

Wireless VPN Router

802.11g/802.11b Wireless Access Point

Broadband Internet Access

4-Port Switching Hub

User's Manual

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Chapter 1

Introduction

1

Congratulations on the purchase of your new Wireless Router. The Wireless VPN router is a multi-function device providing the following services:

- **Shared Broadband Internet Access** for all LAN users.
- **4-Port Switching Hub** for 10BaseT or 100BaseT connections.
- **Wireless Access Point** for 802.11b and 802.11g Wireless Stations.

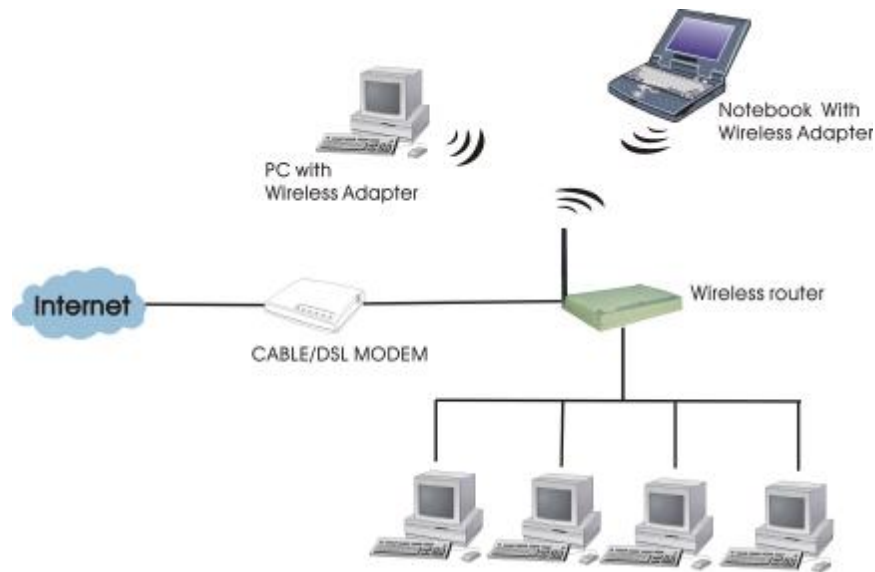


Figure 1: Wireless VPN Router Application Map

Wireless VPN router Features

The Wireless VPN router incorporates many advanced features, carefully designed to provide sophisticated functions while being easy to use.

Package Contents

The following items should be included:

- The Wireless VPN router Unit
- Power Adapter
- Quick Installation Guide
- CD-ROM containing the on-line manual.

If any of the above items are damaged or missing, please contact your dealer immediately.

Physical Details

Front-mounted LEDs

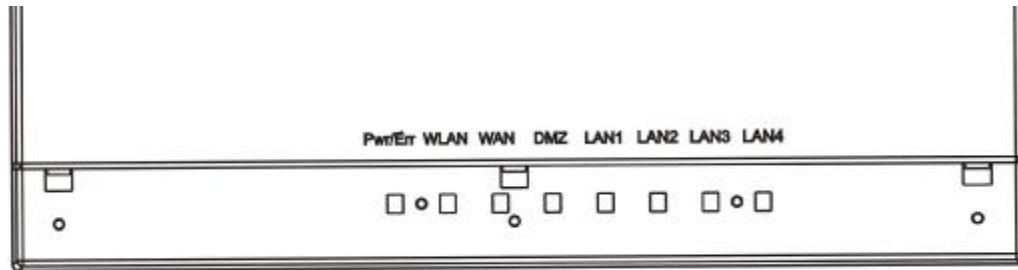


Figure 2: Front Panel

	Color	Status
Pwr/Err	Green	On - Power on. Off - No power.
WAN	Green	On - Connection to the Broadband Modem attached to the WAN port is established. Off - No connection to the Broadband Modem. Flashing - Data is being transmitted or received via the WAN port.
WLAN	Green	On - Wireless connection available; Wireless Access Point is ready for use. Off - No Wireless connection available. Flashing - Data is being transmitted or received via the Wireless access point. Data includes "network traffic" as well as user data.
LAN (1-4)	Green	On -Linked to LAN Off - No link to LAN Flashing - Data is being transmitted or received via LAN
DMZ	Green	On -Linked to DMZ Off - No link to DMZ Flashing - Data is being transmitted or received via DMZ

