

BR-6258n

User Manual

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The product you have purchased and the setup screen may appear slightly different from those shown in this QIG. For more information about this product, please refer to the user manual on the CD-ROM. The software and specifications are subject to change without notice. Please visit our website www.edimax.com for updates. All brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

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CHAPTER I: PRODUCT INFORMATION

1-1 Introduction and Safety Information

Thank you for purchasing the Edimax BR-6258n Wireless Broadband Nano Router! This miniature router is the ideal choice for anyone who is constantly on the go. With the Edimax BR-6258n Wireless Broadband Nano Router, all your computers and network devices can share a single, high-speed xDSL/cable Internet connection. Its easy installation procedure also allows any computer user to set up a network environment in a matter of minutes.

With built-in IEEE 802.11b/g/n wireless network capability, all your computers and wireless-enabled network devices (PDAs, cell phones, game consoles, etc.) can be connected to this broadband router without additional cabling. Its IEEE 802.11n capability also allows you to enjoy the fastest wireless experience ever! With a compatible wireless card installed, your PC can transfer files at up to 150Mbps!

The Edimax BR-6258n Wireless Broadband Nano Router makes setting up wireless security a breeze. With the WPS (Wi-Fi Protected Setup) function, you can set up wireless security in just seconds! Just press the WPS button on WPS-compatible wireless devices and you will have a secure wireless connection in no time.

Other features:

- High throughput Internet access
- 1 LAN port (10/100M) and 1 WAN port (10/100M)
- IEEE 802.11b/g/n WLAN capable
- Supports DHCP (server/client) for easy client IP-address setup
- Advanced network and security features like DMZ, virtual servers, access control, firewall, and other special applications
- Allows you to monitor the DHCP client log, system log, security log, and device/connection status
- Easy-to-use, web-based GUI for network configuration and management
- Remote management
- Auto-MDI/MDI-X function

1-2 Safety Information

Please follow the following safety instructions to ensure your safety:

1. This router is designed for indoor use only. DO NOT place this router outdoors.
2. DO NOT put this router in or near hot or humid places like the kitchen, bathroom, or a car parked in the sun.
3. Disconnect any connected cables from the router before pulling the router with force.
4. If you want to hang this router on the wall or place it somewhere high, please make sure it is firmly secured. Edimax's warranty does not cover damages caused by misuse.
5. Please keep this router and its accessories out of the reach of children.
6. DO NOT put this router on paper, cloth, or other flammable materials.
7. DO NOT disassemble this router. Disassembling this router will invalidate the warranty. Please contact your dealer if you experience any problems.
8. If this router gets wet or falls into water when it is powered, DO NOT touch it with your bare hands. Disconnect the power plug from the wall socket immediately, or contact an experienced technician for help.
9. Should your router or power supply overheat and burn out, switch the electrical power off or disconnect the power plug from the wall socket immediately, and call your dealer for help.

1-3 System Requirements

- Internet connection via an xDSL or cable modem with an RJ-45 Ethernet port
- Computer or network devices with a wired or wireless network interface card
- Web browser (Microsoft Internet Explorer, Mozilla Firefox, Opera, or Safari)
- An available AC power socket (100-240V, 50/60Hz)

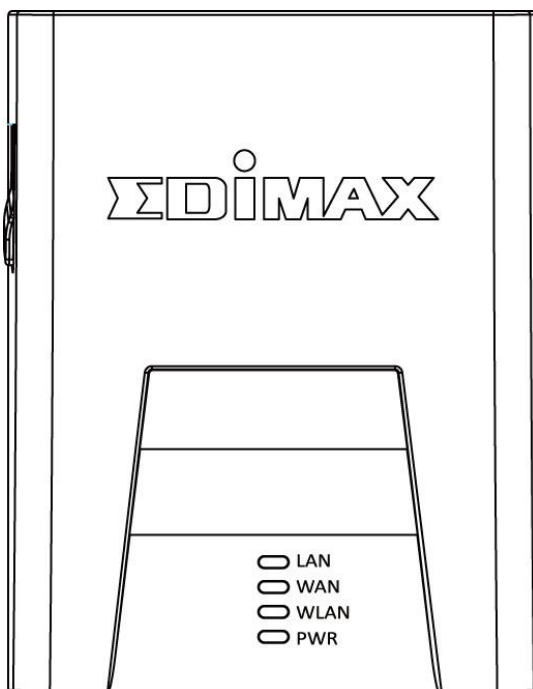
1-4 Package Contents

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

- BR-6258n broadband router (1 pcs)
- Quick installation guide (1 pcs)
- CDROM with multi-language setup wizard, multi-language quick installation guide, and user manual (1pcs)
- 5V 1A USB power adapter (1 pcs)
- Ethernet cable (1 pcs)
- USB cable (1 pcs)

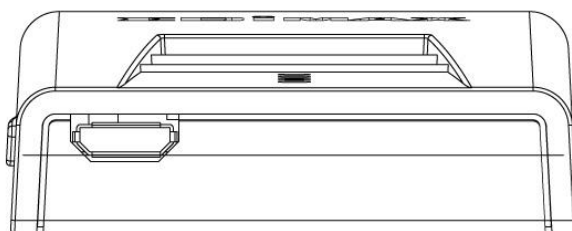
1-5 Getting familiar with your new wireless broadband router

Top Panel



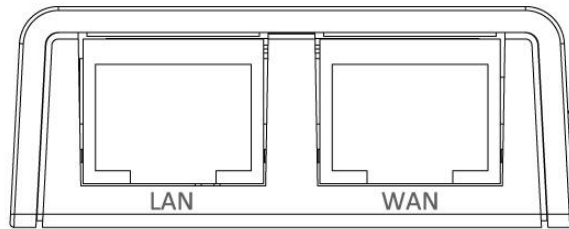
LED Name	Light Status	Description
PWR	On	Router switched on and correctly powered
	Off	Router not powered (or not correctly powered)
WLAN	On	Wireless connectivity activated
	Off	Wireless connectivity not activated
	Flashing	Wireless LAN activity (transferring data) or WPS mode activated (LED flashes once every second)
WAN	On	WAN port connected
	Off	WAN port not connected
	Flashing	WAN activity (transferring data)
LAN	On	LAN port connected
	Off	LAN port not connected
	Flashing	LAN activity (transferring data)

Front Panel



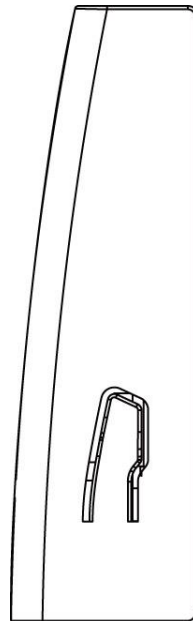
Item Name	Description
Micro-USB Port	Connects to USB power adapter or computer via USB cable

Back Panel



Item Name	Description
LAN Port	Connects to computer or other web devices
WAN Port	Connects to cable/xDSL modems

Side Panel



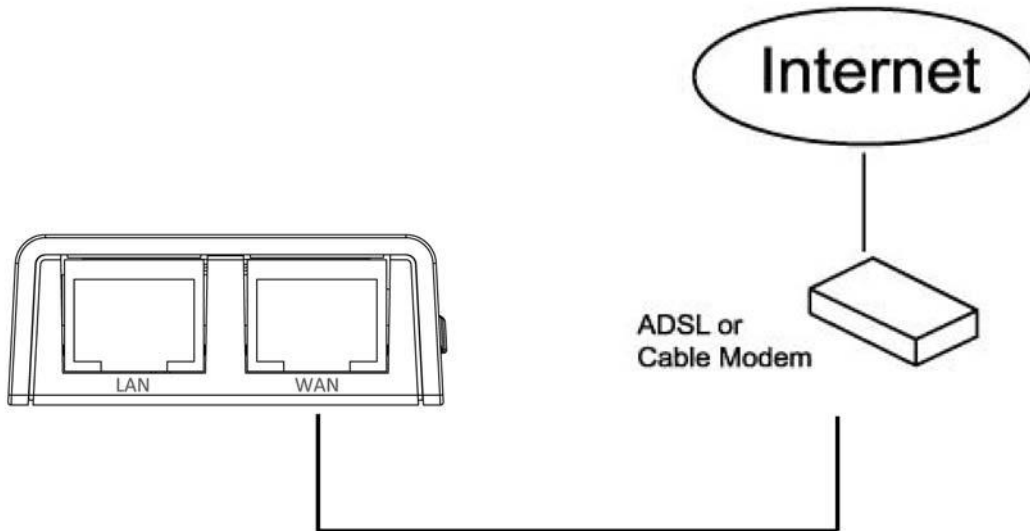
Item Name	Description
Reset/WPS Button	Resets the router to factory default settings or starts WPS function (press this button and hold for 10 seconds to clear all settings or press this button for less than 10 seconds to activate WPS function)

CHAPTER II: SYSTEM AND NETWORK SETUP

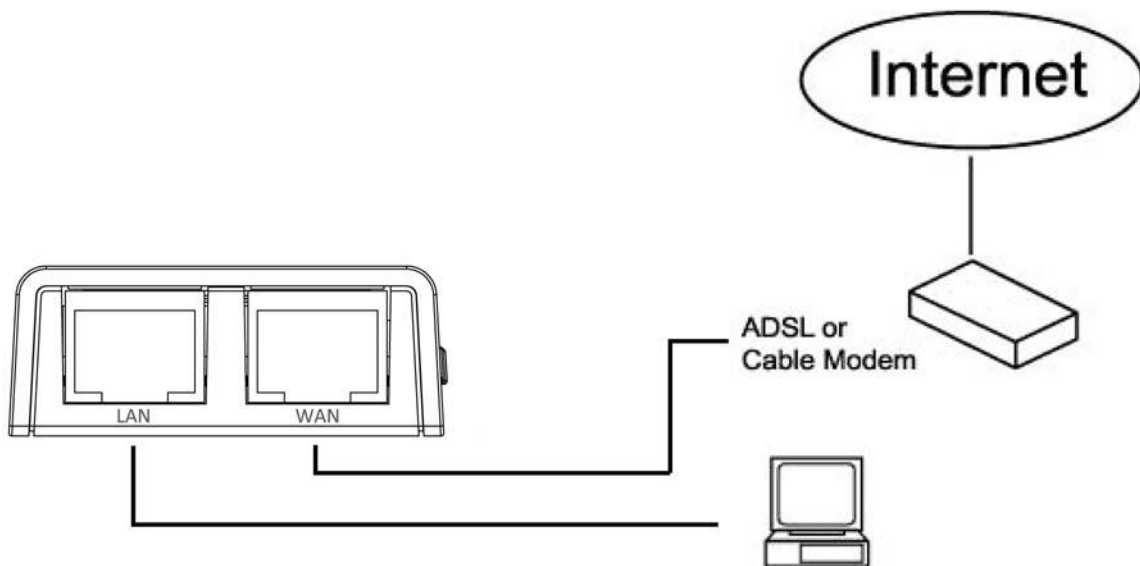
2-1 Establishing a network connection

Please follow the following instructions to build a network connection between your new broadband router, computers, and other network devices:

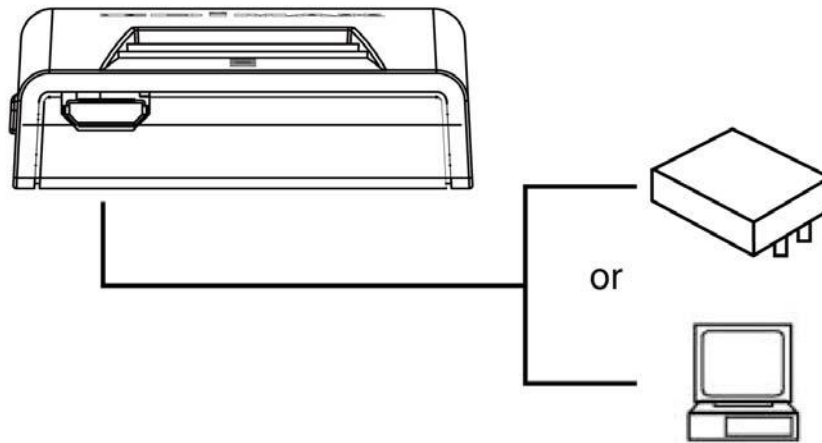
1. Connect your xDSL or cable modem to the “WAN” port with an Ethernet cable.



2. Connect your computer to the “LAN” port.



3. You can power this router through either a computer or a wall socket. To power the router through a computer, connect the USB cable to the micro-USB port on the front panel, and then connect the cable to a computer. Use the USB power adapter to power the router through a wall socket.



4. Please check all the LEDs on the top panel. The “PWR” and “WAN” LEDs should be on. The “LAN” LED should be on if the computer is connected and correctly powered. If you encounter any problems, please make sure that all your devices are connected and powered correctly.

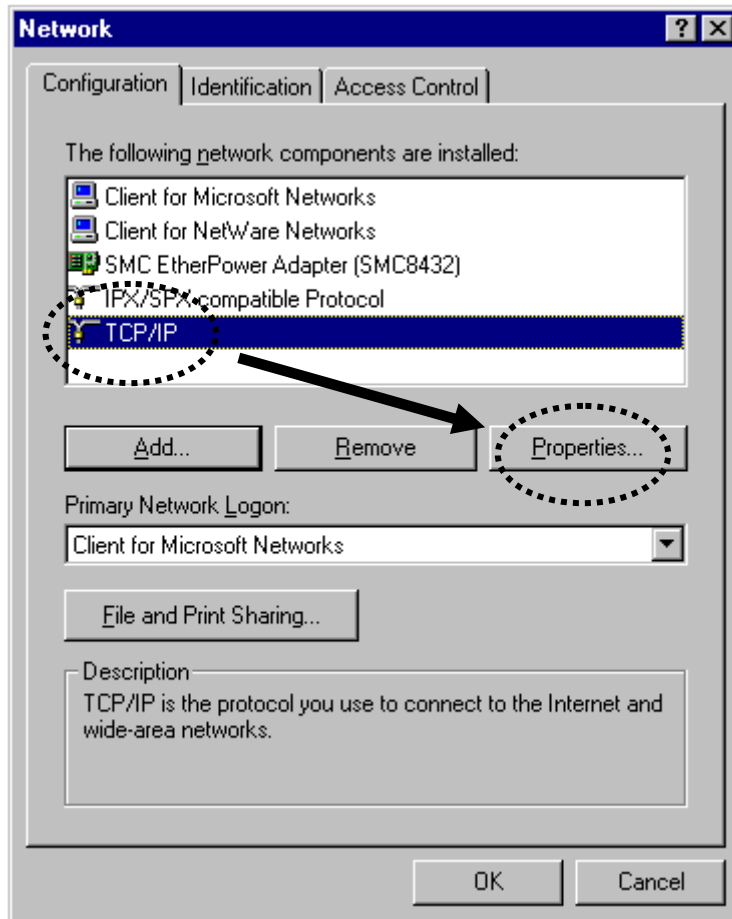
2-2 Setting client computers to obtain IP addresses automatically

Before you start configuration procedures, your computer must be able to get an IP address automatically (set to use dynamic IP addresses). If your computer is set to use a static IP address, or if you are unsure, please follow the following instructions to configure your computer to use dynamic IP addresses:

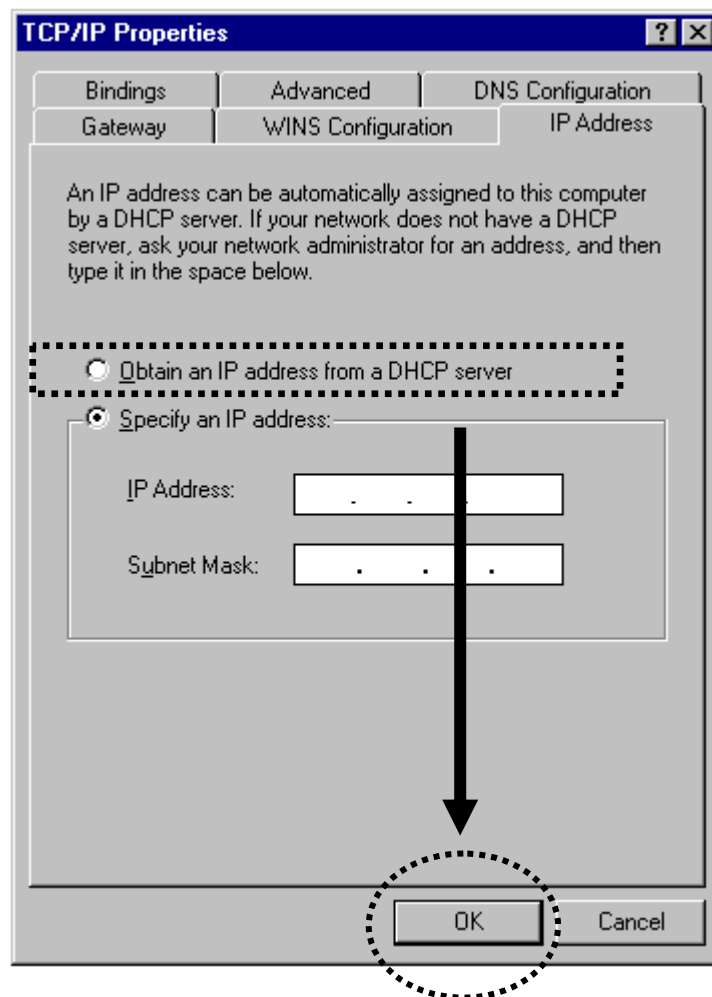
- Windows 95/98/Me (see section 2-2-1)
- Windows 2000 (see section 2-2-2)
- Windows XP (see section 2-2-3)
- Windows Vista (see section 2-2-4)

2-2-1 Windows 95/98/Me IP address setup

1. Click the “Start” button (it should be located at the lower-left corner of your screen), then click “Control Panel”. Double-click the “Network” icon, and the “Network” window will appear. Select “TCP/IP”, and then click “Properties”.

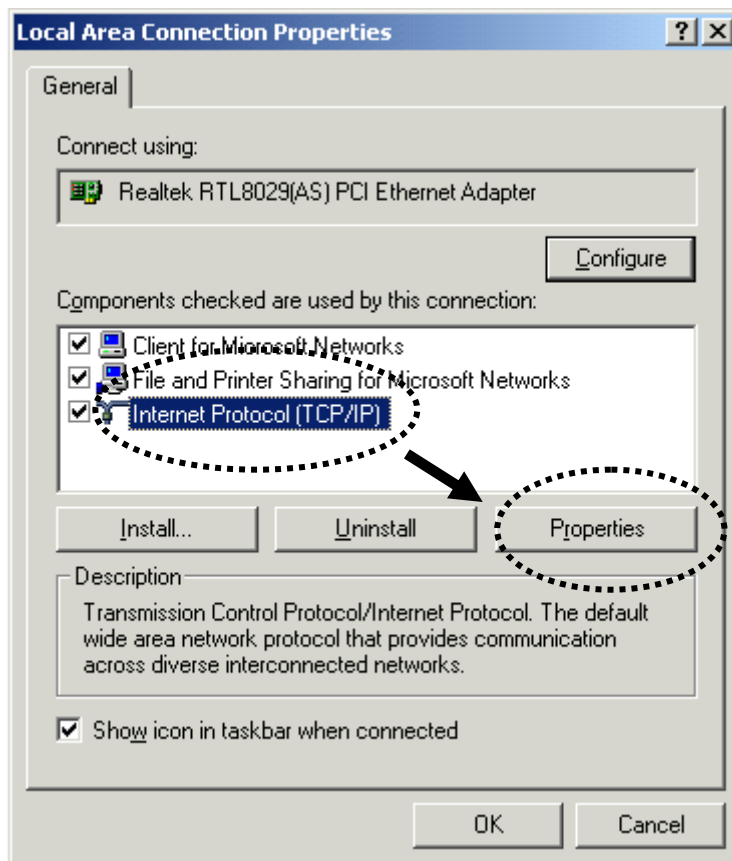


2. Select “Obtain an IP address from a DHCP server”, then click “OK”.

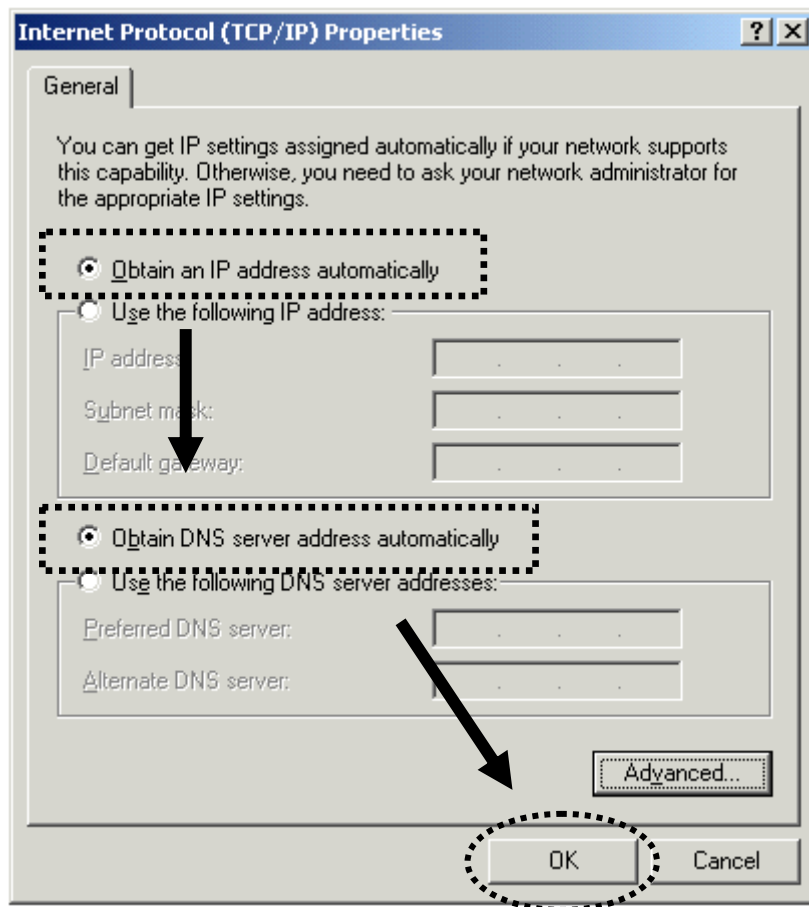


2-2-2 Windows 2000 IP address setup

1. Click the “Start” button (it should be located at the lower-left corner of your screen), then click “Control Panel”. Double-click the “Network and Dial-up Connections” icon, and then double-click “Local Area Connection”. When the “Local Area Connection Properties” window appears, select “Internet Protocol (TCP/IP)”, and then click “Properties”.

