

150Mbps Wireless Broadband Nano Router





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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)

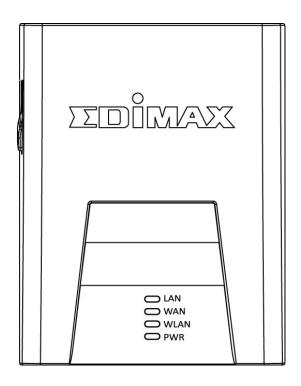
1-4 Package Contents

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)

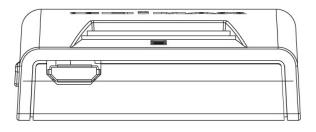
1-5 Getting familiar with your new wireless broadband router

Top Panel



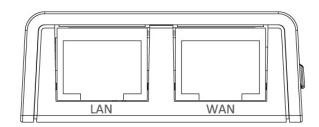
LED Name	Light Status	Description
PWR	On	Router switched on and correctly powered
	Off	Router not powered (or not correctly powered)
WLAN	On	Wireless connectivity activated
	Off	Wireless connectivity not activated
	Flashing	Wireless LAN activity (transferring data) or WPS mode
		activated (LED flashes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



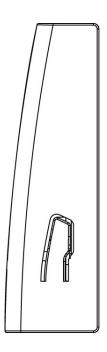
Item Name	Description
Micro-USB Port	Connects to USB power adapter or computer via USB cable

Back Panel



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

Side Panel



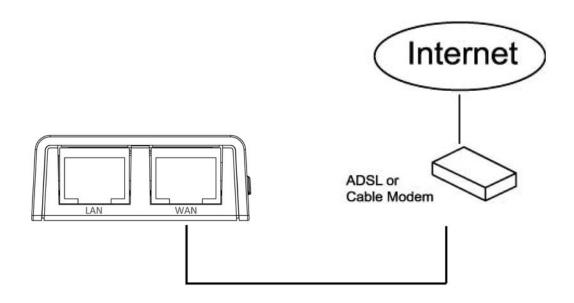
Item Name	Description
Reset/WPS	Resets the router to factory default settings or starts WPS
Button	function (press this button and hold for 10 seconds to clear all
	settings or press this button for less than 10 seconds to activate
	WPS function)

CHAPTER II: SYSTEM AND NETWORK SETUP

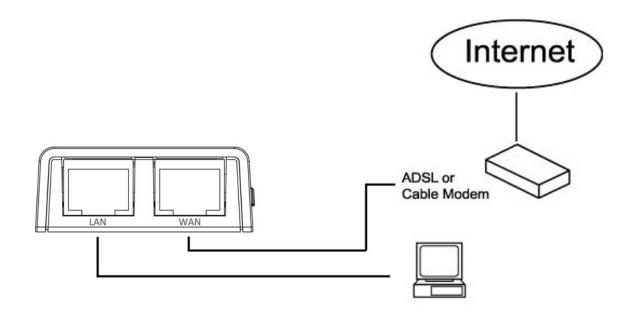
2-1 Establishing a network connection

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

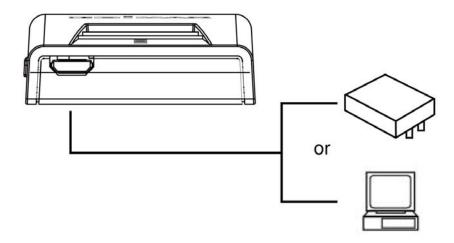
1. Connect your xDSL or cable modem to the "WAN" port with an Ethernet cable.



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.

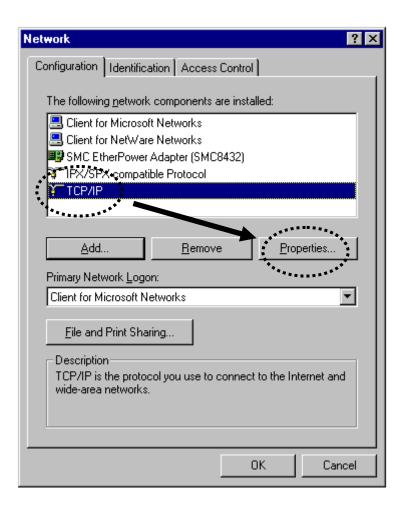
2-2 Setting client computers to obtain IP addresses automatically

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:

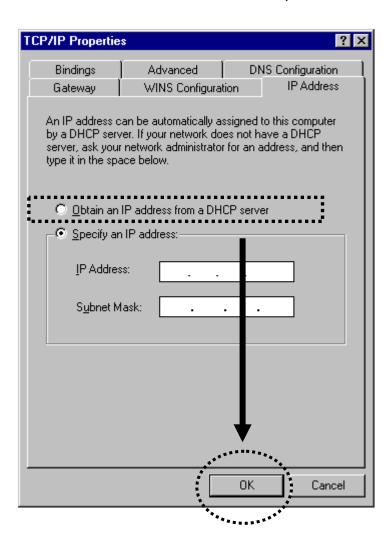
lacktriangle	Windows 95/98/Me	(see section 2-2-1)
•	Windows 2000	(see section 2-2-2)
•	Windows XP	(see section 2-2-3)
lacktriangle	Windows Vista	(see section 2-2-4)

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".

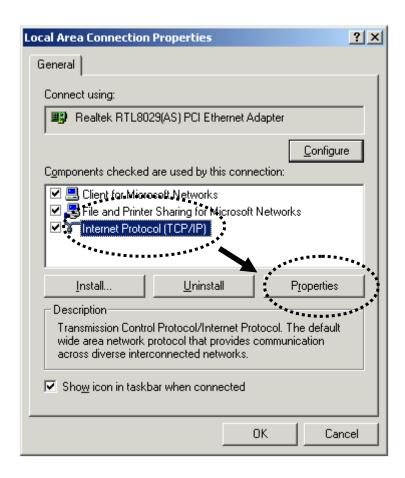


2. Select "Obtain an IP address from a DHCP server", then click "OK".

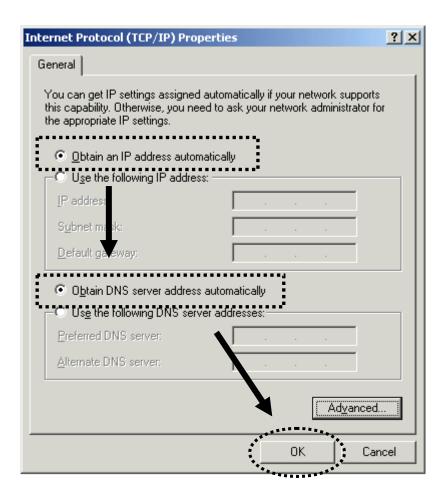


2-2-2 Windows 2000 IP address setup

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".

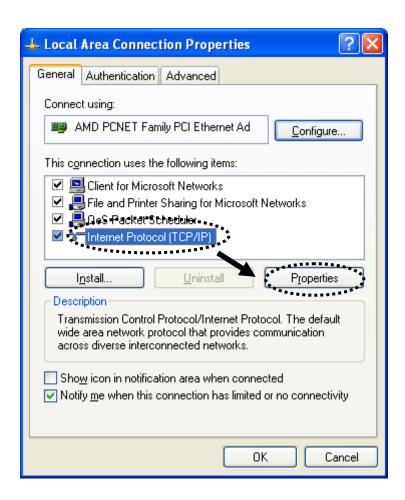


2. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically", then click "OK".

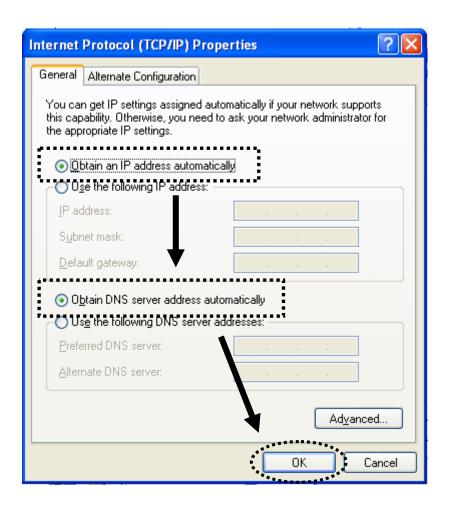


2-2-3 Windows XP IP address setup

 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".

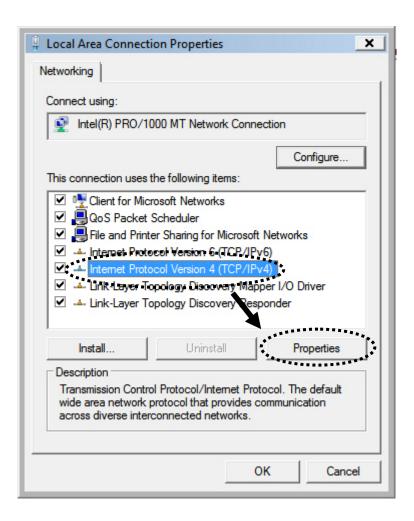


2. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically", then click "OK".

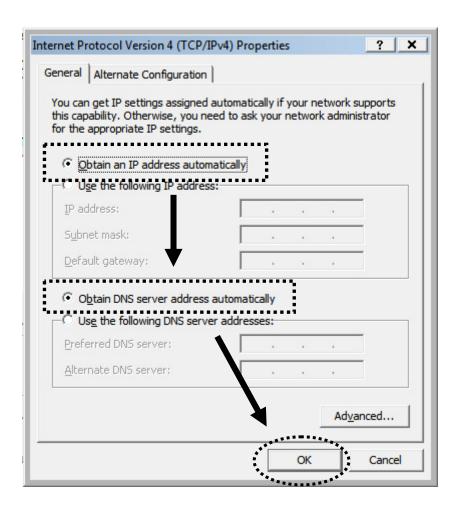


2-2-4 Windows Vista IP address setup

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".



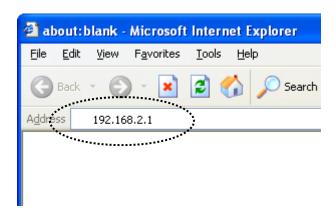
2. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically", then click "OK".



2-3 Connecting to broadband router via web browser

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 "192.168.2.1" in the web browser's address bar and press "Enter".