Rear Panel

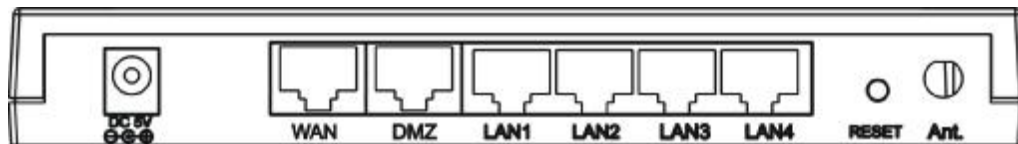


Figure 3: Rear Panel

Power port (DC 5V)	Connect the supplied power adapter here.
10/100BaseT LAN port	Use standard LAN cables (RJ45 connectors) to connect your PCs to these ports. If required, any port can be connected to another hub. Any LAN port will automatically function as an "Uplink" port when necessary.
WAN port (10/100BaseT)	Connect the DSL or Cable Modem here. If your modem came with a cable, use the supplied cable. Otherwise, use a standard LAN cable.
Reset Button	

Chapter 2

Installation

2

Requirements

- Network cables. Use standard 10/100BaseT network (UTP) cables with RJ45 connectors.
- TCP/IP protocol must be installed on all PCs.
- For Internet Access, an Internet Access account with an ISP, and either of a DSL or Cable modem (for WAN port usage)
- To use the Wireless Access Point, all Wireless devices must be compliant with the IEEE802.11b or IEEE802.11g specifications.

Procedure

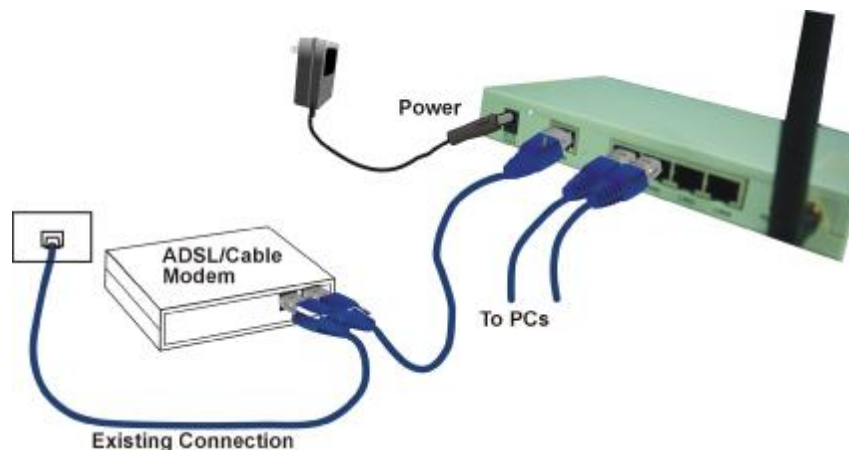


Figure 4: Installation Diagram

1. Choose an Installation Site

Select a suitable place on the network to install the Wireless Router.
Ensure the Wireless VPN router and the DSL/Cable modem are powered OFF.

2. Connect LAN Cables

Connect PCs to the LAN ports on the Wireless VPN router with standard LAN cables (RJ-45).

3. Connect WAN Cable

Connect the DSL or Cable modem to the WAN port on the Wireless Router. Use the cable supplied with your DSL/Cable modem. If no cable was supplied, use a standard cable.