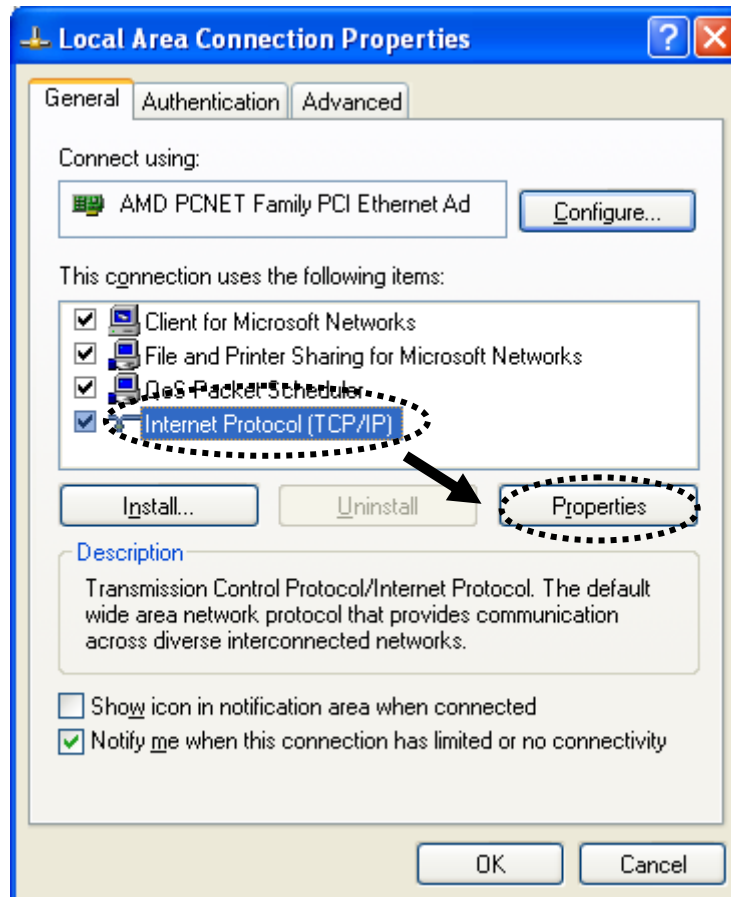


2. Select “Obtain an IP address automatically” and “Obtain DNS server address automatically”, then click “OK”.

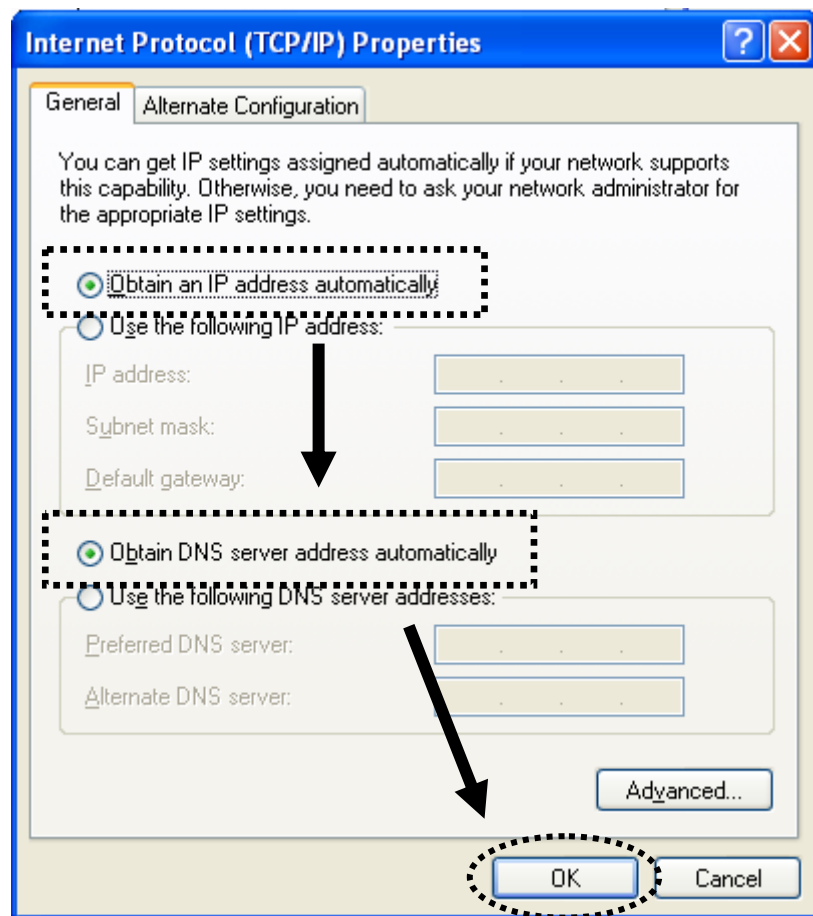


2-2-3 Windows XP IP address setup

1. Click the “Start” button (it should be located at the lower-left corner of your screen), then click “Control Panel”. Double-click the “Network and Internet Connections” icon, click “Network Connections”, then double-click “Local Area Connection”. When the “Local Area Connection Properties” window appears, click “Properties”.

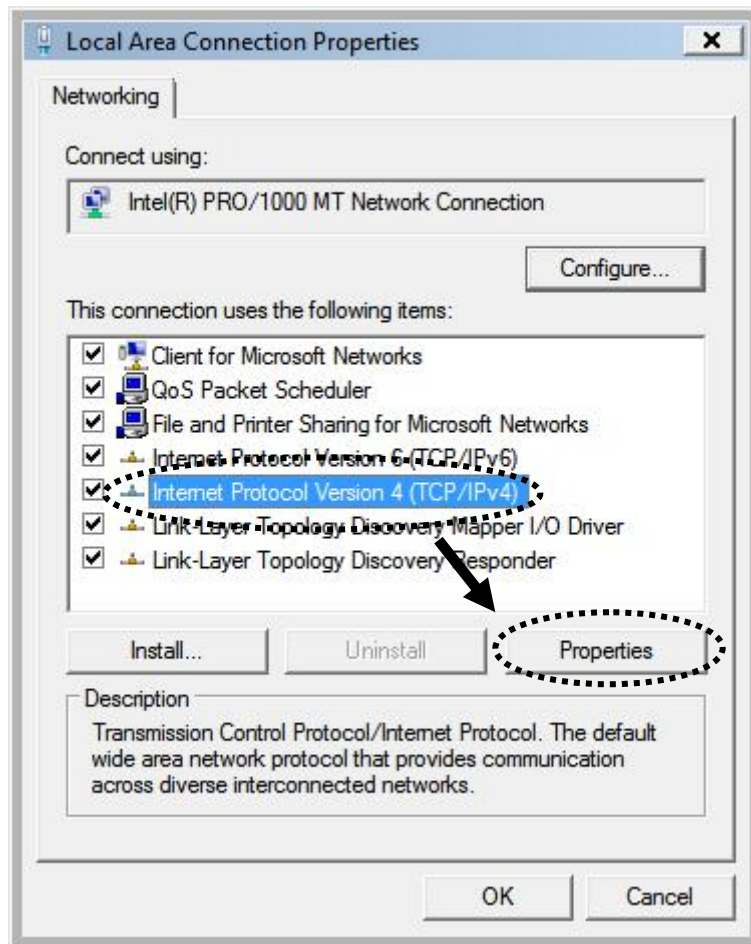


2. Select “Obtain an IP address automatically” and “Obtain DNS server address automatically”, then click “OK”.

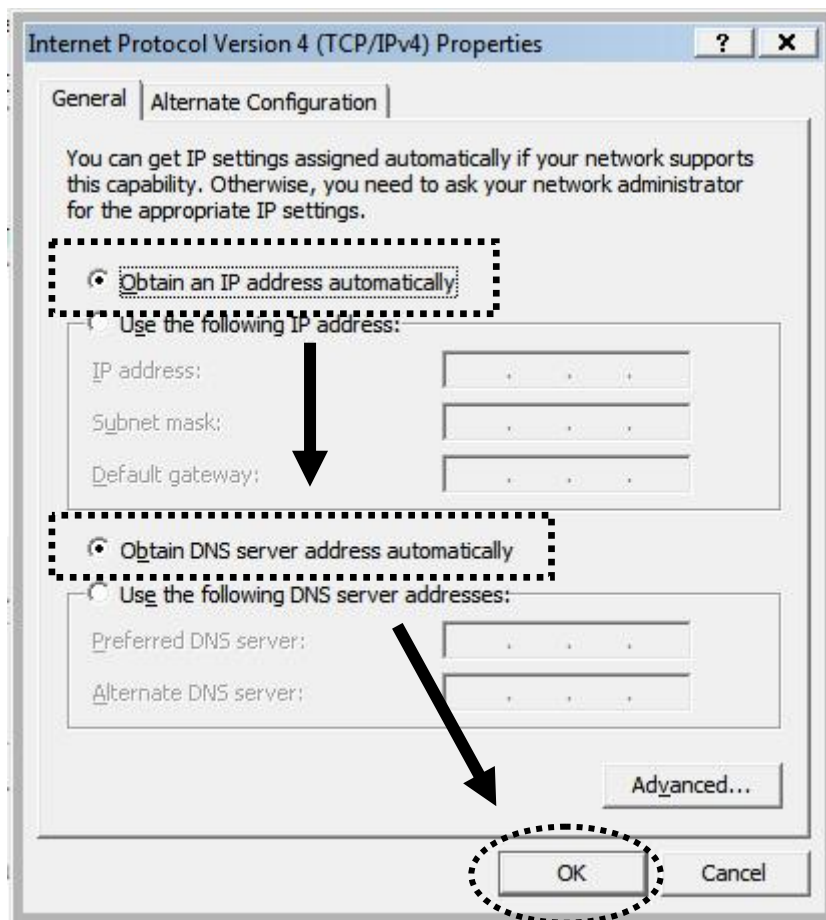


2-2-4 Windows Vista IP address setup

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

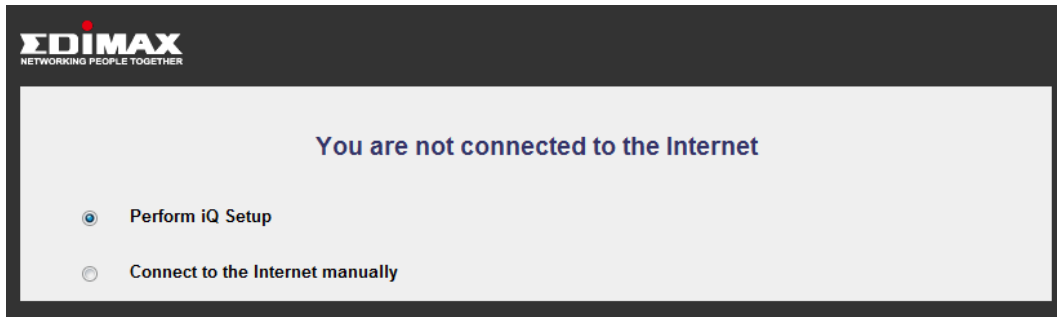


2. Select “Obtain an IP address automatically” and “Obtain DNS server address automatically”, then click “OK”.



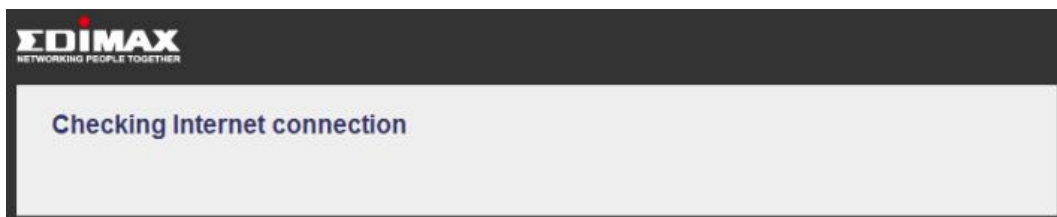
2-3 Connecting to the Internet with “iQ Setup”

After you have made the appropriate cable connections, open your Internet browser. If you have not already connected the router to the Internet, the following will appear automatically:

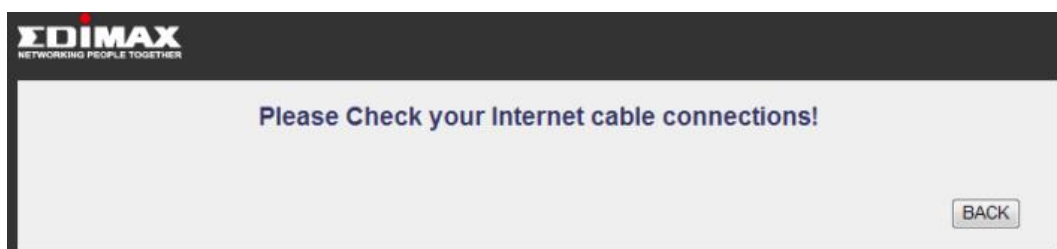


Next, click “Perform iQ Setup” to establish a connection automatically. iQ Setup will start detecting your Internet service type.

Note: You can click “Connect to the Internet manually” to log in the user interface. Input “admin” in the “User name” field and “1234” in the “Password” field when prompted.

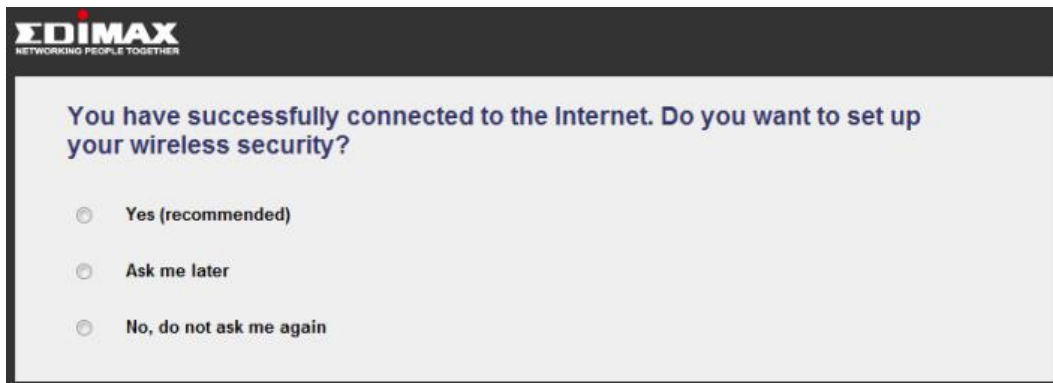


If your WAN port is not connected (or if the modem is down), you will be asked to check your cable connections and to click “BACK” to start again.



Dynamic IP

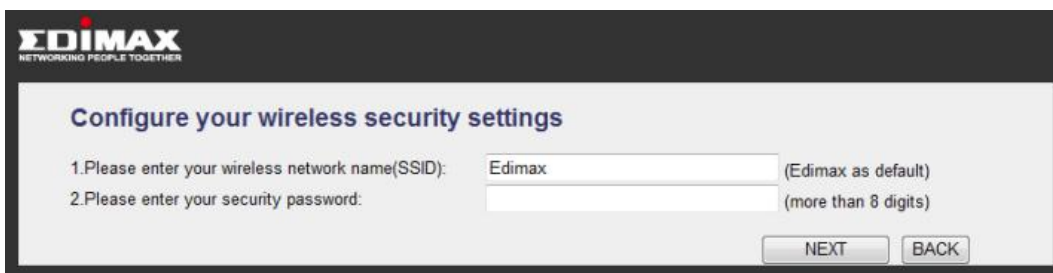
If the detected Internet connection type is dynamic IP, you will see the following:



The screenshot shows the Edimax web interface. At the top left is the Edimax logo with the tagline "NETWORKING PEOPLE TOGETHER". The main heading reads "You have successfully connected to the Internet. Do you want to set up your wireless security?". Below this heading are three radio button options: "Yes (recommended)", "Ask me later", and "No, do not ask me again".

Note: For security reasons, Edimax suggests that you set up the wireless security.

If you click "Yes (recommended)", you will be asked to enter an SSID and a password (at least 8 digits).

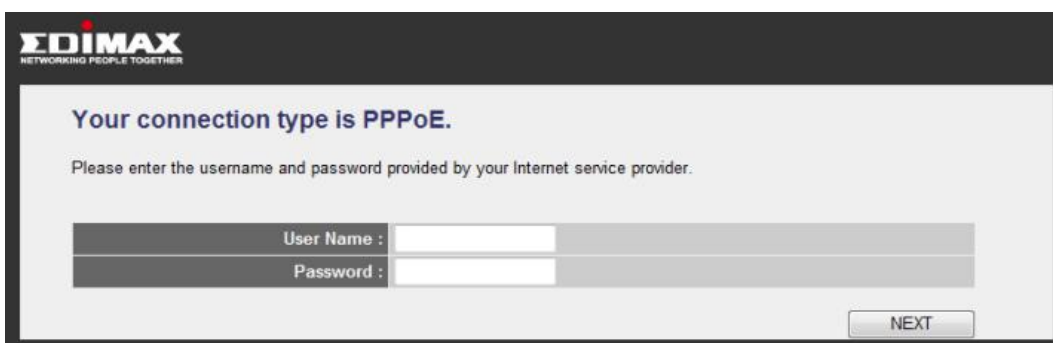


The screenshot shows the "Configure your wireless security settings" screen. It contains two numbered instructions: "1. Please enter your wireless network name (SSID):" followed by a text input field containing "Edimax" and a note "(Edimax as default)"; and "2. Please enter your security password:" followed by an empty text input field and a note "(more than 8 digits)". At the bottom right, there are two buttons labeled "NEXT" and "BACK".

Note: Please remember your password or you will not be able to use the Wi-Fi connection.

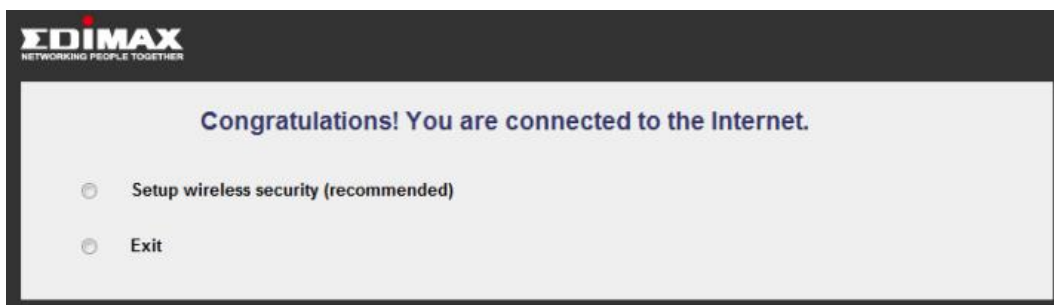
PPPoE

If your Internet connection type is PPPoE, you will see the following:



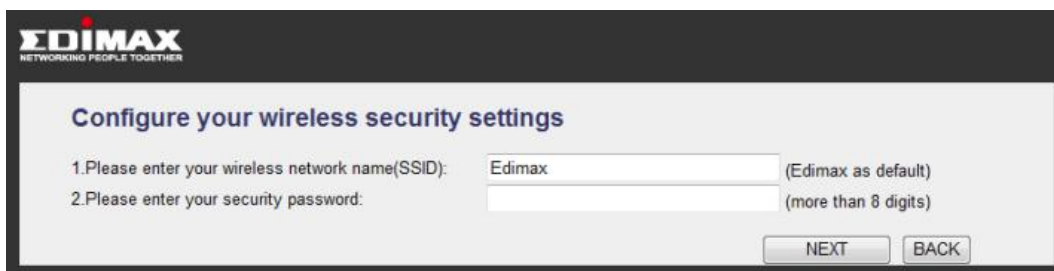
The screenshot shows the Edimax web interface for PPPoE configuration. At the top left is the Edimax logo with the tagline "NETWORKING PEOPLE TOGETHER". The main heading reads "Your connection type is PPPoE." Below this is the instruction "Please enter the username and password provided by your Internet service provider." There are two input fields: "User Name :" and "Password :", each followed by a text input field. At the bottom right, there is a button labeled "NEXT".

Please enter the username and password provided by your ISP (usernames and passwords are case-sensitive). Click “Next” and the following will appear:



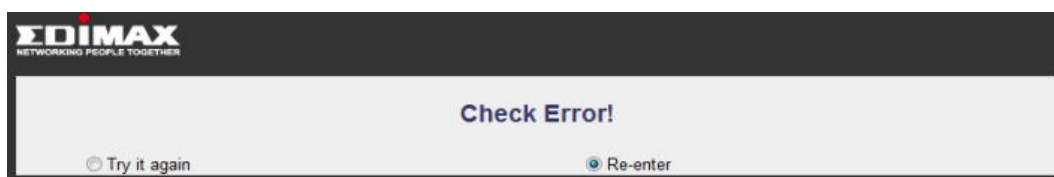
Note: For security reasons, Edimax suggests that you set up the wireless security.

If you click “Setup wireless security (recommended)”, you will be asked to enter an SSID and a password (at least 8 digits).



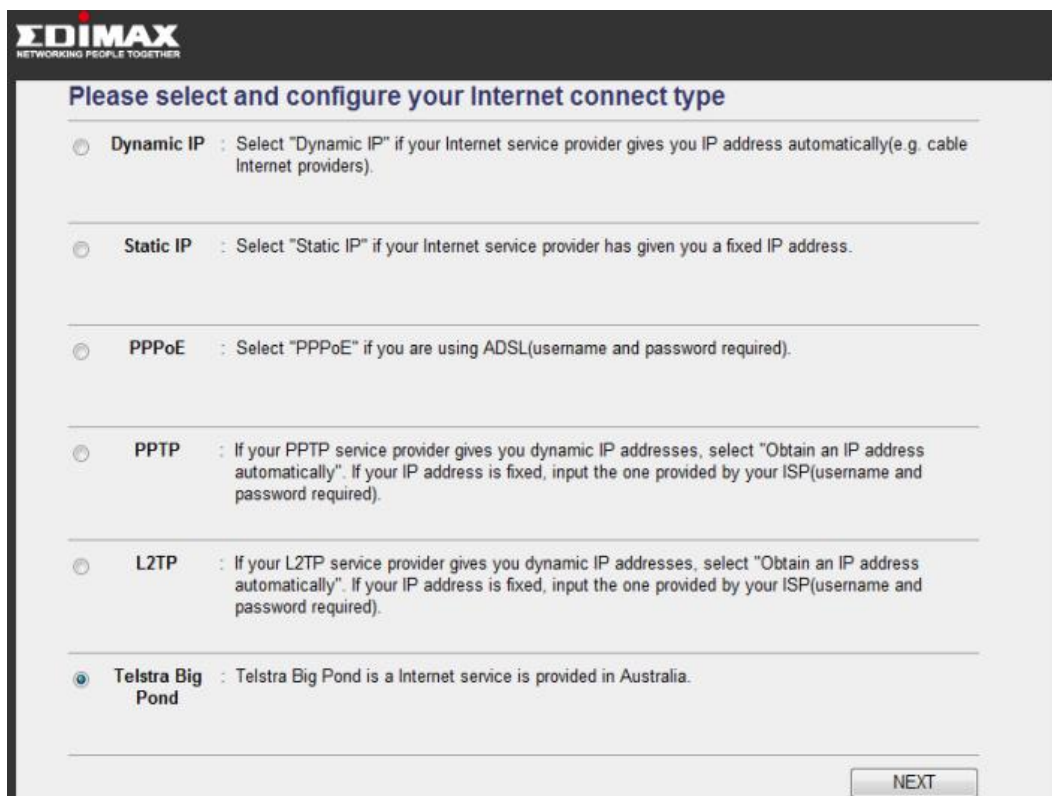
Note: Please remember your password or you will not be able to use the Wi-Fi connection.

If your PPPoE connection is invalid, you will see the following:



Click “Try it again” and the wizard will try to connect to the Internet again with the current information. Clicking “Re-enter” will take you to the previous page and let you enter the username and password again.