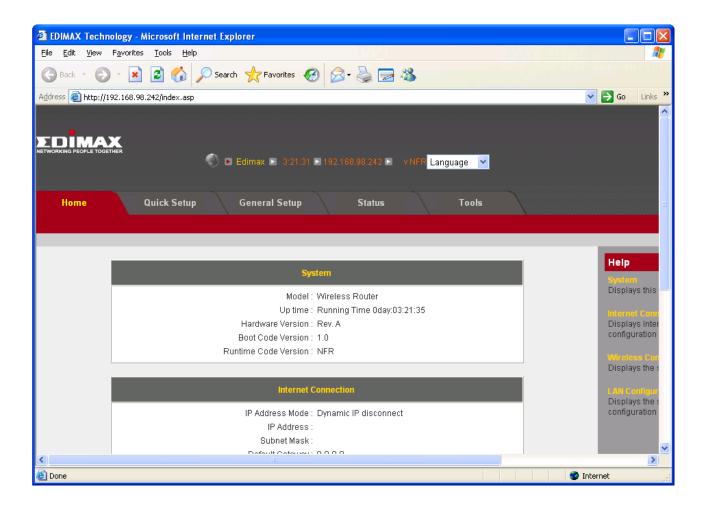
2. You should see the following authentication window.



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". You can see all the current settings and other system information here.



System

Model	Displays this broadband router's model name (useful when
	you need technical service)
Up Time	Displays the amount of time this router has been switched on
Hardware Version	Displays this broadband router's hardware version (useful
	when you need technical service)
Boot Code	Displays this broadband router's boot code version (useful
Version	when you need technical service)
Runtime Code	Displays this broadband router's runtime code version (useful
Version	when you need technical service)

Internet Connection

IP Address Mode	Displays how this broadband router currently obtains IP
	addresses
IP Address	Displays the IP address of the WAN connection
Subnet Mask	Displays the subnet mask of the WAN connection
Default Gateway	Displays the IP address of the WAN connection's default
	gateway
MAC Address	Displays the physical address of the WAN port
Primary DNS	Displays the IP address of the first DNS server
Secondary DNS	Displays the IP address of the second (backup) DNS server

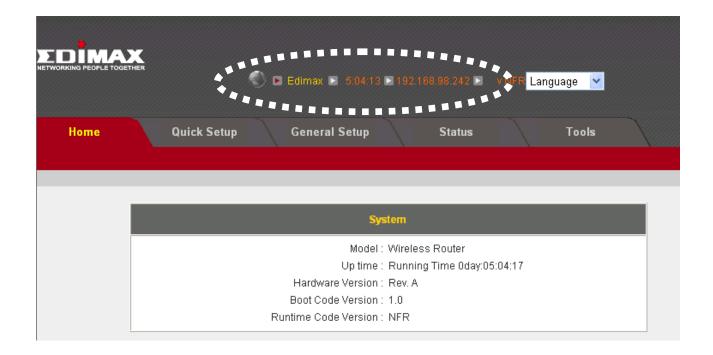
Wireless Configuration

Mode	Displays the operation mode of the wireless access point
ESSID	Displays the name of the access point
Channel Number	Displays the channel number of the wireless network
Security	Displays the security authentication mode of the access point

LAN Connection

IP Address	Displays the IP address of the LAN connection
Subnet Mask	Displays the subnet mask of the LAN connection
DHCP Server	Displays the status of the internal DHCP server
MAC Address	Displays the physical address of the LAN port

The SSID, the up time, the IP address of the LAN connection, and the runtime code is always displayed on the top of the webpage.

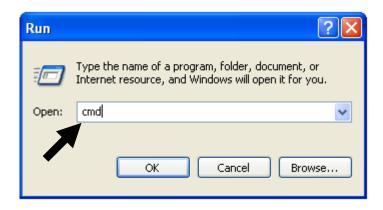


If this router's DHCP server function is enabled, please follow the following instructions to find this router's IP address:

1. Click the "Start" button, then click "Run".



2. Input "cmd", and then click "OK".



3. Input "ipconfig", 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.

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.

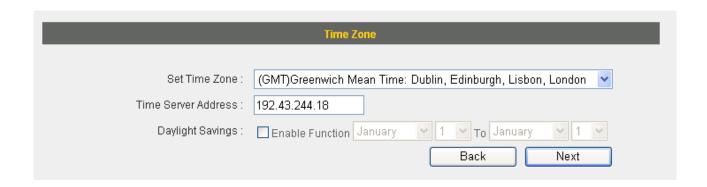
2-4 Using "Quick Setup"

This broadband router's "Quick Setup" allows you to set up basic parameters in a few simple steps. The following instructions illustrate how to use the "Quick Setup" menu:

1. Click "Quick Setup" after logging in.



2. Configure automatic time synchronization settings, and then click "Next".



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	This router supports NTP (Network Time Protocol) for
Address	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. Choose your Internet connection type. Refer to the following list for further instructions:

Dynamic IP (See section 2-4-1)
Static IP (See section 2-4-2)
PPPOE (See section 2-4-3)
PPTP (See section 2-4-4)
L2TP (See section 2-4-5)

NOTE: If you are not sure which your Internet connection type is, please contact your Internet service provider.

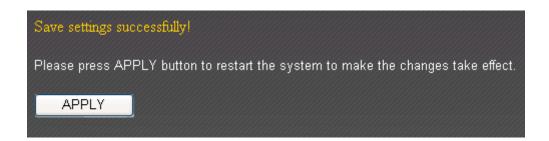
2-4-1 Using "Dynamic IP" as broadband connection type

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



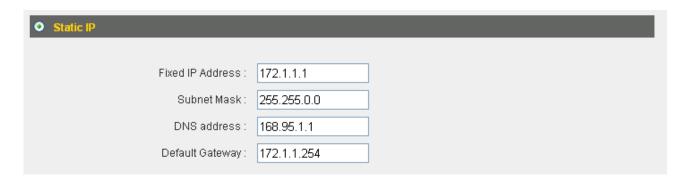
Item Name	Description
Host Name	Input the host name of your computer here. This is optional
	and only required if your ISP asks you to do so.
MAC Address	If your ISP only permits computers with certain MAC
	addresses to access the Internet, input your computer's MAC
	address here. Press "Clone Mac address" to fill the MAC
	address field with your computer's MAC address
	automatically.

- 2. Click "OK" to complete setup.
- 3. When the following message appears, click "Apply" to save the changes and restart the broadband router. The router will take about 30 seconds to restart.



2-4-2 Using "Static IP" as broadband connection type

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.



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	Input the DNS address assigned by your ISP here.
Default Gateway	Input the default gateway assigned by your ISP here. Some
	ISPs may call this "Default Route".

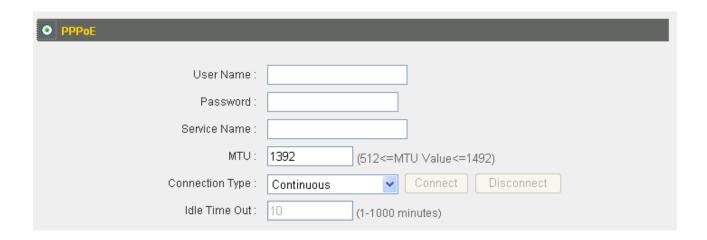
NOTE: You must use the addresses provided by your ISP. Inputting incorrect values will cause malfunction.

- 2. Click "OK" to complete setup.
- 3. When the following message appears, click "Apply" to save the changes and restart the broadband router. The router will take about 30 seconds to restart.



2-4-3 Using "PPPoE" as broadband connection type

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



Item Name	Description
User Name	Input the user name assigned by your ISP here.
Password	Input the password assigned by your ISP here.
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:
	"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.

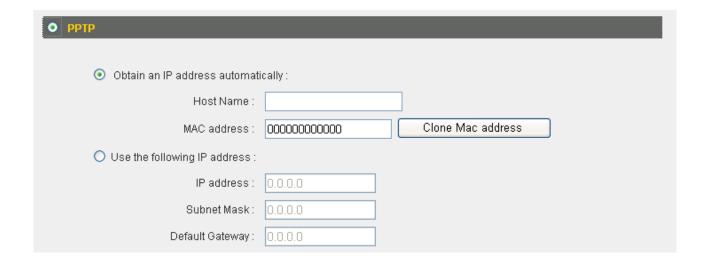
2. Click "OK" to complete setup.

3. When the following message appears, click "Apply" to save the changes and restart the broadband router. The router will take about 30 seconds to restart.



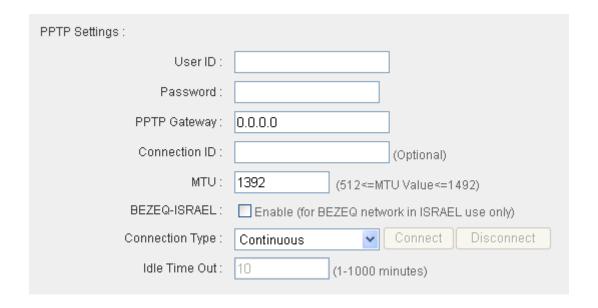
2-4-4 Using "PPTP" as broadband connection type

- 1. Select "PPTP" if your ISP is providing you Internet access via PPTP (Point-to-Point Tunneling Protocol).
- 2. If your ISP is providing you dynamic IP addresses, select "Obtain an IP address automatically" (refer to 2-4-1 for setup details). If your ISP is providing you a static IP address, select "Use the following IP address" (refer to 2-4-2 for setup details).



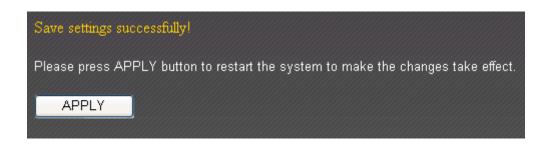
NOTE: These settings must be configured according to your Internet service. Please contact your Internet service provider if you are not sure what to select.

3. Configure the "PPTP Settings" section.



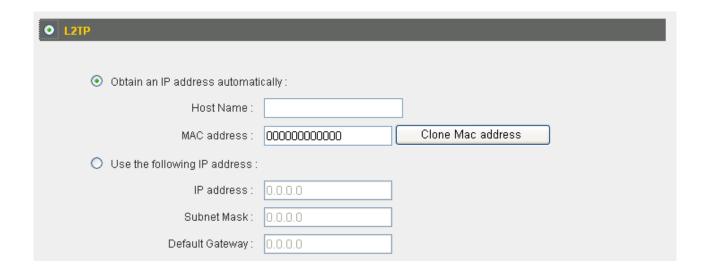
Item Name	Description
User ID	Input the user name assigned by your ISP here.
Password	Input the password assigned by your ISP here.
PPTP Gateway	Input the PPTP gateway assigned by your ISP here.
Connection ID	Give this connection a name (optional).
MTU	Input the MTU value of your network connection here. 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	 Please specify a connection type here. There are 3 options: "Continuous" keeps the Internet connection alive all the time.
	 "Connect on Demand" only connects to the Internet when you initiate Internet connection. "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.

- 4. Click "OK" to complete setup.
- 5. When the following message appears, click "Apply" to save the changes and restart the broadband router. The router will take about 30 seconds to restart.



