

## **BR-6208AC**

# **User Manual**

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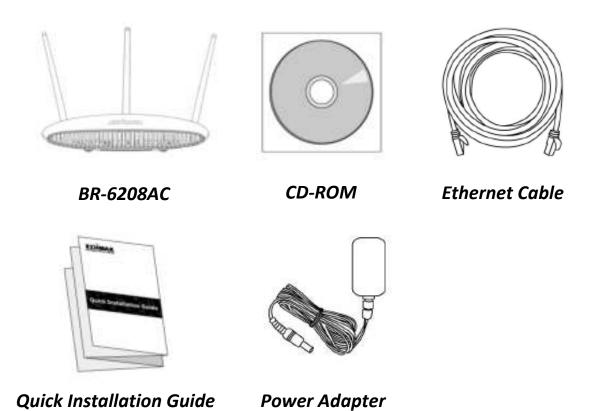
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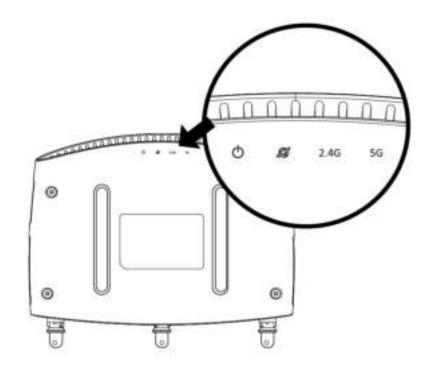
# I. Product Information

## 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):

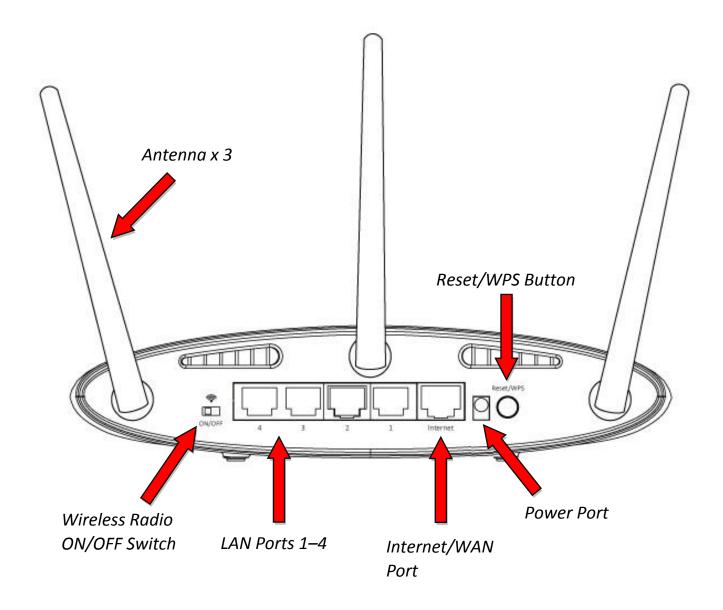


## I-2. LED Status



LED	Color	LED Status	Description
Power			BR-6208AC is on.
Ф	White	Off	BR-6208AC is off.
late week		On	Internet connection is ready.
Internet	Blue	Flashing	Factory default state, or Ethernet cable not connected, or no Internet connection.
2.4GHz Wi-Fi		On	2.4GHz Wi-Fi wireless activity (transferring/receiving data).
	Blue	Flashing	2.4GHz WPS is active.
•		Off	2.4GHz Wi-Fi not active.
5GHz Wi-Fi	Blue	On	5GHz Wi-Fi wireless activity (transferring/receiving data).
1		Flashing	5GHz WPS is active.
200		Off	5GHz Wi-Fi not active.

### I-3. Back Panel



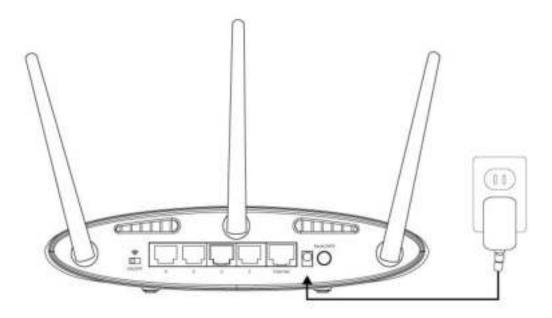
#### I-4. Safety Information

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

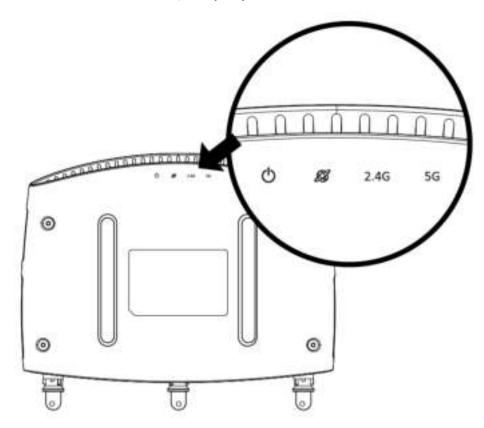
- 1. The device is designed for indoor use only; do not place it outdoors.
- 2. Do not place the device in or near hot/humid places, such as a kitchen or bathroom.
- 3. Do not pull any connected cable with force; carefully disconnect it from the BR-6208AC.
- 4. Handle the device with care. Accidental 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

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



2. Ensure that the Wi-Fi On/Off switch is set to on and that three LEDs (power, 2.4GHz & 5GHz Wi-Fi) display on.



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



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

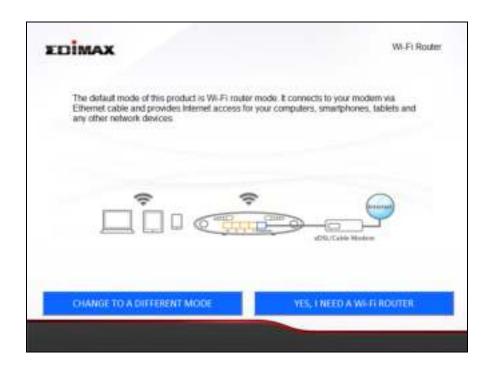
**4.** Open a web browser and if you do not automatically arrive at the "Get Started" screen shown below, enter the URL http://edimax.setup and click "Get Started" to begin the setup process.





If you cannot access http://edimax.setup, please make sure your Mi-Fi device is set to use a dynamic IP address. This is a simple procedure and step-by-step instructions to do this on a computer can be found in IV Appendix.

**5.** Choose if you want to use your BR-6208AC in its default Wi-Fi router mode or in a different mode.



The BR-6208AC's five available modes are outlined below:

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

**6.** Follow the on-screen instructions to complete setup. For more information, please refer to the appropriate following chapter:

#### 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.



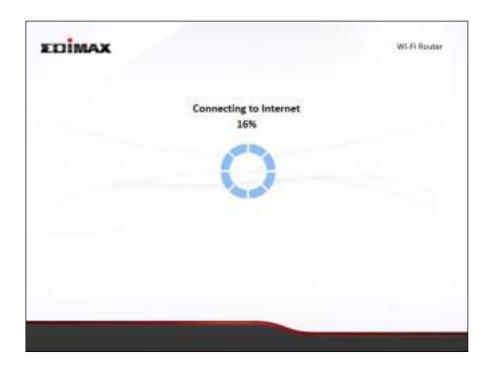
**A** Manual configuration is only recommended for advanced users.



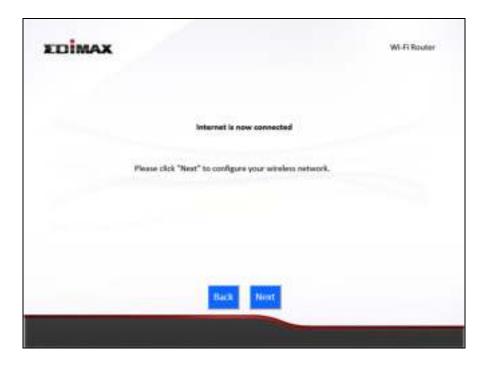
2. Connect the **blue** Internet port of your BR-6208AC to the LAN port of your modem using an Ethernet cable, and then click "Next".



**3.** Please wait a moment while the BR-6208AC tests the connection.



**4.** Click "Next" to continue and configure the device's wireless network.



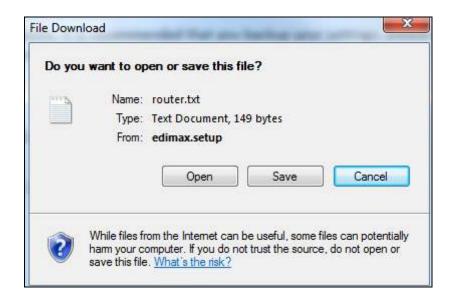
**5.** Enter a name and password for your 2.4GHz & 5GHz wireless networks, then click "Next" to continue.



**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.



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 BR-6208AC applies your settings.



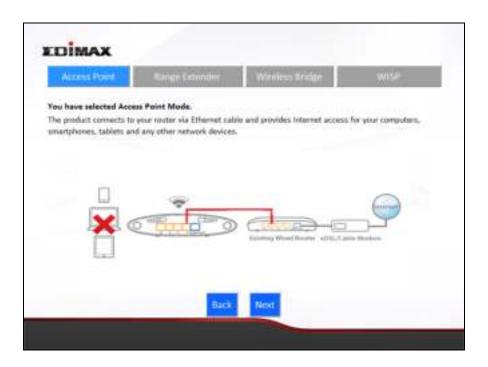
**8.** A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.



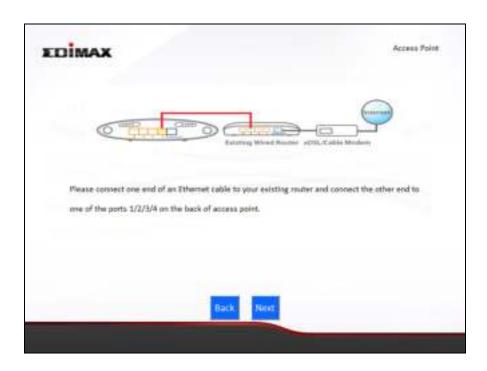
**9.** The BR-6208AC is working and ready for use. Refer to <a href="IV-2">IV-2</a>. Connecting to <a href="IV-2">a Wi-Fi network</a> if you require more guidance.

#### **II-2. Access Point Mode**

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



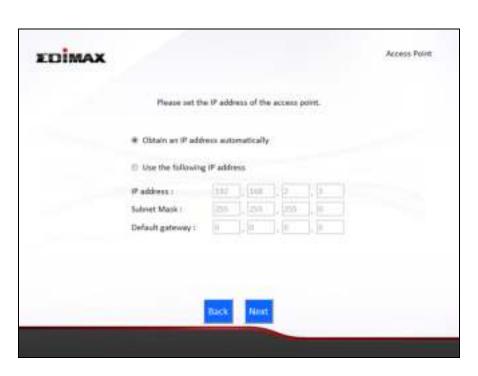
**2.** Connect the yellow LAN port of your BR-6208AC to the LAN port of your existing router using an Ethernet cable, then click "Next".



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



**4.** Select "Obtain an IP address automatically" or "Use the following IP address" for your BR-6208AC. If you are using a static IP, enter the IP address, subnet mask and default gateway. Click "Next" to proceed to the next step.



4

"Obtain an IP address automatically" is the recommended setting for most users. For more guidance on static IP addresses, please refer to <a href="IV-1">IV-1</a>. Configuring your IP address.

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



**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.



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-6208AC is ready.



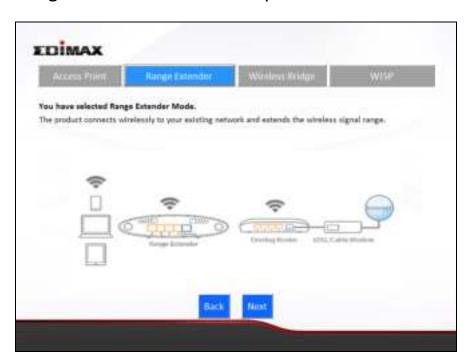
**8.** A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.



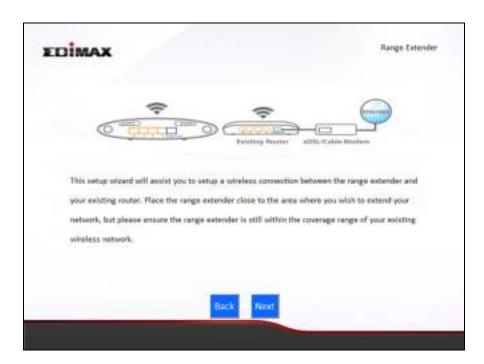
**9.** The BR-6208AC is working and ready for use. Refer to <a href="IV-2">IV-2</a>. Connecting to <a href="IV-2">a Wi-Fi network</a> if you require more guidance.

#### II-3. Range Extender Mode

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



**2.** Please ensure your BR-6208AC is within Wi-Fi range of your existing wireless router. Click "Next" to continue.



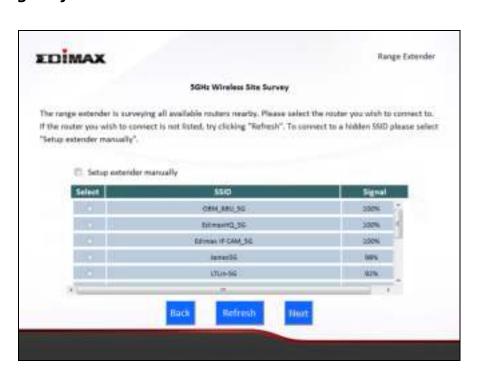
**3.** Select whether to use the 5GHz wireless frequency, 2.4GHz wireless frequency or both. If you are not sure, select both and then click "Next".