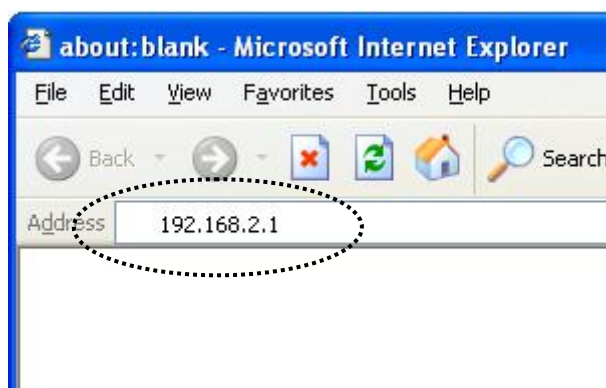
If your connection type is none of the above or if the auto-detection has failed, you will see the following page. Please select your connection type and enter the information accordingly.



2-4 Accessing the router's web configuration interface

You can access the broadband router's web-based configuration interface via any connected computer with a web browser (Internet Explorer 5.x or above, Firefox, Opera, or Safari).

1. Please input "router" (or "http://router" in some browsers) in the web browser's address bar and press "Enter". If both the above do not work, input "192.168.2.1" in the address bar.



2. You should see the following authentication window.



NOTE: If you cannot access the broadband router's web-based configuration interface, the IP address you have inputted may be incorrect. If you have previously changed the router's IP address, please input the one you have designated.

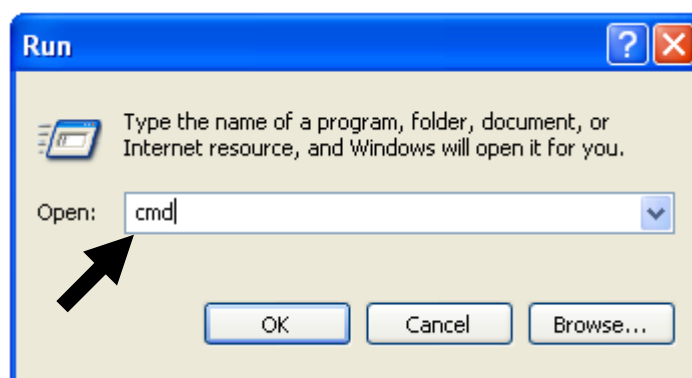
3. Please input "admin" in the "User name" field and "1234" in the "Password" field. Click the "OK" button to enter the web configuration interface.
4. The first page you see after logging in is "Home".

If this router's DHCP server function is enabled, please follow the following instructions to find this router's IP address:

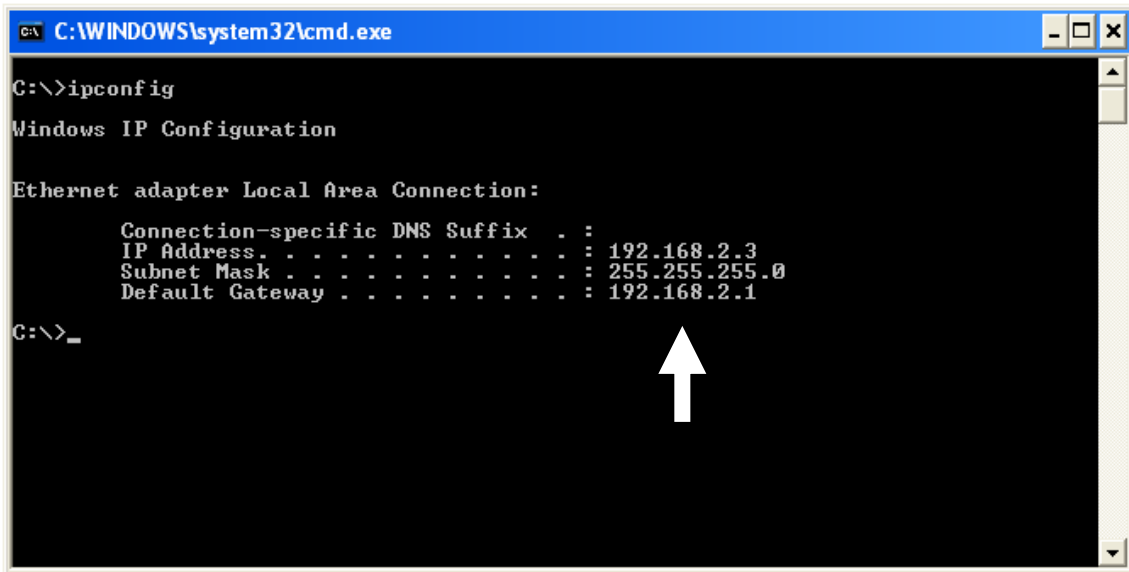
1. Click the “Start” button, and then click “Run”.



2. Input “cmd”, and then click “OK”.



3. Input "ipconfig", and then press "Enter". Use the IP address following "Default Gateway" to access this router's web-based configuration interface. Please note that the IP address you find may be different from this illustrated example.



```
C:\WINDOWS\system32\cmd.exe
C:\>ipconfig
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 192.168.2.3
    Subnet Mask . . . . .             : 255.255.255.0
    Default Gateway . . . . .         : 192.168.2.1

C:\>_
```

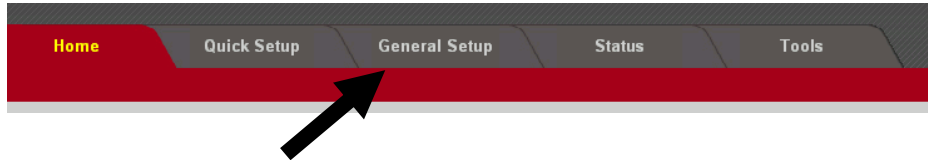
NOTE: If there is no IP address following "Default Gateway", or if the address following "IP Address" begins with "169", please try the following procedures:

- Recheck the cable connection between the computer and the router.
- Go to the beginning of this chapter and recheck every step of the setup procedure.
- If both of the above fails, reset the broadband router.

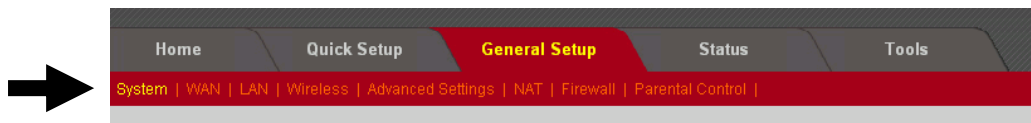
CHAPTER III: GENERAL SETUP

You can perform advanced configuration of this broadband router in “General Setup”. The following are instructions on how to use “General Setup”:

1. Click “General Setup” after logging in.



2. All available setup items will appear as a list under ‘General Setup’ tab:



3. Refer to the following list for further instructions:

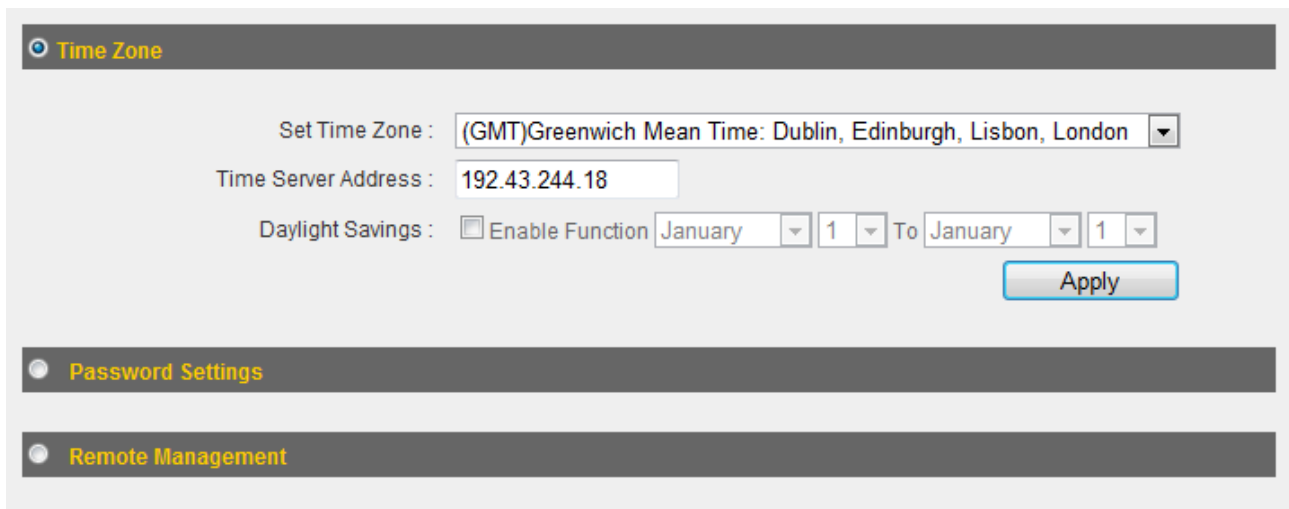
- System (See section 3-1)
- WAN (See section 3-2)
- LAN (See section 3-3)
- Wireless (See section 3-4)
- Advance Settings (See section 3-5)
- NAT (See section 3-6)
- Firewall (See section 3-7)

3-1 System

You can set up basic system settings under “System”.



You can configure your time zone, password, and remote management settings here. After you have completed the configurations, click “Apply” to save the changes.



3-1-1 Time Zone

You can configure the time zone settings here.

Time Zone

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

Time Server Address : 192.43.244.18

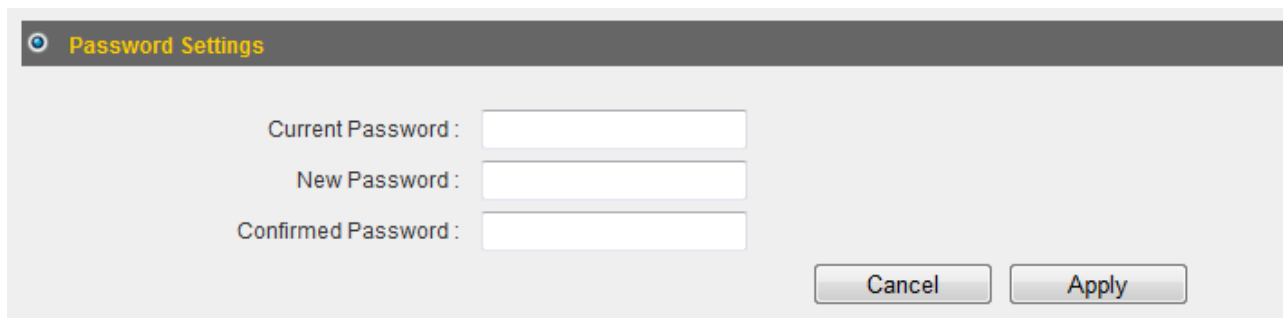
Daylight Savings : Enable Function January 1 To January 1

Apply

Item Name	Description
Set Time Zone	Please select the time zone of your country or region. If you cannot find your country/region, please select another country/region whose time zone is the same as yours.
Time Server Address	This router supports NTP (Network Time Protocol) for automatic time and date setup. Input the host name or IP address of the NTP server here. If you do not know the host name, please ask the network administrator or use "pool.ntp.org".
Daylight Saving	If your country/region uses daylight saving time, please check the "Enable Function" box, and select the start and end date.

3-1-2 Password Settings

You can change the router's default login password ("1234") here. It is advised to do so to prevent others from logging in to your router without permission.

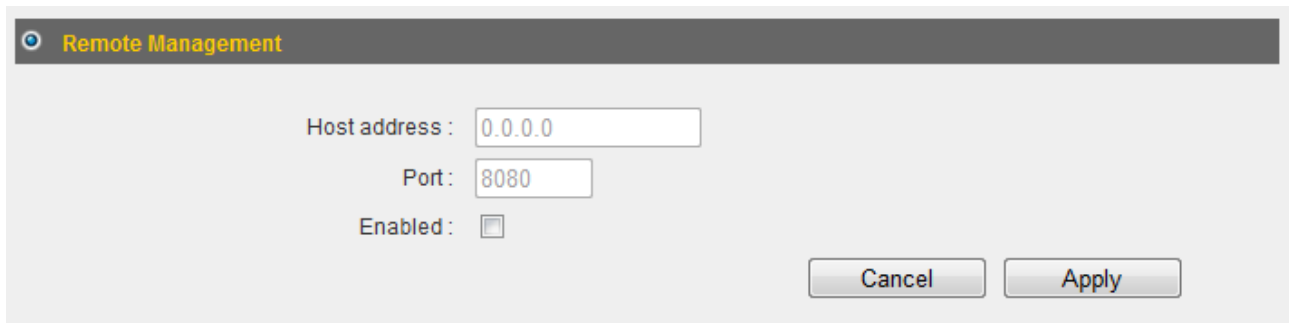


The screenshot shows a web interface titled "Password Settings". It contains three text input fields stacked vertically, each with a label to its left: "Current Password:", "New Password:", and "Confirmed Password:". To the right of the input fields are two buttons: "Cancel" and "Apply".

Item Name	Description
Current Password	Input the current password here. The default value is "1234".
New Password	Input your new password here.
Confirm Password	Input your new password again for confirmation.

3-1-3 Remote Management

Setting up the “Remote Management” function allows you to manage this broadband router from outside your local area network (from the Internet).



Remote Management

Host address : 0.0.0.0

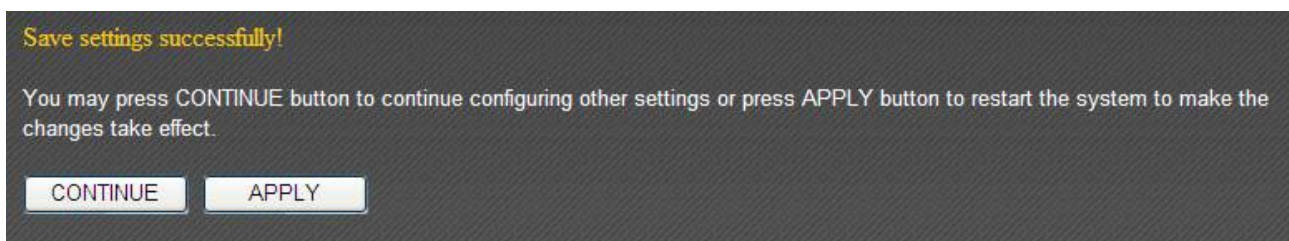
Port: 8080

Enabled:

Cancel Apply

Item Name	Description
Host Address	Assign an IP address with which to access this router remotely.
Port	Assign a port number with which to access this router remotely. The default value is “8080”. You can use any integer between 1 and 65534.
Enabled	Check this box to enable the “Remote Management” function.

Click “Apply” to save the changes. After you have clicked “Apply”, you will see the following message:



Save settings successfully!

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

CONTINUE APPLY

Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-2 WAN

You can set up your Internet or WAN (Wide Area Network) connection under “WAN”.



Select a connection type and proceed with the setup; then click “Apply” to save the changes. If you are not sure which connection type you should use, please contact your Internet service provider for help.

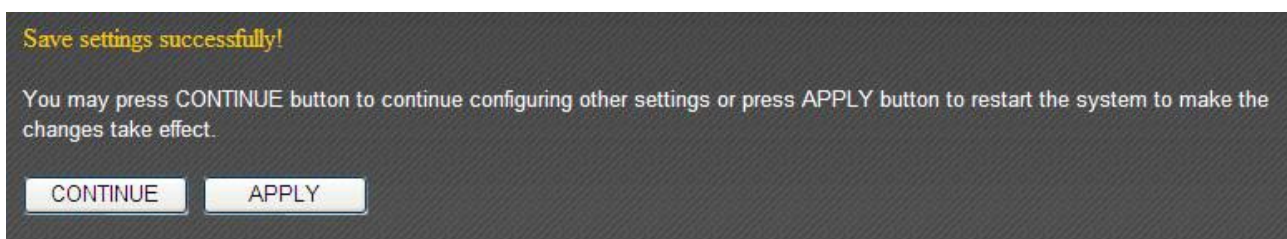
A screenshot of the WAN configuration page in a router's web interface. The page has a light gray background. At the top, there is a dark gray header with a radio button and the text 'Dynamic IP'. Below this, there are several configuration fields: 'Host Name' with an empty text box; 'MAC address' with a text box containing '000000000000' and a 'Clone Mac address' button; 'DNS address' with two radio buttons, the first labeled 'Obtain an IP address automatically' (selected) and the second 'Use the following IP address'; 'DNS1 address' with a text box containing '0.0.0.0'; 'DNS2 address' with a text box containing '0.0.0.0'; and 'TTL' with two radio buttons, the first labeled 'Disable' (selected) and the second 'Enable'. Below these fields are five radio buttons for different connection types: 'Static IP', 'PPPoE', 'PPTP', 'L2TP', and 'WISP'. At the bottom right of the page is an 'Apply' button.

3-2-1 Dynamic IP

If your Internet service provider assigns IP addresses to you automatically through DHCP (Dynamic Host Configuration Protocol), select “Dynamic IP”.

Item Name	Description
Host Name	Input the host name of your computer here. This is optional and only required if your ISP asks you to do so.
MAC Address	If your ISP only permits computers with certain MAC addresses to access the Internet, input your computer’s MAC address here. Press “Clone Mac address” to fill the MAC address field with your computer’s MAC address automatically.
DNS Address	Select “Use the following IP address” if your ISP requires that you do so.
DNS Address 1 and 2	Enter the primary and secondary DNS addresses assigned by your ISP here.
TTL	Enable the “TTL” function if your ISP requires you to do so.

Click “Apply” to save the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-2-2 Static IP

If your ISP is providing you Internet access via a fixed IP address, select “Static IP”. Generally, your ISP will provide you with such information as IP address, subnet mask, gateway address, and DNS address.

Static IP

Fixed IP Address : 172.1.1.1

Subnet Mask : 255.255.0.0

DNS1 address : 0.0.0.0

DNS2 address : 0.0.0.0

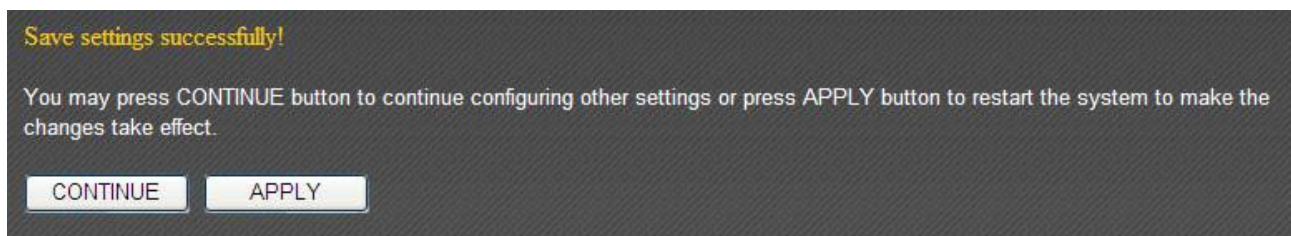
Default Gateway : 172.1.1.254

TTL : Disable Enable

Item Name	Description
Fixed IP Address	Input the IP address assigned by your ISP here.
Subnet Mask	Input the subnet mask assigned by your ISP here.
DNS Address 1 and 2	Enter the primary and secondary DNS addresses assigned by your ISP here.
Default Gateway	Input the default gateway assigned by your ISP here. Some ISPs may call this “Default Route”.
TTL	Enable the “TTL” function if your ISP requires you to do so.

NOTE: You must use the addresses provided by your ISP. Inputting incorrect values will cause malfunction.

Click “Apply” to save the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-2-3 PPPoE

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

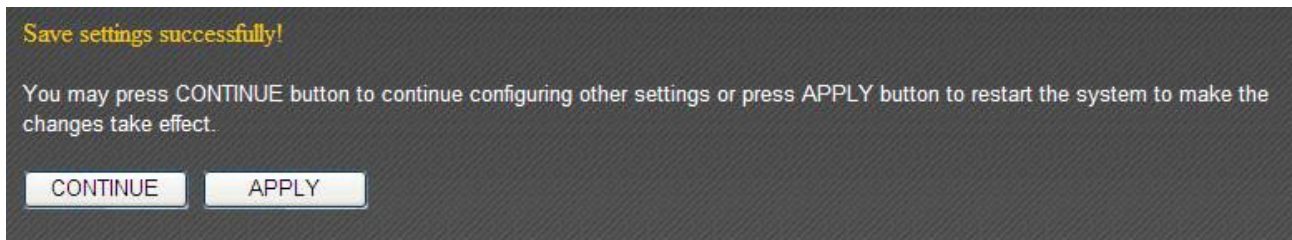
The screenshot shows a configuration window titled "PPPoE". It contains the following fields and options:

- User Name: [Text Input]
- Password: [Text Input]
- MAC address: [Text Input: 000000000000] with a "Clone Mac address" button.
- DNS address: Radio buttons for "Obtain an IP address automatically" (selected) and "Use the following IP address".
- DNS1 address: [Text Input: 0.0.0.0]
- DNS2 address: [Text Input: 0.0.0.0]
- TTL: Radio buttons for "Disable" (selected) and "Enable".
- Service Name: [Text Input]
- MTU: [Text Input: 1392] with a note "(512<=MTU Value<=1492)".
- Connection Type: [Dropdown: Continuous] with "Connect" and "Disconnect" buttons.
- Idle Time Out: [Text Input: 10] with a note "(1-1000 minutes)".
- Enable Dual Wan Access: [Checkbox]

Item Name	Description
User Name	Input the user name assigned by your ISP here.
Password	Input the password assigned by your ISP here.
MAC Address	If your ISP only permits computers with certain MAC addresses to access the Internet, input your computer’s MAC address here. Press “Clone Mac address” to fill the MAC address field with your computer’s MAC address automatically.
DNS Address	Select “Use the following IP address” if your ISP requires that you do so.
DNS Address 1 and 2	Enter the primary and secondary DNS addresses assigned by your ISP here.
TTL	Enable the “TTL” function if your ISP requires you to do so.
Service Name	Give this Internet service a name (optional).
MTU	Input the MTU value of your network connection here. If you do not know, use the default value.
Connection Type	Please specify a connection type here. There are 3 options: 1. “Continuous” keeps the Internet connection alive all the time.

	<ol style="list-style-type: none"> 2. "Connect on Demand" only connects to the Internet when you initiate Internet connection. 3. "Manual" connects to the Internet only when the "Connect" button on this page is clicked, and disconnects when the "Disconnect" button is clicked.
Idle Time Out	Specify the amount of time the router waits before shutting down an idle connection. This option is only available when "Connect on Demand" is selected.
Enable Dual-WAN Access	Check the "Enable Dual-WAN Access" box if your ISP requires you to do so.

Click "Apply" to save the changes. After you have clicked "Apply", you will see the following message:



Click "Apply" to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click "Continue" to configure other settings.

3-2-4 PPTP

Select “PPTP” if your ISP is providing you Internet access via PPTP (Point-to-Point Tunneling Protocol).

If your ISP is providing you dynamic IP addresses, select “Obtain an IP address automatically”. If your ISP is providing you a static IP address, select “Use the following IP address”.