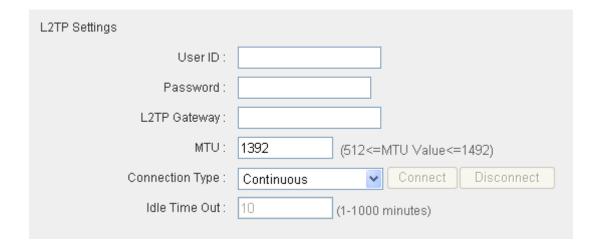
2-4-5 Using "L2TP" as broadband connection type

- Select "L2TP" if your ISP is providing you Internet access via L2TP (Layer-2 Tunneling Protocol).
- 2. If your ISP is providing you dynamic IP addresses, select "Obtain an IP address automatically" (refer to 2-4-1 for setup details). If your ISP is providing you a static IP address, select "Use the following IP address" (refer to 2-4-2 for setup details).



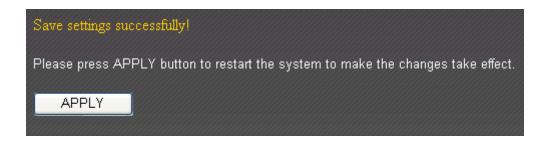
NOTE: These settings must be configured according to your Internet service. Please contact your Internet service provider if you are not sure what to select.

3. Configure the "L2TP Settings" section.



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	Please specify a connection type here. There are 3 options:	
	 "Continuous" keeps the Internet connection alive all the time. "Connect on Demand" only connects to the Internet when you initiate Internet connection. "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.	

- 4. Click "OK" to complete setup.
- 5. When the following message appears, click "Apply" to save the changes and restart the broadband router. The router will take about 30 seconds to restart.



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:

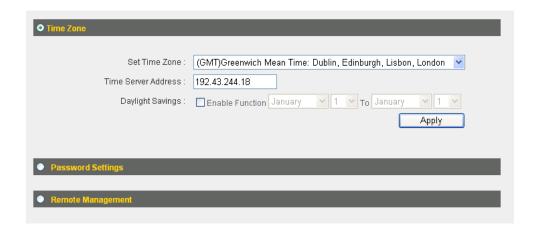


3. Refer to the following list for further instructions:

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

3-1 System

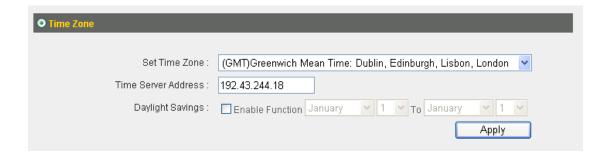
You can setup basic system settings of this broadband router in 'System' menu:



Please select the setting item you wish to set, then click 'Apply' button to proceed. You can also click 'Previous' button to back to 'System' menu.

3-1-1 Time Zone

You can change the time zone settings of this broadband router. It's important to have correct date and time setting if you need to read system log and use build-in firewall functions.



The descriptions of every setting item are listed as follow:

Item Name	Description
Time Zone	Please select a time zone of the country or
	region of your residence here. If you can't find
	the country / region of your residence here,
	please select a city / region which time zone is
	the same with the country / region of your
	residence.
Time Server Address	This load-balance router supports NTP
	(Network Time Protocol). NTP server will
	provide correct time for this router to setup
	the date and time of the router automatically.
	Please input the host name or IP address of
	NTP server here. If you don't know the host
	name or IP address of time server, please ask
	network administrator or use 'pool.ntp.org' as
	time server.
Daylight Savings	If the country / region of your residence use
	daylight saving time, please check 'Enable
	Function' box, and select the beginning and
	ending date of daylight time saving.

3-1-2 Password Settings

You can change the web login password of this broadband router. If you keep using the default password '1234', other people may access the configuration interface without your permission. Please change the password as soon as possible.



The descriptions of every setting item are listed as follow:

Item Name	Description
Current Password	Please input current password here.
New Password	Please input new password here.
Confirmed Password	Please input new password here again for
	confirmation.

After you inputted current and new password, click 'Apply' to save changes, or you can click 'Cancel' to keep current password untouched. Please note that you'll be asked for username and password for login again if you changed password.

3-1-3 Remote Management

If you need to manage this broadband router outside of your LAN (i.e. from Internet), you can use this function to assign a remote IP address which is permitted to connect to this broadband router's web management interface from Internet.

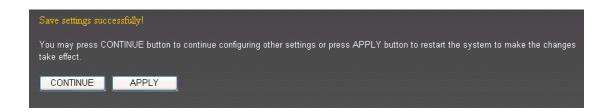
If it's not required for you to manage this broadband router from Internet, you can disable this function to improve security.



The descriptions of every setting item are listed as follow:

Item Name	Description
Host address	Input the IP address of the remote host you
	wish to initiate a management access.
Port	You can define the port number this router
	should expect an incoming connection request.
	If you're providing a web service (default port
	number is 80), you should try to use other port
	number. You can use the default port setting
	'8080', or something like '32245' or '1429'.
	(Any integer between 1 and 65534)
Enabled	Check this box to enable remote management
	function. When this box is unchecked, no one
	can access this broadband router's
	management interface from Internet.

Please click 'Apply' to save changes in this page, or you can click 'Cancel' to discard all settings in this page. After you click 'Apply' button, you'll see the following message:



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.

To setup other items now and restart broadband router later, click 'Continue'.

3-2 WAN

You can setup WAN (Wide Area Network, i.e. Internet) connections of this broadband router in 'WAN' menu:



Please select the WAN connection type you wish to use to setup Internet connection, and click 'Apply' to save changes you made.

If you're not sure which connection type you should use, please contact your ISP's service hotline and ask for help. You'll not be able to connect to Internet with wrong connection type.

3-2-1 Dynamic IP

Dynamic IP means your ISP will assign an IP address to you automatically by 'DHCP' (Dynamic Host Configuration Protocol). Dynamic IP is often used by cable modem Internet connection.



Item Name	Description
Host Name	Please input the host name of your computer,
	this is optional, and only required if your
	service provider asks you to do so.
MAC address	Please input MAC address of your computer
	here, if your service provider only permits
	computer with certain MAC address to access
	internet. If you're using the computer which
	used to connect to Internet via cable modem,
	you can simply press 'Clone Mac address'
	button to fill the MAC address field with the
	MAC address of your computer.

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



3-2-2 Static IP

Some ISP will give you a fixed IP address, and ask you to use this IP address to establish Internet connection. In this case, you have to select this connection type to establish connection with your ISP.

Please note that if your ISP is assigning a fixed IP address to you by DHCP or PPPoE, do not select this connection type. Please contact your ISP's service hotline to make sure you really need to use static IP as connection type.



Here are descriptions of every setup items:

Item Name	Description
IP address assigned by	Please input IP address assigned by your
your by your service	service provider.
provider	
Subnet Mask	Please input subnet mask assigned by your
	service provider.
DNS address	Please input the IP address of DNS server
	provided by your service provider.
Service Provider	Please input the IP address of DNS server
Gateway Address	provided by your service provider.

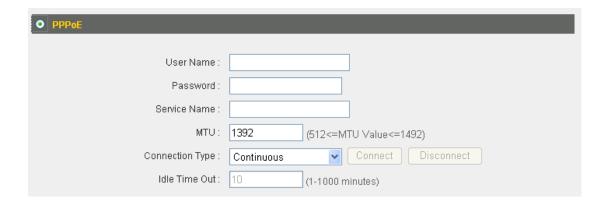
You must use the addresses provided by your Internet service provider, wrong setting value will cause connection problem.

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



3-2-3 PPPoE

If your ISP requires you to establish Internet connection by PPPoE (Point-to-Point Protocol over Ethernet), you can use this connection type to establish Internet connection.



Item Name	Description
User Name	Please input user name assigned by your
	Internet service provider here.
Password	Please input the password assigned by your
	Internet service provider here.
Service Name	Please give a name to this Internet service, this is optional.
MTU	Please input the MTU value of your network
IVIIO	connection here. If you don't know, you can
	use default value.
Connection Type	Please select the connection type of Internet
,,	connection you wish to use. There are 3
	options:
	'Continuous' - keep internet connection alive,
	do not disconnect.
	'Connect on Demand' - only connects to
	Internet when there's a connect attempt,
	Manual - only connects to Internet when
	'Connect' button on this page is pressed, and
	disconnects when 'Disconnect button is
	pressed.
Idle Time Out	Please specify the time to shutdown internet
	connect after no internet activity is detected in

minute(s). This option is only available when
connection type is 'Connect on Demand'.

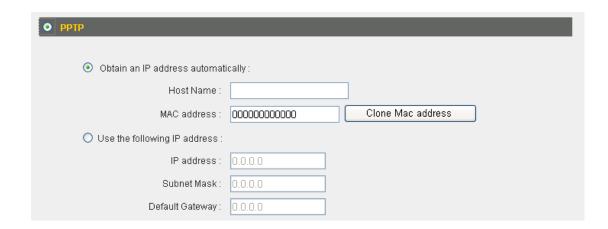
If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



3-2-4 PPTP

If your ISP requires you to use PPTP (Point-to-Point Tunneling Protocol) to establish connection, you can select this connection type to establish Internet connection.

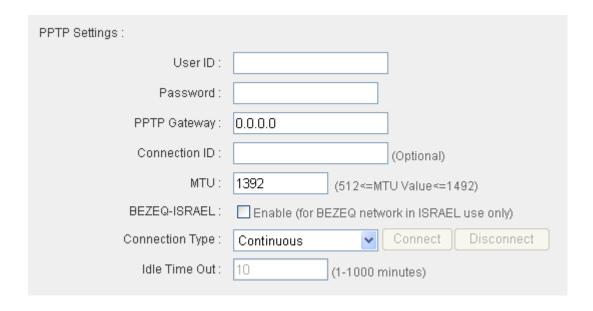
PPTP requires two kinds of setting: WAN interface setting (setup IP address) and PPTP setting (PPTP user name and password). Here we start from WAN interface setting first:



Select the type of how you obtain IP address from your service provider here. You can choose 'Obtain an IP address automatically' (equal to DHCP, please refer to 'Cable Modem' section above), or 'Use the following IP address' (i.e. static IP address).

WAN interface settings must be correctly set, or the Internet connection will fail even those settings of PPTP settings are correct. Please contact your Internet service provider if you don't know what you should fill in these fields.