4. Power Up

- Power on the Cable or DSL modem.
- Connect the supplied power adapter to the Wireless VPN router and power up.
Use only the power adapter provided. Using a different one may cause hardware damage

5. Check the LEDs

- The *Power* LED should be ON.
- For each LAN (PC) connection, the LAN should be ON (provided the PC is also ON.)
- The *WAN* LED should be ON.
- The *WLAN* LED should be ON

Chapter 3

Configuration

3

NOTE !

Before setting up the Wireless Router, make sure your PCs are configured to "Obtain an IP (or TCP/IP) address automatically".

For Windows 2000 & XP Users

1. Go to **Start à Control Panel à Network and Internet Connections à** (Right-click on) **Local Area Connection à Properties**
2. Make sure the box next to Internet Protocol (TCP/IP) is checked. Click the **Internet Protocol (TCP/IP)** and click the **Properties** button.
3. Select "Obtain an IP address automatically".
Select "Obtain DNS server address automatically".
Then click OK to complete the PC configuration.
4. Restart your computer.

Setup Wizard

For Windows 2000 & XP users, your computer should obtain an IP Address automatically from the Wireless Router's DHCP Server, after you've done the above steps and restarted your computer.

1. Start your WEB browser. In the Address box, enter the following:

HTTP://192.168.1.254



Figure 5

2. Press the **Setup Wizard** on the upper left screen to configure the router.



Figure 6

3. Refer to the data from your ISP and the following table, please select the type of Internet Access you want. And then follow the instructions on the screen to continue.



Figure 7

The type of Internet Access	Type of connection	Data Required
PPPoE (DSL dynamic mode)	PPPoE	Please enter “ Login name” and “ Password”.
DHCP (CATV dynamic mode)	DHCP	Usually you don’t need to enter any data, but some ISP may require a particular <i>Hostname</i> , <i>Domain name</i> . Please enter the data required.
Static configuration	Static IP	For static IP users, please enter the data provided by your ISP including IP address, Subnet Mask, Gateway,

		Primary DNS and Secondary DNS.
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4. Please press **Reboot** after the configuration is completed and wait for a moment for Network connection checking.

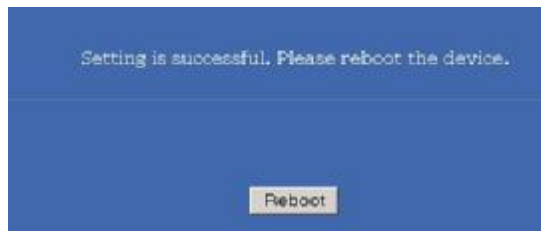


Figure 8

Check the Network Connection

After the installation is completed, you can open a new browser to surf the Internet.

If the browser fails to open the web page, you can check the Internet connection by following the steps below:

1. On the browser's "address" field, type in **192.168.1.254** and click "Go".
2. Leave both "User Name" and "Password" blank and press "Ok".
3. On the screen, select "Network status" tab on the upper right hand screen.
4. Locate "IP address" on the screen.
 - If the IP address is not 0.0.0.0 (as illustrated below), the Internet connection is established.
 - If the IP address is 0.0.0.0, that means the Internet connection test fails. Please check your data, the Cable/DSL modem, and all connection. Make sure you have entered all data correctly. Repeat the Setup Wizard described above.

Network Status



Figure 9

The Internet connection is established.

Chapter 4

4

Configuration via Web

In the setup home page, you can set your preference from **Internet Port (CATV dynamic Mode, PPPoE, Static configuration, PPTP)**, **Local Port**, **Advanced Setup(Management, Virtual Server, Packet Filter, Static Route, Dynamic DNS, URL Blocking)**, **Network Status (Connection Status, Session List, Users List,)**, and **Others (Factory Reset, Save Configuration, Firmware Upgrade.)**

Internet Port

The opening screen contains settings for the Internet connection interface. Click on the **down arrow 6** to select the desired Internet connection mode on the list.