Item Name	Description
Host Name	Input the host name of your computer here. This is optional and only required if your ISP asks you to do so.
MAC Address	If your ISP only permits computers with certain MAC addresses to access the Internet, input your computer’s MAC address here. Press “Clone Mac address” to fill the MAC address field with your computer’s MAC address automatically.
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 ISP here. Some ISPs may call this “Default Route”.
MAC Address	If your ISP only permits computers with certain MAC addresses to access the Internet, input your computer’s MAC address here. Press “Clone Mac address” to fill the MAC address field with your computer’s MAC address automatically.

DNS Address	Select “Use the following IP address” if your ISP requires that you do so.
DNS Address 1 and 2	Enter the primary and secondary DNS addresses assigned by your ISP here.
Enable Dual-WAN Access	Check the “Enable Dual-WAN Access” box if your ISP requires you to do so.

NOTE: These settings must be configured according to your Internet service. Please contact your Internet service provider if you are not sure what to select.

Configure the “PPTP Settings” section.

PPTP Settings :

User ID :

Password :

PPTP Gateway :

Connection ID : (Optional)

MTU : (512<=MTU Value<=1492)

BEZEQ-ISRAEL : Enable (for BEZEQ network in ISRAEL use only)

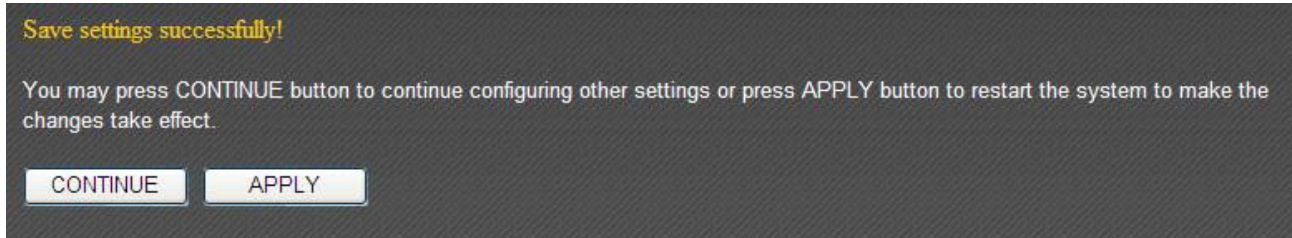
Connection Type :

Idle Time Out : (1-1000 minutes)

Item Name	Description
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	Give this connection a name (optional).
MTU	Input the MTU value of your network connection here. If you do not know, use the default value.
BEZEQ-ISRAEL	Check the “Enable” box if you are in Israel and using BEZEQ network services.
Connection Type	<p>Please specify a connection type here. There are 3 options:</p> <ol style="list-style-type: none"> 1. “Continuous” keeps the Internet connection alive all the time. 2. “Connect on Demand” only connects to the Internet when you initiate Internet connection. 3. “Manual” connects to the Internet only when the “Connect” button on this page is clicked, and disconnects when the “Disconnect” button is clicked.

Idle Time Out	Specify the amount of time the router waits before shutting down an idle connection. This option is only available when “Connect on Demand” is selected.
---------------	--

Click “Apply” to save the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-2-5 L2TP

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

If your ISP is providing you dynamic IP addresses, select “Obtain an IP address automatically”. If your ISP is providing you a static IP address, select “Use the following IP address”.

Item Name	Description
Host Name	Input the host name of your computer here. This is optional and only required if your ISP asks you to do so.
MAC Address	If your ISP only permits computers with certain MAC addresses to access the Internet, input your computer’s MAC address here. Press “Clone Mac address” to fill the MAC address field with your computer’s MAC address automatically.
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 ISP here. Some ISPs may call this “Default Route”.
DNS Address	Select “Use the following IP address” if your ISP requires that you do so.
DNS Address 1 and 2	Enter the primary and secondary DNS addresses assigned by your ISP here.
Enable Dual-WAN Access	Check the “Enable Dual-WAN Access” box if your ISP requires you to do so.

NOTE: These settings must be configured according to your Internet service. Please contact your Internet service provider if you are not sure what to select.

Configure the “L2TP Settings” section.

L2TP Settings

User ID :

Password :

L2TP Gateway :

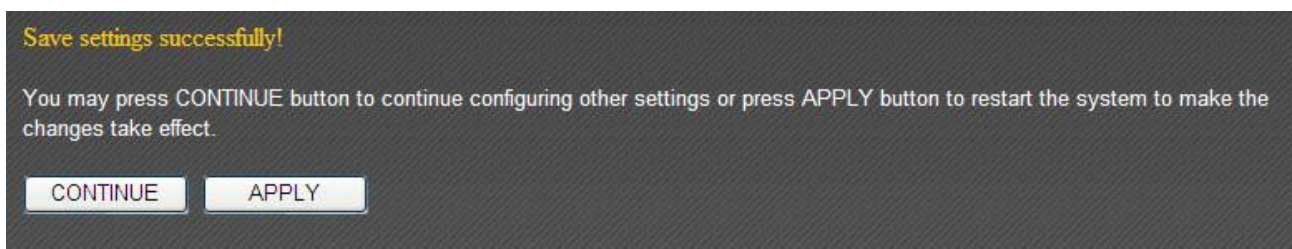
MTU : (512<=MTU Value<=1492)

Connection Type :

Idle Time Out : (1-1000 minutes)

Item Name	Description
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.
MTU	Input the MTU value of your network connection here. If you do not know, use the default value.
Connection Type	<p>Please specify a connection type here. There are 3 options:</p> <ol style="list-style-type: none"> 1. “Continuous” keeps the Internet connection alive all the time. 2. “Connect on Demand” only connects to the Internet when you initiate Internet connection. 3. “Manual” connects to the Internet only when the “Connect” button on this page is clicked, and disconnects when the “Disconnect” button is clicked.
Idle Time Out	Specify the amount of time the router waits before shutting down an idle connection. This option is only available when “Connect on Demand” is selected.

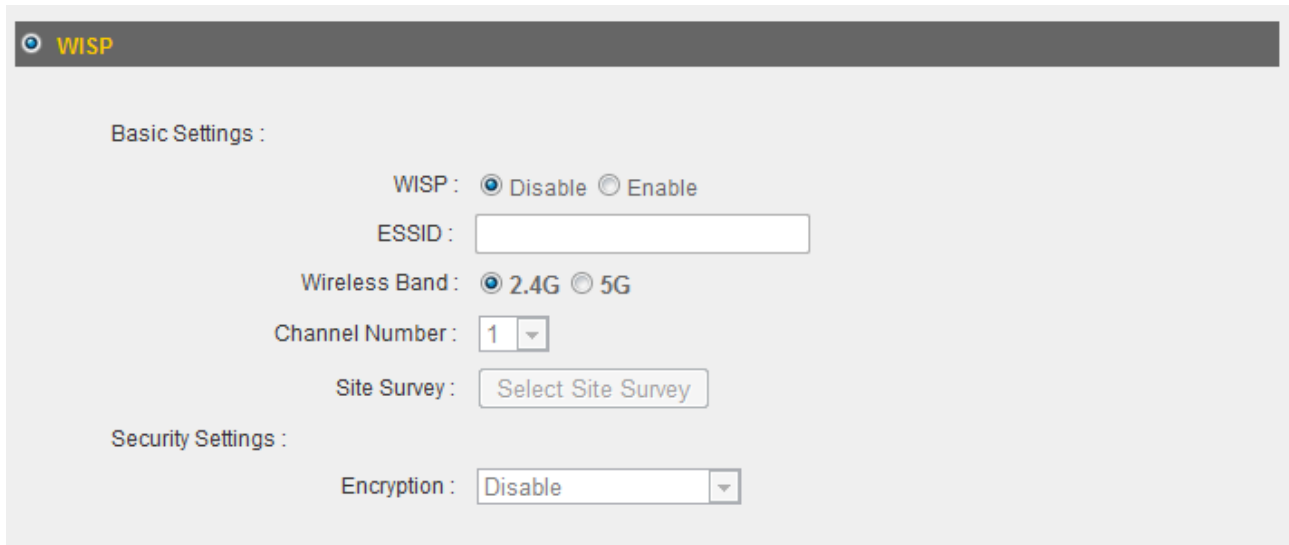
Click “Apply” to save the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-2-6 WISP

If your Internet service provider is providing you Internet service wirelessly, select “WISP”.



WISP

Basic Settings :

WISP : Disable Enable

ESSID :

Wireless Band : 2.4G 5G

Channel Number :

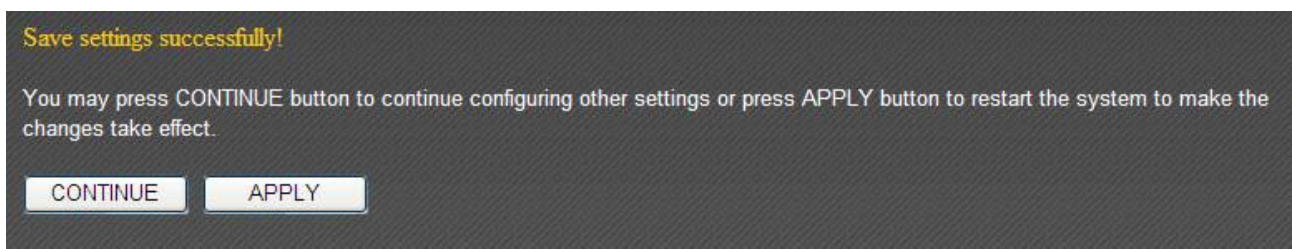
Site Survey :

Security Settings :

Encryption :

Item Name	Description
WISP	Enable or disable the WISP function.
ESSID	Input the name of your Internet service provider’s wireless access point here.
Wireless Band	Set the wireless frequency range in accordance with your Internet service provider’s requirements.
Channel Number	Select the channel number that corresponds to that of your Internet service provider’s wireless access point.
Site Survey	Click “Select Site Survey” and a pop-up window will appear. All reachable wireless access points will be shown in the window. Select a wireless access point from the list, and click “Done” to establish a connection. Clicking “Refresh” will renew the list.
Security Settings	Configure the security settings in accordance to your Internet service provider’s requirements.

Click “Apply” to save the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-3 LAN (Wired)

You can configure your local area network under “LAN”.



Refer to the following list for further instructions:

- LAN IP (See section 3-3-1)
- DHCP Server (See section 3-3-2)
- Static DHCP Leases (See section 3-3-3)

3-3-1 LAN IP

You can assign the LAN interface’s IP address under “LAN IP”.

A screenshot of the 'LAN IP' configuration page. The page has a dark grey header with 'LAN IP' in yellow. Below the header, there are several configuration fields: 'IP address' with the value '192.168.2.1', 'Subnet Mask' with '255.255.255.0', '802.1d Spanning Tree' with a dropdown menu set to 'Disabled', 'DHCP Server' with a dropdown menu set to 'Enabled', and 'Lease Time' with a dropdown menu set to 'Forever'.

Item Name	Description
IP Address	Assign the LAN interface’s IP address here.
Subnet Mask	Please input a subnet mask value for this network.
802.1d Spanning Tree	If you wish to activate the 802.1d spanning tree function, select “Enabled”.
DHCP Server	If you wish to activate the DHCP server function, select “Enabled”.
Lease Time	Select a lease time for the DHCP leases here. The DHCP client will be forced to obtain a new IP address after the period expires. You can select “Forever” if you are using this broadband router with less than 30 computers.

If you are not sure what to fill, here are some recommended values:

- IP Address: “192.168.1.254”
- Subnet Mask: “255.255.255.0”
- 802.1d Spanning Tree: “Disabled”
- DHCP Server: “Enabled”
- Lease Time: “Two Weeks” or “Forever”

3-3-2 DHCP Server

You can set the range of IP address leases under “DHCP Server”.

Item Name	Description
Start IP	Enter the start IP address for the DHCP server’s IP assignment.
End IP	Enter the end IP address for the DHCP server’s IP assignment.
Domain Name	You can input a domain name for your network (optional).
Default Gateway Address	You can assign a default gateway here (optional).

If you are not sure what to fill, here are some recommended values:

- Start IP: “192.168.1.1”
- End IP: “192.168.1.200”
- Domain Name: (blank)
- Default Gateway Address: (blank)

3-3-3 Static DHCP Leases

You can set the router to assign a static IP address to specified computers/devices under “Static DHCP Leases”.

Static DHCP Leases Table

This allows only 16 sets of addresses.

NO.	MAC address	IP address	Select
			☐

Enable Static DHCP Leases

New
 MAC address :
 IP address :

Item Name	Description
Enable Static DHCP Leases	Check this box to enable the function.
MAC Address	Input the specified computer’s MAC address here.
IP Address	Assign a fixed IP address for the specified computer here.
Add	After you have entered the MAC address and the IP address, click “Add” to add the information to the “Static DHCP Leases Table”.
Clear	Click “Clear” to clear the MAC address and IP address fields.

All the assigned entries will be listed as follows:

Static DHCP Leases Table

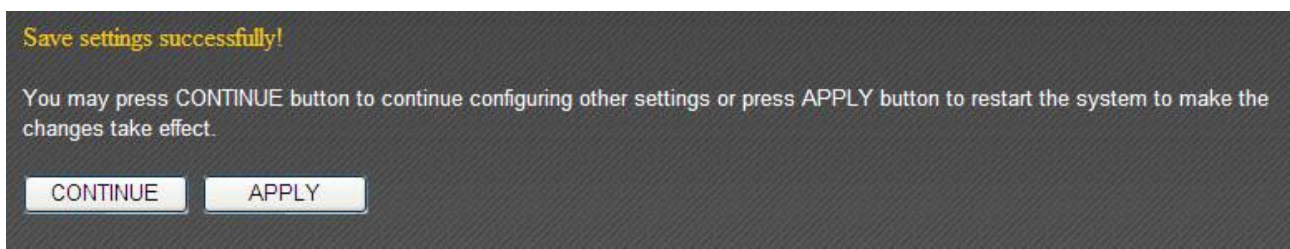
This allows only 16 sets of addresses.

NO.	MAC address	IP address	Select
1	11:22:33:44:55:66	192.168.2.200	☐
2	aa:bb:cc:dd:ee:ff	192.168.2.100	☐

Enable Static DHCP Leases

New
 MAC address :
 IP address :

Click “Apply” to save the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

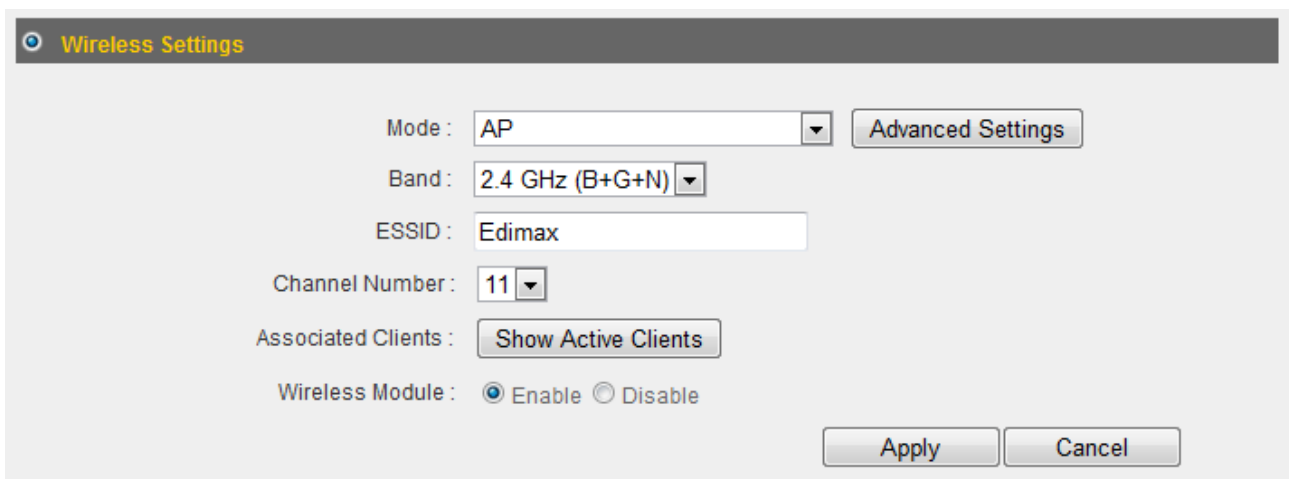
3-4 Wireless

You can set up the wireless LAN connection under “Wireless”.



3-4-1 Wireless Settings

Basic wireless settings can be configured here.

A screenshot of the 'Wireless Settings' configuration page. The page title is 'Wireless Settings'. The settings are as follows: Mode: AP (dropdown menu); Band: 2.4 GHz (B+G+N) (dropdown menu); ESSID: Edimax (text input field); Channel Number: 11 (dropdown menu); Associated Clients: Show Active Clients (button); Wireless Module: Enable (radio button selected), Disable (radio button unselected). There are 'Advanced Settings', 'Apply', and 'Cancel' buttons.

This router can operate in 6 different modes:

- AP: Wireless access point
- Station-Infrastructure: Acts as a wireless communication client and wired connection server
- AP Bridge—Point to Point: Connects this router with another broadband router
- AP Bridge—Point to Multi-Point: Connects this router with up to 4 other broadband routers
- AP Bridge—WDS: Connects this router with up to 4 WDS-capable broadband routers
- Universal Repeater: Repeats another wireless access point's signal to extend its wireless signal coverage

3-4-1-1 AP Mode

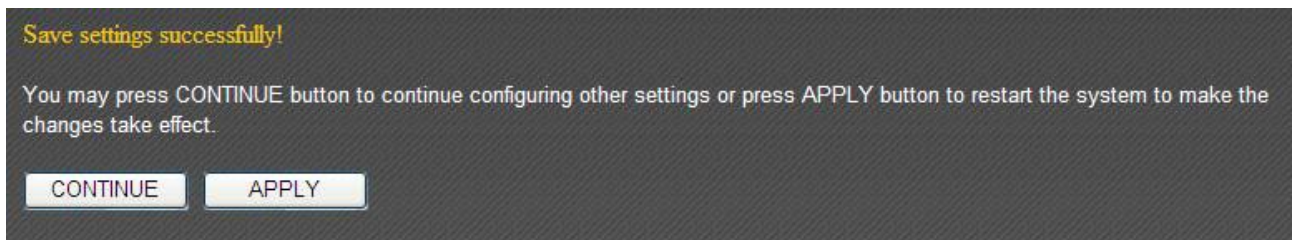
The following settings will appear in “AP” mode:

The screenshot shows the 'Wireless Settings' window. At the top, there is a 'Wireless Settings' header. Below it, the 'Mode' is set to 'AP' with a dropdown arrow and an 'Advanced Settings' button. The 'Band' is set to '2.4 GHz (B+G+N)' with a dropdown arrow. The 'ESSID' is 'Edimax' in a text input field. The 'Channel Number' is '11' with a dropdown arrow. There is a 'Show Active Clients' button. At the bottom, the 'Wireless Module' is set to 'Enable' with a radio button. There are 'Apply' and 'Cancel' buttons at the bottom right.

Item Name	Description
Band	<p>Select from one of the following options:</p> <p>2.4GHz (B): Allows 802.11b wireless network clients to connect to this router (maximum transfer rate 11Mbps).</p> <p>2.4GHz (N): Allows 802.11n wireless network clients to connect to this router (maximum transfer rate 450Mbps).</p> <p>2.4GHz (B+G): Allows 802.11b and 802.11g wireless network clients to connect to this router (maximum transfer rate 11Mbps for 802.11b clients and 54Mbps for 802.11g clients).</p> <p>2.4GHz (G): Allows 802.11g wireless network clients to connect to this router (maximum transfer rate 54Mbps).</p> <p>2.4GHz (B+G+N): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to this router (recommended).</p>
ESSID	This is the name of your router. You can type any alphanumerical character here (maximum 32 characters).
Channel Number	Select a channel from the dropdown menu. You can

	select the channel of your preference (1 to 13).
Associated Clients	<p>Click “Show Active Clients” for the list of all connected wireless clients. Click “Refresh” in the new window to renew the list, and click “Close” to close the window.</p> <p>Note: If you have a pop-up blocker installed, you may have to disable it, or set it to allow the pop-up window to show up.</p>
Wireless Module	Select “Enable” to turn on the 2.4GHz wireless signal and select “Disable” to turn it off.

Click “Apply” to save the changes, or click “Cancel” to discard the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-4-1-2 Station-Infrastructure

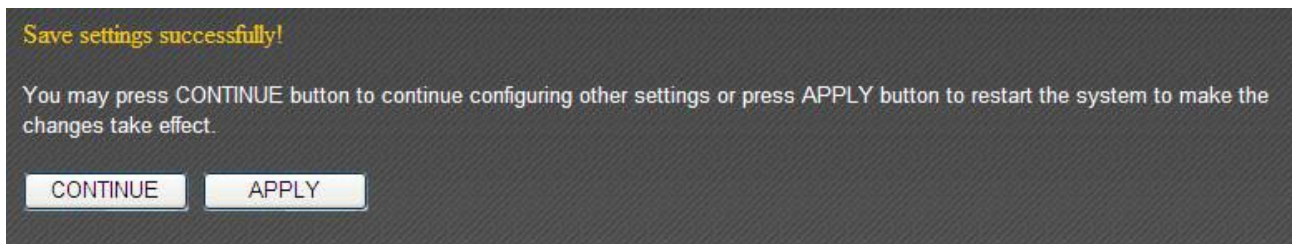
In “Station-Infrastructure” mode, the router acts as a wireless communication client and provides wired communication for other wired devices. The following settings will appear in “Station-Infrastructure” mode:

The screenshot shows the 'Wireless Settings' window. At the top, there is a 'Wireless Settings' header. Below it, the 'Mode' is set to 'Station-Infrastructure' with a dropdown arrow and an 'Advanced Settings' button. The 'Band' is set to '2.4 GHz (B+G+N)' with a dropdown arrow. The 'ESSID' is set to 'Edimax' in a text input field. There is a 'Site Survey' section with a 'Select Site Survey' button. At the bottom, the 'Wireless Module' is set to 'Enable' with a radio button. There are 'Apply' and 'Cancel' buttons at the bottom right.

Item Name	Description
Band	<p>Select from one of the following options:</p> <p>2.4GHz (B): Allows this router to connect to 802.11b wireless network servers (maximum transfer rate 11Mbps).</p> <p>2.4GHz (N): Allows this router to connect to 802.11n wireless network servers (maximum transfer rate 150Mbps).</p> <p>2.4GHz (B+G): Allows this router to connect to 802.11b and 802.11g wireless network servers (maximum transfer rate 11Mbps for 802.11b clients and 54Mbps for 802.11g clients).</p> <p>2.4GHz (G): Allows this router to connect to 802.11g wireless network servers (maximum transfer rate 54Mbps).</p> <p>2.4GHz (B+G+N): Allows this router to connect to 802.11b, 802.11g, and 802.11n wireless servers (recommended).</p>
ESSID	<p>This is the name of your router. You can type any alphanumerical character here (maximum 32 characters).</p>

Site Survey	Click “Select Site Survey” and a pop-up window will appear. All reachable wireless access points will be shown in the window. Select a wireless access point from the list, and click “Done” to establish a connection. Clicking “Refresh” will renew the list.
Wireless Module	Select “Enable” to turn on the 2.4GHz wireless signal and select “Disable” to turn it off.