Now please go to PPTP settings section:



Item Name	Description
User ID	Please input user ID (user name) assigned by
	your Internet service provider here.
Password	Please input the password assigned by your
	Internet service provider here.
PPTP Gateway	Please input the IP address of PPTP gateway
	assigned by your Internet service provider
	here.
Connection ID	Please input the connection ID here, this is
	optional and you can leave it blank.
MTU	Please input the MTU value of your network
	connection here. If you don't know, you can
	use default value.
BEZEQ-ISRAEL	Check 'Enable' box if you're using BEZEQ
	network service in Israel. Do not check this box
	if you're using other Internet service provider.
Connection Type	Please select the connection type of Internet
	connection you wish to use. There are 3
	options:
	'Continuous' - keep internet connection alive,
	do not disconnect.
	'Connect on Demand' - only connects to
	Internet when there's a connect attempt,
	Manual - only connects to Internet when
	'Connect' button on this page is pressed, and
	disconnects when 'Disconnect button is
	pressed.
Idle Time Out	Please specify the time to shutdown internet
	connect after no internet activity is detected in
	minute(s). This option is only available when
	connection type is 'Connect on Demand'.
	,,

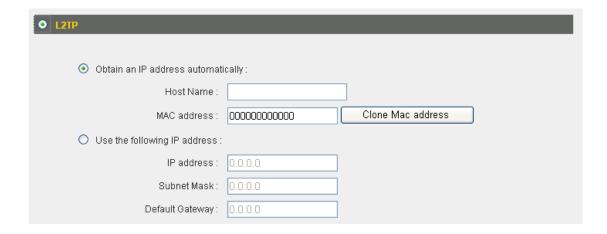
If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



3-2-5 L2TP

If your ISP requires you to use L2TP (Layer-2 Tunneling Protocol) to establish connection, you can select this connection type to establish Internet connection. L2TP is another popular connection method for xDSL and other Internet connection types, and all required setting items are the same with PPTP connection.

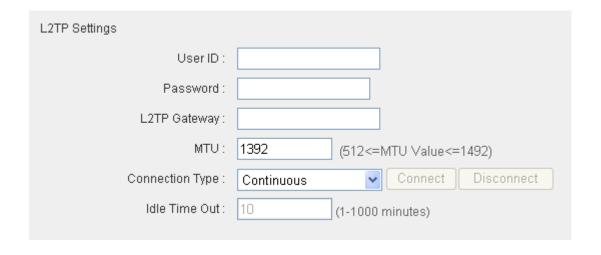
Like PPTP, there are two kinds of required setting, we'll start from 'WAN Interface Settings':



Please select the type of how you obtain IP address from your service provider here. You can choose 'Obtain an IP address automatically' (equal to DHCP, please refer to 'Dynamic IP' section above), or 'Use the following IP address' (equal to static IP address, please refer to 'PPPoE' section above).

WAN interface settings must be correctly set, or the Internet connection will fail even those settings of L2TP settings are correct. Please contact your Internet service provider if you don't know what you should fill in these fields.

Now please go to L2TP settings section:



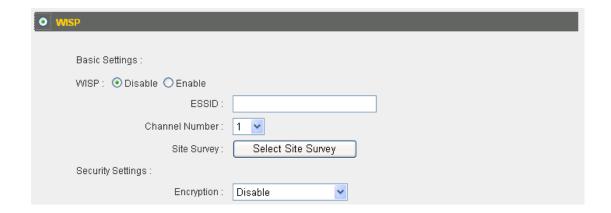
Item Name	Description
User ID	Please input user ID (user name) assigned by
	your Internet service provider here.
Password	Please input the password assigned by your
	Internet service provider here.
L2TP Gateway	Please input the IP address of PPTP gateway
	assigned by your Internet service provider
	here.
MTU	Please input the MTU value of your network
	connection here. If you don't know, you can
	use default value.
Connection Type	Please select the connection type of Internet
	connection you wish to use. There are 3
	options:
	'Continuous' - keep internet connection alive,
	do not disconnect.
	'Connect on Demand' - only connects to
	Internet when there's a connect attempt,
	Manual - only connects to Internet when
	'Connect' button on this page is pressed, and
	disconnects when 'Disconnect button is
	pressed.
Idle Time Out	Please specify the time to shutdown internet
	connect after no internet activity is detected in
	minute(s). This option is only available when
	connection type is 'Connect on Demand'.

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



3-2-6 WISP

WISP (Wireless ISP) is a connection method which establishes Internet connection by wireless network. In this mode, BR-6258n broadband router will act as a wireless client and connect to another wireless access point to establish Internet connection.



Item Name	Description
WISP	Enable or disable WISP function.
ESSID	Input the ESSID (i.e. the name of wireless access
	point) of your ISP's access point.
Channel Number	Select the wireless channel number of wireless
	access point you wish to connect.
Site Survery	Click this button to scan for wireless access
	points in range:
	http://192.168.98.242/wlsurvey.asp - Microsoft Internet Explorer
	Wireless Site Survey
	This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.
	Select SSID BSSID Band Channel Type Encryption Signal
	O AwtOfe 00:26:5a:40:d6:74 (B+G+N) 11 AP WPA-PSKWPA2-PSK 48
	Odlink 00:1e:58:39:21:16 (B+G+N) 4 AP no 44
	O skyline 00.0e:2e:4e:a8:75 (B+G+N) 11 AP WPA-PSK/WPA2-PSK 32
	O CHTN_T07AW 00:23:4e:11:f1:67 (B+G) 1 AP WPA-PSK 30 nib 00:22:2d:4b:de:38 (B+G+N) 6 AP WPA2-PSK 26
	orib 00:22:2d:4b:de:38 (B+G+N) 6 AP WPA2-PSK 26 Tenda 00:b0:0c:3d:20:d0 (B+G+N) 6 AP WPA-PSK 26
	© Internet
	Select a wireless access point from the list (click 'Select' of the access point), and click 'Done' button located at the bottom of this window. If the wireless access point you wish to connect is not in the list, click 'Refresh' one or more times
	to rescan for wireless access points.
Security	According to the security settings of the wireless

access point you with to connect, you'll be prompted to input WEP key / WPA passphrase so you can pass the security check of access point.

A correct WEP key / WPA passphrase is required to connect to wireless access point with security setting. Please ask your wireless ISP for correct WEP key / WPA passphrase.

If you wish to select another connection type as broadband connection type, click 'Back'; or you can click 'OK' to finish with quick setup. You'll see the following messages:



3-3 LAN (Wired)

You can setup Wired LAN (Local Area Network) connections of this broadband router in 'LAN' menu. This broadband router has 4 LAN ports and they'll all use the same LAN IP address settings. Please also note that both wired and wireless LAN uses the same LAN IP address settings, too.

LAN settings split into 3 sections: LAN IP, DHCP Server, and Static DHCP leases. Please refer to corresponding sections below for detailed setup instructions.

3-3-1 Before you start: Suggestions for deciding an IP address

Before all computers using wired Ethernet connection (i.e. those computers connect to this router's LAN port 1 to 4 by Ethernet cable) or wireless connection can communicate with each other and access internet, they must have a valid IP address.

There are two ways to assign IP addresses to computers: static IP address (set the IP address for every computer manually), and dynamic IP address (IP address of computers will be assigned by router automatically. It's recommended for most of computers to use dynamic IP address, it will save a lot of time on setting IP addresses for every computer, especially when there are a lot of computers in your network; for servers and network devices which will provide services to other computer and users that come from Internet, static IP address should be used, so other computes can locate the server.

This broadband router has a built-in DHCP (Dynamic Host Configuration Protocol) server, and can help you to assign IP addresses to your client computers. Almost all network computers / devices manufactured after year 1995 are compatible with DHCP, and you can let this broadband router to assign the IP address to client computers / devices for you.

Suggestions on IP address numbering plan:

If you have no idea on how to define an IP address plan for your network, here are some suggestions.

- 1. A valid IP address has 4 fields: a.b.c.d, for most of home and company users, it's suggested to use 192.168.c.d, where c is an integer between 0 and 254, and d is an integer between 1 and 254. This router is capable to work with up to 253 clients, so you can set 'd' field of IP address of router as 1 or 254 (or any number between 1 and 254), and pick a number between 0 and 254 for field 'c'.
- 2. In most cases, you should use '255.255.255.0' as subnet mask, which allows up to 253 clients (this also meets router's capability of working with up to 253 clients).
- 3. For all servers and network devices which will provide services to other people (like Internet service, print service, and file service), they should use static IP address. Give each of them a unique number between 1 and 253, and maintain a list, so everyone can locate those servers easily.
- 4. For computers which are not dedicated to provide specific service to others, they should use dynamic IP address.

If you don't really understand the descriptions listed above, don't worry! We will provide recommended setup values below.

3-3-2 LAN IP

You can use this setting to assign an IP address to the LAN interface of this broadband router.



Here are descriptions of every setup items:

Item Name	Description
IP address	Please input the IP address of this broadband
	router's LAN interface.
Subnet Mask	Please input subnet mask for this network.
802.1d Spanning Tree	If you wish to activate 802.1d spanning tree
	function, select 'Enabled' for setup item
	'802.1d Spanning Tree', or set it to 'Disabled'.
DHCP Server	If you want to activate DHCP server function of
	this router, select 'Enabled', or set it to
	'Disabled'.
Lease Time	Please select the lease time for every DHCP
	leases here. You can select the time period
	from the dropdown list, and the DHCP client
	will be forced to obtain a new IP address from
	this broadband router after this period of time.
	You can select 'Forever' if you're using this
	broadband router with only few computers
	(less than 30 computers)

Recommended Value if you don't know what to fill:

IP Address: 192.168.1.254 Subnet Mask: 255.255.255.0 802.1d Spanning Tree: Disabled

DHCP Server: Enabled

3-3-3 DHCP Server

You can use this setting to decide the range of IP address leases.

DHCP Server	
Start IP :	192.168.2.100
End IP:	192.168.2.200
Domain Name :	
DNS1 address :	168.95.1.1
DNS2 address :	168.95.192.1

Here are descriptions of every setup items:

Item Name	Description
Start IP	Please input the start IP address of the IP
	leases range.
End IP	Please input the end IP address of the IP leases
	range.
Domain Name	If you wish, you can also input the domain
	name for your network. This is optional.
DNS1 address	Input the IP address of DNS server provided by
	your ISP here. This field is REQUIRED.
DNS2 address	Input another IP address of DNS server
	provided by your ISP here. This field is optional
	and you can leave it blank.

Recommended Value if you don't know what to fill:

Lease Time: Two Weeks (or 'Forever', if you have less than 20 computers)

Start IP: 192.168.1.1 End IP: 192.168.1.200

Domain Name: (leave it blank)

NOTE:

- 1. The number of the last field (mentioned 'd' field) of 'End IP' must be greater than 'Start IP', and can not the same with router's IP address.
- 2. The former three fields of IP address of 'Start IP', 'End IP', and 'IP Address of 'LAN IP' section (mentioned 'a', 'b', and 'c' field) should be the same.
- 3. These settings will affect wireless clients, too.

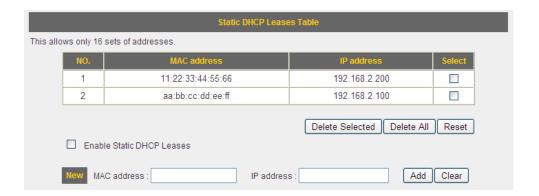
3-3-4 Static DHCP Leases

If you wish to assign a fixed IP address to certain computers / devices by DHCP, you can use this function to establish a MAC-to-IP address table here, so you can assign a specific IP address to a specific computer / network device by its MAC address.