Obtain configuration automatically (CATV dynamic mode)	For users who are using Cable Modem Internet service.
PPPoE (DSL dynamic mode)	For users who are using xDSL Internet service that runs PPPoE. If your xDSL service uses PPPoE, after installing the Router, do not run PPPoE software on your computers.
Static configuration	Select this item when the ISP assigns static IP address for your account.
PPTP (DSL dynamic mode)	

CATV dynamic Mode

Selecting this mode enables you to obtain dynamic IP address from your ISP via DHCP support. Once the IP address is obtained, you can access the Internet.

For most cases, this page needs no input. However, some ISPs may require some information for identification purpose. For example: Device/Computer name and Domain Name; please enter the information required to complete the settings.

BroadBand Router

Internet Port Local Port Advanced Setup Network Status Others

Internet Port - CATV dynamic Mode

Obtain configuration automatically (CATV dynamic mode)

Device Information

Assign IP Address: 192.168.1.1 Mod

Device/Computer Name: Unlabeled

Domain Name: Domain

If Address will be obtained automatically

DNS Configuration

DNS Server: Dynamic Static

Primary: 1.1.1.1

Secondary: 1.1.1.1

Check to modify the MAC address

Figure 10

Device Information

Adapter Address	This field is grayed out, because the Adapter Address is not supposed to be entered randomly. Do Not change the content unless you are sure it is necessary to modify your MAC address. To modify the address; check ☐ Modify and enter the desired MAC address.
Device/Computer Name	Enter a descriptive name for identification purpose. Some Internet Service Providers (ISP) requires this information and if that is the case, they will provide you with the name.
Domain Name	<i>For example: yourcompany.com.</i> The maximum input for this field is 32 alphanumeric characters and it is case insensitive. <i>Note: 1. Your ISP may ask you to input a certain domain name. 2. Domain name is also required for internal network's email and news functions.</i>
DNS Configuration	This field is grayed out for the IP address is obtained dynamically
DNS Server	Select Dynamic or Static. Enter the information of Primary and Secondary DNS Server provided by your ISP when Static configuration is selected.

Undo	Click Undo to clear all the settings on this page.
Save	After completing the settings on this page, click Save to save the settings.

PPPoE (DSL dynamic Mode)

If this mode is selected and settings are saved, this Router will be connected to the Internet over an always-on connection by a method provided by PPPoE.

PPPoE offers simulated dial-up, which save users' time and effort to run the program on their PCs. And the auto-connect/disconnect feature lets the system to stay idle when there's no activity, but pick up the connection in no time when there's network activity. This can significantly save users' cost on connection fees.

The MTU function lets you choose the maximum packet size that fits your need for optimal throughput. To reduce the packet size can help connecting to certain web sites or speeding up packet to be received/sent.

BroadBand Router

Internet Port Local Port Advanced Setup Network Status Others

Factory Reset Save Configuration Firmware Upgrade

Internet Port - DSL dynamic Mode

PPPoE (DSL dynamic mode)

Device Information

Adapter Address: [11 - E0 - 11 - 01 - A3 - 25] ☐ Modify

Device/Computer Name: [Unlabeled]

Domain Name: [Domain]

PPPoE Information

PPPoE Account: Active Profile: ☒ 1 ☐ 2 ☐ 3

User Name: [Unlabeled]

Password: [Unlabeled]

Confirm Password: [Unlabeled]

Service Name: [Unlabeled]

Max packet size (MTU): [1487]

☒ Static IP Address: [Unlabeled]

☒ Static DNS Server:

Primary: [Unlabeled]

Secondary: [Unlabeled]

Auto-disconnect if idle for: [5] minutes

☒ Auto reconnect

Undo Save

Figure 11

Device Information

Adapter Address	This field is grayed out, because the Adapter Address is not supposed to be entered randomly. Do Not alter the content unless you are sure it is necessary to modify your MAC address. To modify the address, check ☐ Modify and enter the desired MAC address.
Device/Computer Name	Enter a descriptive name for identification purpose. Some Internet Service Providers (ISP) requires this information and if that is the case, they will provide you with the name.
Domain Name	<i>For example: yourcompany.com.</i> The maximum input for this field is 32 alphanumeric characters and it is case insensitive