Click “Apply” to save the changes, or click “Cancel” to discard the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-4-1-3 AP Bridge: Point to Point

“AP Bridge—Point to Point” mode connects this router to another router and allows all the computers connected to the LAN ports of both routers to communicate with each other.

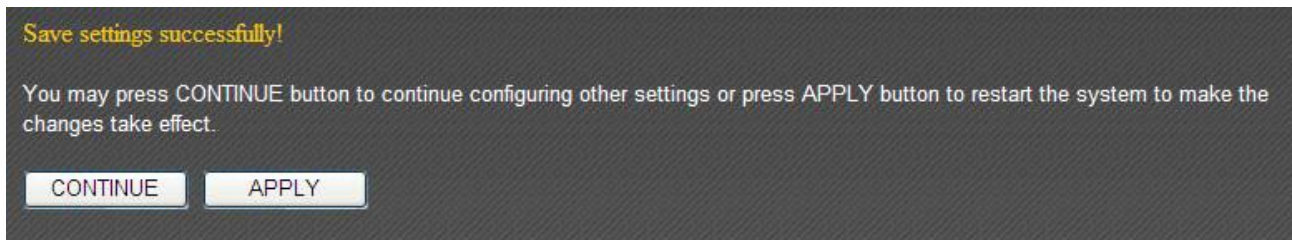
Please note that when you select this mode, this broadband router will act as a wireless bridge only. It will not accept other wireless clients. If you wish to use this function with a wireless access point that supports WDS, please select “AP Bridge—WDS” mode.

The screenshot shows the 'Wireless Settings' page. The 'Mode' is set to 'AP Bridge-Point to Point'. The 'Band' is set to '2.4 GHz (B+G+N)'. The 'Channel Number' is set to '11'. The 'MAC address 1' is '000000000000'. The 'Wireless Module' is 'Enable'. There are 'Advanced Settings', 'Apply', and 'Cancel' buttons.

Item Name	Description
Band	<p>Select from one of the following options:</p> <p>2.4GHz (B): Allows 802.11b wireless network clients to connect to this router (maximum transfer rate 11Mbps).</p> <p>2.4GHz (N): Allows 802.11n wireless network clients to connect to this router (maximum transfer rate 450Mbps).</p> <p>2.4GHz (B+G): Allows 802.11b and 802.11g wireless network clients to connect to this router (maximum transfer rate 11Mbps for 802.11b clients and 54Mbps for 802.11g clients).</p> <p>2.4GHz (G): Allows 802.11g wireless network clients to connect to this router (maximum transfer rate 54Mbps).</p> <p>2.4GHz (B+G+N): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to this router (recommended).</p>

Channel Number	Select a channel from the dropdown menu. Both access points must use the same channel (1 to 13).
MAC Address 1	Input the MAC address of the wireless access point with which you wish to connect.
Wireless Module	Select "Enable" to turn on the 2.4GHz wireless signal and select "Disable" to turn it off.

Click "Apply" to save the changes, or click "Cancel" to discard the changes. After you have clicked "Apply", you will see the following message:



Click "Apply" to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click "Continue" to configure other settings.

3-4-1-4 AP Bridge: Point to Multi-Point

“AP Bridge—Point to Multi-Point” mode connects this router to up to 4 other routers and allows the computers connected to the LAN ports of every router to communicate with each other.

Please note that when you select this mode, this broadband router will act as a wireless bridge only. It will not accept other wireless clients. If you wish to use this function with a wireless access point that supports WDS, please select “AP Bridge—WDS” mode.

Wireless Settings

Mode: AP Bridge-Point to Multi-Point

Band: 2.4 GHz (B+G+N)

Channel Number: 11

MAC address 1: 000000000000

MAC address 2: 000000000000

MAC address 3: 000000000000

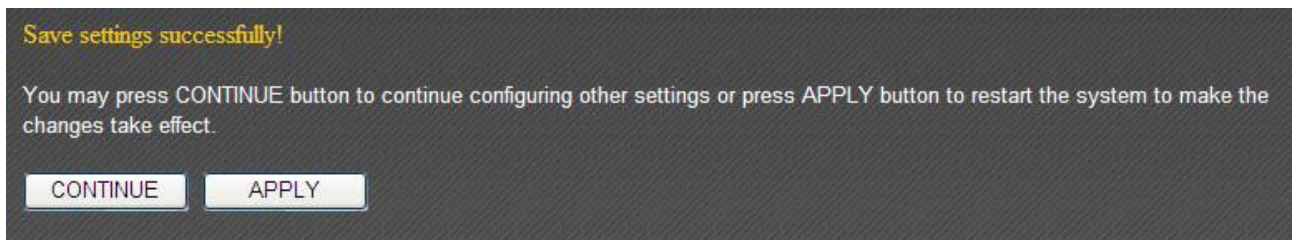
MAC address 4: 000000000000

Wireless Module: Enable Disable

Item Name	Description
Band	Select from one of the following options: 2.4GHz (B): Allows 802.11b wireless network clients to connect to this router (maximum transfer rate 11Mbps). 2.4GHz (N): Allows 802.11n wireless network clients to connect to this router (maximum transfer rate 450Mbps). 2.4GHz (B+G): Allows 802.11b and 802.11g wireless network clients to connect to this router (maximum transfer rate 11Mbps for 802.11b clients and 54Mbps for 802.11g clients). 2.4GHz (G): Allows 802.11g wireless network clients to connect to this router (maximum transfer rate 54Mbps).

	2.4GHz (B+G+N): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to this router (recommended).
Channel Number	Select a channel from the dropdown menu. All access points must use the same channel (1 to 13).
MAC Address 1 to 4	Input the MAC addresses of the wireless access points with which you wish to connect.
Wireless Module	Select "Enable" to turn on the 2.4GHz wireless signal and select "Disable" to turn it off.

Click "Apply" to save the changes, or click "Cancel" to discard the changes. After you have clicked "Apply", you will see the following message:



Click "Apply" to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click "Continue" to configure other settings.

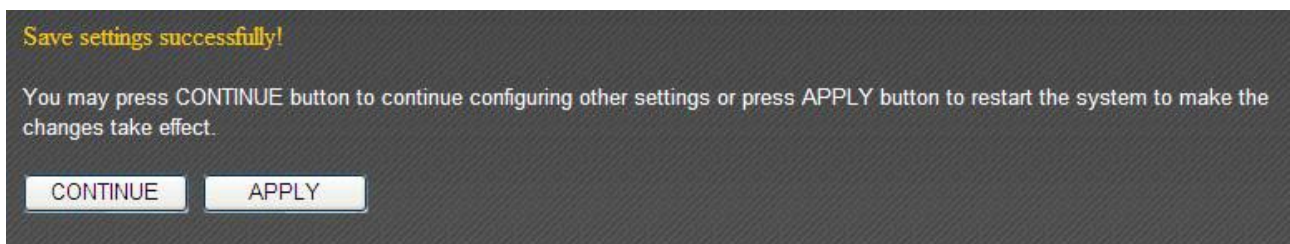
3-4-1-5 AP Bridge: WDS

In “AP Bridge—WDS” mode, this broadband router acts as both a wireless communication bridge and a wireless access point. This router can connect to up to 4 WDS-compatible wireless access points and allows the computers connected every AP to communicate with each other.

Item Name	Description
Band	<p>Select from one of the following options:</p> <p>2.4GHz (B): Allows 802.11b wireless network clients to connect to this router (maximum transfer rate 11Mbps).</p> <p>2.4GHz (N): Allows 802.11n wireless network clients to connect to this router (maximum transfer rate 450Mbps).</p> <p>2.4GHz (B+G): Allows 802.11b and 802.11g wireless network clients to connect to this router (maximum transfer rate 11Mbps for 802.11b clients and 54Mbps for 802.11g clients).</p> <p>2.4GHz (G): Allows 802.11g wireless network clients to connect to this router (maximum transfer rate 54Mbps).</p>

	2.4GHz (B+G+N): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to this router (recommended).
ESSID	This is the name of your router. You can type any alphanumerical character here (maximum 32 characters).
Channel Number	Select a channel from the dropdown menu. All access points must use the same channel (1 to 13).
Associated Clients	Click "Show Active Clients" for the list of all connected wireless clients. Click "Refresh" in the new window to renew the list, and click "Close" to close the window. Note: If you have a pop-up blocker installed, you may have to disable it, or set it to allow the pop-up window to show up.
MAC address 1 to 4	Input the MAC addresses of the wireless access points with which you wish to connect.
Wireless Module	Select "Enable" to turn on the 2.4GHz wireless signal and select "Disable" to turn it off.

Click "Apply" to save the changes, or click "Cancel" to discard the changes. After you have clicked "Apply", you will see the following message:



Click "Apply" to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click "Continue" to configure other settings.

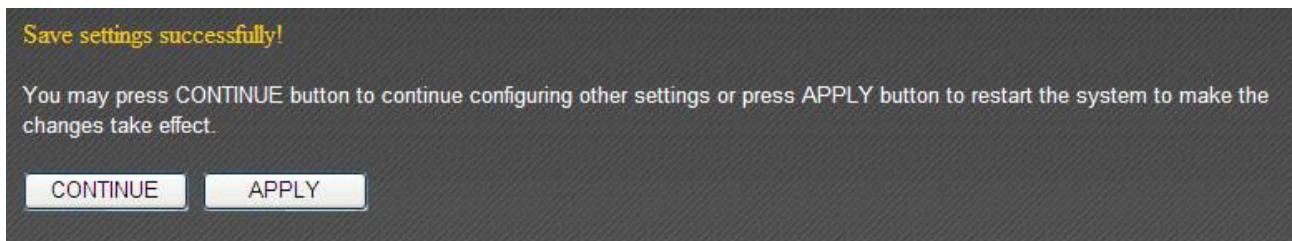
3-4-1-6 Universal Repeater

In “Universal Repeater” mode, this broadband router acts as a wireless signal repeater to extend the wireless coverage of the specified wireless access point.

Item Name	Description
Band	<p>Select from one of the following options:</p> <p>2.4GHz (B): Allows 802.11b wireless network clients to connect to this router (maximum transfer rate 11Mbps).</p> <p>2.4GHz (N): Allows 802.11n wireless network clients to connect to this router (maximum transfer rate 450Mbps).</p> <p>2.4GHz (B+G): Allows 802.11b and 802.11g wireless network clients to connect to this router (maximum transfer rate 11Mbps for 802.11b clients and 54Mbps for 802.11g clients).</p> <p>2.4GHz (G): Allows 802.11g wireless network clients to connect to this router (maximum transfer rate 54Mbps).</p> <p>2.4GHz (B+G+N): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to this router (recommended).</p>

ESSID	This is the name of your router. You can type any alphanumerical character here (maximum 32 characters).
Channel Number	Select a channel from the dropdown menu. All access points must use the same channel (1 to 13).
Associated Clients	Click “Show Active Clients” for the list of all connected wireless clients. Click “Refresh” in the new window to renew the list, and click “Close” to close the window. Note: If you have a pop-up blocker installed, you may have to disable it, or set it to allow the pop-up window to show up.
Root AP SSID	Input the SSID of the wireless access point with which you wish to connect.
Site Survey	Click “Select Site Survey” and a pop-up window will appear. All reachable wireless access points will be shown in the window. Select a wireless access point from the list, and click “Done” to establish a connection. Clicking “Refresh” will renew the list.
Wireless Module	Select “Enable” to turn on the 2.4GHz wireless signal and select “Disable” to turn it off.

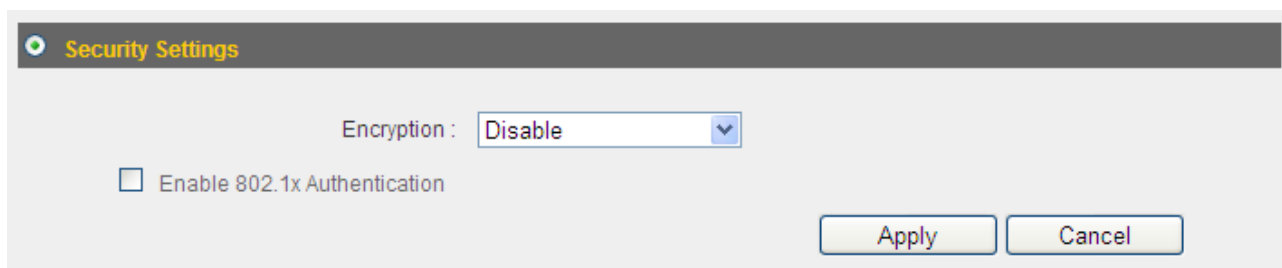
Click “Apply” to save the changes, or click “Cancel” to discard the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-4-2 Security Settings

Advanced security settings are available in certain modes to enhance connection security.

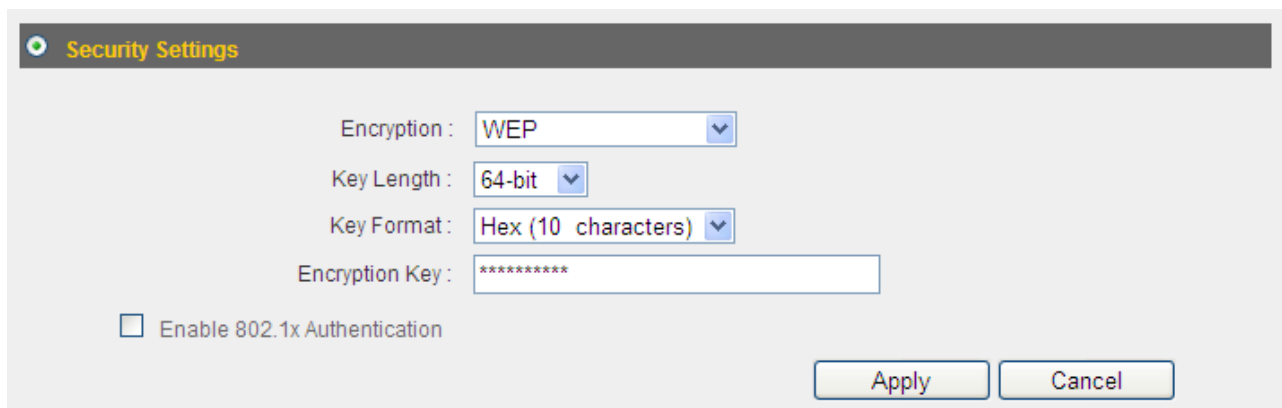


3-4-2-1 Disabled

Connection encryption is disabled under this mode (not recommended).

3-4-2-2 WEP

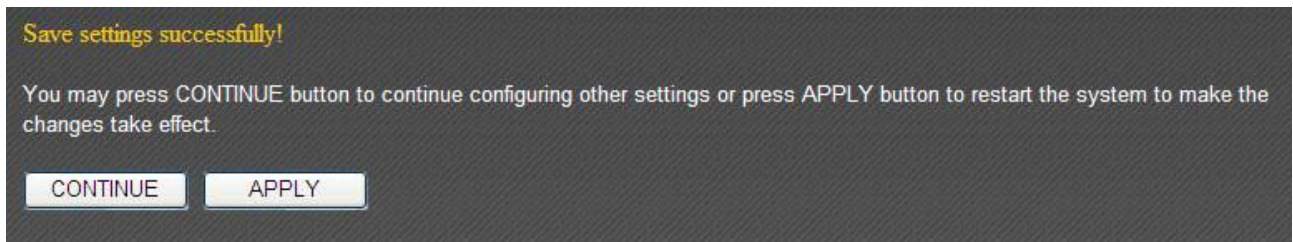
Selecting “WEP” enables WEP (Wired Equivalent Privacy) encryption.



Item Name	Description
Key Length	Two types of key lengths are available: 64-bit and 128-bit.
Key Format	Two types of key formats are available: ASCII and Hex. The number of characters your encryption key can use will be shown here.
Encryption Key	Input an encryption key here. In “ASCII” mode, you can use any alphanumerical character (0-9, a-z, and A-Z). In “Hex” mode, you can use 0-9, a-f, and A-F.
Enable 802.1x	Check this box to enable the 802.1x authentication

Authentication	function. You need a RADIUS server to perform 802.1x authentication.
RADIUS Server IP address	Input the RADIUS server's IP address here.
RADIUS Server Port	Input the RADIUS server port here. Generally, it is "1812".
RADIUS Server Password	Input the password of the RADIUS server here.

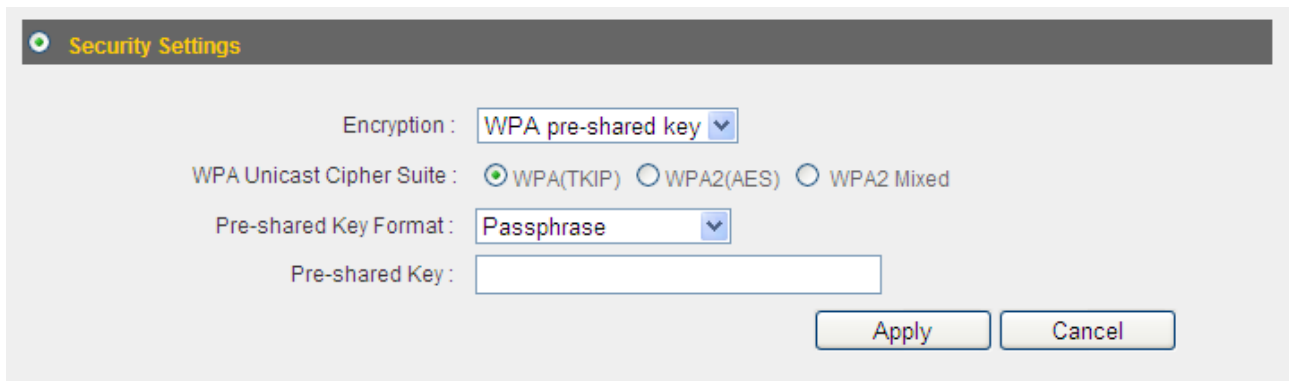
Click "Apply" to save the changes, or click "Cancel" to discard the changes. After you have clicked "Apply", you will see the following message:



Click "Apply" to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click "Continue" to configure other settings.

3-4-2-3 WPA Pre-Shared Key

WPA (Wi-Fi Protected Access) is a safer encryption mode than WEP (recommended).



Security Settings

Encryption : WPA pre-shared key

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

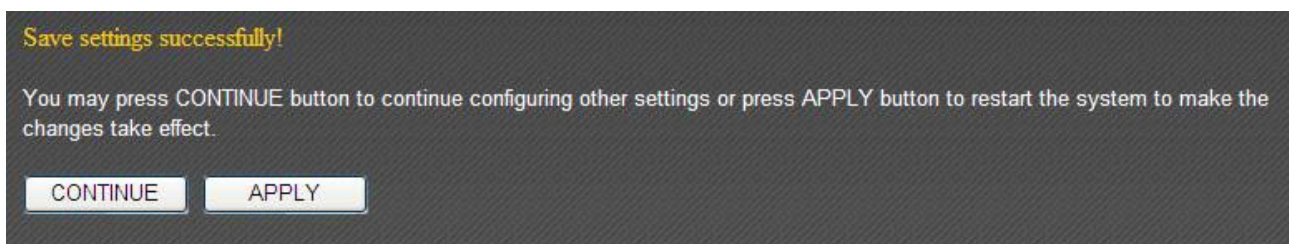
Pre-shared Key Format : Passphrase

Pre-shared Key :

Apply Cancel

Item Name	Description
WPA Unicast Cipher Suite	Please select a WPA cipher suite supported by your wireless client. Available options are “WPA (TKIP)”, “WPA2 (AES)”, and “WPA2 Mixed”.
Pre-Shared Key Format	Select a pre-shared key format here. “Passphrase” allows you to use 8 or more alphanumerical characters (up to 63). “Hex” allows you to use up to 64 characters within the ranges of 0-9, a-f, and A-F.
Pre-shared Key	Input the WPA key here.

Click “Apply” to save the changes, or click “Cancel” to discard the changes. After you have clicked “Apply”, you will see the following message:



Save settings successfully!

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

CONTINUE APPLY

Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-4-2-4 WPA RADIUS

If you have a RADIUS server on your local network, you can authenticate wireless clients via the RADIUS server's user database.

The screenshot shows a 'Security Settings' dialog box with the following fields and options:

- Encryption: WPA RADIUS (selected in a dropdown menu)
- WPA Unicast Cipher Suite: WPA(TKIP) WPA2(AES) WPA2 Mixed
- RADIUS Server IP address: [Empty text box]
- RADIUS Server Port: 1812
- RADIUS Server Password: [Empty text box]
- Buttons: Apply, Cancel

Item Name	Description
WPA Unicast Cipher Suite	Please select a WPA cipher suite supported by your wireless client. Available options are "WPA (TKIP)", "WPA2 (AES)", and "WPA2 Mixed".
RADIUS Server IP address	Input the RADIUS server's IP address here.
RADIUS Server Port	Input the RADIUS server port here. Generally, it is "1812".
RADIUS Server Password	Input the password of the RADIUS server here.

Click "Apply" to save the changes, or click "Cancel" to discard the changes. After you have clicked "Apply", you will see the following message:

The screenshot shows a message dialog box with the following content:

- Header: Save settings successfully!
- Text: You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.
- Buttons: CONTINUE, APPLY

Click "Apply" to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click "Continue" to configure other settings.

3-4-3 MAC Address Filtering

This function will help you prevent unauthorized users from connecting to your wireless router. Only those wireless devices whose MAC address matches the ones you have assigned here can gain access to your wireless router. Up to 20 MAC addresses can be assigned.

To enable MAC address filtering, check the “Enable Wireless Access Control” box.

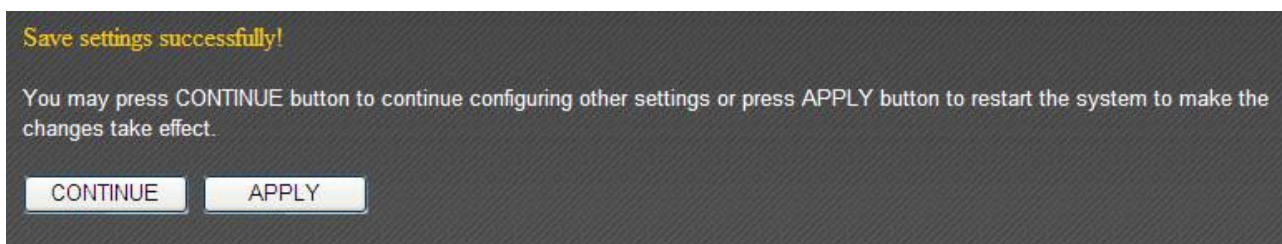
Item Name	Description
MAC Address	Input the MAC address you wish to add here.
Comment	You can input up to 16 alphanumerical characters describing the MAC address here (optional).
Add	Click “Add” to add the MAC address and associated comment to the MAC address list.
Clear	Click “Clear” to remove everything in the MAC address and comment fields.

All MAC address entries will be listed in the following table:

NO.	MAC address	Comment	Select
1	11:22:33:44:55:66	John's Computer	<input type="checkbox"/>
2	aa:bb:cc:dd:ee:ff	Mary's Computer	<input type="checkbox"/>

To delete one or more entries, please check the box of the corresponding entry (under “Select”), and click “Delete Selected”. If you wish to delete all the entries, click “Delete All”.