Item Name	Description
Enable Static DHCP	Check this box to enable this function,
Leases	otherwise uncheck it to disable this function.
MAC Address	Input the MAC address of the computer or
	network device (total 12 characters, with
	character from 0 to 9, and from a to f, like
	'001122aabbcc').
IP address	Input the IP address you want to assign to
	this computer or network device.
Add	After you inputted MAC address and IP
	address pair, click this button to add the pair
	to static DHCP leases table.
Clear	Click this button to remove texts in MAC
	address and IP address field.

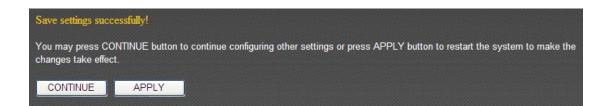
All MAC-to-IP address entries will be listed in this page, and this broadband router supports up 16 static DHCP leases:



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.

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:



3-4 Wireless

You can setup Wireless LAN connection parameters of this broadband router in 'Wireless' menu:



Please select one setting in this menu, then click 'Apply' to proceed. If you wish to go back to previous page, click 'Previous'.

3-4-1 Basic Settings

You can set basic settings of wireless LAN here.



Please select the working mode of this broadband router from 'Mode' dropdown list first:

- a. AP: Standard wireless AP (access point).
- b. Station-Infrastructure: This broadband router acts as both wireless communication client and server connects to another wireless access point as client, and serves other wireless clients as server.
- c. AP Bridge-Point to Point: Connect this router with another broadband router, to expand the scope of network.
- d. AP Bridge-Point to Multi-Point: Connect this router with up to four other broadband routers, to expand the scope of network.
- e. AP Bridge-WDS: Connect this router with up to four WDS-capable broadband routers, to expand the scope of network.
- f. *Universal Repeater:* This broadband router will repeat other wireless access point's signal to extend its wireless signal coverage, and also acts as a wireless access point to serve other wireless clients.

3-4-1-1 AP Mode

In AP mode, the following settings will appear:

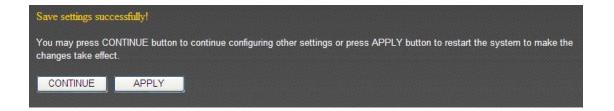


Item Name	Description
Band	Please select the radio band from one of following options:
	2.4 GHz (B): 2.4GHz band, only allows 802.11b wireless network client to connect this router (maximum transfer rate 11Mbps).
	2.4 GHz (N): 2.4GHz band, only allows 802.11n wireless network client to connect this router (maximum transfer rate 300Mbps).
	2.4 GHz (B+G): 2.4GHz band, only allows 802.11b and 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps for 802.11b clients, and maximum 54Mbps for 802.11g clients).
	2.4 GHz (G): 2.4GHz band, only allows 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps).
	2.4 GHz (B+G+N): 2.4GHz Band, Allows 802.11b, 802.11g, and 802.11N wireless clients. It's recommends to select this band to maximize compatibility.
ESSID	This is the name of broadband router. You can type any alphanumerical characters here,

	maximum 32 characters. ESSID is used to
	identify your own broadband router from
	others when there are other broadband
	routers in the same area. Default SSID is
	'Edimax', it's recommended to change default
	ESSID value to the one which is meaningful to
	you, like myhome, office_room1, etc.
Channel Number	Please select a channel from the dropdown list
	of 'Channel Number', available channel
	numbers are 1 to 13. You can choose any
	channel number you want to use, and almost
	all wireless clients can locate the channel
	you're using automatically without any
	problem. However, it's still useful to remember
	the channel number you use, some wireless
	client supports manual channel number select,
	and this would help in certain scenario when
	there is some radio communication problem.
Associated Clients	Click 'Show Active Clients' button to show
	the list of all connected wireless clients. You
	can click 'Refresh' in new window to get
	latest list again, or click 'Close' to close the
	window.
	Please note that if you have pop-up blocker
	installed, you may have to disable it or tell
	your pop-up blocker to allow the popup
	window, or you will not be able to see the
	wireless client list window.

TIPS: You can try to change channel number to another one if you think the data transfer rate is too slow, or keep having problem while transferring the file over wireless network. There could be some other broadband routers using the same channel, which will disturb the radio communication between wireless client and the broadband router.

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:

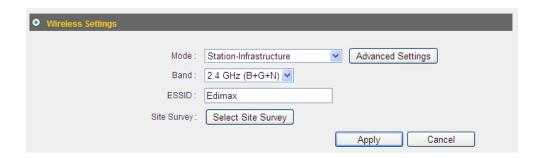


Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

You can click 'Continue' to continue on other settings without restart the broadband router, however, the changes you made will not take effect before you restart the broadband router.

3-4-1-2 Station-Infrastructure

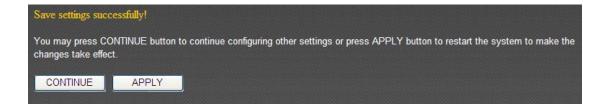
In Station-Infrastructure mode, you can select a wireless access point to become its wireless client, and also acts as wireless access point to serve other wireless clients. If you have the access privilege of other wireless access point nearby, and you wish to use that access point to access Internet, you can use this connection type:



Item Name	Description
Band	Please select the radio band from one of
	following options (must be the same with the
	wireless access point you wish to connect):
	2.4 GHz (B): 2.4GHz band, only allows 802.11b
	wireless network client to connect this router
	(maximum transfer rate 11Mbps).
	2.4 GHz (N): 2.4GHz band, only allows 802.11n
	wireless network client to connect this router
	(maximum transfer rate 300Mbps).
	2.4 GHz (B+G): 2.4GHz band, only allows 802.11b and 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps for 802.11b clients, and maximum 54Mbps for 802.11g clients).
	2.4 GHz (G): 2.4GHz band, only allows 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps).
	2.4 GHz (B+G+N): 2.4GHz Band, Allows 802.11b, 802.11g, and 802.11N wireless clients. It's recommends to select this band to

	maximize compatibility.
ESSID	This is the name of broadband router. You can
	type any alphanumerical characters here,
	maximum 32 characters. ESSID is used to
	identify your own broadband router from
	others when there are other broadband
	routers in the same area. Default SSID is
	'Edimax', it's recommended to change default
	ESSID value to the one which is meaningful to
	you, like myhome, office_room1, etc.
Site Survey	Click 'Select Site Survey' and a popup window
	will appear. All reachable wireless access
	points will be shown in the window. Select the
	wireless access point you wish to connect from
	the list, and click 'Done'. If the wireless access
	point you wish to connect is not listed, you can
	click 'Refresh' to rescan.
	If you still can't find the wireless access point
	you wish to connect, please move the
	broadband router to the place nearer to the
	access point you wish to connect.
WLAN MAC	Some wireless access points will only allow
	clients with certain MAC address to
	establish connection. In this case, you can
	input the MAC address that will be accepted
	by the wireless access point you wish to
	connect here. You can also click 'Clone MAC'
	button to use the MAC address of your
	computer (the one you used to connect to
	the web management interface currently).
Auto MAC Clone	If you wish to use the MAC address of wired
	LAN interface of this broadband router,
	select 'Enable', or select 'Disable' to not to
	use the MAC address of the wired LAN
	interface of this broadband router.

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.

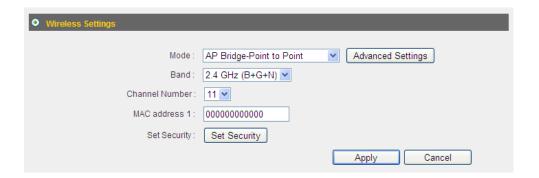
You can click 'Continue' to continue on other settings without restart the broadband router, however, the changes you made will not take effect before you restart the broadband router.

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

In this mode, you can use this broadband router as a wireless network bridge and let all computers connected to the LAN ports of both wireless access points to communicate with each other. This mode supports only one wireless access point peer.

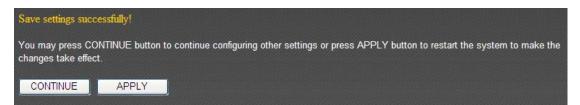
Please note that when you select this mode, this broadband router will act as wireless bridge only, and will not accept other wireless clients.

Also, you can connect to the wireless access point with the same functionality only. If you wish to connect to the wireless access points made by other manufacturer, please select 'AP Bridge-WDS' mode if the wireless access point you wish to connect supports WDS.



Item Name	Description
Band	Please select the radio band from one of following options (must be the same with the wireless access point you wish to connect):
	2.4 GHz (B): 2.4GHz band, only allows 802.11b wireless network client to connect this router (maximum transfer rate 11Mbps).
	2.4 GHz (N): 2.4GHz band, only allows 802.11n wireless network client to connect this router (maximum transfer rate 300Mbps).
	2.4 GHz (B+G): 2.4GHz band, only allows 802.11b and 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps for 802.11b clients, and maximum 54Mbps for 802.11g clients).

	2.4 GHz (G): 2.4GHz band, only allows 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps).
	2.4 GHz (B+G+N): 2.4GHz Band, Allows
	802.11b, 802.11g, and 802.11N wireless
	clients. It's recommends to select this band to
	maximize compatibility.
Channel Number	Select the channel number you wish to use;
	both access points must use the same channel.
MAC address 1	Input the MAC address of another wireless
	access point (the one you wish to connect).
Set Security	Click 'Set Security' button to set security
	functions of this wireless connection to
	improve security. Please refer to chapter
	3-2-1-7 for detailed instructions.

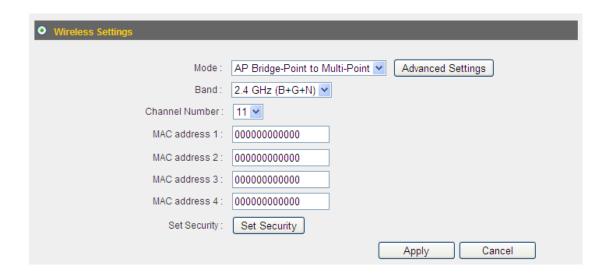


Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

You can click 'Continue' to continue on other settings without restart the broadband router, however, the changes you made will not take effect before you restart the broadband router.

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

In this mode, you can use this broadband router as a wireless network bridge and let all computers connected to the LAN ports of all wireless access points to communicate with each other. This mode supports up to four wireless access point peers.



Please note that when you select this mode, this broadband router will act as wireless bridge only, and will not accept other wireless clients.

Also, you can connect to the wireless access point with the same functionality only. If you wish to connect to the wireless access points made by other manufacturer, please select 'AP Bridge-WDS' mode if the wireless access point you wish to connect supports WDS.