PPPoE Information

PPPoE Account	Active Profile ☒ 1 ☐ 2 ☐ 3 You can set up to three PPPoE accounts, while only one account can be enabled at a time. To set the profile, select the profile number, enter all the information, and then click on Save . The device will save the information, restart and return to the previous menu page. If you don't see the saved information on the screen, click on the "Internet Port" to refresh the screen.
Username	Maximum input is 52 alphanumeric characters (case sensitive)

Password	Maximum input is 36 alphanumeric characters (case sensitive)
Confirm Password	Re-enter your password for confirmation.
Service Name	For identification purpose. If it is required, your ISP will provide you with the information.
MAX PACKET SIZE (MTU)	Max packet size (MTU): Click the down arrow 6 to select the most appropriate MSS (maximum segment size; default value is 1492) for your application. Reducing the packet size can help connecting to certain web sites or speeding up packet transfer rate. If the incorrect selection is selected, you may not be able to open certain web sites.
Static IP Address:	Enter the IP address provided by your ISP.
Static DNS Server	Enter the primary and secondary DNS addresses provided by your ISP.
Auto-disconnect if idle for minutes	Configure this device to disconnect the PPPoE connection when there is no activity for a predetermined period of time. • Default: 5 minutes. You can input any number from 0 to 65535. • To keep the line always connected, set the number to 0.
Auto-reconnect	Check to enable auto-reconnected with PPPoE line. This function allows the device to automatically reconnect when the line is disconnected due to ISP problem.
Save	After completing the settings on this page, click Save to save the settings.
Undo	Click Undo to clear all the settings on this page.

Static Configuration

For leased line users, information provided by their ISPs has to be filled in the below respective fields when this mode is selected. Information from your ISP includes: IP address, Subnet Mask, Gateway, primary DNS, secondary DNS, note that there may be more than one IP address from your ISP, select one address and enter it in the corresponding field.



Figure 12

Device Information

Adapter Address	This field is grayed out, because the Adapter Address is not supposed to be entered randomly. Do Not alter the content unless you are sure it is necessary to modify your MAC address. To modify the address, check ☐ Modify and enter the desired MAC address.
Device/Computer Name	Enter a descriptive name for identification purpose. Some Internet Service Providers (ISP) requires this information and if that is the case, they will provide you with the name
Domain Name	<i>For example: yourcompany.com.</i> The maximum input for this field is 32 alphanumeric characters and it is case insensitive

IP Address

IP Address	Enter the information provided by your ISP.
Subnet Mask	Enter the information provided by your ISP.
Gateway	Enter the information provided by your ISP.

DNS Server Configuration

Primary/Secondary	Enter the information provided by your ISP.
--------------------------	---

Undo	Click Undo to clear all the settings on this page.
Save	After completing the settings on this page, click Save to save the settings.

Local Port

This screen contains settings for LAN interface attached to the local network. You can set to distribute IP address to local PCs or not.

If “**Distribute IP address to local computer**” is selected, users can assign IP addresses for computers on LAN. The number of IP address decides the number of clients allowed to obtain IP addresses. **Note that all the PC on the same LAN should use the same subnet Mask.**

Users can also set Static DHCP in this page. Users are allowed to set 32 Static DHCP. Using this feature, the device will assign the same IP address to a computer (according to the network adapter’s MAC address) and this computer becomes the only one able to request that IP address. This is quite useful to set virtual servers which requires particular fixed IP for outside Internet access.



