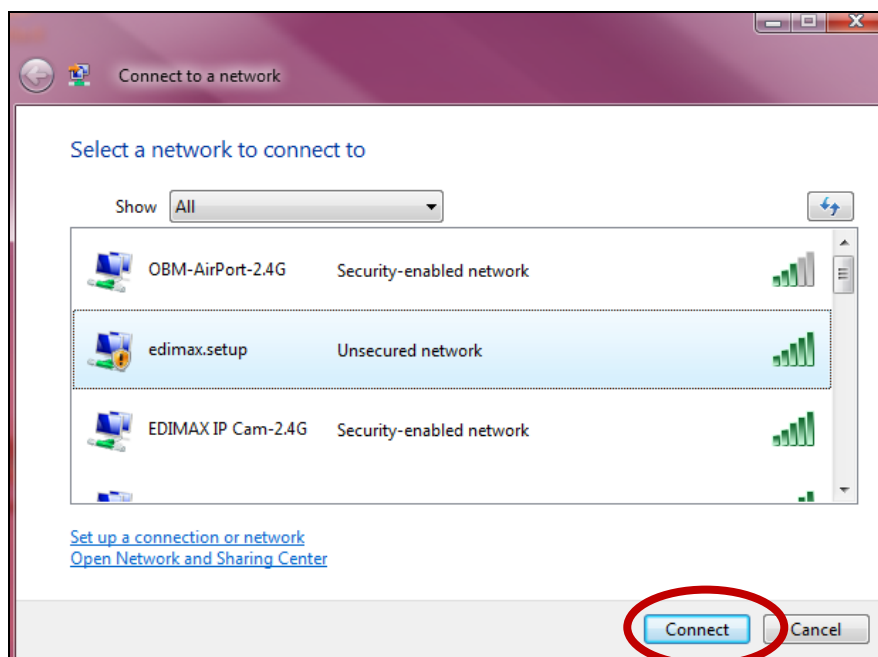


***Below is an example of how to connect using Windows Vista – the process may vary slightly for other versions of Windows.***

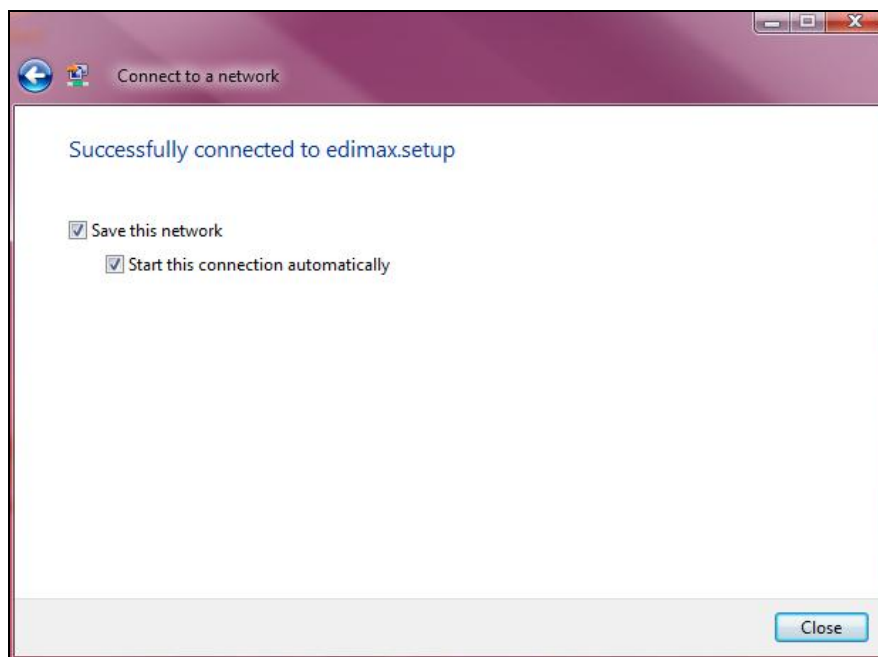
1. Click the network icon ( , , or  ) in the system tray and select “**Connect to a network**”.



2. Search for the SSID of your BR-6478 AC V2 and then click “Connect”. If you set a password for your network, you will then be prompted to enter it.



- 3.** After correctly entering your password, you will be successfully connected to the BR-6478 AC V2's wireless network.