Item Name	Description
Band	Please select the radio band from one of
	following options (must be the same with the wireless access point you wish to connect):
	wheress access point you wish to connecty.
	2.4 GHz (B): 2.4GHz band, only allows 802.11b
	wireless network client to connect this router
	(maximum transfer rate 11Mbps).
	2.4 GHz (N): 2.4GHz band, only allows 802.11n
	wireless network client to connect this router
	(maximum transfer rate 300Mbps).
	2.4.CU= (D.C). 2.4CU= band, only offered
	2.4 GHz (B+G): 2.4GHz band, only allows
	802.11b and 802.11g wireless network client

	to connect this router (maximum transfer rate 11Mbps for 802.11b clients, and maximum 54Mbps for 802.11g clients).
	2.4 GHz (G): 2.4GHz band, only allows 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps).
	2.4 GHz (B+G+N): 2.4GHz Band, Allows 802.11b, 802.11g, and 802.11N wireless clients. It's recommends to select this band to
	maximize compatibility.
Channel Number	Select the channel number you wish to use; all access points must use the same channel.
MAC address 1 to 4	Input the MAC address of other wireless access points (the access points you wish to connect).
Set Security	Click 'Set Security' button to set security functions of this wireless connection to improve security. Please refer to chapter 3-2-1-7 for detailed instructions.

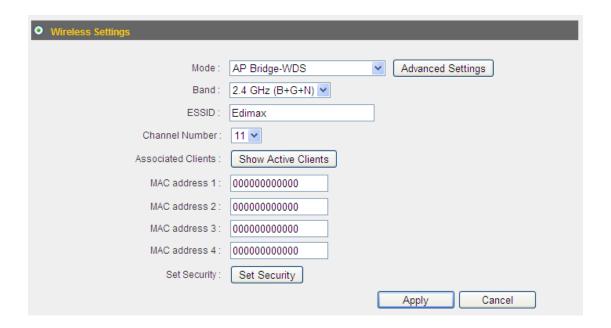


Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

You can click 'Continue' to continue on other settings without restart the broadband router, however, the changes you made will not take effect before you restart the broadband router.

3-4-1-5 AP Bridge: WDS

In this mode, this broadband router acts as both wireless communication bridge and wireless access point. This broadband router can establish communication with up to four WDS-compatible wireless access points, and let all computers connected to the LAN ports of every wireless access points communicate with each other. The broadband router is able to serve other wireless clients and acts as a wireless access point at the same time.



Item Name	Description
Band	Please select the radio band from one of
	following options (must be the same with the
	wireless access point you wish to connect):
	2.4 GHz (B): 2.4GHz band, only allows 802.11b
	wireless network client to connect this router
	(maximum transfer rate 11Mbps).
	2.4 GHz (N): 2.4GHz band, only allows 802.11n wireless network client to connect this router (maximum transfer rate 300Mbps).
	2.4 GHz (B+G): 2.4GHz band, only allows
	802.11b and 802.11g wireless network client
	to connect this router (maximum transfer rate
	11Mbps for 802.11b clients, and maximum
	54Mbps for 802.11g clients).

	2.4 GHz (G): 2.4GHz band, only allows 802.11g
	wireless network client to connect this router
	(maximum transfer rate 11Mbps).
	2.4 GHz (B+G+N): 2.4GHz Band, Allows
	802.11b, 802.11g, and 802.11N wireless
	clients. It's recommends to select this band to
	maximize compatibility.
ESSID	This is the name of broadband router. You can
	type any alphanumerical characters here,
	maximum 32 characters. ESSID is used to
	identify your own broadband router from
	others when there are other broadband
	routers in the same area. Default SSID is
	'Edimax', it's recommended to change default
	ESSID value to the one which is meaningful to
	you, like myhome, office_room1, etc.
Channel Number	Select the channel number you wish to use; all
	access points must use the same channel.
Associated Clients	Click 'Show Active Clients' button to show
	the list of all connected wireless clients. You
	can click 'Refresh' in new window to get
	latest list again, or click 'Close' to close the
	window.
	Diagramata that if you have non-un blocker
	Please note that if you have pop-up blocker
	installed, you may have to disable it or tell
	your pop-up blocker to allow the popup
	window, or you will not be able to see the
	wireless client list window.
MAC address 1 to 4	Input the MAC address of other wireless access
	points (the access points you wish to connect).
Set Security	Click 'Set Security' button to set security
	functions of this wireless connection to
	improve security. Please refer to chapter
	3-2-1-7 for detailed instructions.

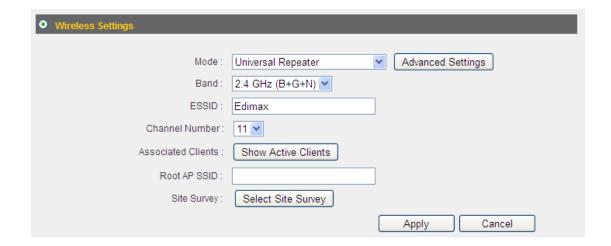


Please click 'Apply' to save changes you made and restart the broadband router, this requires about 30 seconds and the broadband router will stop responding (this is normal and is not malfunction). You can reconnect to this broadband router and continue on other settings later.

You can click 'Continue' to continue on other settings without restart the broadband router, however, the changes you made will not take effect before you restart the broadband router.

3-4-1-6 Universal Repeater

In this mode, this broadband router acts as a wireless repeater. It will repeat the signal of the wireless access point you specified, to extend its wireless coverage. The broadband router will still accept wireless clients when in this mode.



Item Name	Description
Band	Please select the radio band from one of
	following options (must be the same with the
	wireless access point you wish to connect):
	2.4 GHz (B): 2.4GHz band, only allows 802.11b
	wireless network client to connect this router
	(maximum transfer rate 11Mbps).
	2.4 GHz (N): 2.4GHz band, only allows 802.11n wireless network client to connect this router (maximum transfer rate 300Mbps).
	2.4 GHz (B+G): 2.4GHz band, only allows 802.11b and 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps for 802.11b clients, and maximum 54Mbps for 802.11g clients).
	2.4 GHz (G): 2.4GHz band, only allows 802.11g wireless network client to connect this router (maximum transfer rate 11Mbps).

	2.4 GHz (B+G+N): 2.4GHz Band, Allows 802.11b, 802.11g, and 802.11N wireless clients. It's recommends to select this band to maximize compatibility.
ESSID	This is the name of broadband router. You can type any alphanumerical characters here, maximum 32 characters. ESSID is used to identify your own broadband router from others when there are other broadband routers in the same area. Default SSID is 'Edimax', it's recommended to change default ESSID value to the one which is meaningful to you, like myhome, office_room1, etc.
Channel Number	Select the channel number you wish to use; all access points must use the same channel.
Associated Clients	Click 'Show Active Clients' button to show the list of all connected wireless clients. You can click 'Refresh' in new window to get latest list again, or click 'Close' to close the window. Please note that if you have pop-up blocker installed, you may have to disable it or tell your pop-up blocker to allow the popup
	window, or you will not be able to see the wireless client list window.
Root AP SSID	Please input the SSID of the wireless access point you wish to extend signal coverage.
Site Survey	Click 'Select Site Survey' and a popup window will appear. All reachable wireless access points will be shown in the window. Select the wireless access point you wish to connect from the list, and click 'Done'. If the wireless access point you wish to connect is not listed, you can click 'Refresh' to rescan.
	If you still can't find the wireless access point you wish to connect, please move the broadband router to the place nearer to the access point you wish to connect.



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.

You can click 'Continue' to continue on other settings without restart the broadband router, however, the changes you made will not take effect before you restart the broadband router.

3-4-2 Security Settings

In certain AP working modes, you can enable encryption to improve security level.

When you click 'Set Security' button, the following window will appear:



Please select an encryption method from 'Encryption' dropdown menu, and corresponding setting will appear:

Disabled

Encryption is disabled. It's **not recommended** to disable encryption because other people may use certain wireless scanner to copy the data transferred over air.

Select WEP to enable WEP (Wired Equivalent Privacy) encryption:



Item Name	Description
Key Length	There are two types of WEP key length: 64-bit
	and 128-bit. Using '128-bit' is safer
	than '64-bit', but will reduce some data
	transfer performance.
Key Format	There are two types of key format: ASCII and
	Hex. When you select a key format, the
	number of characters of key will be displayed.
	For example, if you select '64-bit' as key
	length, and 'Hex' as key format, you'll see the
	message at the right of 'Key Format' is 'Hex
	(10 characters), which means the length of
	WEP key is 10 characters.
Default Tx Key	You can set up to four sets of WEP key, and
	you can decide which key is being used by
	default here. If you don't know which one you
	should use, select 'Key 1'.
Encryption Key	Input WEP key characters here, the number of
	characters must be the same as the number
	displayed at 'Key Format' field. You can use
	any alphanumerical characters (0-9, a-z, and
	A-Z) if you select 'ASCII' key format, and if you
	select 'Hex' as key format, you can use
	characters 0-9, a-f, and A-F.
Enable 802.1x	Check this box to enable 802.1x authentication
Authentication	function. You need a Radius authentication
	server to perform 802.1x authentication.

Server IP address	Input Radius authentication server's IP address
	here.
RADIUS Server Port	Input Radius authentication server's service
	port here. Generally it's 1812.
RADIUS Server	Input the password of Radius server here.
Password	

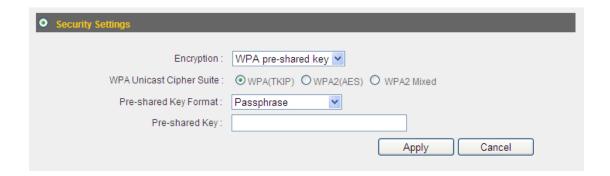
Please click 'Apply' to save changes, or click 'Reset' to clear the texts in all fields. If you click 'Apply', the following messages will appear:



You can click 'Continue' to back to previous page and continue setting, or click 'Apply' to restart the broadband router so the changes will take effect.

WPA pre-shared key

WPA (Wi-Fi Protected Access) is also an encryption method and is safer than WEP. It's recommended to use WPA instead of WEP when you need to use encryption to protect your data security.



Here are descriptions of every setup items:

Item Name	Description
WPA Unicast Cipher	Please select a type of WPA cipher suite.
Suite	Available options are: WPA (TKIP), WPA2
	(AES), and WPA2 Mixed. You can select one of
	them, but you have to make sure your wireless
	client support the cipher you selected.
Pre-shared Key Format	Select the type of pre-shared key, you
	can select Passphrase (8 or more
	alphanumerical characters, up to 63), or Hex
	(64 characters of 0-9, and a-f).
Pre-shared Key	Please input the WPA passphrase here.
	It's not recommended to use a word that can
	be found in a dictionary due to security
	reason.