4. Select 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 the clicking "Refresh".



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.



**6.** Wait a moment while the BR-6208AC tests the wireless connection.



**7.** Select "Obtain an IP address automatically" or "Use the following IP address" for your BR-6208AC. 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.



**8.** 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.



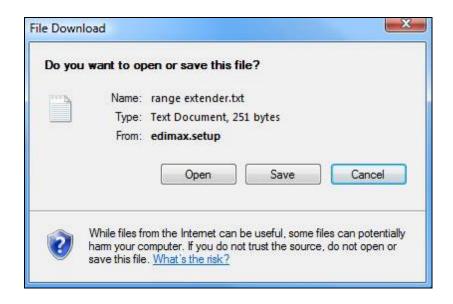
**9.** A summary of your configuration will be displayed, as shown below. Check that all of the details are correct and then click "Next" to proceed.



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



If you wish to backup the BR-6208AC's settings, click "Backup this configuration" to open a new window and save your current configuration to a .txt file.



**10.** Please wait a moment until the BR-6208AC is ready.



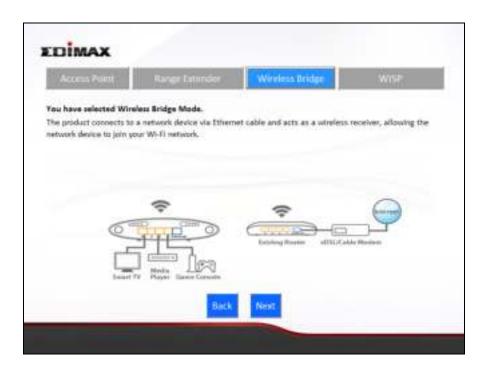
**11.** A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.



**12.** The BR-6208AC is working and ready for use. Refer to <a href="IV-2">IV-2</a>. 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-6208AC 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-6208AC can only connect to one wireless network/frequency i.e. 2.4GHz or 5GHz.



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".



To connect to a hidden SSID, check the "Setup extender manually" L 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.



**6.** Wait a moment while the BR-6208AC tests the wireless connection.



**7.** Select "Obtain an IP address automatically" or "Use the following IP address" for your BR-6208AC. If you are using a static IP, enter the IP address, subnet mask and default gateway. Click "Next" to proceed to the next step.

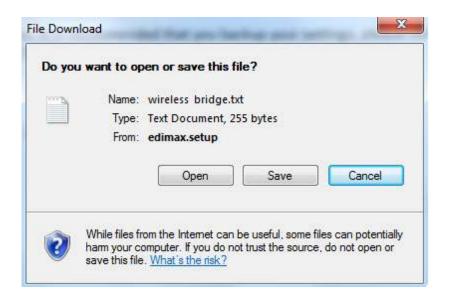
"Obtain an IP address automatically" is the recommended setting for most users. The IP address will be displayed in brackets.



**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.



If you wish to backup the BR-6208AC'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-6208AC is ready.



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



**11.** The BR-6208AC is working and ready for use. You can now connect the BR-6208AC 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".



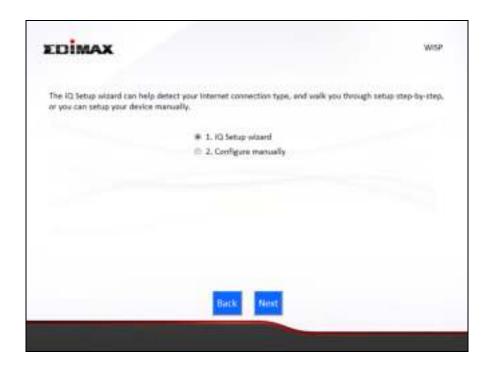
**2.** Please ensure your BR-6208AC is within Wi-Fi range of your WISP network and click "Next" to continue.



**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.



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



**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".



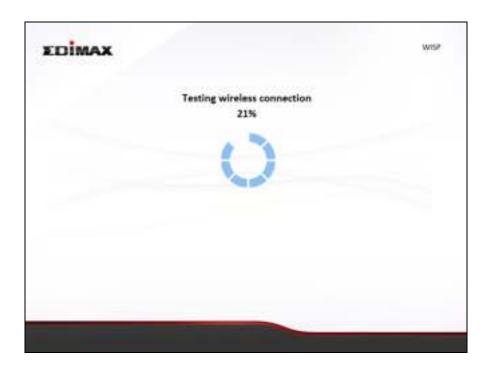
To connect to a hidden SSID, check the "Setup extender manually" 🖺 box and enter the details manually on the next page, as shown below.



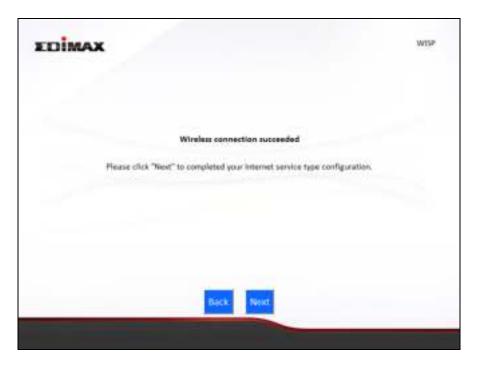
**6.** Enter your existing wireless network's security key/password in the "Security Key" field and click "Next" to continue.



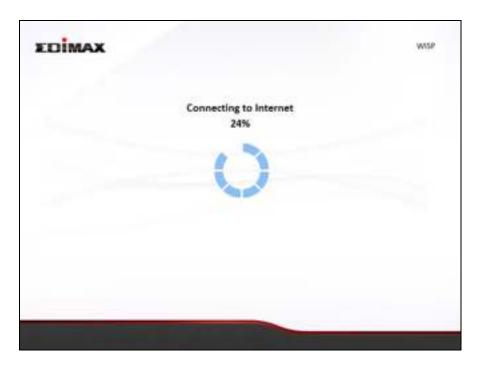
**7.** Wait a moment while the BR-6208AC tests the wireless connection.



**8.** Click "Next" to continue your Internet service type configuration.



**9.** Wait a moment while the BR-6208AC connects to the Internet.



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



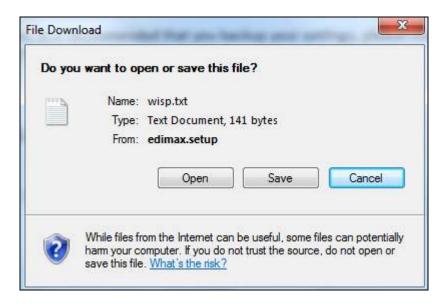
**11.** Enter a name and password for your 2.4GHz & 5GHz wireless networks, then click "Next" to continue.



**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-6208AC 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.

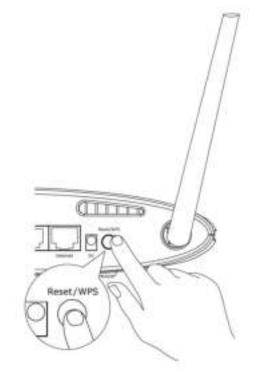


**15.** The BR-6208AC is working and ready for use. Refer to <a href="IV-2">IV-2</a>. Connecting to a Wi-Fi network if you require more guidance.

#### 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-6208AC's Wi-Fi network.

- Press the WPS button on the BR-6208AC for 2 5 seconds to activate WPS. The WLAN LED will be lighted on 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-6208AC, 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 back panel for at least 10 seconds, until the power LED begins to flash.
- 2. Release the button when the power LED is flashing.
- **3.** Wait for the BR-6208AC to restart. The BR-6208AC is ready for setup when the power LED, 2.4GHz Wi-Fi and 5GHz Wi-Fi LEDs display **on.**

# III. Browser Based Configuration Interface

After you have setup the BR-6208AC 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 <u>IV-1</u>. <u>Configuring your IP address</u> for more information.

### III-1. Login

**1.** To access the browser based configuration interface enter <a href="http://edimax.setup">http://edimax.setup</a> into the URL bar of a browser on a network device connected to the same Wi-Fi network as the BR-6208AC.



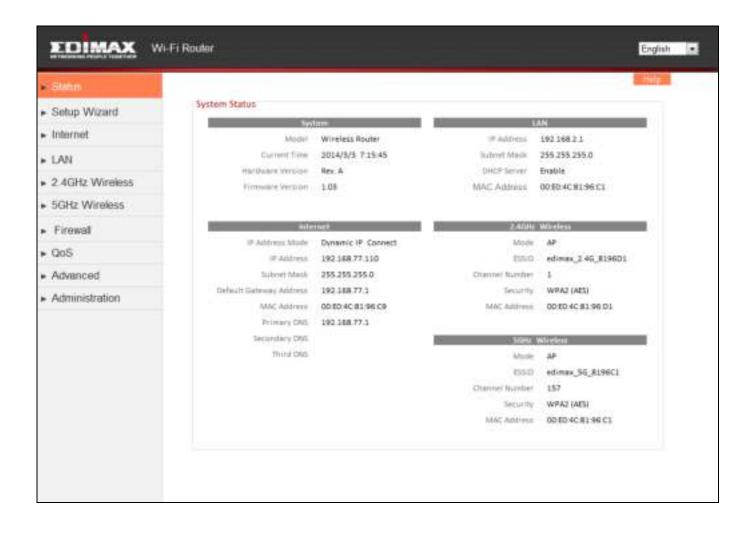


If you can not access http://edimax.setup, connect the device to a computer using an Ethernet cable and try again.

**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.



#### 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.

 $Settings \ have \ been \ saved. \ Please \underline{click\ here\ to\ restart}\ ) he\ router\ and\ bring\ the\ new\ settings\ into\ effect.$ 

**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.

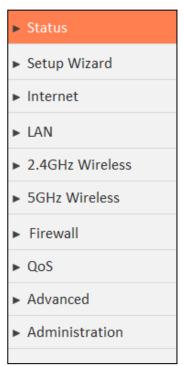
#### III-3. Main Menu

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

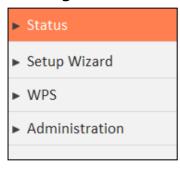
#### Wi-Fi Router



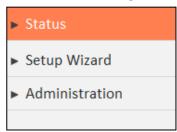
#### **Access Point**

➤ Status
► Setup Wizard
► LAN
➤ 2.4GHz Wireless
► 5GHz Wireless
► Advanced
► Administration

#### Range Extender



## Wireless Bridge



#### **WISP**

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

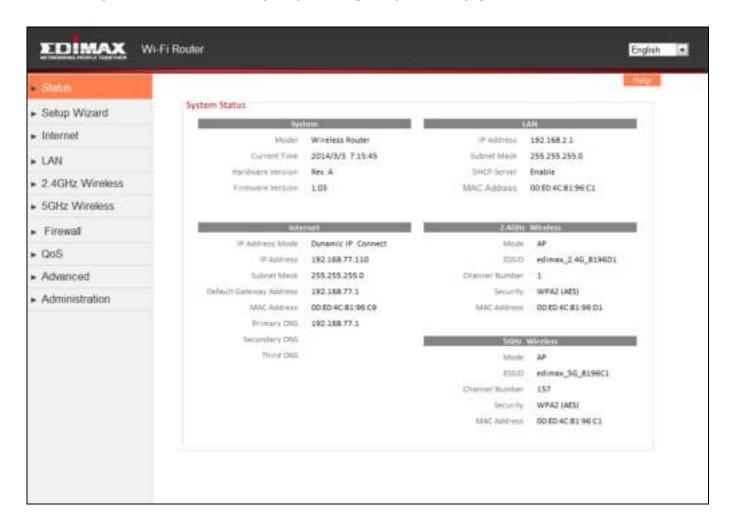
#### III-3-1. Status



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.



#### 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.

d
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
-

Setup Wizard	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 <u>II. Installation</u> .
Switch to Router/Access	This wizard will help you to switch the device
Point/ Range Extender/	to a different operating mode: Wi-Fi router
Wireless Bridge/ WISP	mode, access point mode, range extender,
mode	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 and DDNS settings. Click on an item from the submenu to view and/or configure the settings.





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



Enable / Disable	Enable or disable your WISP connection.
SSID	The name of the WISP network which your BR-6208AC 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.



#### 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).



Host Name	Enter the host name of your computer.
MAC Address	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.
DNS Address 1,2 & 3	Enter the DNS address(es) assigned by your
	ISP here.
MTU	Enter the maximum transmission unit (MTU)
	value of your network connection. The
	default value is 1500.
TTL	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.



Fixed IP Address	Input the IP address assigned by your ISP here.
Subnet Mask	Input the subnet mask assigned by your ISP here.
Default Gateway	Input the default gateway assigned by your
Address	ISP here. Some ISPs may call this "Default Route".
MAC Address	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.
DNS Address 1, 2 & 3	Enter the DNS address(es) assigned by your ISP here.
MTU	Enter the maximum transmission unit (MTU) value of your network connection. The default value is 1500.
TTL	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).