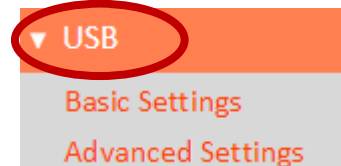
## IV-3. FAQs

### 1. How do I use USB storage?

- a. Connect your USB storage to the USB port on the rear of the BR-6478AC V2. USB sharing is enabled by default so devices on your network can access the USB storage drive using appropriate tools for your OS (e.g. Windows File Explorer → Network).



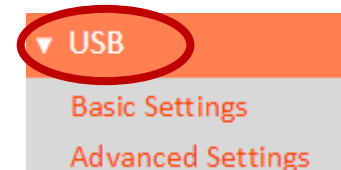
***USB drives should be pre-formatted to support FAT32 or NTFS file systems before using with the USB port. USB hubs are not supported.***



For more detailed configurations such as folder-sharing and FTP, login to the browser-based configuration interface at **<http://edimax.setup>** and go to USB in the main menu.

### 2. How do I share a printer?

- a. Go to **USB → Basic Settings** at **<http://edimax.setup>** and **enable** USB Sharing and select **Print Server**.



Connect your printer to the device with a USB cable and ensure printer drivers are installed on computers that you wish to share the printer with. Then install the Edimax Device Server Utility from the included CD (the utility can also be downloaded from **USB → Basic Settings**).

### 3. How do I setup a VPN server?

- a. A VPN server can be used for remote access to your network as well as for additional security & privacy. Login to **<http://edimax.setup>** and go to **Internet → VPN** to setup the serve. A VPN client such as OpenVPN is required on your network device to access the VPN remotely.



#### 4. I can't access the Internet.

- Ensure that all cables are connected properly. Try a different Ethernet cable.
- Check if you can access the web based configuration interface. If not, please ensure your computer is set to use a dynamic IP address.
- Login to the web based configuration interface and go to **Internet > WAN Setup** and check that the connection type is correct. If you are unsure which internet connection type you have, please contact your Internet Service Provider (ISP).
- Connect your computer directly to your modem and check if you can access the internet. If you can't, please contact your Internet service provider for assistance.

#### 5. I can't open the web based configuration interface.

- Please ensure your computer is set to use a dynamic IP address.

#### 6. How do I reset my device to factory default settings?

- To reset the device back to its factory default settings, press and hold the WPS/Reset button for over 10 seconds, until the Internet LED begins to flash. Please wait a few minutes for the product to restart. When the device restarts, all settings will be reset. Default settings are displayed on the product label on the back of the device, as shown below:



<b>Router Login</b>	Enter this URL in a web browser to run iQ Setup or configure advanced settings. You must be
---------------------	---

	connected to the device by Wi-Fi or Ethernet cable.
<b>Username/Password</b>	This is the default username and password to access the browser based configuration interface when you go to the “Router Login” URL (above).
<b>Wi-Fi Network Name</b>	This is the default Wi-Fi network name for the device. Search for this name (SSID) and connect to it in order to access the “Router Login” URL (above).
<b>MAC</b>	A MAC address is unique to every device and is used for identification within a network. Your device’s unique MAC addresses are displayed here.
<b>PIN CODE</b>	This is your device’s PIN code for Wi-Fi Protected Setup (WPS) for each wireless frequency.

## 7. I forgot my password.

- Reset the router to its factory default settings and use the default username **admin** and default password **1234**. Default settings are displayed on the product label on the back of the device, as shown above.

## 8. Do the blue WAN port and yellow LAN ports work the same when the device is in different modes?

No, the WAN and LAN ports have slightly different functions depending on the operating mode of the device.

- In **Wi-Fi router** mode, the **WAN port** is for a direct connection to your xDSL modem. The **LAN ports** are for wired network clients.
- In **access point** mode, the **WAN port** is not functional. Connect your existing router to the device’s **LAN port**, and the other **LAN ports** can connect wired network clients.
- In **Wi-Fi extender, Wi-Fi bridge & WISP** mode, the **WAN port** is not functional and the **LAN ports** are for wired network clients. Do not connect your existing router to the device’s **WAN** or **LAN ports**, as this can cause the device to malfunction.

## ***V. Glossary***

**Default Gateway (Wireless bridge):** Every non-access point IP device needs to configure a default gateway's IP address. When the device sends out an IP packet, if the destination is not on the same network, the device has to send the packet to its default gateway, which will then send it out towards the destination.

**DHCP:** Dynamic Host Configuration Protocol. This protocol automatically gives every computer on your home network an IP address.