Please click 'Apply' to save changes, or click 'Reset' to clear the texts in all fields. If you click 'Apply', the following messages will appear:

You can click 'Continue' to back to previous page and continue setting, or click 'Apply' to restart the broadband router so the changes will take effect.

WPA RADIUS

If you have RADIUS authentication server on your local network, you can authenticate the wireless clients by RADIUS server's user database. Only authenticated clients can establish wireless connection with this broadband router.



Item Name	Description
WPA Unicast Cipher	Please select a type of WPA cipher suite.
Suite	Available options are: WPA (TKIP), WPA2
	(AES), and WPA2 Mixed. You can select one of
	them, but you have to make sure your wireless
	client support the cipher you selected.
RADIUS Server IP	Input the IP address of RADIUS authentication
address	server here.
RADIUS Server Port	Input the port number of RADIUS
	authentication server here. Most of RADIUS
	server will use port number 1812 and you can
	keep using default value.
RADIUS Server	Input the password of RADIUS authentication
Password	server here.

Please click 'Apply' to save changes, or click 'Reset' to clear the texts in all fields. If you click 'Apply', the following messages will appear:



You can click 'Continue' to back to previous page and continue setting, or click 'Apply' to restart the broadband router so the changes will take effect.

3-4-3 MAC Address Filtering

This function will help you to prevent unauthorized users from connecting to your wireless router; only those wireless devices who have the MAC address you assigned here can gain access to your wireless router. You can use this function with other security measures described in previous section, to create a safer wireless environment. Up to 20 MAC addresses can be assigned.



To enable MAC address filtering, please check 'Enable Wireless Access Control' box in this page, the descriptions of other setting items are listed as follow:

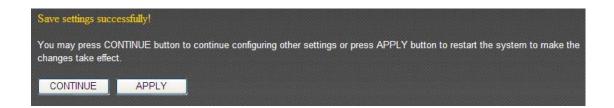
Item Name	Description
MAC address	Input the MAC address you wish to add to the
	MAC address to the table.
Comment	You can input any text here as the comment of
	this MAC address, like 'ROOM 2A Computer' or
	anything. You can input up to 16
	alphanumerical characters here. This is
	optional and you can leave it blank, however,
	it's recommended to use this field to write a
	comment for every MAC addresses as a
	memory aid.
Add	Click 'Add' button to add the MAC address and
	associated comment to the MAC address
	filtering table.
Clear	Click 'Clear' to remove the value you inputted
	in MAC address and comment field.

All MAC address entries will be listed in this page:

NO.	MAC address	Comment	Select
1	11:22:33:44:55:66	John's Computer	
2	aa:bb:cc:dd:ee:ff	Mary's Computer	
		Delete Selected C	elete All

To delete one or more entries listed here, please check the box of the entry you wish to delete (Under 'Select'), and click 'Delete Selected' button. If you wish to delete all mapping entries, click 'Delete All' button.

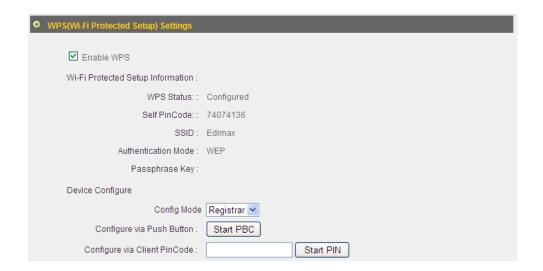
When you finished with the settings in this page, you can click 'Apply' button to save changes you made in this page, or you can click 'Cancel' to discard changes. After you click 'Apply' button, you'll see the following messages:



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.

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

WPS (Wi-Fi Protected Setup) provides a convenient way to establish the connection between this broadband router and wireless clients. Any WPS-compatible wireless clients can establish secure connection with this broadband router with simple push-button type configuration or PinCode type configuration.

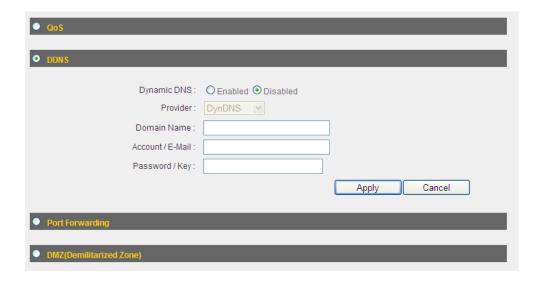


Item Name	Description
Enable WPS	Check this box to enable WPS function,
	uncheck it to disable WPS.
WPS Status	If the wireless security (encryption) function of
	this wireless router is properly set, you'll see
	'Configured' message here. If wireless security
	function has not been set, you'll see
	'unConfigured'.
Self PIN code	This is the WPS PIN code of this wireless
	router. This code is useful when you need to
	build wireless connection by WPS with other
	WPS-enabled wireless devices.
SSID	The SSID of this wireless router will be
	displayed here.
Authentication Mode	The wireless security authentication mode of
	this wireless router will be displayed here.
Passphrase Key	The WPA passphrase will be displayed as
	asterisk here.
Config Mode	Select the WPS configuration role of this
	broadband router.

	Registrar: This broadband router will act as WPS registrar and wait for wireless clients to send WPS configuration request.
	Enrollee: This broadband router will act as WPS enrollee and send WPS configuration request to other WPS registrar.
Configure via Push Button	Click 'Start PBC' to start Push-Button type WPS configuration (PBC). Please push the WPS push-button on other WPS-compatible network devices to begin WPS configuration.
	You can also push the 'WPS / Reset' button located at the back of this broadband router to start PBC without using web configuration interface.
Configure via Client PinCode	Please input the PinCode displayed at the configuration software of WPS-enabled wireless client, and click 'Start PIN' to establish connection with the wireless client.

3-5 Advance Settings

This router provides various network functionalities like QoS and DDNS, and you can configure these functions in 'Advanced Settings' menu.

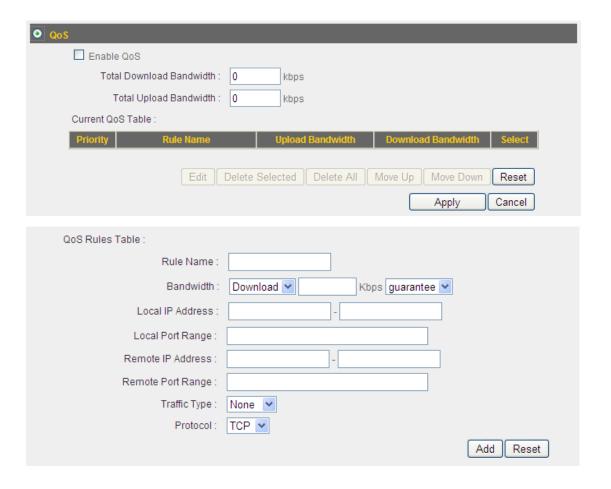


3-5-1 QoS

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.

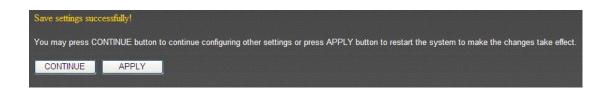
With this function, you can limit the maximum bandwidth or give a guaranteed bandwidth for a specific computer, to avoid said unpleasing result from happening.

3-5-1-1 Basic QoS Settings



Item Name	Description
Enable QoS	Check this box to enable QoS function, uncheck
	it to disable QoS.
Total Download	You can set the limit of total download
Bandwidth	bandwidth in kbits. To disable download
	bandwidth limitation, input '0' here.
Total Upload	You can set the limit of total upload bandwidth
Bandwidth	in kbits. To disable upload bandwidth limitation,
	input '0' here.
Rule Name	Input a name for this QoS rule for identification
	purpose. This name should be unique and not
	the same with others.
0 1 111	
Bandwidth	Set the speed limitation for this QoS rule:
	Bandwidth: Download V Kbps guarantee V
	(1) (2) (3)
	(1) Please select Download / Upload for the
	direction of data for this QoS rule first,
	(2) Input the data rate for this QoS rule,
	(3) and select Guarantee (provides a
	guaranteed speed for this rule), or Max (
Local IP Address	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.
Local Port Range	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).
Remote IP Address	Set remote IP addresses that will trigger this
	QoS rule. If only one IP address is involved, input
2	the IP address in left field only.
Remote Port Range	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).
Traffic Type	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.
Protocol	Select the protocol type here (TCP or UDP).
Add	Click 'add' button to add a new QoS rule
	(detailed instructions will be given below).
Reset	If you want to erase all values you just entered.
	Click 'Reset'
Edit	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!
Delete Selected	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.
Delete All	By clicking this button, you can delete all rules
2 6.666 /	currently listed in the QoS table. If the QoS
	table is empty, this button will be grayed out
	and cannot be clicked.
Move Up	Move selected rule up. First QoS rule will be
	proceed first, so you can move higher priority
	rules up.
Move Down	Move selected rule down.
111010 001111	THOSE SCIECTED FAIL GOVVII.



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 othe settings later.	٢
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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/)

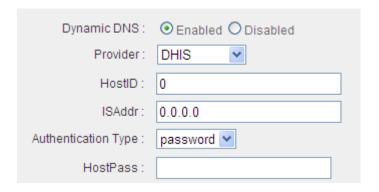
Please go to one of DDNS service provider's webpage listed above, and get a free DDNS account by the instructions given on their webpage. After that, you can use the DDNS page to setup DDNS parameters to use DDNS service:



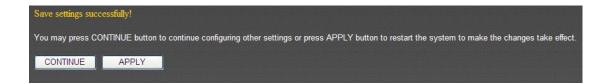
Here are descriptions of every setup items:

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

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



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).



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:



Item Name	Description
Enable Port	Check this box to enable port forwarding, and
Forwarding	uncheck this box to disable port forwarding.
Private IP	Input the IP address of the computer on local
	network which provides internet service.
Computer name	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.
	Please note that this list may not be able to list
	all computers on your local network.
Туре	Select the type of connection, TCP or UDP. If
	you're not sure, please select 'Both'.
Port Range	Input the starting port number in the left field,
	and input the ending port number in the right
	field. If you only want to redirect a single port
	number, just fill the port number in the left
	field.
Comment	Please input any text to describe this mapping,
	up to 16 alphanumerical characters.

Add	Add the mapping to port forwarding table.
Reset	Remove all inputted values.

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



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:



Item Name	Description
Enable DMZ	Check this box to enable DMZ function,
	uncheck this box to disable DMZ function.
Public IP address	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.
Client PC IP address	Please input the private IP address that the
	Internet IP address will be mapped to.
Туре	Select the type of connection, TCP or UDP. If
	you're not sure, please select 'Both'.
Port Range	Input the starting port number in the left field,
	and input the ending port number in the right
	field. If you only want to redirect a single port
	number, just fill the port number in the left
	field.
Comment	Please input any text to describe this mapping,
	up to 16 alphanumerical characters.
Add	Add the mapping to port forwarding table.
Reset	Remove all inputted values.