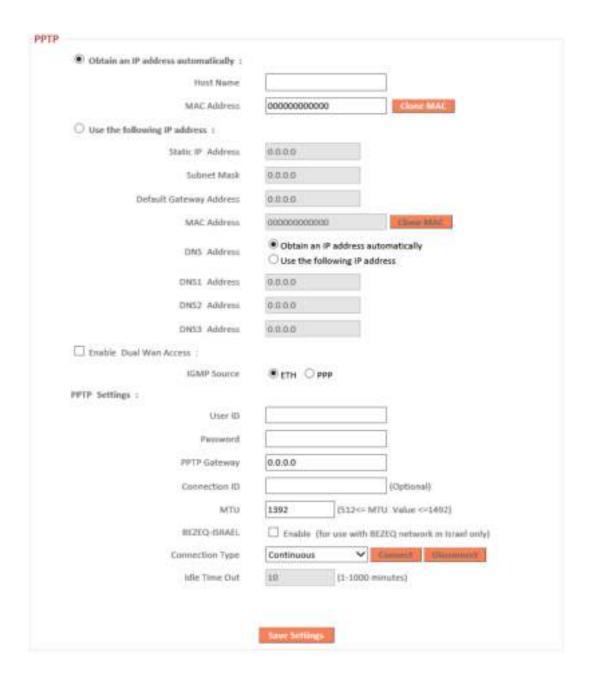


User Name	Enter the user name assigned by your ISP here.
Password	Enter the password assigned by your ISP here.
MAC Address	For some applications, you may need to designate a specific MAC address for the router. Please enter the MAC address here. If you are connecting the router to a computer, press "Clone Mac" to automatically enter your computer's MAC address.
DNS Address	Select "Obtain an IP address automatically" or "Use the following IP address". Check with your ISP if you are unsure.
DNS Address 1, 2 & 3	Enter the DNS address(es) assigned by your ISP here.
TTL	Enable/Disable time to live (TTL) function

	which limits the lifespan of notwork data to
	which limits the lifespan of network data to
	improve performance.
Service Name	Give this Internet service a name (optional).
MTU	Enter the maximum transmission unit (MTU)
	value of your network connection. The
	default value is 1392.
Connection Type	Specify a connection type:
	<ol> <li>"Continuous": Connected all the time.</li> <li>"Connect on Demand": Connect when you initiate an Internet connection.</li> <li>"Manual": Connect/disconnect manually using the "Connect" and "Disconnect" buttons.</li> </ol>
Idle Time Out	Specify the amount of time the router waits before shutting down an idle connection. Only available when "Connect on Demand" (above) is selected.
Enable Dual-WAN Access	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.

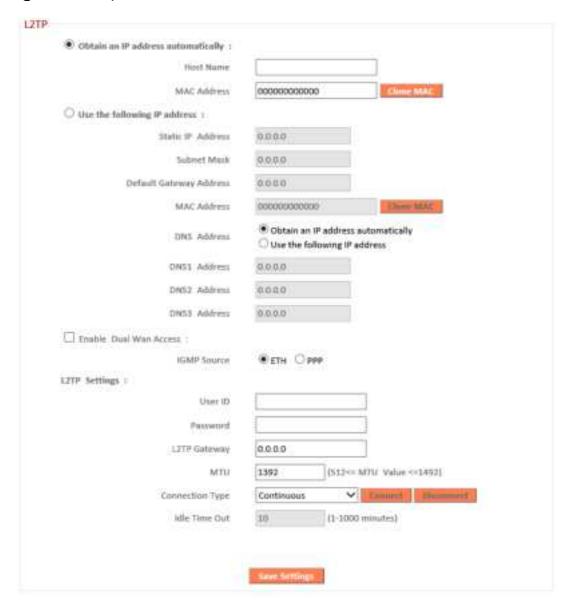


Host Name	Enter the host name of your computer here If
	required.
MAC Address	For some applications, you may need to designate a
	specific MAC address for the router. Please enter
	the MAC address here. If you are connecting the
	router to a computer, press "Clone Mac" to
	automatically enter your computer's MAC address.
Static IP Address	Input the IP address assigned by your ISP here.
Subnet Mask	Input the subnet mask assigned by your ISP here.
<b>Default Gateway</b>	Input the default gateway assigned by your ISP
Address	here. Some ISPs may call this "Default Route".
MAC Address	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.
DNS Address	Select "Obtain an IP address automatically" or "Use
	the following IP address". Check with your ISP if you
	are unsure.
DNS Address 1,2 & 3	Enter the DNS address(es) assigned by your ISP
	here.
Enable Dual-WAN	Enable/disable dual WAN access. When you enable
Access	dual WAN access, select an IGMP source and enter
	a "Host Name" and "MAC Address".
User ID	Input the user name assigned by your ISP here.
Password	Input the password assigned by your ISP here.
PPTP Gateway	Input the PPTP gateway assigned by your ISP here.
Connection ID	Specify a reference name/ID for the connection.
MTU	Enter the maximum transmission unit (MTU) value
	of your network connection. The default value is
DEZEO ICDAEL	1392. Chack the "Enable" have if you are using DEZEO
BEZEQ-ISRAEL	Check the "Enable" box if you are using BEZEQ
Connection Tune	network services (Israel users only).
Connection Type	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.
Idle Time Out	Specify the amount of time the router waits before
idle fille Out	Specify the amount of time the fouter 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).

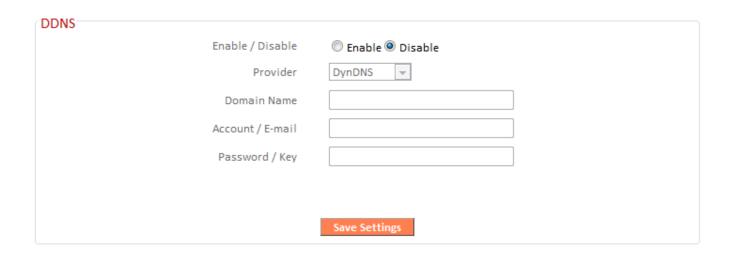


Host Name	Enter the host name of your computer here If required.
MAC Address	For some applications, you may need to designate a specific MAC address for the router. Please enter the MAC address here. If you are connecting the router to a computer, press "Clone Mac" to automatically enter your computer's MAC address.

Static IP Address	Input the IP address assigned by your ISP here.
Subnet Mask	Input the subnet mask assigned by your ISP here.
<b>Default Gateway</b>	Input the default gateway assigned by your ISP
Address	here. Some ISPs may call this "Default Route".
MAC Address	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.
DNS Address	Select "Obtain an IP address automatically" or "Use
	the following IP address". Check with your ISP if you
	are unsure.
DNS Address 1,2 & 3	Enter the DNS address(es) assigned by your ISP
	here.
<b>Enable Dual-WAN</b>	Enable/disable dual WAN access. When you enable
Access	dual WAN access, select an IGMP source and enter
	a "Host Name" and "MAC Address".
User ID	Input the user name assigned by your ISP here.
Password	Input the password assigned by your ISP here.
L2TP Gateway	Input the L2TP gateway assigned by your ISP here.
Connection ID	Specify a reference name/ID for the connection.
MTU	Enter the maximum transmission unit (MTU) value
	of your network connection. The default value is
	1392.
Connection Type	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
Lille Time C.	the "Connect" and "Disconnect" buttons.
Idle Time Out	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.



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

The following DDNS services are supported:

**3322** http://www.3322.org

**DHS** http://www.dhs.org

**DynDNS** http://www.dyndns.org

**ODS** http://ods.org

**TZO** http://www.tzo.com

**GnuDIP** http://gnudip2.sourceforge.net

**DyNS** http://www.dyns.cx/

**ZoneEdit** *http://www.zoneedit.com* 

**DHIS** http://www.dhis.org/

**CyberGate** http://cybergate.planex.co.jp/ddns/

NS2GO http://www.ns2go.com/
NO-IP http://www.noip.com/

#### III-3-4. LAN

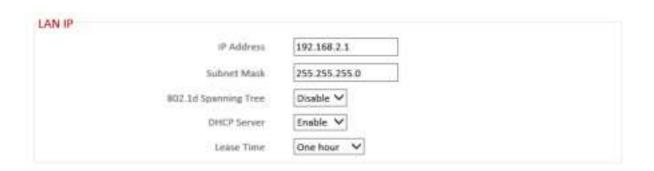


You can configure your Local Area Network (LAN) on this page. You can enable the router to dynamically allocate IP addresses to your LAN clients, and you can

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.



IP Address	Specify the IP address here. This IP address will be assigned to the BR-6208AC and will replace the default IP address.	
Subnet Mask	Specify a subnet mask. The default value is	
Subilet Wask	255.255.255.0	
802.1d Spanning	Select "Enable" or "Disable" to enable/disable	
Tree	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.	
DHCP Server	Enable or disable the DHCP server.	
Lease Time	Select a lease time for the DHCP leases here.	
	The DHCP client will obtain a new IP address	
	after the period expires.	

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



Start IP	Enter the start IP address for the DHCP server's IP address leases.
End IP	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.



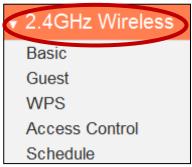
<b>Enable Static DHCP</b>	Enable/disable static DHCP leases. This must
Leases	be enabled in order to assign any network
	device a static IP address.
MAC Address	Enter the specified network device's MAC
	address here.
IP Address	Assign a fixed IP address for the specified
	network device here.
Add	Add the information to the "Static DHCP
	Leases Table".
Clear	Clear the MAC address and IP address fields.
Delete Selected /	Delete selected or all entries from the table.
Delete All	



The LAN IP page will be displayed as below when your device is set to access point mode. You can set the BR-6208AC to obtain an IP address automatically or you can specify an IP address.

LAN IP	
<ul><li>•</li></ul>	Obtain an IP address automatically
	Use the following IP address
IP Addi	ress 192.168.2.1
Subnet M	ask 255.255.255.0
Default Gateway Addi	ress

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

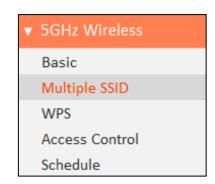


The "2.4GHz Wireless" & "5GHz Wireless" menu allows you to configure SSID and security settings for your Wi-Fi network along with a guest Wi-Fi network. WPS, access control and scheduling functions can also be managed from here.

# Basic Guest WPS Access Control Schedule

#### **Access Point Mode:**







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

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

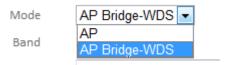
The "Basic" screen displays settings for your primary 2.4GHz or 5GHz Wi-Fi network.



Disable Wireless	Check the box to disable the wireless function of your device.
Mode	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).
Band	Displays the wireless standard used for the BR-6208AC's "2.4GHz (B+G+N)" means that 802.11b, 802.11g, and 802.11n wireless clients can connect to the BR-6208AC.
Wireless Network Name (SSID)	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.
Broadcast SSID	Enable or disable SSID broadcast. When enabled, the SSID will be visible to clients as an available Wi-Fi network. When disabled, 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.
Enable Wireless Clients Isolation	Check the box to enable wireless clients isolation. This prevents wireless clients connected to the BR-6208AC 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.
Channel Number	Select a wireless radio channel or use the default "Auto" setting from the drop-down menu.
Site Survey	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.
Wireless Clients	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:



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.

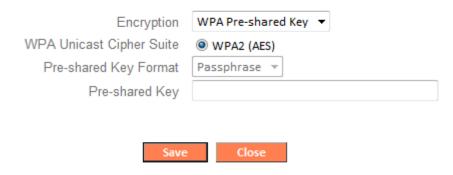


MAC Address 1 - 4	Enter the correct MAC address for other	
	access points in WDS mode.	
Set Security	Click "Set Security" to open a new window	
	and enter the security settings for WDS	
	(shown below). Click "Save" when finished.	



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

# AP Bridge-WDS Security Setting



# Wireless Security:



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.



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

Encryption is disabled and no password/key is required to connect to the BR-6208AC.



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

Enable 802.1x	Check the box to enable the 802.1x	
Authentication	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.

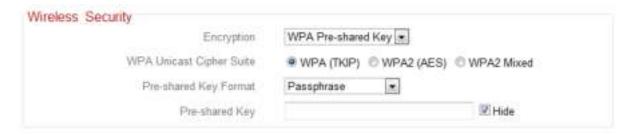


Key Length	Select 64-bit or 128-bit. 128-bit is more secure than 64-bit.
Key Format	Choose from "ASCII" (any alphanumerical character 0-9, a-z and A-Z) or "Hex" (any characters from 0-9, a-f and A-F).
Encryption Key	Enter your encryption key/password according to the format you selected above. A complex, hard-to-guess key is recommended. Check the "Hide" box to hide your password from being displayed on-screen.
Enable 802.1x	Check the box to enable the 802.1x
Authentication	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.



WPA Unicast	Select from WPA (TKIP), WPA2 (AES) or WPA2
Cipher Suite	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).
Pre-shared Key	Choose from "Passphrase" (8-63
Format	alphanumeric characters) or "Hex" (up to 64
	characters from 0-9, a-f and A-F).
Pre-shared Key	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.



WPA Unicast Cipher Suite  RADIUS Server IP	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).  Input the IP address of the RADIUS
RADIUS Server Port  RADIUS Server Password	Input the port number of the RADIUS authentication server here. The default value is 1812.  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 **lack in the Example 1** by "Multiple SSID". The BR-6208AC supports up to four additional SSIDs for each wireless band in access point mode.





802.1x authentication is unavailable in WISP mode for the wireless band that is used to connect to WISP's AP.

<b>Enable Guest SSID</b>	Check/uncheck the box to enable/disable the guest Wi-Fi network.
Wireless Guest	Enter a reference/ID name for your guest
Name	wireless network.
<b>Enable Wireless</b>	Check the box to enable wireless clients
<b>Clients Isolation</b>	isolation. This prevents wireless clients
	connected to the BR-6208AC 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.
Band	Displays the wireless standard used for the

	BR-6208AC's frequency band: 2.4GHz (B+G+N): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to the BR-6208AC.
Channel Number	Channel number for the guest network is the same as the main SSID and cannot be adjusted independently.

Encryption	Please refer to <u>III-3-5-1. Basic: Wireless</u>
	<b>Security</b> for details about security settings.



WPA RADIUS encyrption type is not available for the guest network.