Figure 13

Private Network

IP Address	Default: 192.168.1.254 (this is the local address of this Router)
Subnet mask	Default: 255.255.255.0

DHCP Server

Do not distribute IP address to local computers	Checking this radio button to disable this Router to distribute IP Addresses (DHCP Server disabled)
Distribute IP addresses to local computers	Checking this radio button to enable this Router to distribute IP Addresses (DHCP enabled). And the following field will be activated for you to enter the starting IP Address
Start IP address	The starting address of this local IP network address pool. The pool is a piece of continuous IP address segment. Keep the default value 192.168.1.1 should work for most cases.
Number of IP address	Maximum: 253. Default value 253 should work for most cases. <i>Note: If “Continuous IP address pool starts” is set at 192.168.1.1 and the “Number of IP address in pool” is</i>

	253, the device will distribute IP addresses from 192.168.1.1 to 192.168.1.253 to all the computers in the network that request IP addresses from DHCP server (Router)
Static DHCP IP&MAC addr	Click the Config. button to enter the Static DHCP page. Enter IP and Network adapter MAC addresses for Static DHCP and click the Add button to save the settings. Click Delete All to clear all entries. Click the Index drop-down menu to select the desired entry number and then click Delete to delete only the selected one. You can add up to 32 static DHCP IPs. Click Back to return to the Local Port page to continue
WINS server	When necessary, enter the IP Address of the Windows domain name server.
Save	After completing the settings on this page, click Save to save the settings.
Undo	Click Undo to clear all the settings on this page.



Figure 14

Advanced Setup

Management

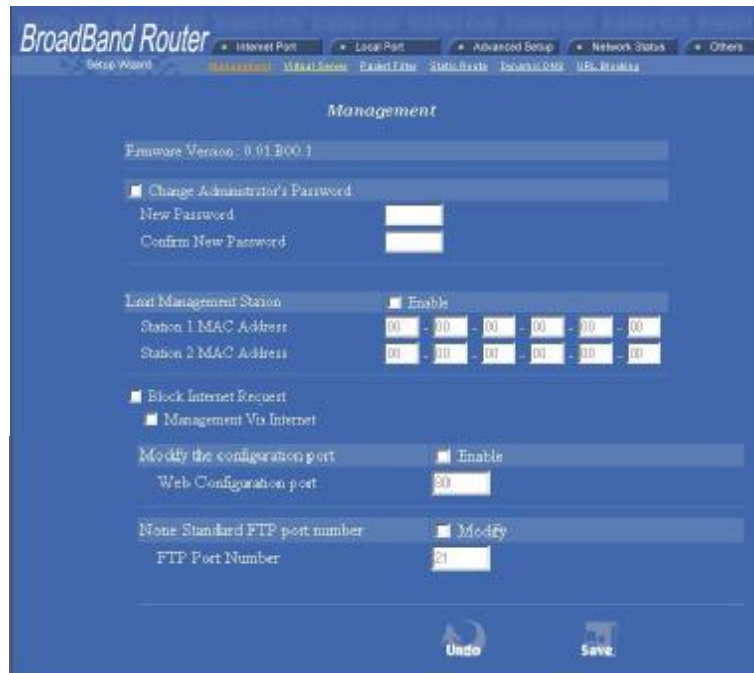


Figure 15

Change Administrator's password: change the password for the device.

New Password	Enter the new password.
Confirm New Password	Re-enter the new password for confirmation.

Limit Management

Click ☐ to enable this function.

Enables two stations to manage this IP Share through Web configuration. Enter the MAC addresses of the stations you selected for management. After the setup is completed, only the assigned stations with correct password authentication can manage this IP Share device.

Section 1 MAC Address	Enter the first management station's network adapter MAC addressess.
Section 2 MAC Address	Enter the second management station's network adapter MAC address. If you are only setting up one management station, leave Station 2 MAC address with all F.
Block Internet Request	Click ☐ to enable this function. Blocks requests from Internet to the local network. If this item is checked, the function of management through Web configuration will be disabled. In other words, Internet requests and the HTTP management, namely ICMP, IDENT, and HTTP will be rejected.