**DNS Server IP Address:** DNS stands for Domain Name System, which allows Internet servers to have a domain name (such as `www.Broadbandaccesspoint.com`) and one or more IP addresses (such as `74.125.128.104`). A DNS server keeps a database of Internet servers and their respective domain names and IP addresses, so that when a domain name is requested (as in typing "`Broadbandaccesspoint.com`" into your Internet browser), the user is sent to the proper IP address. The DNS server IP address used by the computers on your home network is the location of the DNS server your ISP has assigned to you.

**DSL Modem:** DSL stands for Digital Subscriber Line. A DSL modem uses your existing phone lines to transmit data at high speeds.

**Ethernet:** A standard for computer networks. Ethernet networks are connected by special cables and hubs, and move data around at up to 10/100 million bits per second (Mbps).

**IP Address and Network (Subnet) Mask:** IP stands for Internet Protocol. An IP address consists of a series of four numbers separated by periods, that identifies a single, unique Internet computer host in an IP network. Example: `192.168.2.1`. It consists of 2 portions: the IP network address, and the host identifier.

The IP address is a 32-bit binary pattern, which can be represented as four cascaded decimal numbers separated by ".": `aaa.aaa.aaa.aaa`, where each "aaa" can be anything from 000 to 255, or as four cascaded binary numbers separated by ".": `bbbbbbbbb.bbbbbbbb.bbbbbbbb.bbbbbbbb`, where each "b" can either be 0 or 1.

A network mask is also a 32-bit binary pattern, and consists of consecutive leading 1's followed by consecutive trailing 0's, such as 11111111.11111111.11111111.00000000. Therefore sometimes a network mask can also be described simply as "x" number of leading 1's. When both are represented side by side in their binary forms, all bits in the IP address that correspond to 1's in the network mask become part of the IP network address, and the remaining bits correspond to the host ID.

For example, if the IP address for a device is, in its binary form, 11011001.10110000.10010000.00000111, and if its network mask is, 11111111.11111111.11110000.00000000 It means the device's network address is 11011001.10110000.10010000.00000000, and its host ID is, 00000000.00000000.00000000.00000111. This is a convenient and efficient method for access points to route IP packets to their destination.

**ISP Gateway Address:** (see ISP for definition). The ISP Gateway Address is an IP address for the Internet access point located at the ISP's office.

**ISP:** Internet Service Provider. An ISP is a business that provides connectivity to the Internet for individuals and other businesses or organizations.

**LAN:** Local Area Network. A LAN is a group of computers and devices connected together in a relatively small area (such as a house or an office). Your home network is considered a LAN.

**MAC Address:** MAC stands for Media Access Control. A MAC address is the hardware address of a device connected to a network. The MAC address is a unique identifier for a device with an Ethernet interface. It is comprised of two parts: 3 bytes of data that corresponds to the Manufacturer ID (unique for each manufacturer), plus 3 bytes that are often used as the product's serial number.

**NAT:** Network Address Translation. This process allows all of the computers on your home network to use one IP address. Using the broadband access point's NAT capability, you can access the Internet from any computer on your home network without having to purchase more IP addresses from your ISP.

**Port:** Network Clients (LAN PC) uses port numbers to distinguish one network application/protocol over another. Below is a list of common applications and protocol/port numbers:

Application	Protocol	Port Number
Telnet	TCP	23
FTP	TCP	21
SMTP	TCP	25
POP3	TCP	110
H.323	TCP	1720
SNMP	UCP	161
SNMP Trap	UDP	162
HTTP	TCP	80
PPTP	TCP	1723
PC Anywhere	TCP	5631
PC Anywhere	UDP	5632

**Access point:** A access point is an intelligent network device that forwards packets between different networks based on network layer address information such as IP addresses.

**Subnet Mask:** A subnet mask, which may be a part of the TCP/IP information provided by your ISP, is a set of four numbers (e.g. 255.255.255.0) configured like an IP address. It is used to create IP address numbers used only within a particular network (as opposed to valid IP address numbers recognized by the Internet, which must be assigned by InterNIC).

**TCP/IP, UDP:** Transmission Control Protocol/Internet Protocol (TCP/IP) and User Datagram Protocol (UDP). TCP/IP is the standard protocol for data transmission over the Internet. Both TCP and UDP are transport layer protocol. TCP performs proper error detection and error recovery, and thus is reliable. UDP on the other hand is not reliable. They both run on top of the IP (Internet Protocol), a network layer protocol.