#### **MULTIPLE SSID:**

The BR-6208AC 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	Use the drop down menu to select which SSID
	( numbered 1 – 4) to configure.
Wireless Network	Enter a reference/ID name to separate your
Name (SSID)	wireless network.
<b>Enable Multiple</b>	Check/uncheck this box to enable/disable the
SSID	specified SSID. Must be checked for the SSID to
	function.
<b>Enable Wireless</b>	Check the box to enable wireless clients
<b>Clients Isolation</b>	isolation. This prevents wireless clients
	connected to the BR-6208AC 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.
Band	Displays the wireless standard used for the
	BR-6208AC's frequency band:
	2.4GHz (B+G+N): Allows 802.11b, 802.11g, and
	802.11n wireless clients to connect to the
	BR-6208AC.
<b>Channel Number</b>	Channel number for the guest network is the
	same as the main SSID and cannot be adjusted
	independently.
VLAN ID	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.

#### 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.



Enable WPS	Check/uncheck this box to enable/disable WPS.
WPS Status	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.
Self PIN Code	Displays the WPS PIN code of the device.
SSID	Displays the SSID of the device.
Authentication Mode	Displays the wireless security authentication mode of the device.
Authentication Key	Displays the wireless security authentication key.
Configuration Mode	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.
Configure via Push	Click "Start PBC" (Push-Button Configuration)
Button	to activate WPS on the access point. WPS will
	be active for 2 minutes.
	Enter the wireless client's PIN code here and
PIN Code	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 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-6208AC. 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-6208AC, it will be denied.

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



MAC address	Select a PC name from the drop-down list and click ">>" to add enter it into the blank field to the right.
	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.
	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'.
Comment	Enter a comment for reference/identification consisting of up to 16 alphanumerical characters.
Add	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.



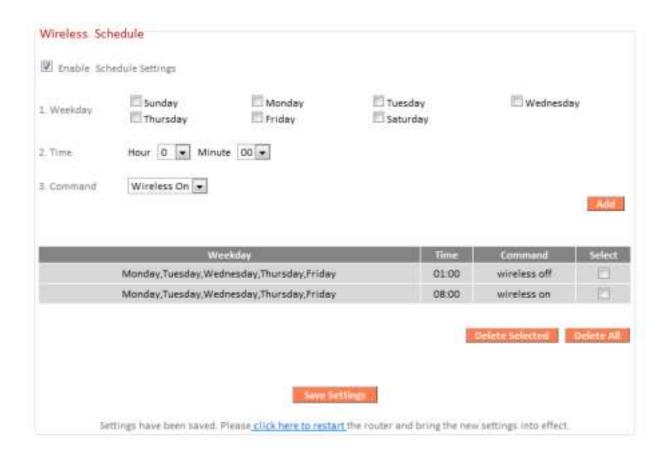
Delete Selected/	Delete selected or all entries from the table.
Delete All	

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

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



The BR-6208AC must remain connected to the Internet and use an NTP server for the schedule feature to function correctly.





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

- **1.** Use the checkboxes to select which day(s) to include in the schedule.
- **2.** Specify a time (hour and minute) for the schedule using the drop-down menu.
- **3.** Select which command applies to this schedule from the drop-down menu, either "Wireless On" or "Wireless Off".

Add	Add the schedule to the table of active
	schedules.

Active schedules will be displayed in the table as shown below. Select an entry using the "Select" checkbox.



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

### III-3-6. Firewall



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



SPI firewall	Enable or disable the Stateful Packet
	Inspection (SPI) firewall.

# III-3-6-1. URL Blocking

This function can block Internet access by either specific URLs or keywords. Check/uncheck the "Enable URL Blocking" box to enable/disable URL blocking.



URL/Keyword	Enter the URL or keyword to be blocked.
Add	Add the URL or keyword to the blocked table.

Blocked URLs/keywords entries will be listed in the table as shown below. Select an entry using the "Select" checkbox.



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

### III-3-6-2. Access Control

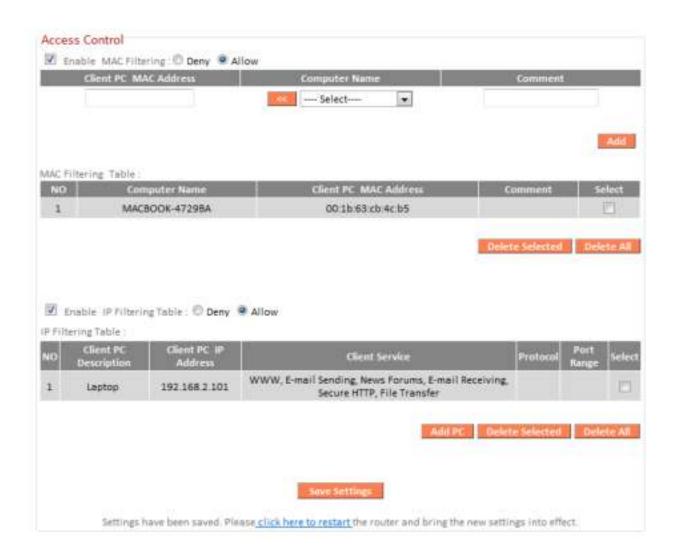


Access Control (MAC filtering) can also be configured from III-3-5-4. Access Control.

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-6208AC. 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.



# MAC Filtering:

Enable MAC Filtering	Check the box to enable MAC filtering and select whether to "Deny" or "Allow" access for specified MAC address.
Client PC MAC Address	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'.
Computer Name	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.
Comment	Enter a comment for reference/identification consisting of up to 16 alphanumerical characters.
Add	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.



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

# IP Filtering:

Enable IP Filtering	Check the box to enable IP filtering and select whether to "Deny" or "Allow" access for specified IP address.
Add PC	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	Laptop		
Client PC IP address	192.168.2.101	1-	

#### Client PC Service:

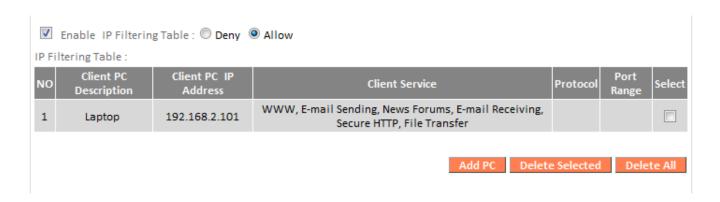
Service Name	Detail Description	Select
www	HTTP, TCP Port 80, 3128, 8000, 8080, 8081	V
E-mail Sending	SMTP, TCP Port 25	V
News Forums	NNTP, TCP Port 119	V
E-mail Receiving	POP3, TCP Port 110	V
Secure HTTP	HTTPS, TCP Port 443	V
File Transfer	FTP, TCP Port 21, 20	V
MSN Messenger	TCP Port 1863	
Telnet Service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

### User Define Service :

Protocol	Both 💌	
Port Range		
	Total Control	1

Client PC Description	Enter a description for reference/identification of up to 16 alphanumeric characters.
Client PC IP address	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.
Service Name	Various services are listed here with a short description. Check/uncheck the box for each service you wish to select.
Protocol	Select protocol "TCP" or "UDP" or "Both" for a service not included in the "Client PC Service" list.
Port Range	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.
Add	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.



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

### III-3-6-3. 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.



Enable DMZ	Check/uncheck the box to enable/disable the device's DMZ function.	
Public	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.	
Client PC	Enter the private IP address that the internet IP address will be mapped to.	
Computer Name	Select a computer name from the list and click "<<" to enter its IP address into the "Client PC" field (above).	
Add	Click "Add" to add the client to the "Current DMZ Table".	

DMZ entries will be displayed in the table shown below:



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

#### III-3-6-4. 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.



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

### III-3-7. 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-6208AC's performance. QoS is recommended to optimize performance for online gaming.

# III-3-7-1. 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.



Total Download Bandwidth	Enter your total download bandwidth limit from your Internet service provider (ISP) in kbits.
Total Upload	Enter your total upload bandwidth limit from
Bandwidth	your Internet service provider (ISP) in kbits.
Add	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	Download <b>▼</b>		kbits	Guarantee	•
Local IP Address		- [			
Local Port Range					
Remote IP Address		-			
Remote Port Range					
Traffic Type	None ▼				
Protocol	TCP ▼				
	Save				

D 1 M	
Rule Name	Enter a name for the QoS rule for
	reference/identification.
Bandwidth	Set the bandwidth limits for the QoS rule:
	Bandwidth: Download V Kbps guarantee V
	(1) (2) (3)
	Select "Download" or "Upload" for the QoS rule.
	2. Enter the bandwidth limit.
	3. Select whether the bandwidth is a "Guarantee" (minimum) or "Max" (maximum).
Local IP Address	Enter the IP address range to which the QoS rule will be applied.
	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.

Local Port Range	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
Remote IP Address	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.
Remote Port Range	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
Traffic Type	Select traffic type as an alternative to
	specifying a port range above.
Protocol	Select a "TCP" or "UDP" protocol type.
Save	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.

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

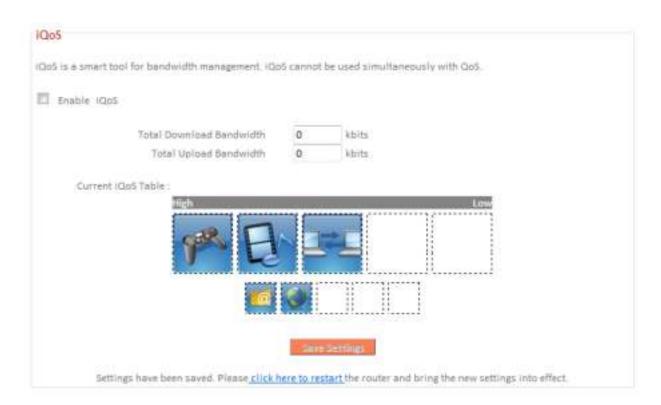
Edit	Edit a selected rule.
Delete Selected/	Delete selected or all entries from the
Delete All	table.
Move Up/Down	Move selected rule up or down the list.

### III-3-7-2. 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.



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.

Total Download Bandwidth	Enter your total download bandwidth limit from your Internet service provider (ISP) in kbits.
<b>Total Upload</b>	Enter your total upload bandwidth limit from
Bandwidth	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-3-8. Advanced



Advanced features of the BR-6208AC can be configured from the "Advanced" menu.

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



<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.
Subnet Mask	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.
Interface	Enter the interface which leads to
	destination network.
Add	Add the route to the current static routing
	table.

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



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

# III-3-8-2. Port Forwarding

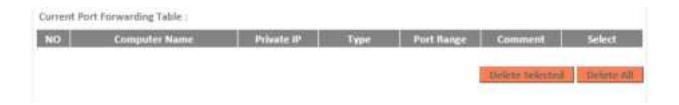
This function allows you to redirect a single port or consecutive ports of an Internet IP address to the same port of a local IP address. The port number(s) of the Internet IP address and local IP address must be the same.

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



Private IP	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.
Туре	Select the type of connection, "TCP", "UDP"
	or "Both".
Port Range	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.
Comment	Enter a comment for reference or
	identification.

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



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

### III-3-8-3. 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.



Private IP	Specify the IP address of the computer on your local network.
Computer Name	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.
Private Port	Specify the private port you wish to use on the computer in your local network.
Туре	Select the type of Internet Protocol.
Public Port	Specify a public port to access the computer on your local network.
Comment	Enter a comment for reference or identification.

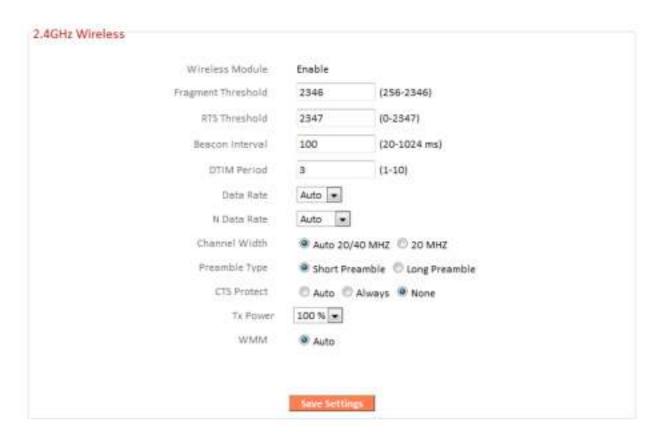
Current Virtual Table entries will be displayed in the table shown below:



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

#### III-3-8-4. 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.



Fragment Threshold	Set the Fragment threshold of the wireless
	radio. The default value is 2346.
RTS Threshold	Set the RTS threshold of the wireless radio.
	The default value is 2347.
Beacon Interval	Set the beacon interval of the wireless radio.
	The default value is 100.
DTIM Period	Set the DTIM period of wireless radio. The
	default value is 3.
Data Rate	Set the wireless data transfer rate. The
	default is set to Auto.
N Data Rate	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.
Preamble Type	Set the wireless radio preamble type. The default value is "Short Preamble".
CTS Protect	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".
Tx Power	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.
WMM	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.

# II-3-8-5. 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.

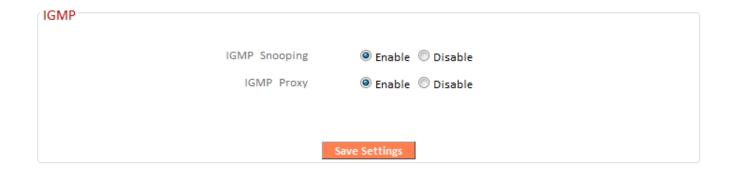
5GHz Wireless	
Wireless Module	Enable
Fragment Threshold	2346 (256-2346)
RTS Threshold	2347 (0-2347)
Beacon Interval	100 (20-1024 ms)
DTIM Period	3 (1-10)
Data Rate	Auto 🔻
N Data Rate	Auto 🔻
Channel Width	② 20/40/80 MHZ    ② 20/40 MHZ    ◎ 20 MHZ
Preamble Type	Short Preamble
CTS Protect	O Auto O Always O None
Tx Power	100 % 🔻
WMM	<ul><li>Auto</li></ul>
	Save Settings

Fragment Threshold	Set the Fragment threshold of the wireless
	radio. The default value is 2346.
RTS Threshold	Set the RTS threshold of the wireless radio.
	The default value is 2347.
Beacon Interval	Set the beacon interval of the wireless radio.
	The default value is 100.
DTIM Period	Set the DTIM period of wireless radio. The
	default value is 3.
Data Rate	Set the wireless data transfer rate. The
	default is set to Auto.
N Data Rate	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.
Preamble Type	Set the wireless radio preamble type. The
	default value is "Short Preamble".