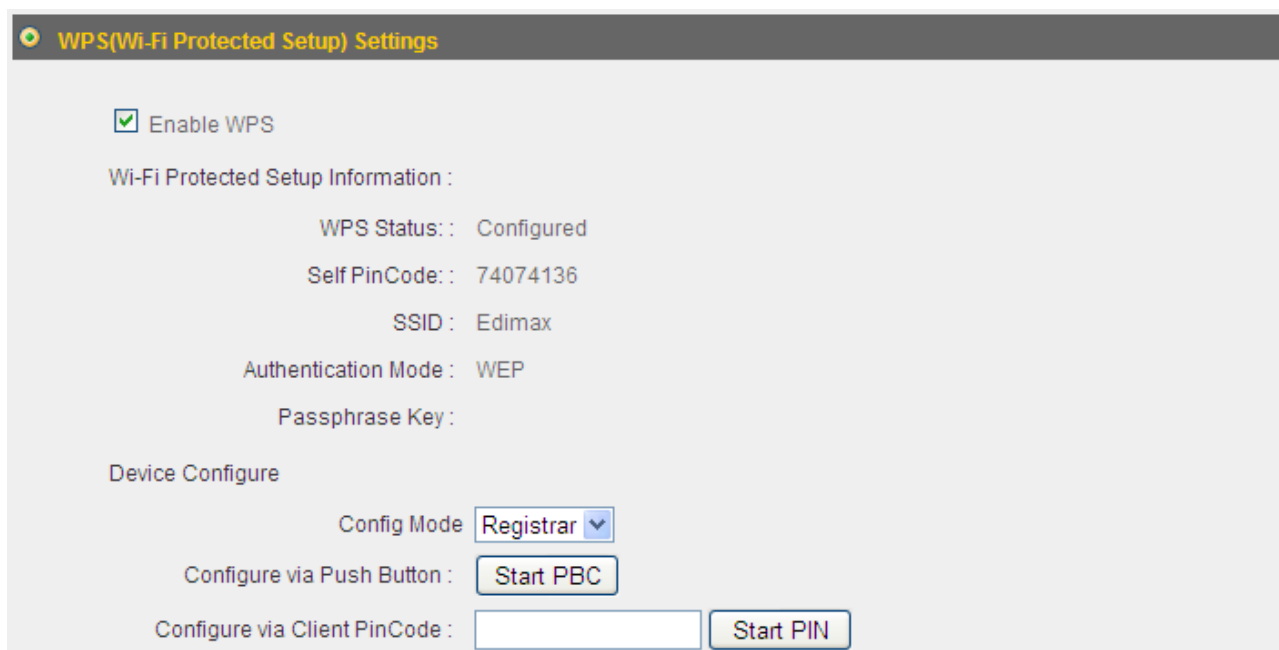
Click “Apply” to save the changes, or click “Cancel” to discard the changes. After you have clicked “Apply”, you will see the following message:



Click “Apply” to save the changes and restart the broadband router. It takes about 60 seconds for the broadband router to restart. Click “Continue” to configure other settings.

3-4-4 WPS (Wi-Fi Protected Setup) Settings

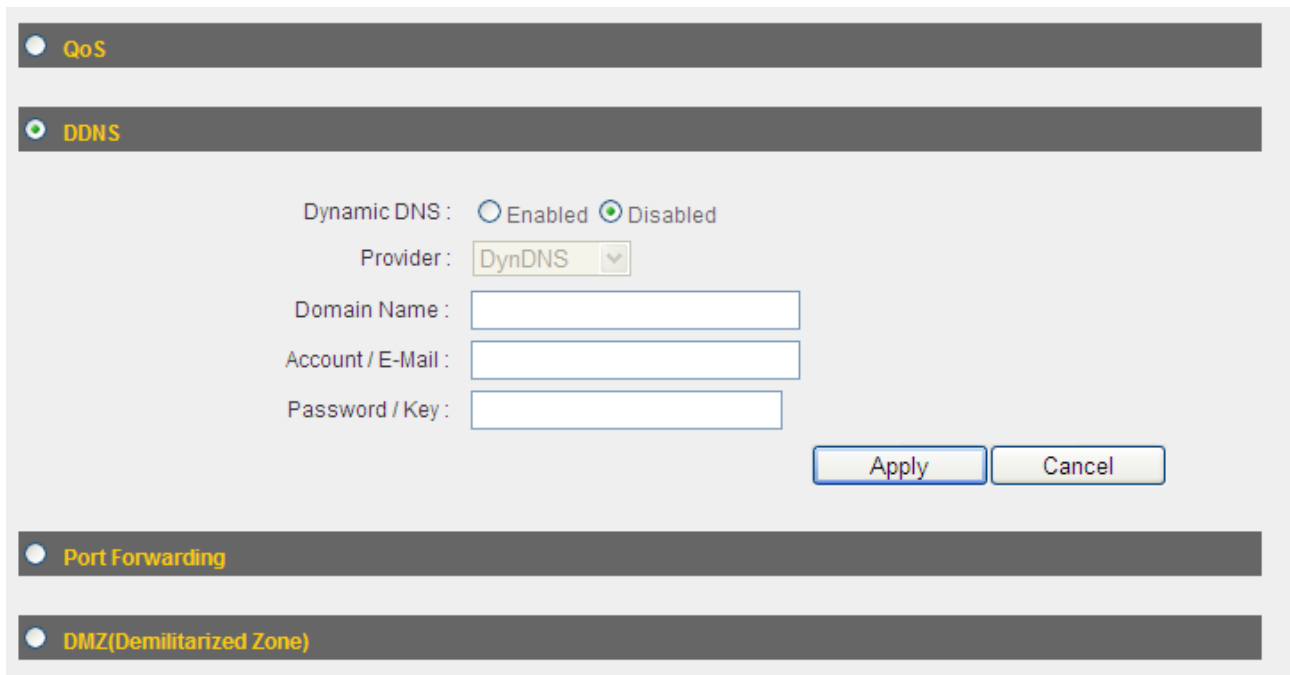
WPS (Wi-Fi Protected Setup) is a convenient way to establish a secure connection between this broadband router and WPS-compatible wireless clients.



Item Name	Description
Enable WPS	Check this box to enable the WPS function.
WPS Status	The status of the WPS configuration is displayed here.
Self PIN Code	This router's WPS PIN code is displayed here.
SSID	This router's SSID is displayed here.
Authentication Mode	This router's wireless security authentication mode is displayed here.
Passphrase Key	The WPA passphrase key is displayed as asterisk here.
Config Mode	Select this router's WPS configuration role here. Registrar: This broadband router will act as the WPS registrar and wait for the wireless client's WPS configuration request. Enrollee: This broadband router will act as the WPS enrollee and send WPS configuration requests to other WPS registrars.
Configure via Push-Button	Click "Start PBC" to start push-button WPS configuration. You can also use the "WPS/Reset" button located at the back of this router.
Configure via Client PIN Code	Input the WPS-enabled wireless client's PIN code and click "Start PIN" to establish a WPS connection.

3-5 Advance Settings

You can configure such advanced networking functions like QoS, DDNS, port forwarding, and DMZ under “Advanced Settings”.



The screenshot shows a web-based configuration interface for a network device. At the top, there are four menu items: "QoS", "DDNS", "Port Forwarding", and "DMZ(Demilitarized Zone)". The "DDNS" option is selected and highlighted in yellow. Below the menu, the "Dynamic DNS" section is visible. It includes a radio button for "Enabled" (which is unselected) and a radio button for "Disabled" (which is selected). Below this, there is a dropdown menu for "Provider" set to "DynDNS". There are three text input fields: "Domain Name", "Account / E-Mail", and "Password / Key". At the bottom right of the DDNS section, there are two buttons: "Apply" and "Cancel".

3-5-1 QoS

Quality of service provides an efficient way for computers on the network to share the internet bandwidth with a promised quality of internet service. Without QoS, all computers and devices on the network will compete with each other to get internet bandwidth, and some applications which require guaranteed bandwidth (like video streaming and network telephone) will be affected, therefore an unpleasing result will occur, like the interruption of video / audio transfer.

With this function, you can limit the maximum bandwidth or give a guaranteed bandwidth for a specific computer, to avoid said unpleasing result from happening.

3-5-1-1 Basic QoS Settings

QoS

Enable QoS

Total Download Bandwidth : kbps

Total Upload Bandwidth : kbps

Current QoS Table :

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

QoS Rules Table :

Rule Name :

Bandwidth : Kbps

Local IP Address : -

Local Port Range :


Remote IP Address : -

Remote Port Range :

Traffic Type :

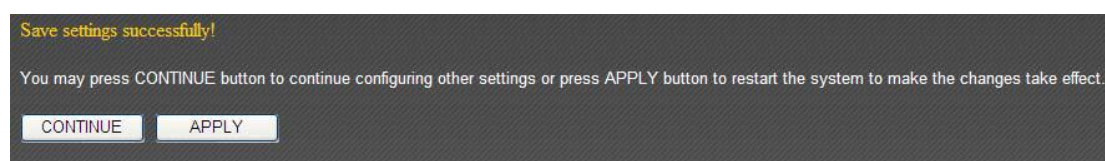
Protocol :

Here are descriptions of every setup items:

Item Name	Description
<i>Enable QoS</i>	<i>Check this box to enable QoS function, uncheck it to disable QoS.</i>
<i>Total Download Bandwidth</i>	<i>You can set the limit of total download bandwidth in kbits. To disable download bandwidth limitation, input '0' here.</i>
<i>Total Upload Bandwidth</i>	<i>You can set the limit of total upload bandwidth in kbits. To disable upload bandwidth limitation, input '0' here.</i>
<i>Rule Name</i>	<i>Input a name for this QoS rule for identification purpose. This name should be unique and not the same with others.</i>
<i>Bandwidth</i>	<p><i>Set the speed limitation for this QoS rule:</i></p>  <p style="text-align: center;">(1) (2) (3)</p> <p><i>(1) Please select Download / Upload for the direction of data for this QoS rule first,</i></p> <p><i>(2) Input the data rate for this QoS rule,</i></p> <p><i>(3) and select Guarantee (provides a guaranteed speed for this rule), or Max (</i></p>
<i>Local IP Address</i>	<i>Set the IP address range that will be affected by this QoS rule. If only one IP address is involved, input the IP address in left field only.</i>
<i>Local Port Range</i>	<i>Set the port range that will activate this QoS rule. If only one port is involved, input a single number here (1 to 65535); if multiple ports are involved, input starting / ending port number in x-y format (like 10-20).</i>
<i>Remote IP Address</i>	<i>Set remote IP addresses that will trigger this QoS rule. If only one IP address is involved, input the IP address in left field only.</i>
<i>Remote Port Range</i>	<i>Set the port range that will activate this QoS</i>

	<i>rule. If only one port is involved, input a single number here (1 to 65535); if multiple ports are involved, input starting / ending port number in x-y format (like 10-20).</i>
<i>Traffic Type</i>	<i>If you're creating a QoS rule for a specific type of traffic, you can select it from this menu and you don't have to input port range above.</i>
<i>Protocol</i>	<i>Select the protocol type here (TCP or UDP).</i>
<i>Add</i>	<i>Click 'add' button to add a new QoS rule (detailed instructions will be given below).</i>
<i>Reset</i>	<i>If you want to erase all values you just entered. Click 'Reset'</i>
<i>Edit</i>	<i>If you want to modify the content of a specific rule, please check the 'select' box of the rule you want to edit, then click 'Edit' button. Only one rule should be selected a time!</i>
<i>Delete Selected</i>	<i>You can delete selected rules by clicking this button. You can select one or more rules to delete by check the 'select' the box of the rule(s) you want to delete a time. If the QoS table is empty, this button will be grayed out and cannot be clicked.</i>
<i>Delete All</i>	<i>By clicking this button, you can delete all rules currently listed in the QoS table. If the QoS table is empty, this button will be grayed out and cannot be clicked.</i>
<i>Move Up</i>	<i>Move selected rule up. First QoS rule will be proceed first, so you can move higher priority rules up.</i>
<i>Move Down</i>	<i>Move selected rule down.</i>

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal

and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-5-2 DDNS

DDNS (Dynamic DNS) is a IP-to-Hostname mapping service for those Internet users who don't have a static (fixed) IP address. It will be a problem when such user wants to provide services to other users on Internet, because their IP address will vary every time when connected to Internet, and other user will not be able to know the IP address they're using at a certain time.

This router supports DDNS service of following service providers:

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/>)

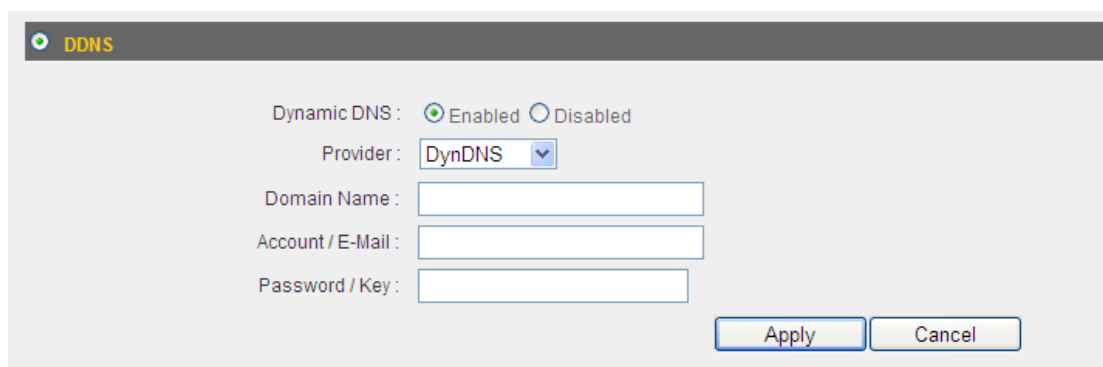
DyNS (<http://www.dyns.cx/>)

ZoneEdit (<http://www.zoneedit.com>)

DHIS (<http://www.dhis.org/>)

CyberGate (<http://cybergate.planex.co.jp/ddns/>)

Please go to one of DDNS service provider's webpage listed above, and get a free DDNS account by the instructions given on their webpage. After that, you can use the DDNS page to setup DDNS parameters to use DDNS service:



DDNS

Dynamic DNS : Enabled Disabled

Provider : DynDNS

Domain Name :

Account / E-Mail :

Password / Key :

Apply Cancel

Here are descriptions of every setup items:

Item Name	Description
<i>Dynamic DNS</i>	<i>If you want to enable DDNS function, please select 'Enabled'; otherwise please select 'Disabled'</i>
<i>Provider</i>	<i>Select your DDNS service provider here.</i>
<i>Domain Name</i>	<i>Input the domain name you've obtained from DDNS service provider.</i>
<i>Account / E-Mail</i>	<i>Input account or email of DDNS registration.</i>
<i>Password / Key</i>	<i>Input DDNS service password or key.</i>

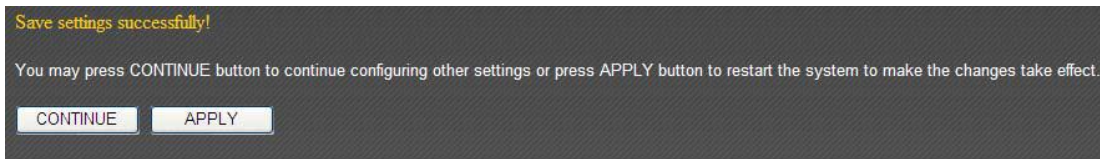
If your DDNS provider is 'DHIS', the settings will be different:

The screenshot shows a configuration form for Dynamic DNS. At the top, 'Dynamic DNS' is set to 'Enabled' with a radio button. Below it, 'Provider' is a dropdown menu set to 'DHIS'. 'HostID' is a text input field containing '0'. 'ISAddr' is a text input field containing '0.0.0.0'. 'Authentication Type' is a dropdown menu set to 'password'. 'HostPass' is an empty text input field.

Here are descriptions of every setup items:

Item Name	Description
HostID	Please input the HostID you applied during DHIS registration.
ISAddr	Please input the ISAddr you applied during DHIS registration.
Authentication Type	Please select the DHIS user authentication type from dropdown menu: password or QRC.
HostPass	Please input the HostID you applied during DHIS registration. (This field will appear only when authentication type is password).
AuthP / AuthQ	Please input the AuthP/AuthQ you applied during DHIS registration. (This field will appear only when authentication type is QRC).

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-5-3 Port Forwarding

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

If the port number of Internet IP address and private IP address is different, please use 'Virtual Server' function.

The port forwarding setting page looks like this:

Here are descriptions of every setup items:

Item Name	Description
<i>Enable Port Forwarding</i>	<i>Check this box to enable port forwarding, and uncheck this box to disable port forwarding.</i>
<i>Private IP</i>	<i>Input the IP address of the computer on local network which provides internet service.</i>
<i>Computer name</i>	<i>All computer names found by this broadband router on local network will be listed here. You can select the computer name and click '<<' button to add selected computer's IP address to 'Private IP' field. <i>Please note that this list may not be able to list all computers on your local network.</i></i>
<i>Type</i>	<i>Select the type of connection, TCP or UDP. If you're not sure, please select 'Both'.</i>
<i>Port Range</i>	<i>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, just fill the port number in the left field.</i>
<i>Comment</i>	<i>Please input any text to describe this mapping, up to 16 alphanumerical characters.</i>

<i>Add</i>	<i>Add the mapping to port forwarding table.</i>
<i>Reset</i>	<i>Remove all inputted values.</i>

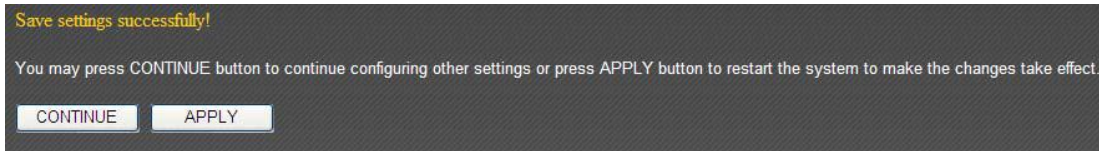
All existing URLs will be displayed in 'Current URL Blocking Table':

Current Port Forwarding Table :

NO.	Computer name	Private IP	Type	Port Range	Comment	Select
1	OFFLINE	192.168.98.205	TCP+UDP	1000-2000	SIP Phone	<input type="checkbox"/>

If you want to delete a specific port forwarding entry, check the 'select' box of the port forwarding entry you want to delete, then click 'Delete Selected' button. (You can select more than one port forwarding entries). If you want to delete all port forwarding entries listed here, please click 'Delete All' button or you can also click 'Reset' button to unselect all port forwarding entries.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-5-4 DMZ

Demilitarized Zone (DMZ) is a special area in your local network. This area resides in local network, and all computers in this area uses private IP address, too. But these private IP addresses are mapped to a certain Internet IP address, so other people on Internet can fully access those computers in DMZ.

The DMZ setting page looks like this:

Here are descriptions of every setup items:

Item Name	Description
<i>Enable DMZ</i>	<i>Check this box to enable DMZ function, uncheck this box to disable DMZ function.</i>
<i>Public IP address</i>	<i>You can select 'Dynamic IP' or 'Static IP' here. If you select 'Dynamic IP', you have to select an Internet connection session from dropdown menu; if you select 'Static IP', please input the IP address that you want to map to a specific private IP address.</i>
<i>Client PC IP address</i>	<i>Please input the private IP address that the Internet IP address will be mapped to.</i>
<i>Type</i>	<i>Select the type of connection, TCP or UDP. If you're not sure, please select 'Both'.</i>
<i>Port Range</i>	<i>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, just fill the port number in the left field.</i>
<i>Comment</i>	<i>Please input any text to describe this mapping, up to 16 alphanumerical characters.</i>
<i>Add</i>	<i>Add the mapping to port forwarding table.</i>
<i>Reset</i>	<i>Remove all inputted values.</i>

NOTE: Please note that every public IP address can be mapped to a single Client PC IP address only.

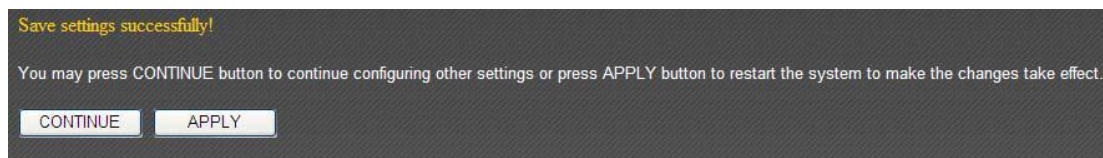
All existing DMZ entries will be displayed in 'Current DMZ Table':

Current DMZ Table :

NO.	Computer name	Public IP address	Client PC IP address	Select
1	OFFLINE	---	192.168.98.205	<input type="checkbox"/>

If you want to delete a specific DMZ entry, check the 'select' box of the DMZ entry you want to delete, then click 'Delete Selected' button. (You can select more than one DMZ entries). If you want to delete all DMZ entries listed here, please click 'Delete All' button or you can also click 'Reset' button to unselect all DMZ entries.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-6 NAT

Network address translations solve the problem of sharing a single IP address to multiple computers. Without NAT, all computers must be assigned with a valid Internet IP address to get connected to Internet, but Internet service providers only provide very few IP addresses to every user. Therefore it's necessary to use NAT technology to share a single Internet IP address to multiple computers on local network, so everyone can get connected to Internet.

This broadband router supports four types of NAT functions, and the instructions of these functions will be given below.

3-6-1 Virtual Server

This function allows you to redirect a port on Internet IP address (on WAN port) to a specified port of an IP address on local network, so you can setup an Internet service on the computer on local network, without exposing it on Internet directly. You can also build many sets of port redirection, to provide many different Internet services on different local computers via a single Internet IP address.

Virtual Server

Enable Virtual Server

Private IP	Computer name	Private Port	Type	Public Port	Comment
<input type="text"/>	<< -----Select----- ▾	<input type="text"/>	Both ▾	<input type="text"/>	<input type="text"/>

Current Virtual Server Table:

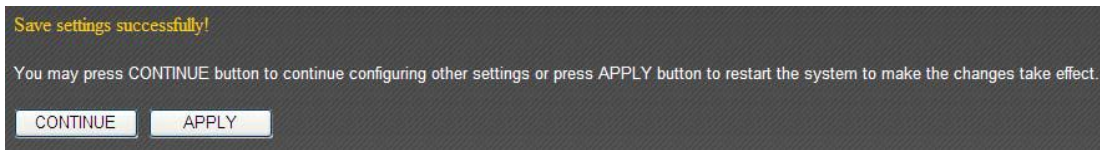
NO.	Computer name	Private IP	Private Port	Type	Public Port	Comment	Select
-----	---------------	------------	--------------	------	-------------	---------	--------

Here are descriptions of every setup items:

Item Name	Description
<i>Enable Virtual Server</i>	<i>Check this box to enable virtual server, and uncheck this box to disable virtual server.</i>
<i>Private IP</i>	<i>Input the IP address of the computer which provides Internet service.</i>
<i>Computer name</i>	<i>All computer names found by this broadband router on local network will be listed here. You can select the computer name and click '<<' button to add selected computer's IP address to 'Private IP' field.</i> <i>Please note that this list may not be able to list all computers on your local network.</i>
<i>Private Port</i>	<i>Input the port number of the IP address which provides Internet service.</i>
<i>Type</i>	<i>Select the type of connection, TCP or UDP. If you're not sure, please select 'Both'</i>
<i>Public Port</i>	<i>Please select the port number of Internet IP address which will be redirected to the port number of local IP address defined above.</i>
<i>Comment</i>	<i>Please input any text to describe this mapping, up to 16 alphanumerical characters.</i>
<i>Add</i>	<i>Add the mapping to virtual server table.</i>
<i>Reset</i>	<i>Remove all inputted values.</i>

All existing virtual server mappings will be displayed in this page. To delete one or more mappings, check the box of the mapping, then click 'Delete Selected' button to remove the mapping. To delete all existing mappings, click 'Delete All' button. If you want to uncheck all boxes, click 'Reset'.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-6-2 Special Applications

Some applications require more than one connection a time; these applications won't work with simple NAT rules. In order to make these applications work, you can use this function to let these applications work.