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':



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 if 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

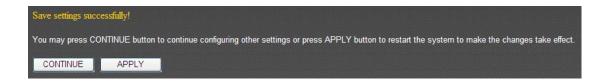
This function allows you to redirect a port on Internet IP address (on WAN port) to a specified port of an IP address on local network, so you can setup an Internet service on the computer on local network, without exposing it on Internet directly. You can also build many sets of port redirection, to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



Here are descriptions of every setup items:

Item Name	Description
Enable Virtual Server	Check this box to enable virtual server, and
	uncheck this box to disable virtual server.
Private IP	Input the IP address of the computer which
	provides Internet service.
Computer name	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.
	Please note that this list may not be able to list
	all computers on your local network.
Private Port	Input the port number of the IP address which
	provides Internet service.
Туре	Select the type of connection, TCP or UDP. If
	you're not sure, please select 'Both'
Public Port	Please select the port number of Internet IP
	address which will be redirected to the port
	number of local IP address defined above.
Comment	Please input any text to describe this mapping,
	up to 16 alphanumerical characters.
Add	Add the mapping to virtual server table.
Reset	Remove all inputted values.

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'.



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.



Here are descriptions of every setup items:

Item Name	Description
Enable	Check this box to enable support for special
	applications, and uncheck this box to disable
	this support.
IP Address	Input the IP address of the computer which is
	going to use the special application.
Computer name	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.
	Please note that this list may not be able to list
	all computers on your local network.
TCP Port to Open	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.
UDP Port to Open	Input the UDP 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 UDP port, leave it blank.
Comment	You can input any text here to help you remember the purpose of this item. This is optional.
Select Game	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.
	After a game is selected, click 'Add' (the one next to 'Select Game' dropdown list) to add the connection parameters to all respective fields.
Add	Click this button to add a new port mapping rule to special applications table.
Reset	Click this button to remove all values in every field.

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:

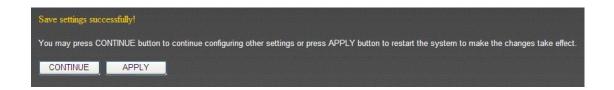


3-6-3 UPnP Settings

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.

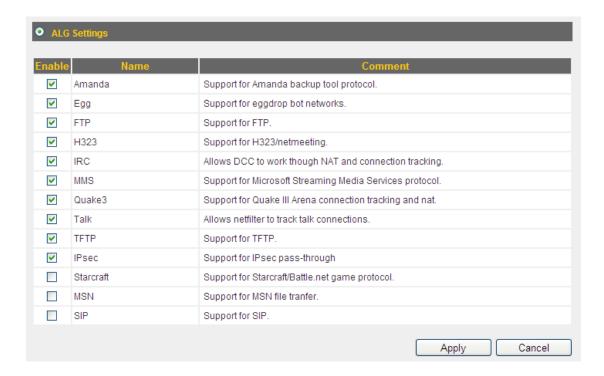


After you made your choice, please click 'Apply' button:



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.



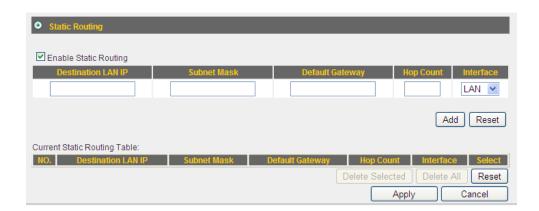
All applications that require ALG support and compatible with this broadband router is listed here. You can check all applications you will use on local computer. After you made your choice, please click 'Apply' button:



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

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:



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



Here are descriptions of every setup items:

Item Name	Description
Enable MAC Filtering	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.
Client PC MAC address	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'
Computer Name	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.
	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.
Comment	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.
Add	Click 'Add' button to add the MAC address and associated comment to the MAC address filtering table.
Reset	Remove all inputted values.

All MAC address entries will be listed in this page:



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:



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:



Here are descriptions of every setup items:

Item Name	Description
Client PC Description	Please input any text to describe this IP
	address, up to 16 alphanumerical characters.
Client PC IP address	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.

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



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:



Here are descriptions of every setup items:

Item Name	Description
Protocol	Please select the protocol type of this service:
	TCP or UDP, or 'Both'.
Port Range	Please input the port range if this service. For a
	single port number, just input the number of
	service port (like '110').
	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.

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:



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.



Here are descriptions of every setup items:

Item Name	Description
Enable URL Blocking	Check this box to enforce URL Blocking,
	uncheck it to disable URL Blocking.
URL/Keyword	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).
Add	Click 'Add' button to add the URL / keyword to
	the URL / Keyword filtering table.
Reset	Click 'Reset' to remove the value you inputted
	in URL/Keyword field.

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



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:



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:



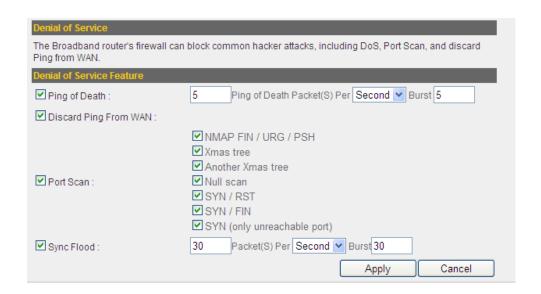
Here lists four kinds of DoS attacks, please select the type of DoS attack you wish this broadband router to protect, and you can select multiple types of attacks.

The descriptions of every DoS attack is listed below:

Item Name	Description
Ping of Death	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.
Discard Ping From	Ping is a common and useful tool to know
WAN	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.
Port Scan	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

	so. Check this box and the router will block all
	traffics which are trying to scan your Internet
	IP address.
Sync Flood	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.

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
Ping of Death	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.
Discard Ping From WAN	Check the box to activate this DoS prevention mechanism.
Port Scan	Many kind of port scan methods are listed here, please check one or more DoS attack methods you want to prevent.

Sync Flood	Like Ping of Death, you can set the threshold of
	when this DoS prevention mechanism will be
	activated.

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:



CHAPTER IV: STATUS, TOOLS & LANGUAGE

4-1 Status

In this menu, you can check the operation status of this broadband router. To view the status, follow the following instructions:

1. Click 'Status' tab from main menu:



2. The basic system information will be shown:



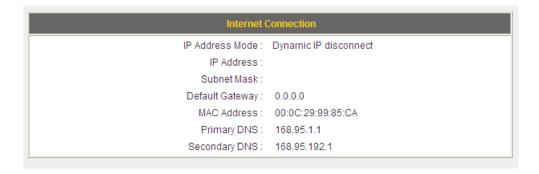
You can check basic system information about this broadband router here. In addition, you can click other information about this broadband router by click status list under 'Status' tab:



See detailed description for every kind of information below.

4-1-1 Internet Connection

This page shows the current status of Internet connection.



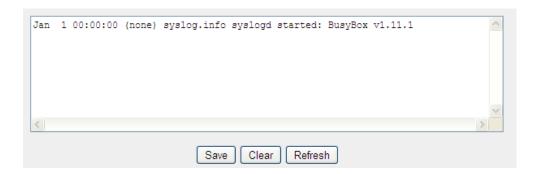
4-1-2 Device Status

This page shows current wireless LAN and wired LAN configuration.



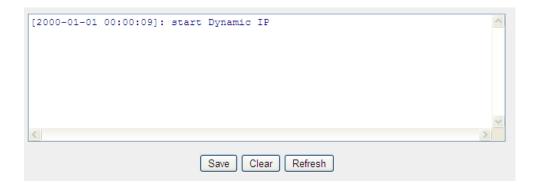
4-1-3 System Log

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



4-1-4 Security Log

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



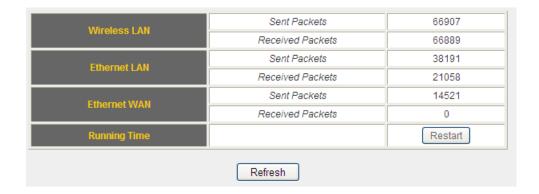
4-1-5 Active DHCP Client

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



4-1-6 Statistics

This page shows the statistical information of network interfaces of this broadband router, and the total system uptime.



4-2 Tools

This broadband router comes with several tools that will help you to manage the configuration of broadband router, upgrade the firmware, and restart the broadband router.

To use these tools, follow the following instructions:

1. Click 'Tools' tab.



2. The list of tools will appear:



Please select the tool you wish to use, then click 'Apply' button. If you wish to go back to previous page, click 'Previous' button.

3-9-1 Configuration Tools

In this page, you can backup and restore current system configuration, and reset all settings to factory default value.



Here are descriptions of every setup items:

Item Name	Description
Backup Settings	Click 'Save' button to download the current
	configuration as 'config.bin' file. Save this file
	on your computer to keep current
	configuration. If you want to keep more than
	one version of configuration file, please
	rename the configuration file to another
	name.
Restore Settings	Click 'Browse' button to select a
	previously-saved configuration file from your
	computer, then click 'Upload' to upload the
	configuration file to broadband router, and the
	configuration of broadband router will be
	replaced by the content of uploaded
	configuration file.
Restore to Factory	Click 'Reset' button to restore the settings of
Default	the broadband router to factory default value.
	A pop-up message window will appear and ask
	you to confirm the reset.

3-9-2 Firmware Upgrade

New firmware releases will provide new functions to this broadband router, and you can use firmware upgrade function to upgrade the firmware to new version.

NOTE: It's recommended to use wired Ethernet connection to upload the firmware file, please refrain from using wireless connection to upload the firmware file. Also, please do not switch the broadband router or computer you used to upload the firmware file off during firmware upgrade. This will cause broadband router become malfunction and unusable.

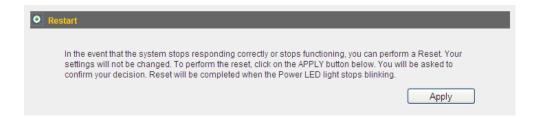
Please download the firmware file from our company's website and save it on your computer, and use firmware upgrade function to upgrade firmware:



Please click 'Browse...' button to select the firmware file saved on your computer, then click 'Apply' button to start firmware upload. The broadband router will restart after file upload is successful, and all settings will be lost. Please use default IP address (192.168.2.1) to connect to the broadband router and set every settings again.

3-9-3 Restart

If you found that the broadband router is not functioning correctly, or responding slowly then usual, you can use this function to restart the broadband router, and this may correct the problem.



Click 'Apply' button to restart the broadband router. You'll be prompted to confirm the restart, click 'OK' to restart the broadband router.

4-3 Language

This broadband router's web-based user interface supports several languages. You can change the display language by click 'Language' button in main menu.

To change the display language, select 'Language' dropdown menu from upper-right corner of main menu, and select the language you wish to use.