CTC Durate at	
CTS Protect	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".
Tx Power	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.
WMM	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-3-8-6. 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 Snooping	IGMP snooping monitors traffic between hosts and multicast routers to facilitate bandwidth conservation. Select enable or disable.
IGMP Proxy	IGMP proxy enables intelligent multicast forwarding based on IGMP snooping information. Select enable or disable.



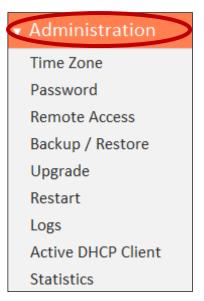
It is recommended to set "IGMP Snooping" and "IGMP Proxy" to "Enable".

### III-3-8-7. 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".



# III-3-9. Administration



Various administrative functions can be accessed from the "Administration" menu.

# III-3-9-1. Time Zone



Set Time Zone	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-3-9-2. 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 <u>II-7. Reset to factory default settings</u> for how to reset the device.



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

# III-3-9-3. Remote Access

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



Host IP Address	Specify the IP address which is allowed remote access.
Port	Specify a port number (0–65535) used for remote access.

## III-3-9-4. Backup/Restore



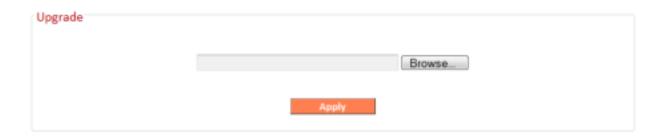
Backup Settings	Click "Save" to save the current settings on your		
	computer as config.bin file.		
<b>Restore Settings</b>	Click "Browse" to find a previously saved		
	config.bin file and then click "Upload" to replace		
	your current settings.		
Restore to	Click "Reset" to restore settings to the factory		
<b>Factory Default</b>	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.		

## III-3-9-5. Upgrade

The upgrade page allows you to upgrade the system firmware to a more recent version. You can download the latest firmware from the Edimax website. 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.



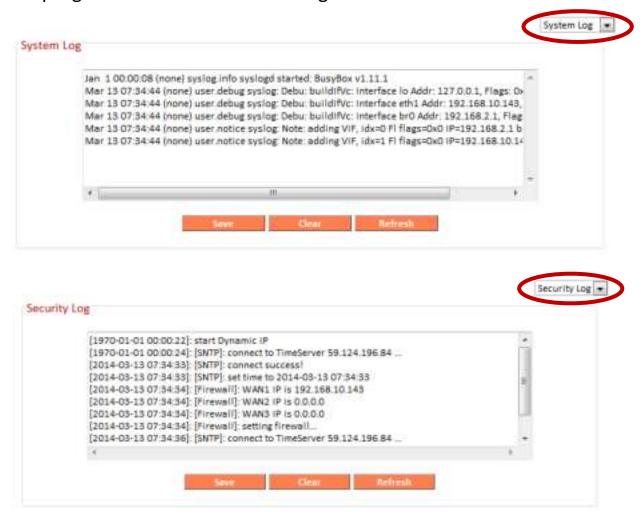
#### III-3-9-6. Restart

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



## III-3-9-7. 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.



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

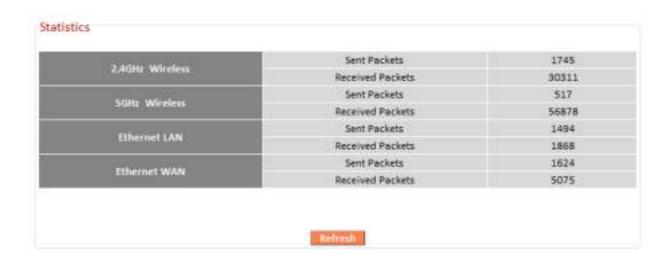
## III-3-9-8. Active DHCP Client

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)		
192.168.2.101	00:1b:63:cb:4c:b5	forever		
Refresh				

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

Displays sent and received packet network statistics.



# IV. Appendix

## 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 <a href="IV-1-1">IV-1-1</a>. 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-6208AC in order to access *http://edimax.setup*.



 $oldsymbol{oldsymbol{eta}}_{oldsymbol{\mathsf{L}}}$  The BR-6208AC'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 <a href="III-3-4">III-3-4</a>. LAN</a>). Then you can access the URL <a href="http://edimax.setup">http://edimax.setup</a> in future without modifying your IP address.



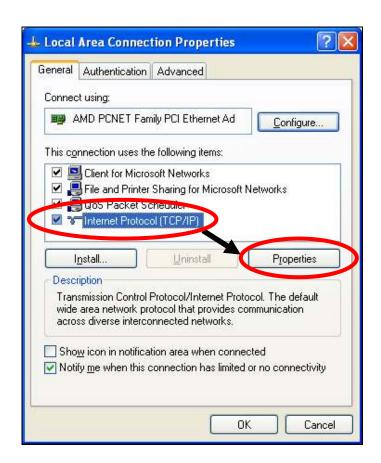
Please remember to change your IP address back to its original value after the device is properly configured.

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

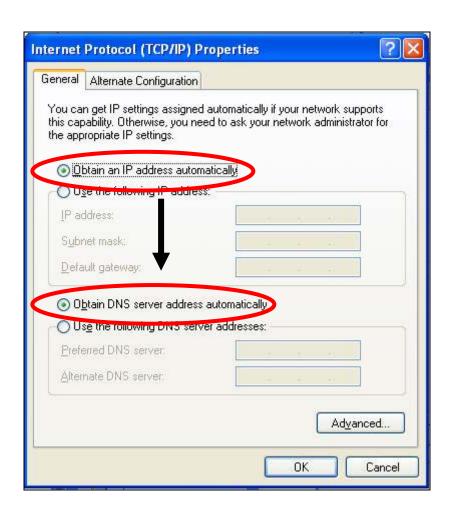
Please follow the instructions appropriate for your operating system.

#### 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".

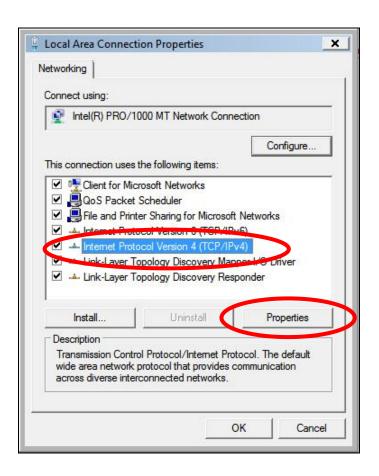


**2.** "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.

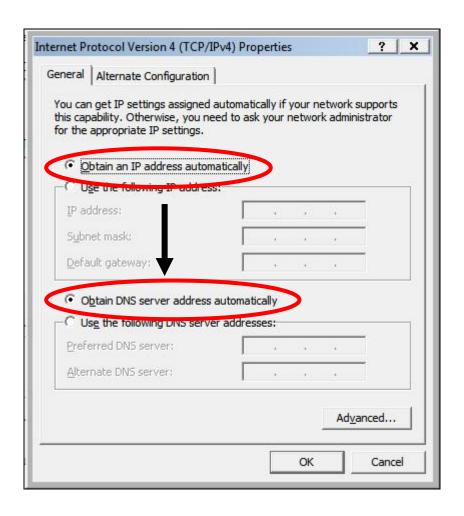


## IV-1-1-2. Windows Vista

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".

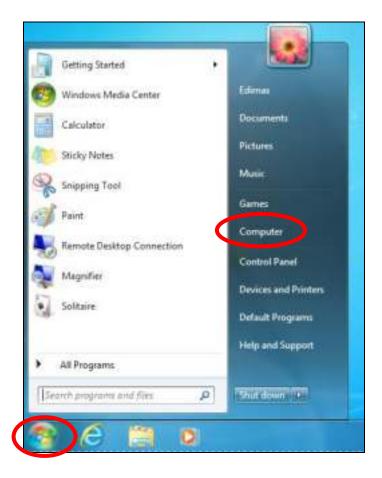


**2.** Select "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.



## 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".

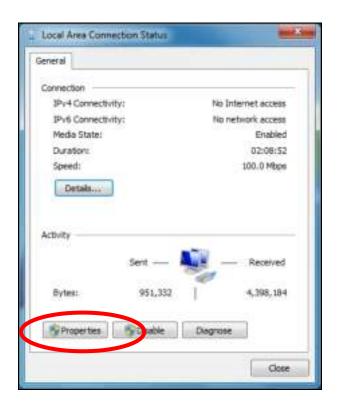


**3.** Click "Local Area Connection".

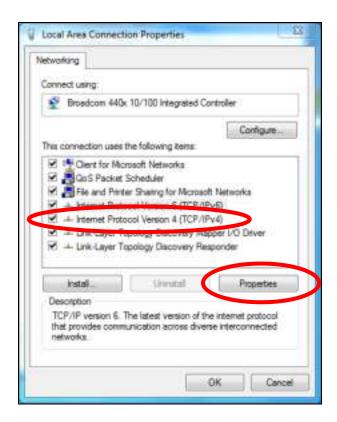
## View your basic network information and set up connections



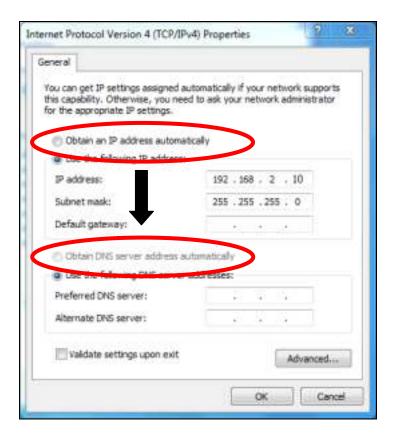
## **4.** Click "Properties".



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

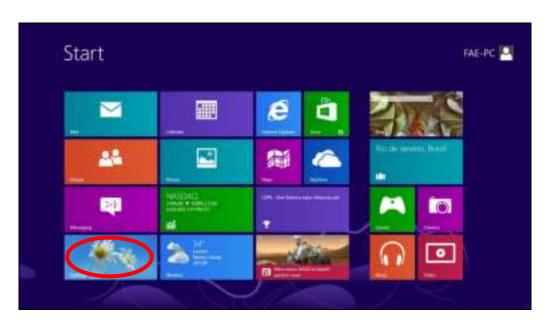


**6.** Select "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.

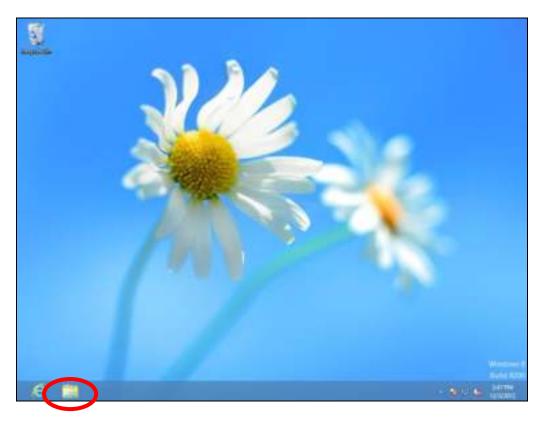


## IV-1-1-4. Windows 8

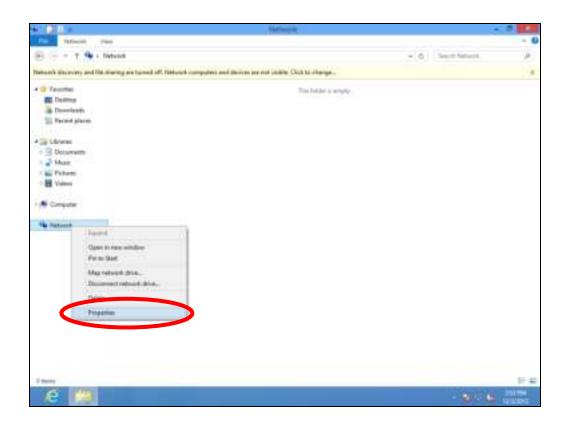
**1.** From the Windows 8 Start screen, you need to switch to desktop mode. Move your curser to the bottom left of the screen and click.



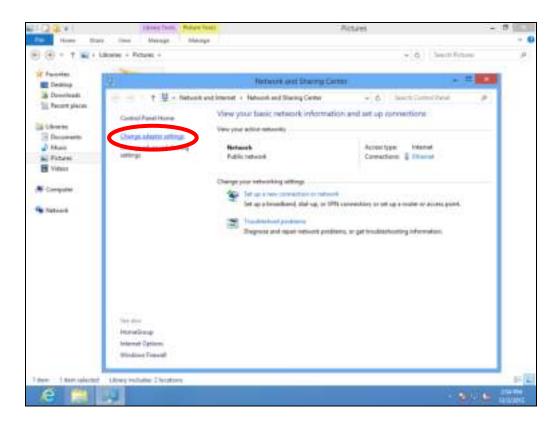
**2.** In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.