The screenshot shows the 'Special applications' configuration page. At the top, there is a checkbox labeled 'Enable Special Applications' which is checked. Below this is a table with columns: 'IP Address' (containing '0.0.0.0'), 'Computer name' (with a '<<' button and a dropdown menu), 'TCP Port to Open', 'UDP Port to Open', and 'Comment'. Below the table is a 'Popular Applications' section with a dropdown menu labeled 'Select Game' and an 'Add' button. At the bottom right of this section are 'Add' and 'Reset' buttons. Below this is the 'Current Trigger-Port Table' with columns: 'NO.', 'Computer name', 'IP Address', 'TCP Port to Open', 'UDP Port to Open', 'Comment', and 'Select'. Below the table are buttons for 'Delete Selected', 'Delete All', and 'Reset'. At the very bottom are 'Apply' and 'Cancel' buttons.

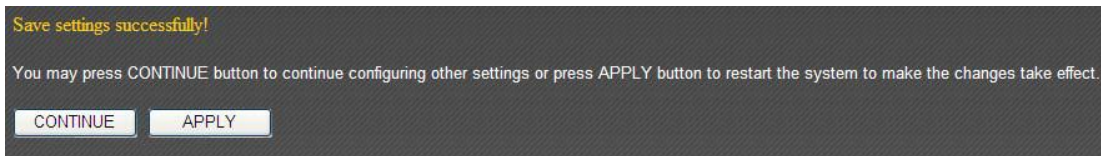
Here are descriptions of every setup items:

Item Name	Description
<i>Enable</i>	<i>Check this box to enable support for special applications, and uncheck this box to disable this support.</i>
<i>IP Address</i>	<i>Input the IP address of the computer which is going to use the special application.</i>
<i>Computer name</i>	<i>All computer names found by this broadband router on local network will be listed here. You can select the computer name and click '<<' button to add selected computer's IP address to 'IP Address' field.</i> <i>Please note that this list may not be able to list all computers on your local network.</i>
<i>TCP Port to Open</i>	<i>Input the TCP port number required by the special application, the port number can be a single value, or a range (like 20-50). If you need to input more than one port number and they're not contiguous, list all port numbers here and separate them by comma (,). If the application does not use TCP port, leave it blank.</i>
<i>UDP Port to Open</i>	<i>Input the UDP port number required by the special application, the port number can be a</i>

	<i>single value, or a range (like 20-50). If you need to input more than one port number and they're not contiguous, list all port numbers here and separate them by comma (,). If the application does not use UDP port, leave it blank.</i>
<i>Comment</i>	<i>You can input any text here to help you remember the purpose of this item. This is optional.</i>
<i>Select Game</i>	<i>This router comes with a numerous port mapping settings of network games. If the game you wish to set is listed here, you can select it from dropdown menu.</i> <i>After a game is selected, click 'Add' (the one next to 'Select Game' dropdown list) to add the connection parameters to all respective fields.</i>
<i>Add</i>	<i>Click this button to add a new port mapping rule to special applications table.</i>
<i>Reset</i>	<i>Click this button to remove all values in every field.</i>

All existing special application mappings will be displayed in this page. To delete one or more mappings, check the box of the mapping, then click 'Delete Selected' button to remove the mapping. To delete all existing mappings, click 'Delete All' button. If you want to uncheck all boxes, click 'Reset'.

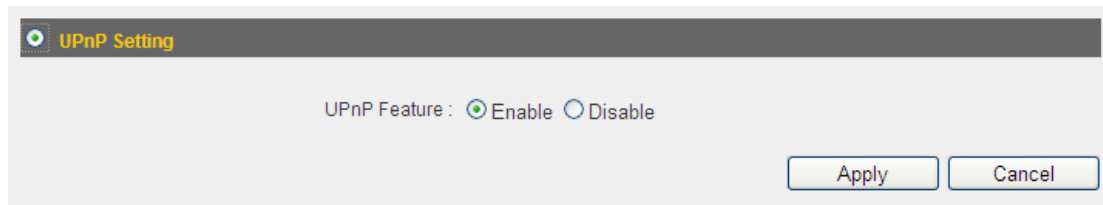
When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



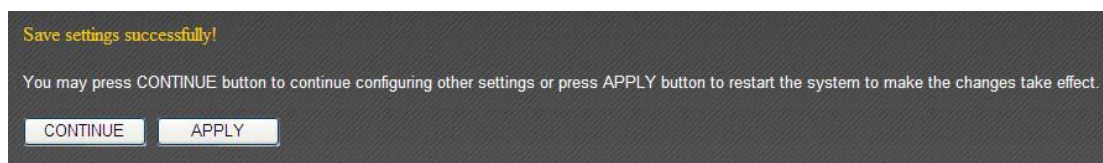
Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-6-3 UPnP Settings

BR-6258n broadband router supports UPnP (universal plug-and-play), which allows other network devices to communicate with this broadband router to exchange information about network capability for intercommunication.



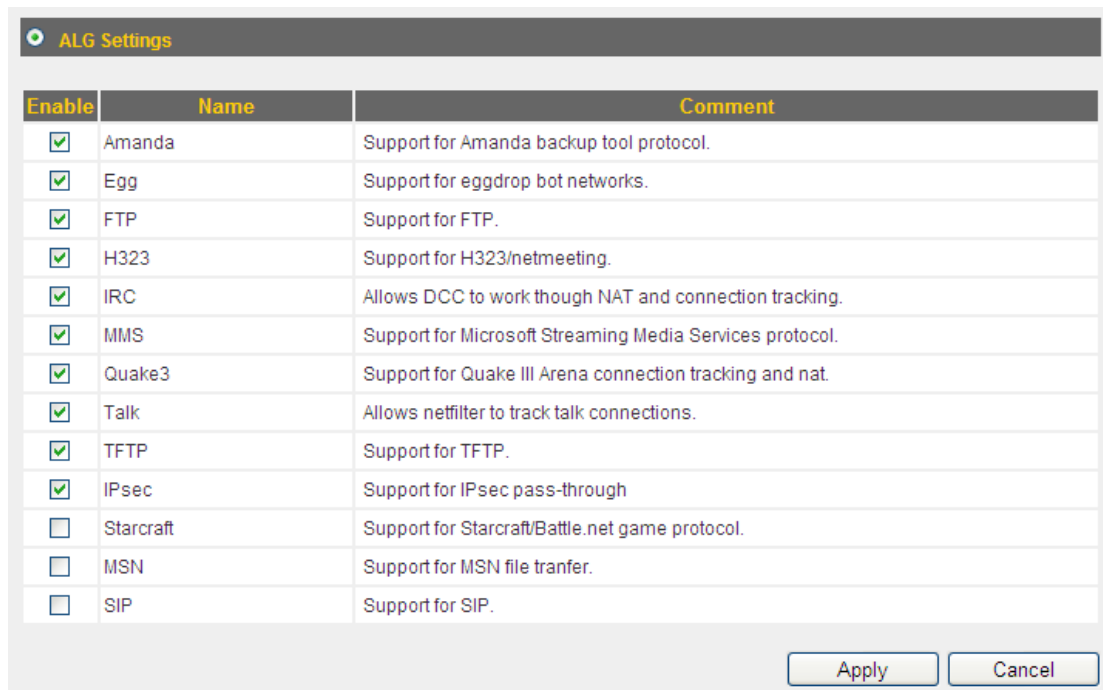
After you made your choice, please click 'Apply' button:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-6-4 ALG Settings

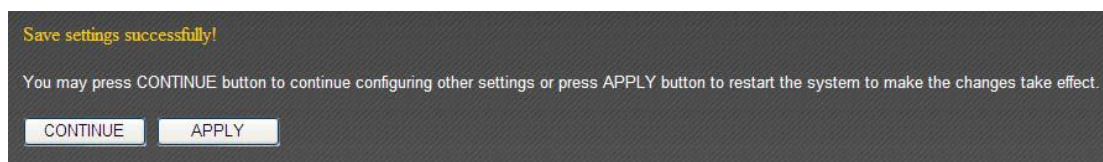
ALG (Application Layer Gateway) is a kind of network connection ability support for specific network applications like game and instant online chat. Without ALG support, these applications will not be able to communicate with their server when working with BR-6258n broadband router.



Enable	Name	Comment
<input checked="" type="checkbox"/>	Amanda	Support for Amanda backup tool protocol.
<input checked="" type="checkbox"/>	Egg	Support for eggdrop bot networks.
<input checked="" type="checkbox"/>	FTP	Support for FTP.
<input checked="" type="checkbox"/>	H323	Support for H323/netmeeting.
<input checked="" type="checkbox"/>	IRC	Allows DCC to work though NAT and connection tracking.
<input checked="" type="checkbox"/>	MMS	Support for Microsoft Streaming Media Services protocol.
<input checked="" type="checkbox"/>	Quake3	Support for Quake III Arena connection tracking and nat.
<input checked="" type="checkbox"/>	Talk	Allows netfilter to track talk connections.
<input checked="" type="checkbox"/>	TFTP	Support for TFTP.
<input checked="" type="checkbox"/>	IPsec	Support for IPsec pass-through
<input type="checkbox"/>	Starcraft	Support for Starcraft/Battle.net game protocol.
<input type="checkbox"/>	MSN	Support for MSN file tranfer.
<input type="checkbox"/>	SIP	Support for SIP.

Apply Cancel

All applications that require ALG support and compatible with this broadband router is listed here. You can check all applications you will use on local computer. After you made your choice, please click 'Apply' button:



Save settings successfully!

You may press CONTINUE button to continue configuring other settings or press APPLY button to restart the system to make the changes take effect.

CONTINUE APPLY

Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-6-5 Static Routing

In most cases, all your computers on local network will use default gateway (generally provided by your ISP) to access servers on Internet. However, if you have preferred network route you wish to redirect network traffic, you can use this function to create dedicated route for specific network destination and bypass default gateway.

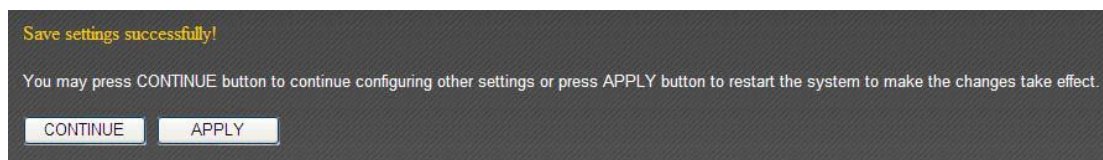
Most users will not require this function to access Internet.

Here are descriptions of every setup items:

Item Name	Description
<i>Enable Static Routing</i>	<i>Enable static routing function.</i>
<i>Destination LAN IP</i>	<i>Input destination network's address here.</i>
<i>Subnet Mask</i>	<i>Input the subnet mask of destination network here.</i>
<i>Default Gateway</i>	<i>Input the IP address of the gateway which leads to this network here.</i>
<i>Hop Count</i>	<i>Input the hop count (the distance between destination network and this broadband router) here.</i>
<i>Interface</i>	<i>Input the interface which leads to destination network.</i>
<i>Add</i>	<i>Click to add this static route policy to static route table.</i>
<i>Reset</i>	<i>Click to clear all inputted texts.</i>

If you want to delete a specific static route entry, check the 'select' box of the static route entry you want to delete, then click 'Delete Selected' button. (You can select more than one static route entries). If you want to delete all static route entries listed here, please click 'Delete All' button or you can also click 'Reset' button to unselect all static route entries.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-7 Firewall

This broadband router supports several firewall functions which will help you to protect your network and computer. In this chapter, instructions for using these functions will be given, so you can utilize these functions to protect your network from hackers and malicious intruders.

3-7-1 Access Control

By using access control, you can restrict your computers from accessing improper website, or using disallowed applications. You can even only allow computers with certain MAC address to access the network, or deny the computers in the list from accessing Internet.

MAC Filtering: Deny or allow access based on MAC address of client computer

Enable MAC Filtering Deny Allow

Client PC MAC address	Computer name	Comment
<input type="text"/>	<< -----Select----- >>	<input type="text"/>
		<input type="button" value="Add"/> <input type="button" value="Reset"/>

MAC Filtering Table:

NO.	Computer name	Client PC MAC address	Comment	Select
				<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>

Here are descriptions of every setup items:

Item Name	Description
<i>Enable MAC Filtering</i>	<i>Check this box to enable MAC address based filtering, and please select 'Deny' or 'Allow' to decide the behavior of MAC filtering table. If you select deny, all MAC addresses listed in filtering table will be denied from connecting Internet; if you select allow, only MAC addresses listed in filtering table will be able to connect to Internet.</i>
<i>Client PC MAC address</i>	<i>Please input the MAC address of computer or network device here, dash (-) or colon (:) are not required. (i.e. If the MAC address label of your wireless device indicates 'aa-bb-cc-dd-ee-ff' or 'aa:bb:cc:dd:ee:ff', just input 'aabbccddeeff')</i>
<i>Computer Name</i>	<i>All computer names found by this broadband</i>

	<p>router on local network will be listed here. You can select the computer name and click '<<' button to add selected computer's IP address to 'Private IP' field.</p> <p>Please note that this list may not be able to list all computers on your local network. If you think some computer doesn't appear in the list, select 'Refresh' and this broadband router will rescan for all computers attached to LAN port again.</p>
Comment	<p>You can input any text here as the comment of this MAC address, like 'ROOM 2A Computer' or anything. You can input up to 16 alphanumerical characters here. This is optional and you can leave it blank, however, it's recommended to use this field to write a comment for every MAC addresses as a memory aid.</p>
Add	<p>Click 'Add' button to add the MAC address and associated comment to the MAC address filtering table.</p>
Reset	<p>Remove all inputted values.</p>

All MAC address entries will be listed in this page:

MAC Filtering Table:

NO.	Computer name	Client PC MAC address	Comment	Select
1	OFFLINE	11:22:33:44:55:66	Banned PC	<input type="checkbox"/>

To delete one or more entries listed here, please check the box of the mapping entry (under 'Select'), and click 'Delete Selected' button.

If you wish to delete all mapping entries, click 'Delete All' button. To deselect all checked boxes, click 'Reset' button.

If you wish to use IP address-based filtering, please use 'IP Filtering Table' in this page:

IP Filtering Table :

NO.	Client PC Description	Client PC IP address	Client Service	Protocol	Port Range	Select
1	Banned computer	192.168.98.1		TCP+UDP	100-200	<input type="checkbox"/>

Please check 'Enable IP Filtering Table' box first, and select 'Deny' or 'Allow' to decide the behavior of IP filtering table (Deny the access of IP addresses in the list, or allow the access of IP addresses in the list). You have to click 'Add PC' button to add a new IP address to the list:

Access Control Add PC

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

Client PC Description:

Client PC IP address : -

Here are descriptions of every setup items:

Item Name	Description
<i>Client PC Description</i>	<i>Please input any text to describe this IP address, up to 16 alphanumerical characters.</i>
<i>Client PC IP address</i>	<i>Please input the starting IP address in the left field, and input the end IP address in the right field to define a range of IP addresses, or just input the IP address in the left field to define a single IP address.</i>

You also have to select the type of Internet services that will be applied to this access control rule from the list:

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

You can select multiple services here. If you wish to deny or allow all services of certain IP address(es), please select both 'TCP' and 'UDP'.

If the service you wish to deny or allow is not listed, you can use 'User Define Service' table to add a new service of your own:

User Define Service

Protocol:

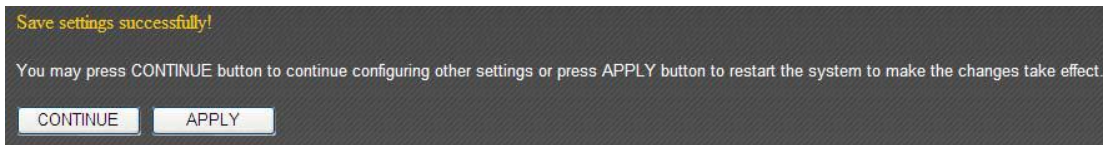
Port Range:

Here are descriptions of every setup items:

Item Name	Description
<i>Protocol</i>	<i>Please select the protocol type of this service: TCP or UDP, or 'Both'.</i>
<i>Port Range</i>	<i>Please input the port range if this service. For a single port number, just input the number of service port (like '110').</i> <i>If this service consists multiple continuous ports, you can input '110-120' for port number 110 to 120, or '110,115,120' for port number 110, 115, and 120.</i>

Click 'Add' to add this IP address restriction rule to the list (and back to previous page), or click 'Reset' to clear all texts in every field.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-7-2 URL Blocking

If you want to prevent computers in local network from accessing certain website (like pornography, violence, or anything you want to block), you can use this function to stop computers in local network from accessing the site you defined here.

This function is useful for parents and company managers.

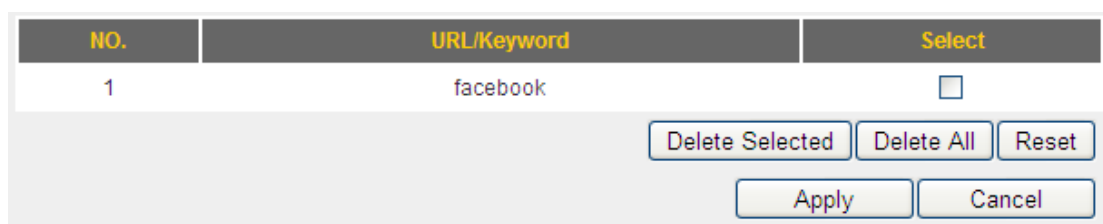


The screenshot shows a configuration window titled "URL Blocking". At the top left, there is a green checkmark icon and the text "URL Blocking". Below this, there is a checked checkbox labeled "Enable URL Blocking". Underneath the checkbox is a text input field labeled "URL/Keyword:". To the right of the input field are two buttons: "Add" and "Reset".

Here are descriptions of every setup items:

Item Name	Description
<i>Enable URL Blocking</i>	<i>Check this box to enforce URL Blocking, uncheck it to disable URL Blocking.</i>
<i>URL/Keyword</i>	<i>Input the URL (host name or IP address of website, like http://www.blocked-site.com or http://11.22.33.44), or the keyword which is contained in URL (like pornography, cartoon, stock, or anything).</i>
<i>Add</i>	<i>Click 'Add' button to add the URL / keyword to the URL / Keyword filtering table.</i>
<i>Reset</i>	<i>Click 'Reset' to remove the value you inputted in URL/Keyword field.</i>

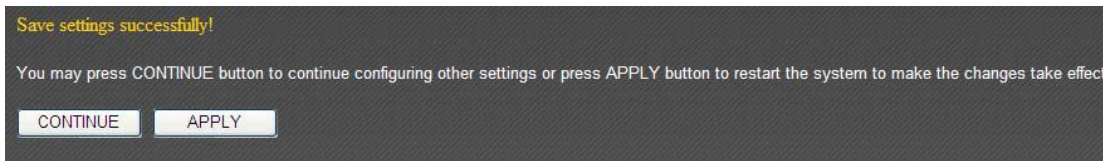
All existing URLs will be displayed in 'Current URL Blocking Table':



The screenshot shows a table with three columns: "NO.", "URL/Keyword", and "Select". The first row contains the number "1", the text "facebook", and an unchecked checkbox. Below the table, there are five buttons: "Delete Selected", "Delete All", "Reset", "Apply", and "Cancel".

If you want to delete a specific URL/Keyword entry, check the 'select' box of the MAC address you want to delete, then click 'Delete Selected' button. (You can select more than one URL/Keyword). If you want to delete all URL/Keyword listed here, please click 'Delete All' button, or you can also click 'Reset' button to unselect all URL/Keywords.

When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:

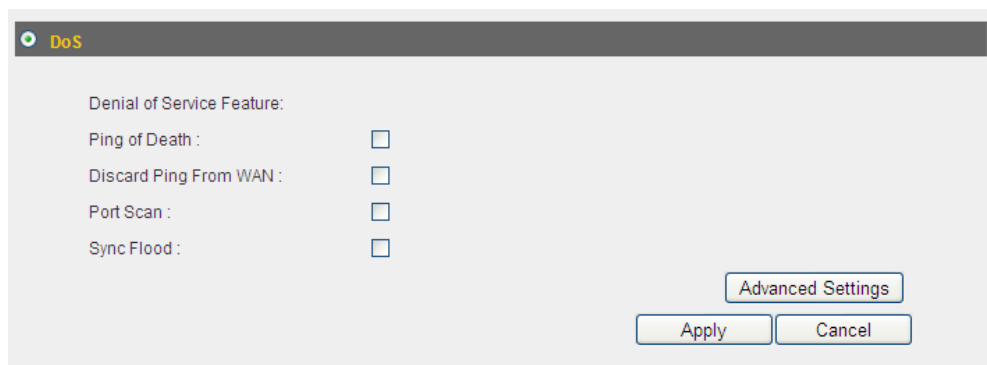


Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

3-7-3 DoS

Denial of Service (DoS) is a common attack measure, by transmitting a great amount of data or request to your Internet IP address and server, the Internet connection will become very slow, and server may stop responding because it is not capable to handle too much traffics.

This router has a built-in DoS attack prevention mechanism; when you activate it, the router will stop the DoS attack for you:



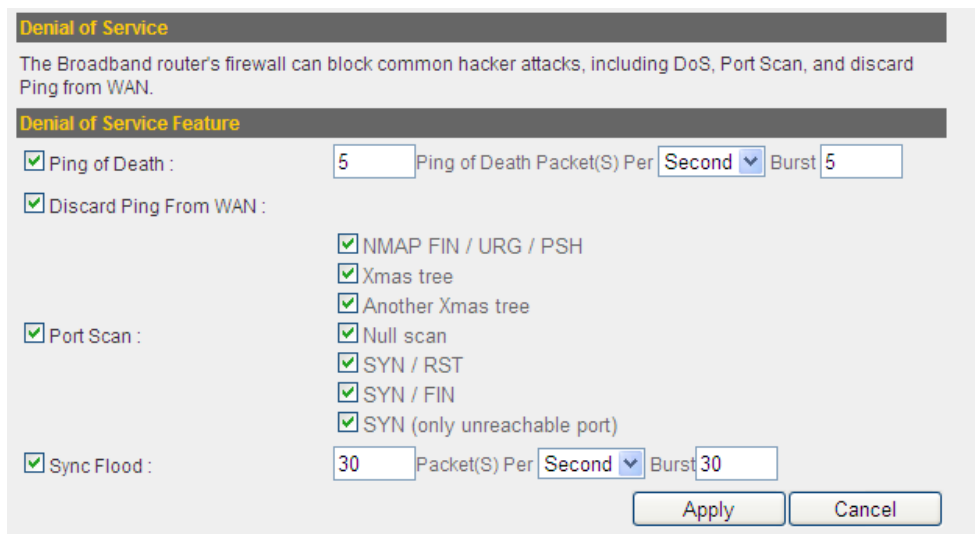
Here lists four kinds of DoS attacks, please select the type of DoS attack you wish this broadband router to protect, and you can select multiple types of attacks.