**WAN:** Wide Area Network. A network that connects computers located in geographically separate areas (e.g. different buildings, cities, countries). The Internet is a wide area network.

**Web-based management Graphical User Interface (GUI):** Many devices support a graphical user interface that is based on the web browser. This means the user can use the familiar Netscape or Microsoft Internet Explorer to Control/configure or monitor the device being managed.

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	PT	RO	SK	SI	ES	SE	UK	UK(NI)

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.



## Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

### FCC Caution

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. 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, and (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 authority to operate equipment.

### Federal Communications Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 2.5cm (1 inch) during normal operation.

The equipment version marketed in US is restricted to usage of the channels 1-11 only. This equipment is restricted to **indoor** use when operated in the 5.15 to 5.25 GHz frequency range.

### RED Compliance Statement

#### Compliance with 2014/53/EU Radio Equipment Directive (RED)

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency range (MHz)	Max. transmit power (dBm)
2400-2472	19.70 dBm
5150-5250	22.48 dBm

A simplified DoC shall be provided as follows: Article 10(9)

Hereby, Edimax Technology Co., Ltd. declares that the radio equipment type **AC1200 Gigabit Dual-Band Router with VPN** is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address: <http://www.edimax.com/edimax/global/>

### Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

### EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

### EU Countries Not Intended for Use

None

## EU Declaration of Conformity

- English:** This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU, 2014/35/EU.
- Français:** Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2014/53/EU, 2014/35/EU.
- Čeština:** Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnic 2014/53/EU, 2014/35/EU.
- Polski:** Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2014/53/EU, 2014/35/EU.
- Română:** Acest echipament este în conformitate cu cerințele esențiale și alte prevederi relevante ale Directivei 2014/53/UE, 2014/35/UE.
- Русский:** Это оборудование соответствует основным требованиям и положениям Директивы 2014/53/EU, 2014/35/EU.
- Magyar:** Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek (2014/53/EU, 2014/35/EU).
- Türkçe:** Bu cihaz 2014/53/EU, 2014/35/EU direktifleri zorunlu istekler ve diğer hükümlerle ile uyumludur.
- Українська:** Обладнання відповідає вимогам і умовам директиви 2014/53/EU, 2014/35/EU.
- Slovenčina:** Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2014/53/EU, 2014/35/EU.
- Deutsch:** Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2014/53/EU, 2014/35/EU.
- Español:** El presente equipo cumple los requisitos esenciales de la Directiva 2014/53/EU, 2014/35/EU.
- Italiano:** Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2014/53/EU, 2014/35/UE.
- Nederlands:** Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van richtlijn 2014/53/EU, 2014/35/EU.
- Português:** Este equipamento cumpre os requisitos essenciais da Directiva 2014/53/EU, 2014/35/EU.
- Norsk:** Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv 2014/53/EU, 2014/35/EU.
- Svenska:** Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta bestämmelser i direktiv 2014/53/EU, 2014/35/EU.
- Dansk:** Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante forordninger i direktiv 2014/53/EU, 2014/35/EU.
- suomen kieli:** Tämä laite täyttää direktiivien 2014/53/EU, 2014/35/EU. oleelliset vaatimukset ja muut asiaankuuluvat määräykset.

FOR USE IN

AT	BE	BG	CZ	DK	DE
EE	IE	EL	ES	FR	HR
IT	CY	LV	LT	LU	HU
MT	NL	PL	PT	RO	SI
SK	FI	SE	UK	UK(EN)	TR
IS	LI	NO	CH	RU	UA



## WEEE Directive & Product Disposal



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

## Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European Radio Equipment directives.

**Equipment:** AC1200 Gigabit Dual-Band Router with VPN  
**Model No.:** BR-6478AC V2

The following European standards for essential requirements have been followed:

### Directives 2014/53/EU

Spectrum : EN 300 328 V2.1.1 (2016-11)  
EN 301 893 V2.1.1 (2017-05)  
EMC : EN 301 489-1 V2.2.0 (2017-03)  
EN 301 489-17 V3.2.0 (2017-03)  
EMF : EN 62311:2008  
Safety (LVD) : IEC 62368-1:2014 (2<sup>nd</sup> Edition) and/or EN 62368-1:2014+A11:2017

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Date of Signature: Nov., 2020

Signature:

Printed Name:

Albert Chang

Title:

Director

Edimax Technology Co., Ltd.

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