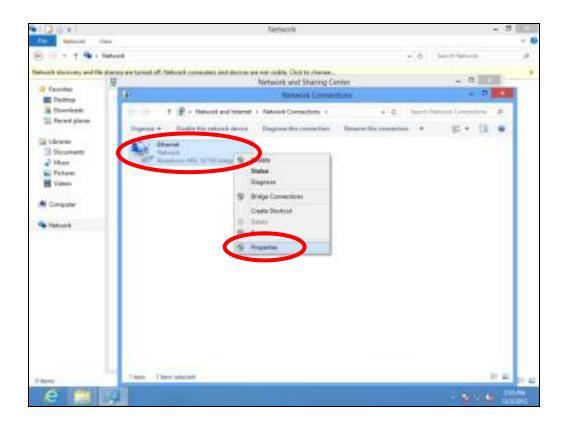
**3.** Right click "Network" and then select "Properties".



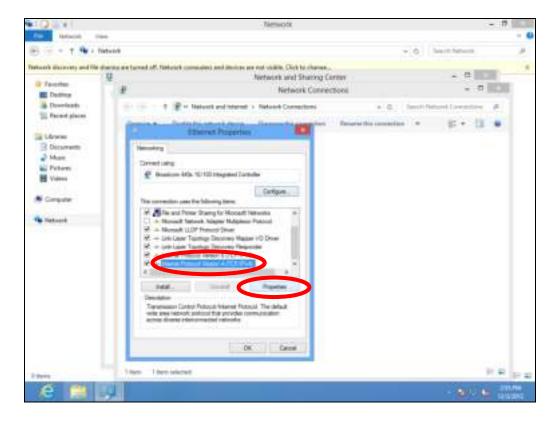
**4.** In the window that opens, select "Change adapter settings" from the left side.



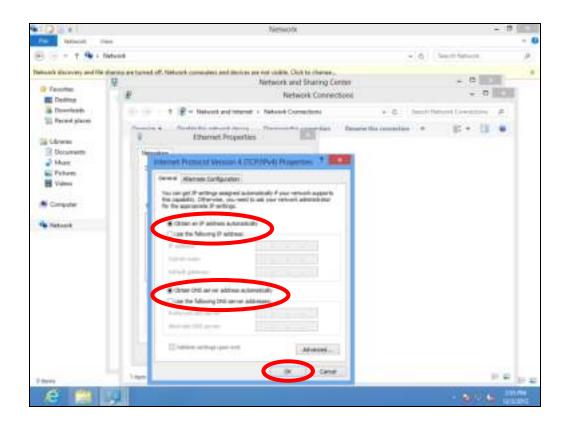
**5.** Choose your connection and right click, then select "Properties".



**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

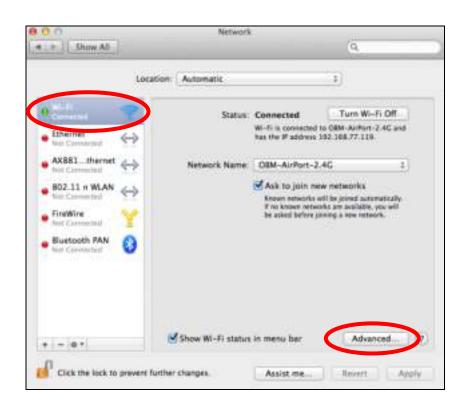
**1.** Have your Macintosh computer operate as usual, and click on "System Preferences".



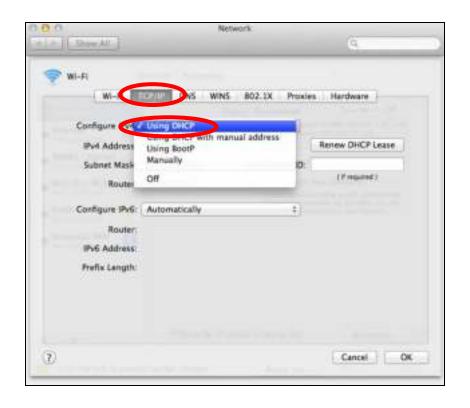
2. In System Preferences, click on "Network".



**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

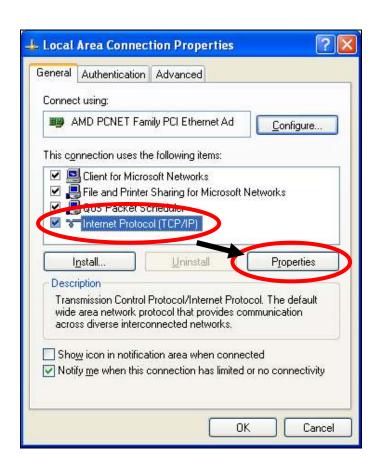
Please follow the instructions appropriate for your operating system. In the following examples we use the IP address **192.168.2.10** though you can use any IP address in the range **192.168.2.x** (x = 3 - 254) in order to access iQ Setup/browser based configuration interface.



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.

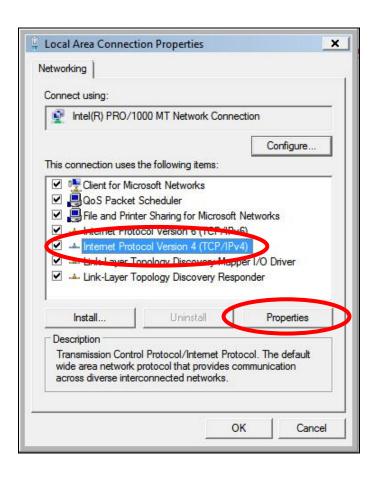
**IP address**: 192.168.2.10 **Subnet Mask**: 255.255.255.0

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" k 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

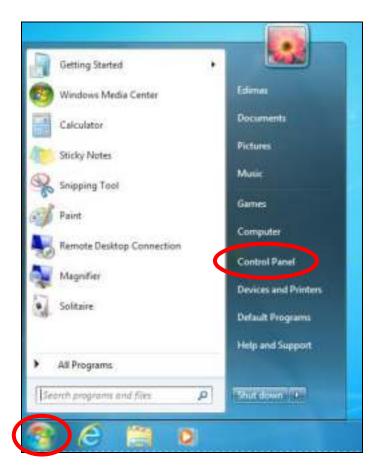
**Subnet Mask**: 255.255.255.0

Preferred DNS Server: 192.168.2.1

Click 'OK' when finished.

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

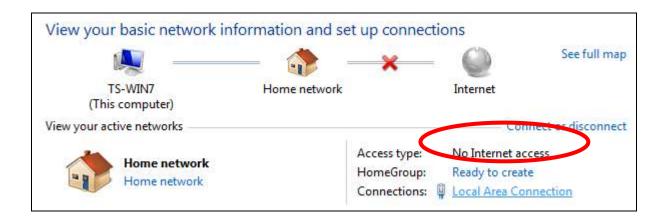
1. Click the "Start" button (it should be located in the lower-left corner of your computer), then click "Control Panel".



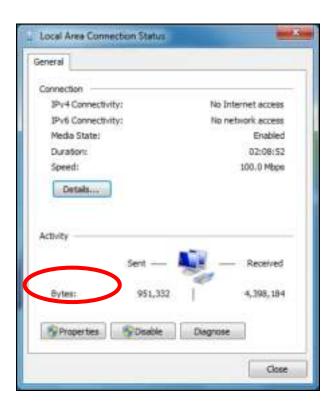
2. Under "Network and Internet" click "View network status and tasks".



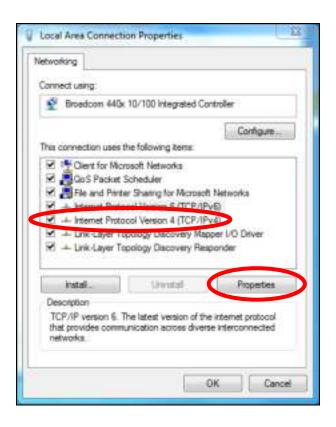
## **3.**Click "Local Area Connection".



## **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

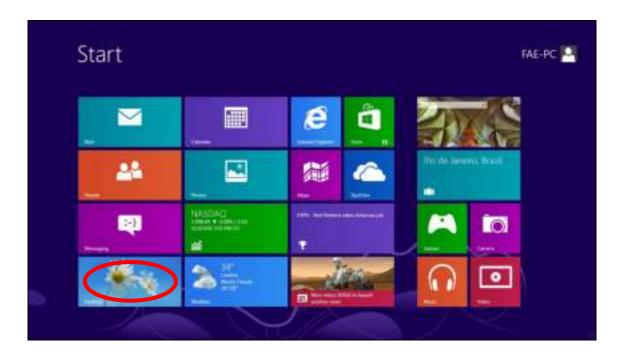
**Subnet Mask**: 255.255.255.0

Preferred DNS Server: 192.168.2.1

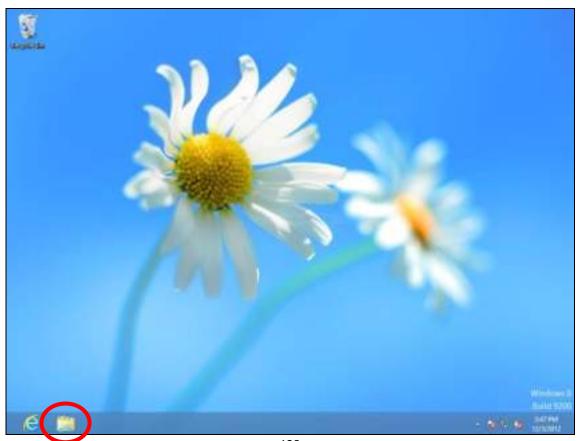
Click 'OK' when finished.

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

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

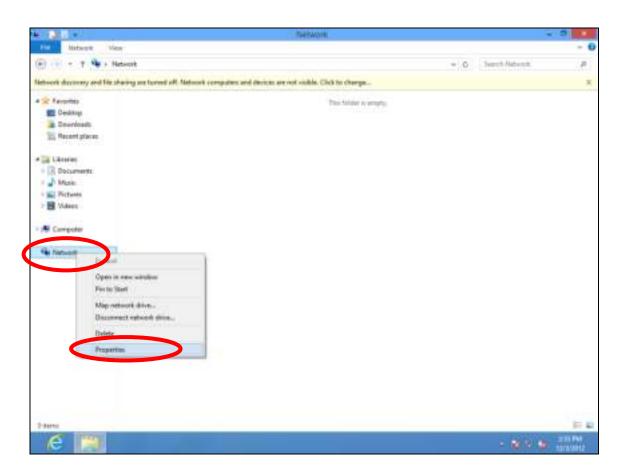


**2.** In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.

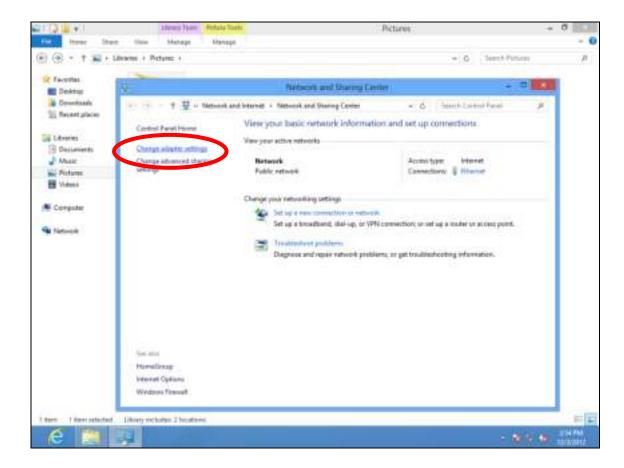


128

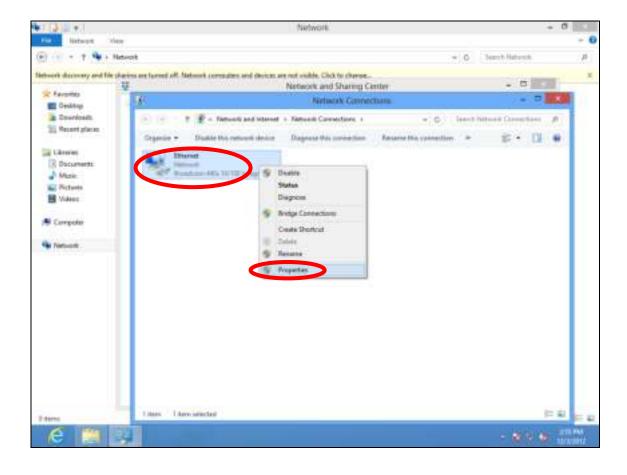
**3.** Right click "Network" and then select "Properties".



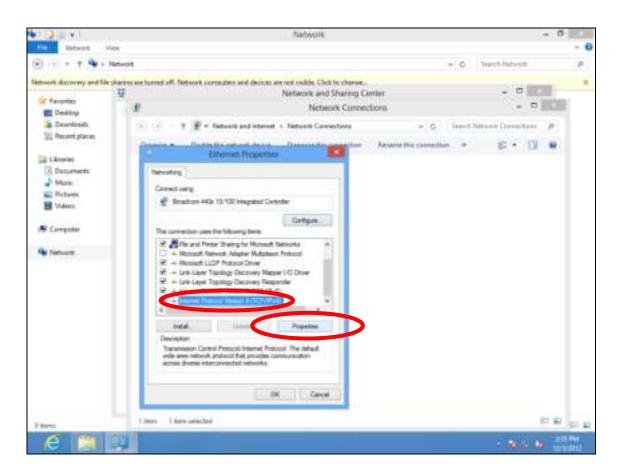
**4.** In the window that opens, select "Change adapter settings" from the left side.



**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"



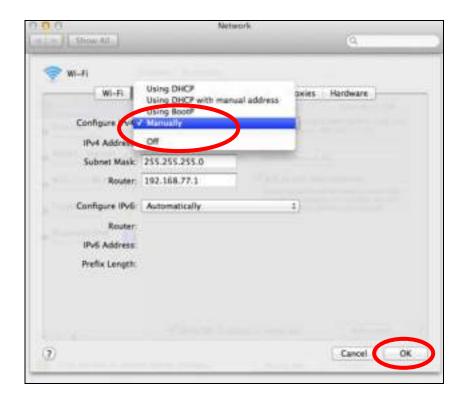
2. In System Preferences, click on "Network".