The descriptions of every DoS attack is listed below:

Item Name	Description
<i>Ping of Death</i>	<i>Ping of Death is a special packet, and it will cause certain computer to stop responding. Check this box and the router will filter this kind of packet out.</i>
<i>Discard Ping From WAN</i>	<i>Ping is a common and useful tool to know the connection status of a specified remote network device, but some malicious intruder will try to fill your network bandwidth with a lot of PING request data packet, to make your internet connection become very slow, even unusable. Check this box and the router will ignore all inbound PING request, but when you activate this function, you will not be able to ping your own router from internet, too.</i>
<i>Port Scan</i>	<i>Some malicious intruder will try to use a 'port scanner' to know how many ports of your Internet IP address are open, and they can collect a lot of valuable information by doing</i>

	<i>so. Check this box and the router will block all traffics which are trying to scan your Internet IP address.</i>
<i>Sync Flood</i>	<i>This is another kind of attack, which uses a lot of fake connection request to consume the memory of your server, and try to make your server become unusable. Check this box and the router will filter this kind of traffic out.</i>

If you need to specify the details of every DoS attack, please click 'Advanced Settings' button, and the following settings will appear:

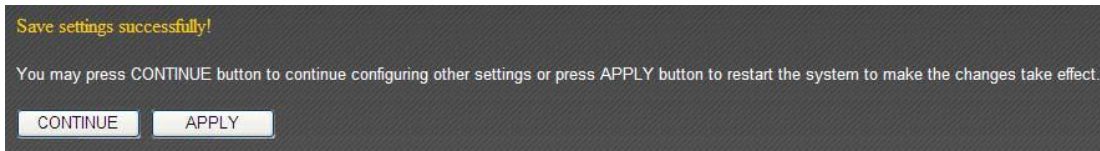


The descriptions of every setup item are listed below:

Item Name	Description
<i>Ping of Death</i>	<i>Set the threshold of when this DoS prevention mechanism will be activated. Please check the box of Ping of Death, and input the frequency of threshold (how many packets per second, minute, or hour), you can also input the 'Burst' value, which means when this number of 'Ping of Death' packet is received in very short time, this DoS prevention mechanism will be activated.</i>
<i>Discard Ping From WAN</i>	<i>Check the box to activate this DoS prevention mechanism.</i>
<i>Port Scan</i>	<i>Many kind of port scan methods are listed here, please check one or more DoS attack methods you want to prevent.</i>

<i>Sync Flood</i>	<i>Like Ping of Death, you can set the threshold of when this DoS prevention mechanism will be activated.</i>
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When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

CHAPTER IV: STATUS, TOOLS & LANGUAGE

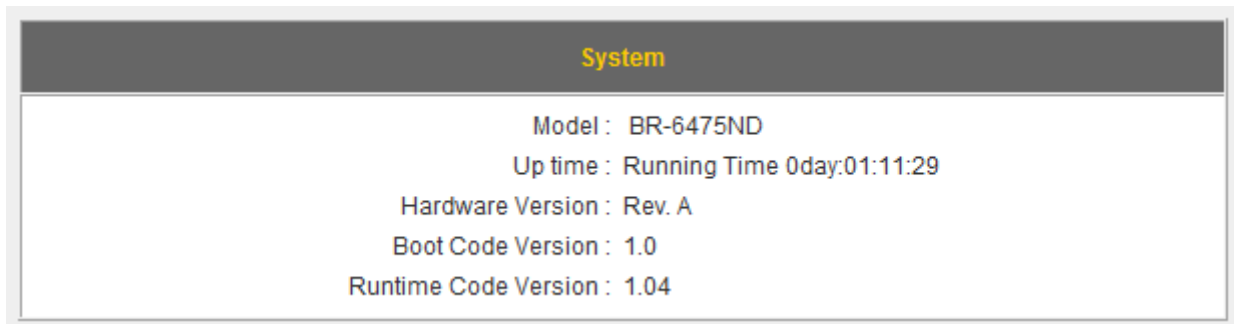
4-1 Status

You can check how your router is currently operating under “Status”.

1. Click the “Status” tab.

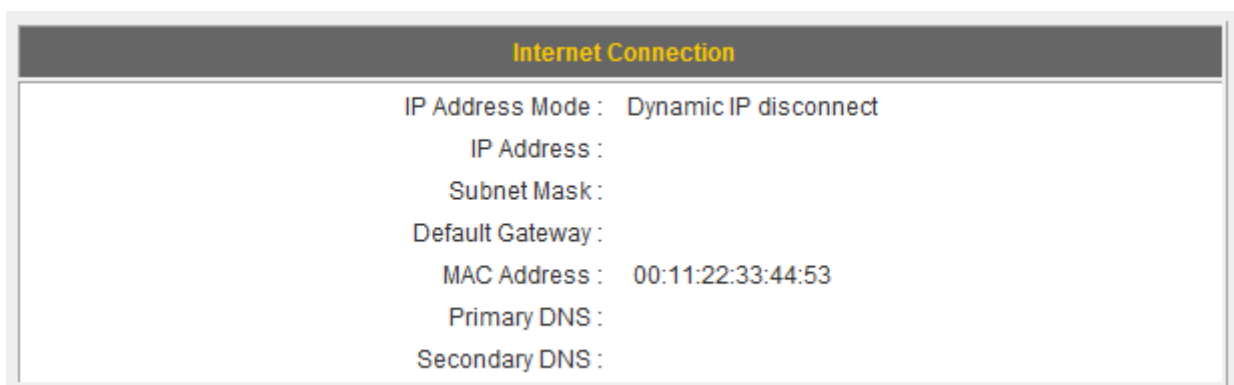


2. Basic system information will be shown under “System”. More information can be found in the other subpages under “System”.



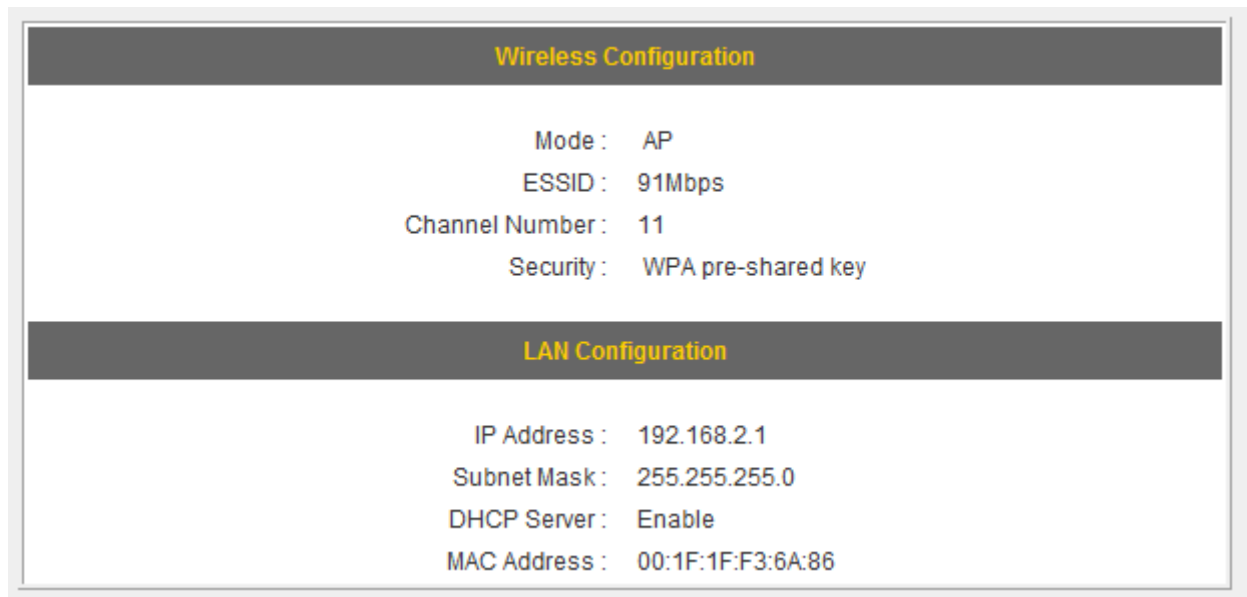
4-1-1 Internet Connection

This page shows the status of your Internet connection.



4-1-2 Device Status

This page shows the current settings of your wired and wireless LAN.



The screenshot displays a configuration interface with two main sections: "Wireless Configuration" and "LAN Configuration".

Wireless Configuration

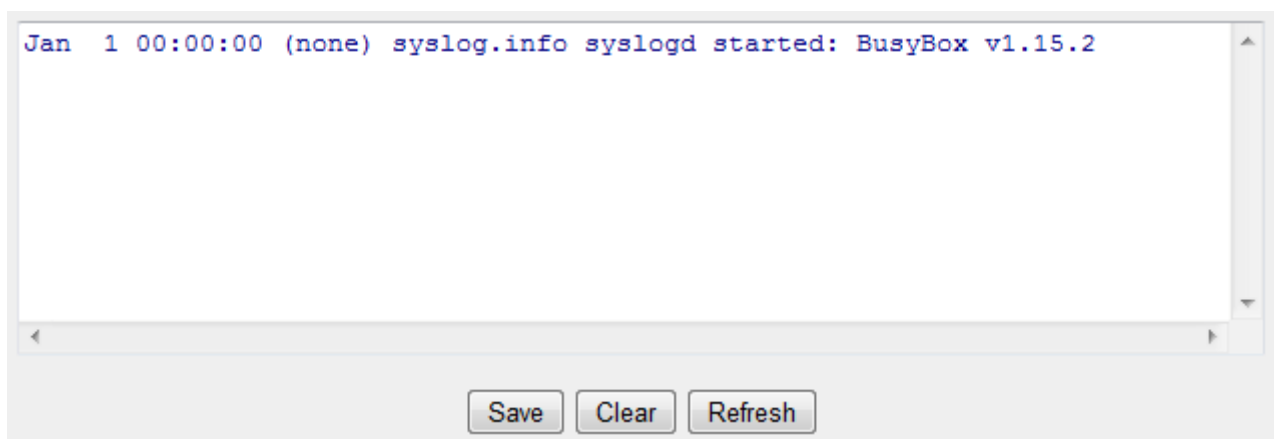
- Mode : AP
- ESSID : 91Mbps
- Channel Number : 11
- Security : WPA pre-shared key

LAN Configuration

- IP Address : 192.168.2.1
- Subnet Mask : 255.255.255.0
- DHCP Server : Enable
- MAC Address : 00:1F:1F:F3:6A:86

4-1-3 System Log

This page shows all logged system information. You can click "Save" to download the log file to your computer. You can also click "Clear" to remove all logs, or click "Refresh" to reload the logs.



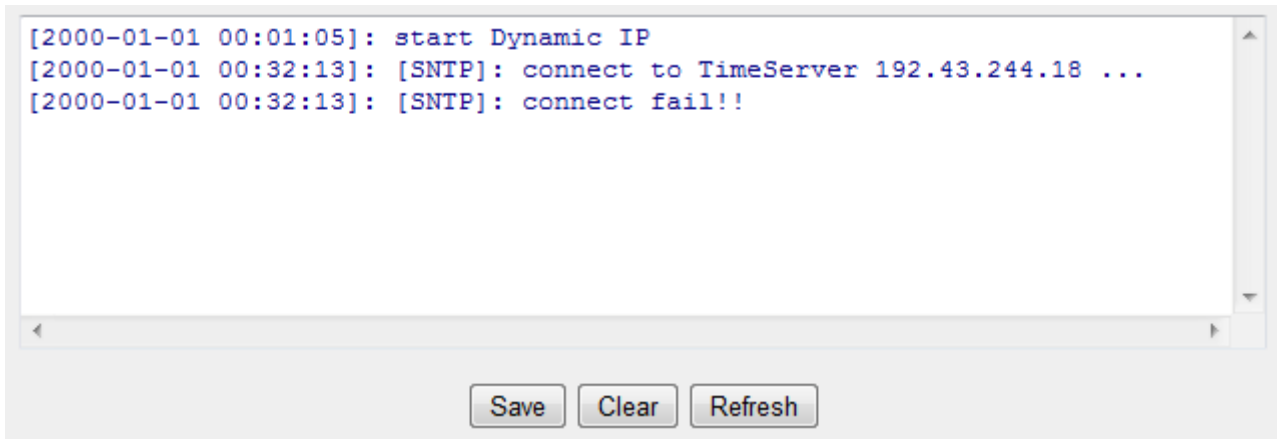
The screenshot shows a log viewer window with a single log entry and three control buttons at the bottom.

```
Jan 1 00:00:00 (none) syslog.info syslogd started: BusyBox v1.15.2
```

Buttons: Save, Clear, Refresh

4-1-4 Security Log

This page shows all logged security-related information. You can click “Save” to download the log file to your computer. You can also click “Clear” to remove all logs, or click “Refresh” to reload the logs.



```
[2000-01-01 00:01:05]: start Dynamic IP
[2000-01-01 00:32:13]: [SNTP]: connect to TimeServer 192.43.244.18 ...
[2000-01-01 00:32:13]: [SNTP]: connect fail!!
```

Save Clear Refresh

4-1-5 Active DHCP Client

This page shows all current DHCP clients. You can click “Refresh” to reload the list.

IP Address	MAC Address	Time Expired(sec)
192.168.2.100	00:1a:a0:ff:7e:5b	forever
192.168.2.101	24:ab:81:9b:45:d4	forever
192.168.2.102	dc:2b:61:7e:22:ac	forever

Refresh

4-1-6 Statistics

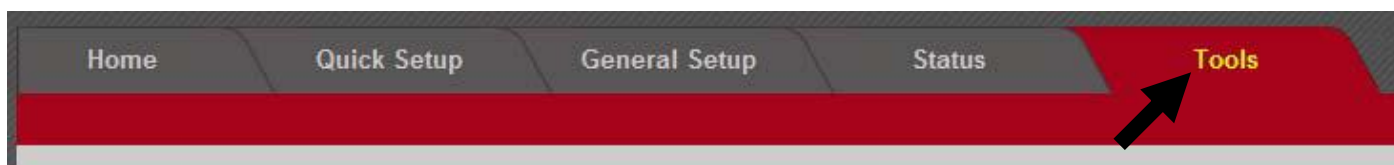
This page shows the statistical information of each network interface and the total system up time.

Wireless LAN	<i>Sent Packets</i>	8235
	<i>Received Packets</i>	93125
Ethernet LAN	<i>Sent Packets</i>	11625
	<i>Received Packets</i>	6875
Ethernet WAN	<i>Sent Packets</i>	816
	<i>Received Packets</i>	0
Running Time		<input type="button" value="Restart"/>

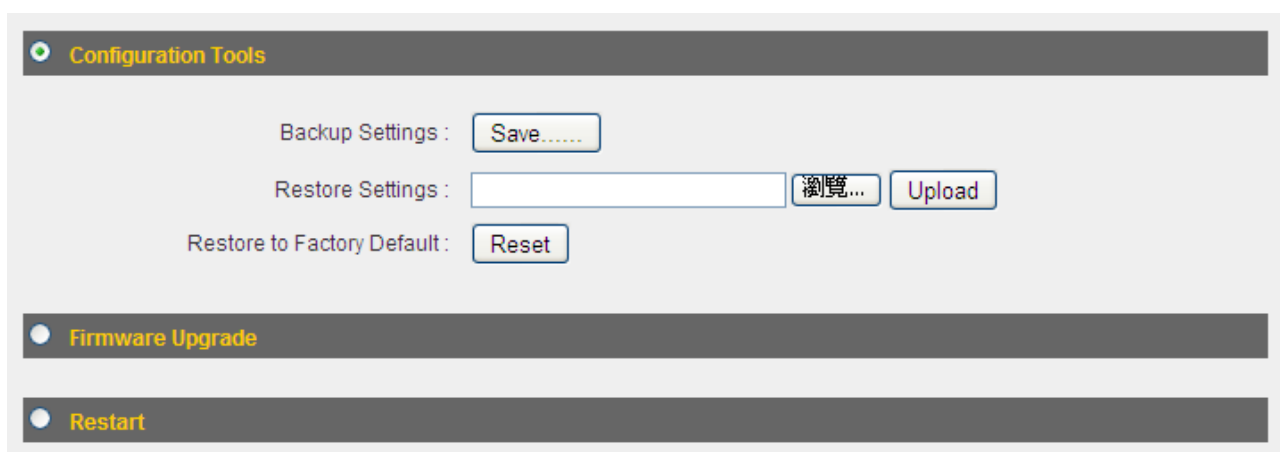
4-2 Tools

This broadband router comes with several tools that help you backup the settings, upgrade the firmware, and restart the device.

1. Click the “Tools” tab.



2. You will be able to access the configuration tools, upgrade your firmware, or restart the router here.



4-2-1 Configuration Tools

You can backup and restore your system configurations here. You can also reset all settings to the factory default.

1. Click “Configuration Tools”.



Item Name	Description
Backup Settings	Click the “Save...” button to save the current settings on your computer as a “config.bin” file.
Restore Settings	Click the “Browse...” button to select a previously saved “config.bin” file from your computer, then click “Upload” to replace the current settings with the settings in the “config.bin” file.
Restore to Factory Default	Click “Reset” to restore the settings to the factory default. A pop-up message window will appear and ask you to confirm the reset.

2. Click “Apply” to save the changes. If you wish to go back to the previous page, click “Previous”.

4-2-2 Firmware Upgrade

You can upgrade your firmware in the “Firmware Upgrade” section.

1. Download the firmware file from our company’s website and save it on your computer.



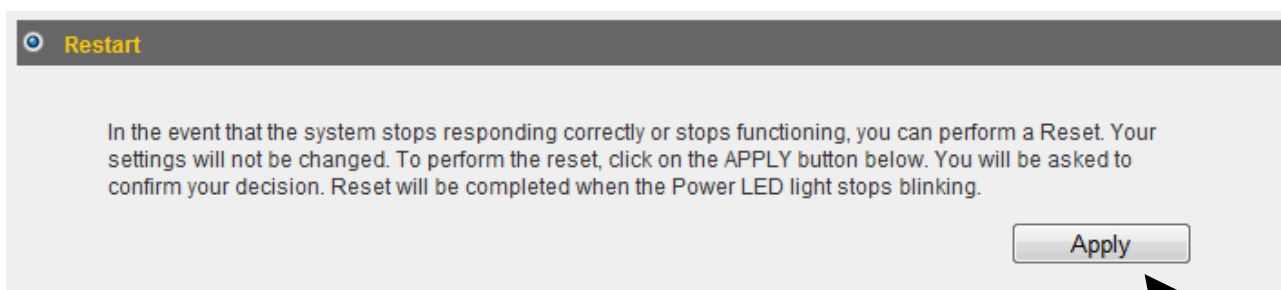
2. Click “Browse...” to find the firmware file saved on your computer, then click “Apply” to start firmware upload. The broadband router will restart after the file is uploaded. All your current settings will be lost after the firmware is upgraded.

NOTE: It is recommended that you use a wired Ethernet connection and not a wireless connection to upload the firmware file. Do not switch the broadband router or computer off while performing firmware upgrade. This will cause the broadband router to malfunction.

4-2-3 Restart

If your broadband router is not functioning properly or responding slowly, restarting the broadband router may solve the problem.

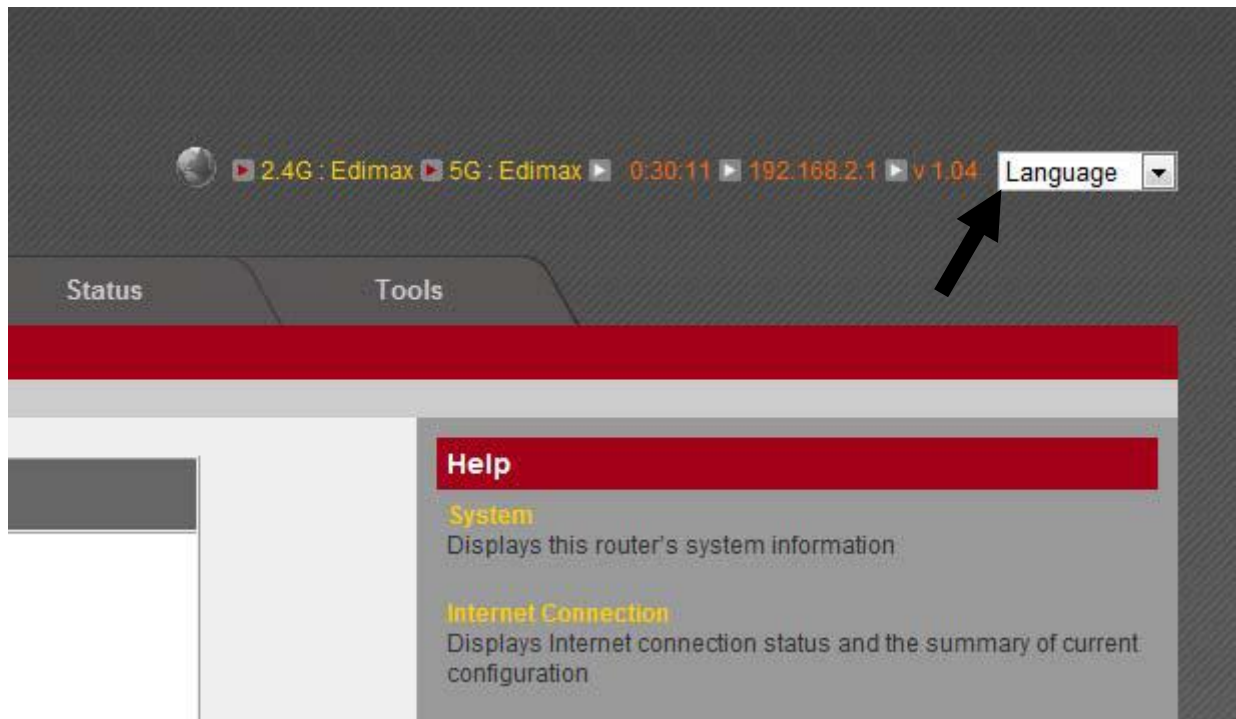
1. Select “Reset”.



2. Click the “Apply” button to restart the broadband router.
3. When you are prompted to confirm the restart, click “OK”.

4-3 Language

This broadband router's web-based user interface supports several languages. You can change the display language with the "Language" dropdown menu at the upper-right corner of the user interface.



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

SAR compliance has been established in the laptop computer(s) configurations with PCMCIA slot on the side near the center, as tested in the application for certification, and can be used in laptop computer(s) with substantially similar physical dimensions, construction, and electrical and RF characteristics. Use in other devices such as PDAs or lap pads is not authorized. This transmitter is restricted for use with the specific antenna tested in the application for certification. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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





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