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



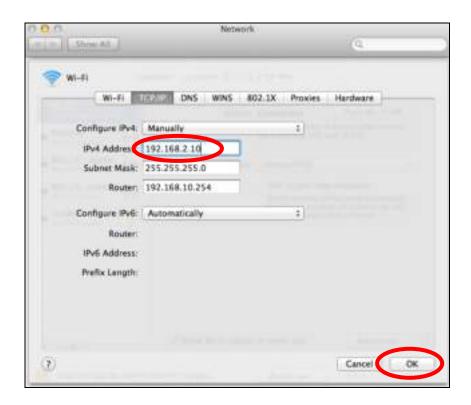
**4.** Select "TCP/IP" from the top menu and select "Manually" from the drop down menu labeled "Configure IPv4", then click "OK".



4

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

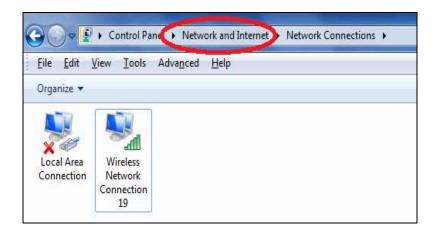
To find your network security key, please follow the instructions appropriate for your operating system.



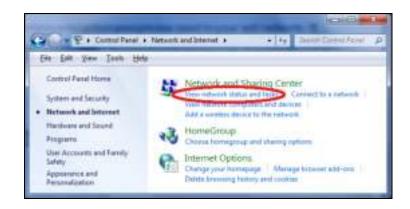
If you are using Windows XP or earlier, please contact your ISP or router manufacturer to find your network security key.

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

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



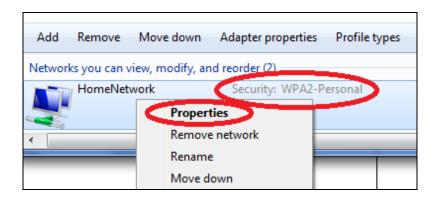
**2.** Click on "View network status and tasks" which is under the heading "Network and Sharing Center".



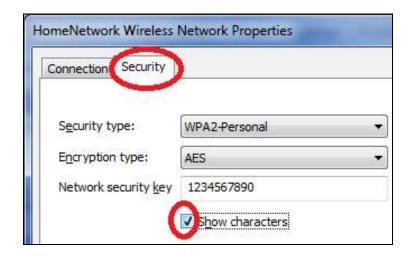
**3.** Click on "Manage wireless networks" in the left menu.



**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".

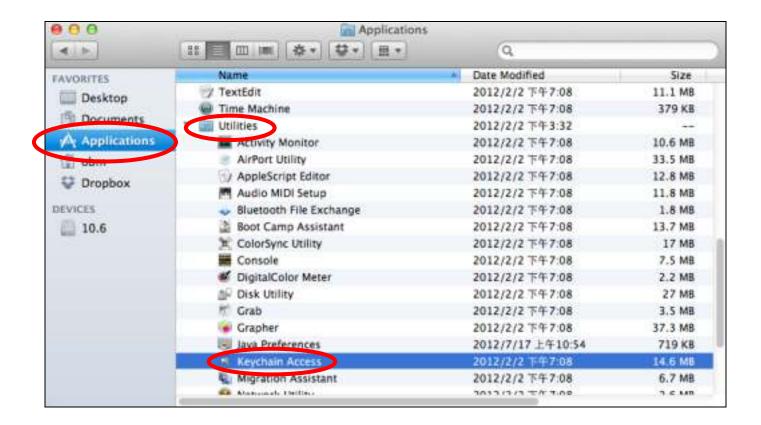


**5.**Click on the "Security" tab, and then check the box labeled "Show characters". This will show your network security key. Click the "Cancel" button to close the window.

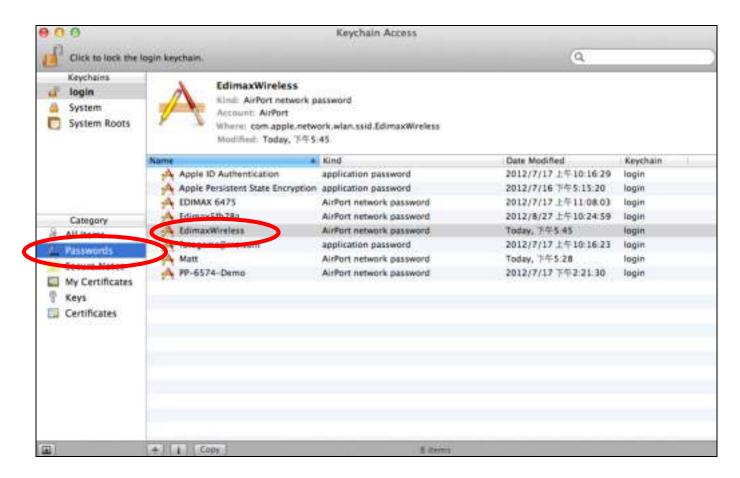


#### IV-1-3-2. Mac

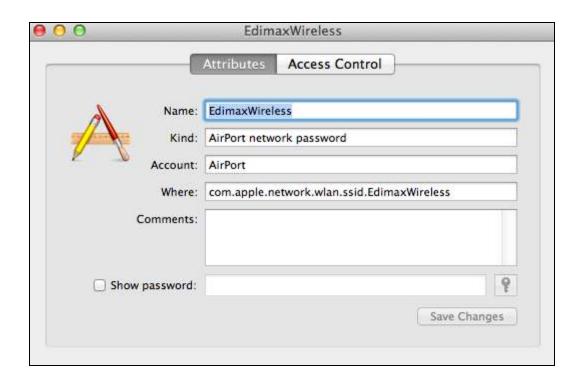
**1.** Open a new Finder window, and select "Applications" from the menu on the left side. Open the folder labeled "Utilities" and then open the application "Keychain Access".



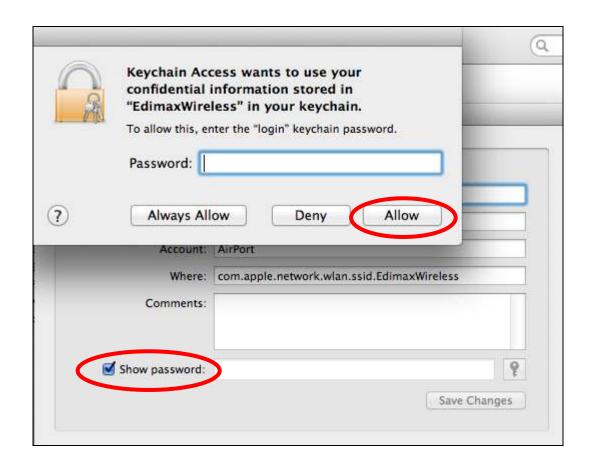
2. Select "Passwords" from the sub-menu labeled "Category" on the left side, as shown below. Then search the list in the main panel for the SSID of your network. In this example, the SSID is "EdimaxWireless" – though your SSID will be unique to your network.



**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.

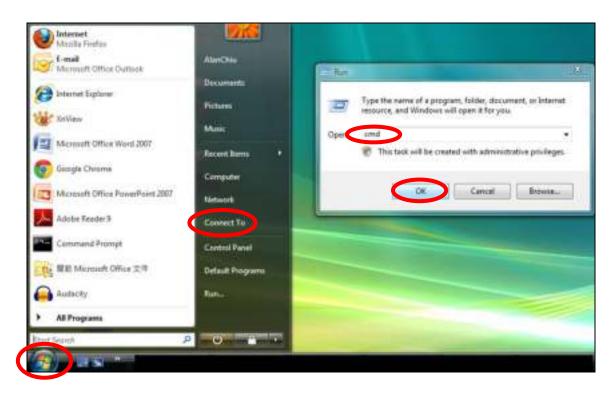


## IV-1-4. How to Find Your Router's IP Address

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.

```
Microsoft Windows [Version 6.8.6892]
Copyright (c) 2886 Microsoft Corporation. All rights reserved.

Ct Visers AlanCh (n) ipconfig
```

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

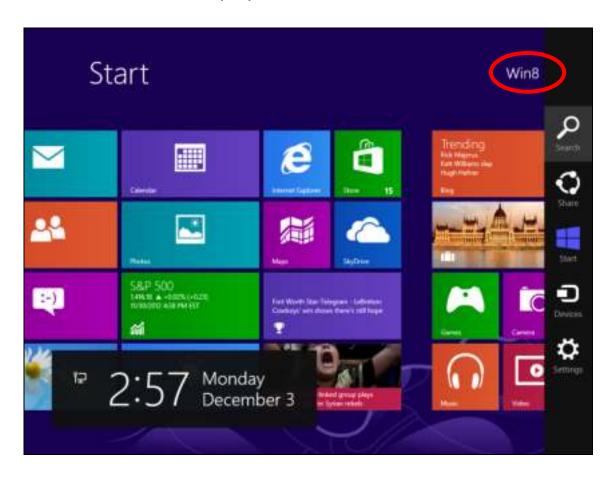
```
Ethernot adapter 區域遊游:

Connection-specific DNS Suffix :
Link-local IPv6 Address . . : fe88::4cdc:3e98:ba56:1722x9
IPv4 Address . . . : fe88::4cdc:3e98:ba56:1722x9
IPv4 Address . . . : 192.168.18.14
Shoret Bask . . . . : 255.255.255.8
Default Gateway . . . : fe88::4cdc:3e98:ba56:1722x9
IPv4 Address . . . : 192.168.18.14

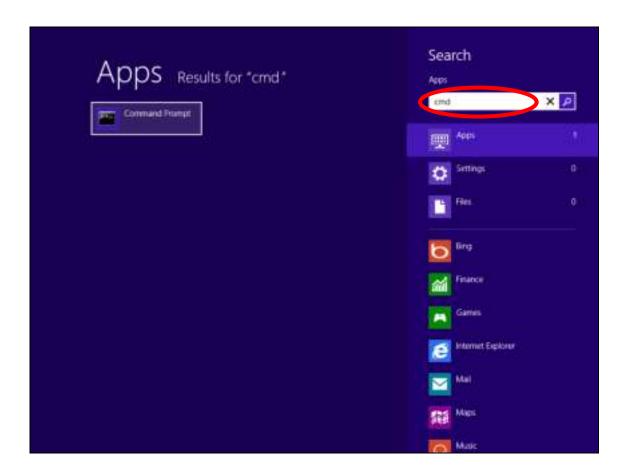
Shoret Bask . . . . : fe88::4cdc:3e98:ba56:1722x9
IPv4 Address . . : fe88::4cdc:3e98:ba56:172x9
IPv4 Address . :
```

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

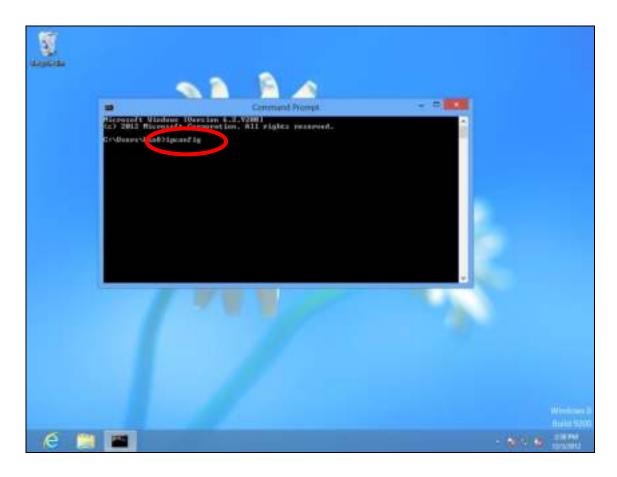
**1.** From the Windows 8 Start screen, move your curser to the top right corner of the screen to display the Charms bar.



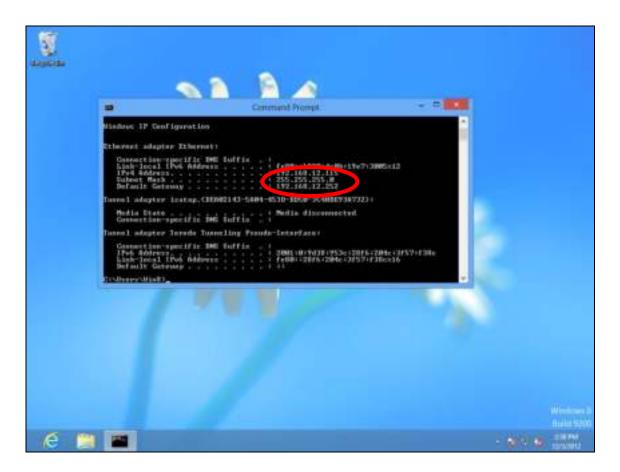
**2.** Click "Search" and enter "cmd" into the search bar. Click the "Command Prompt" app which be displayed on the left side.



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

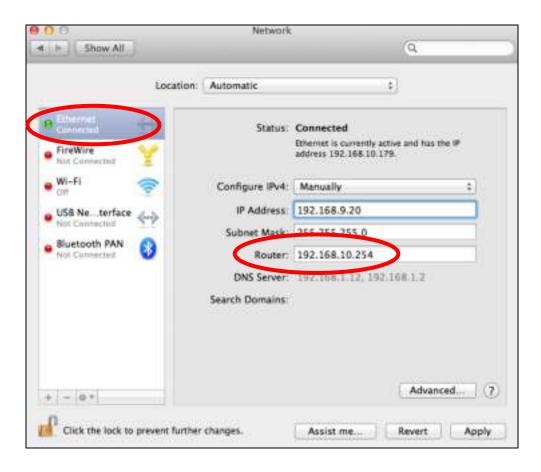


**4.** Your router's IP address will be displayed next to "Default Gateway".

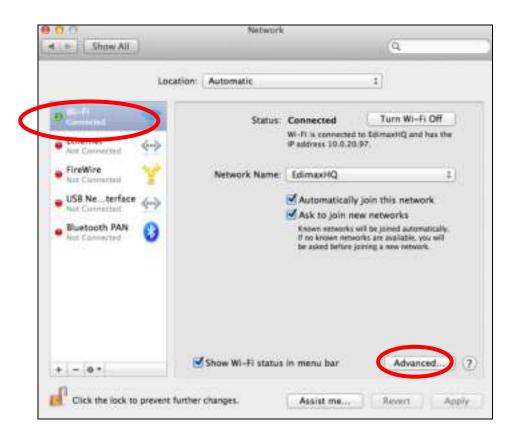


#### IV-1-4-3. Mac

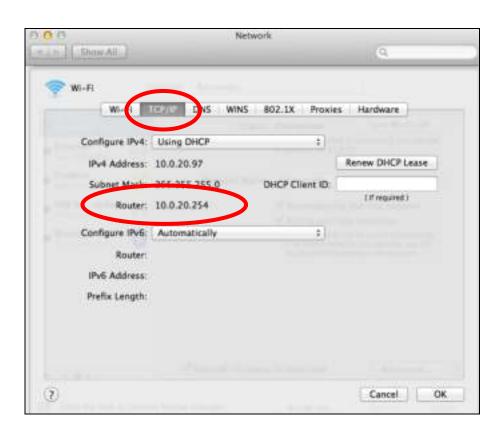
- **1.** Launch "System Preferences" and click on "Network".
- 2. If you are using an Ethernet cable to connect to your network, your router's IP address will be displayed next to "Router".



**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".



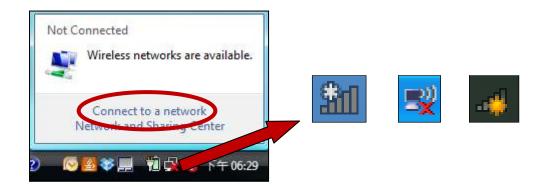
# IV-2. Connecting to a Wi-Fi network

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:

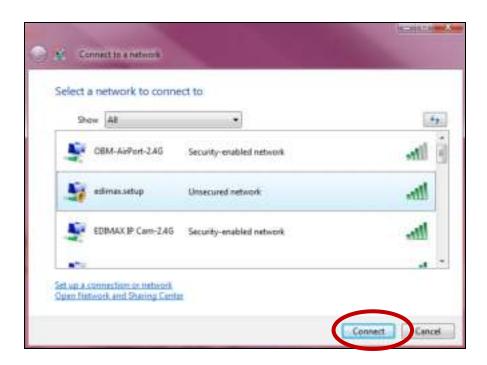


Below is an example of how to connect using Windows Vista – the process may vary slightly for other versions of Windows.

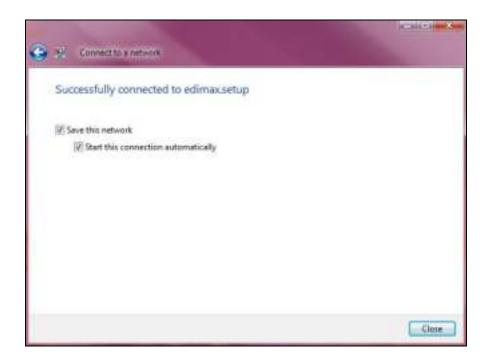
1. Click the network icon (■, Morse) in the system tray and select "Connect to a network".



**2.** Search for the SSID of your BR-6208AC 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-6208AC's wireless network.



## IV-3. Troubleshooting

# 1. In range extender mode, is my BR-6208AC dual-band?

a. Yes. The BR-6208AC can extend 2.4GHz & 5GHz Wi-Fi signals concurrently, but you must connect your BR-6208AC to each (2.4GHz & 5GHz) network separately during iQ setup. During iQ Setup, you will be asked to select both a 2.4GHz & 5GHz Wi-Fi network to extend, as well as specify a new SSID (name) and password for each of the networks that your BR-6208AC's will broadcast/extend.



You can disable either 2.4GHz or 5GHz Wi-Fi during iQ setup if there is no appropriate source network available, or if you do not wish to use it. If either the 2.4GHz or 5GHz frequency band is disabled, wireless clients/devices on the same frequency band will be unable to connect to your range extender.

# 2. In range extender mode, if my BR-6208AC is set up as a dual-band extender, what happens when I connect a wired Ethernet client?

a. When you connect a network device to your BR-6208AC in range extender mode via Ethernet cable, by default the network device will connect to the 5GHz network. If there is no 5GHz network available, the network device will connect to the 2.4GHz network instead.

# 3. In range extender mode, how do I connect to a network which has a hidden SSID?

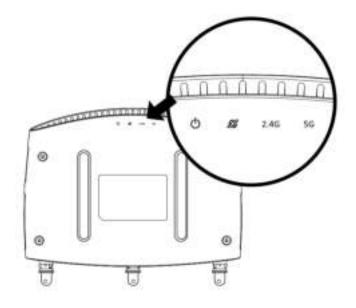
a. During iQ Setup, you can manually enter a SSID in the "Wi-Fi network name" field as shown below, for either/both 2.4GHz and 5GHz, along with the relevant encryption information.



Wi-Fi network name	Enter the SSID (network name) of your existing,		
	hidden network.		
Range extender SSID	Enter an SSID for the BR-6208AC or leave it blank		
	to use a default which consists of your existing		
	router's SSID (above) +"_2EX".		
Encryption	Select and enter the encryption information for		
	your existing, hidden network.		

# 4. What do the LEDs mean?

The LEDs can be identified by icons on the underside of the BR-6208AC.



LED	Color	LED Status	Description
Power	\4/b:+o	On	BR-6208AC is on.
Ф	White	Off	BR-6208AC is off.
Internet		On	Internet connection is ready.
<b>S</b>	Blue	Flashing	Factory default state, or Ethernet cable not connected, or no Internet connection.
2.4GHz Wi-Fi	Blue	On	2.4GHz Wi-Fi wireless activity (transferring/receiving data).
•		Flashing	2.4GHz WPS is active.
		Off	2.4GHz Wi-Fi not active.
5GHz Wi-Fi	GHz Wi-Fi Blue		5GHz Wi-Fi wireless activity (transferring/receiving data).
8	Blue	Flashing	5GHz WPS is active.
12.00 pt		Off	5GHz Wi-Fi not active.

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

- a. Ensure that all cables are connected properly. Try a different Ethernet cable.
- b. Check if you can access the web based configuration interface. If not, please ensure your Wi-Fi device is set to use a dynamic IP address. If you are unsure how to do this, try using a computer and refer to the user manual for guidance.
- c. 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).
- d. Connect a 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.

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

a. Please ensure your Wi-Fi device is set to use a dynamic IP address. If you are unsure how to do this, try using a computer and refer to <a href="IV-1-1">IV-1-1</a>. How to check that your computer uses a dynamic IP address.

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

a. To reset the device back to its factory default settings, press and hold the WPS/Reset button for over 10 seconds, until the white power 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 bottom of the device, as shown below:



MAC:801F02BB977F PIN CODE:58484470

Router Login	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.	
Username/Password	This is the default username and password to	
	access the browser based configuration interface	
	when you go to the "Router Login" URL (above).	
Wi-Fi Network	This is the default Wi-Fi network name for the	
Name	device. Search for this name (SSID) and connect to	
	it in order to access the "Router Login" URL	
	(above).	
MAC	A MAC address is unique to every device and is	
	used for identification within a network. Your	
	device's unique MAC address is displayed here.	
PIN CODE	This is your device's PIN code for Wi-Fi Protected	
	Setup (WPS).	

# 8. I forgot my password.

a. 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 bottom of the device, as shown above.

# 9. My BR-6208AC has a weak wireless signal.

Weak signals are usually caused by interference from other devices or obstacles blocking the BR-6208AC's wireless signal:

- a. Keep the device away from other radio devices such as microwaves or cordless phones.
- b. Do not put the device in the corner of a room or under/nearby metal.
- c. Ensure there are as few obstacles as possible between the BR-6208AC and your wireless network device.

In range extender mode, the BR-6208AC's weak wireless signal may be in turn caused by a weak signal from your existing router. It's important to choose a good location for the BR-6208AC in relation to your existing wireless router. The best location is roughly in the middle between your existing wireless router and the area you would like to be covered by the BR-6208AC. If you are too far away from your existing router, then it is difficult for the BR-6208AC to receive a wireless signal.

# 10.Do the Internet and LAN ports work the same when the device is in different modes?

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

- a. In *Wi-Fi router* mode, the *Internet port* is for a direct connection to your xDSL modem. The *LAN ports* are for wired network clients.
- b. In *access point* mode, the *Internet port* is not functional. Connect your existing router to the device's *LAN port*, and the other *LAN ports* can connect wired network clients.
- c. In *range extender* mode, the *Internet port* is not functional and the all of *LAN ports* are for wired network clients. Do not connect your existing router to the device's *Internet* or *LAN ports*, as this can cause the device to malfunction.
- d. In *wireless bridge* mode, the *Internet port* is not functional and the all of *LAN ports* are for wired network clients.
- e. In **WISP** mode, the **Internet port** is not functional and the all of **LAN ports** are for wired network clients.

# 11. A firmware upgrade failed and the BR-6208AC isn't working.

Firmware upgrade failures can happen occasionally due to power cuts or unstable connections. In this scenario, you need to first connect a computer to one of your BR-6208AC's LAN ports using an Ethernet cable. Then you need to modify your computer's IP address to **192.168.2.x** where **x** is any value between **3** and **254**. Refer to IV-1-2. How to modify the IP address of your computer if you

need guidance to do so.

From there, you need to go to 192.168.2.1 in a web browser, and you will see the page below:

# Firmware Recovery Mode Please select the correct firmware file than click Upload once and wait for the next screen to display that the upgrade is in progress. Browse... Upload

Click "Browse" to locate the firmware file on your computer and then click "Upload" to upload the new firmware. It may take several minutes to complete, please wait and follow the instructions on screen.

# 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.Broadbandaccess point.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 "Broadbandaccess point.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.

**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	ТСР	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	ТСР	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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#### **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.

#### Federal Communications Commission (FCC) RF Exposure Requirements

This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C. The equipment version marketed in US is restricted to usage of the channels 1-11 only.

#### **R&TTE Compliance Statement**

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

#### 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 1999/5/EC, 2009/125/EC.

Français: Cet équipement est conforme aux exigences essentielles et autres dispositions de la

directive 1999/5/CE, 2009/125/CE.

**Čeština:** Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními

směrnic 1999/5/ES, 2009/125/ES.

Polski: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami

określonymi Dyrektywą UE 1999/5/EC, 2009/125/EC.

Română: Acest echipament este în conformitate cu cerințele esențiale și alte prevederi relevante ale

Directivei 1999/5/CE, 2009/125/CE.

Русский: Это оборудование соответствует основным требованиям и положениям Директивы

1999/5/EC, 2009/125/EC.

Magyar: Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek

(1999/5/EK, 2009/125/EC).

**Türkçe:** Bu cihaz 1999/5/EC, 2009/125/EC direktifleri zorunlu istekler ve diğer hükümlerle ile

uyumludur.

Українська: Обладнання відповідає вимогам і умовам директиви 1999/5/ЕС, 2009/125/ЕС.

Slovenčina: Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc

1999/5/ES, 2009/125/ES.

**Deutsch:** Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 1999/5/EC, 2009/125/EC.

**Español:** El presente equipo cumple los requisitos esenciales de la Directiva 1999/5/EC,

2009/125/EC.

Italiano: Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili

della Direttiva 1999/5/CE, 2009/125/CE.

Nederlands: Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen

van richtlijn 1999/5/EC, 2009/125/EC.

**Português:** Este equipamento cumpre os requesitos essênciais da Directiva 1999/5/EC, 2009/125/EC.

**Norsk:** Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv

1999/5/EC, 2009/125/EC.

Svenska: Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta

bestämmelser i direktiv 1999/5/EG, 2009/125/EG.

**Dansk:** Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante

forordninger i direktiv 1999/5/EC, 2009/125/EC.

Suomi: Tämä laite täyttää direktiivien 1999/5/EY, 2009/125/EY oleelliset vaatimukset ja muut

asiaankuuluvat määräykset.



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#### **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 R&TTE directives.

**Equipment: AC750 Multi-Function Dual-Band Wi-Fi Router** 

Model No.: BR-6208AC

The following European standards for essential requirements have been followed:

#### Directives 1999/5/EC

Spectrum : ETSI EN 300 328 V1.8.1 (2012-06);

ETSI EN 301 893 V1.7.1 (2012-06)

EMC : EN 301 489-1 V1.9.2 (2011-09);

EN 301 489-17 V2.2.1 (2012-09);

Safety (LVD) : IEC 60950-1:2005 (2<sup>nd</sup> Edition);Am 1:2009

EN 60950-1:2006+A11:2009+A1:2010+A12:2011

#### Recommendation 19 99/5/EC

EMF : EN 62311:2008

#### Directives 2006/95/EC

Safety (LVD) : IEC 60950-1:2005 (2<sup>nd</sup> Edition);Am 1:2009

EN 60950-1:2006+A11:2009+A1:2010+A12:2011

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Date of Signature: March, 2014

Signature:

Printed Name: Albert Chang

Title: Director

Edimax Technology Co., Ltd.