Management via Internet	Allows management of this device via HTTP from Internet. This field will be automatically disabled when Block Internet Request is checked. If Block Internet Request is not enabled, you can choose to enable/disable this function.
--------------------------------	---

Below are coordinate results of Block Internet Request and HTTP management for this device. Refer to this table for further Internet/system management.

V: Checked

O: Unchecked

Block Internet Request	Management Via Internet	Coordinate Result
V	O (automatically)	WAN requests over TCP 113 (IDENT) and ICMP are rejected. HTTP management is not allowed.
O	V	WAN requests over TCP 113 (IDENT) and ICMP are accepted. HTTP management is allowed.
O	O	WAN requests over TCP 113 (IDENT) and ICMP are accepted. HTTP managements is not allowed.

Modify the configuration port ☐ Enable

Check to modify web configuration port number settings.

Web Configuration port	Input the port number for web configuration. The default web port for configuration is set to 80. If you want to set the port to other port, input that port number and click SAVE . Once the web configuration was modified, configuration over web should be changed with the new setting; e.g. if the web configuration port was set to 8080, to login the web configuration, you need to input the address like: http://192.168.1.254:8080 (where 192.168.1.254 is Router's local port IP address.)
-------------------------------	--

None Standard FTP Port Number

Check to modify FTP port port number setting.

FTP Port Number	The standard FTP port is set to port 21. You can set it to other port as long as they are free to use.
------------------------	--

Save	changing the setting(s), click Save to save the setting(s)
Undo	Click Undo to clear all the settings on this page.

Virtual Server

In this page, you can set up a local server with specific port number that stands for the service (e.g. web(80), FTP(21), Telnet(23)). When this device receives an incoming access request for this specific port, it will be forwarded to the corresponding internal server. You can add virtual servers by either port numbers or by names.

Maximum 24 Server entries are allowed and each port number can only be assigned to one IP address.

NOTE: *Setting up Virtual Server is like opening the firewall, which exposes your network to users on the Internet. Which means the IP Share's NAT will no longer be able to provide protection from hackers.*



Figure 16

Add Vitural Server

Method ☒ By Name ☐ By Port	You can select to set up a virtual server either by name or by port number.
Application (Port)	Select and click ▼ to scroll down. Select from the most popular server applications for Virtual Server.
Port Type	Select the port type (TCP or UDP) for the port number that was entered earlier.
Single/Range, Port Number	For selecting a specific port or a range of ports which you want the Internet users to be able to access. The valid port number ranges from 0 to 65535.
Local Server IP Address	Enter the Local Server's IP address (for the specified port entered above).
Undo	Click Undo to clear all the settings on this page.
Add	Each time you finished setting, click Add and the added servers will appear on the Server List .



Figure 17

Server List	Display all the virtual servers.
Delete All	Click to delete all the servers on the list.
Delete	Click the Index drop-down menu to select the desired server number and then click Delete to delete only the selected server.



Figure 18

DMZ Host Function:

If the DMZ Host Function is enabled, it means that you set up DMZ host at a particular computer to be exposed to the Internet so that some applications/software, especially Internet / online game can have two-way connections. You can enter up to four DMZ Hosts in the device.

DMZ WAN IP Address	Enter the WAN IP Address set for DMZ Host.
DMZ LAN IP Address	Enter the local IP address mapping to the client computer, which you want to use as the DMZ Host computer.

Undo	Click to clear all the settings on this page.
Add	After completing the settings on this page, click “Add” to save the settings.
DMZ List	Display all the DMZ hosts.
DELETE ALL	Click to delete all the DMZ host(s) on the list.
Delete	Click on the Index drop-down menu to select the desired host number and then click Delete to delete only the selected host.

Packet Filters

In the Packet Filters setup screen, you can block specific internal users from accessing the Internet and you can also disable specific Internet services.

You can set up the filters through the following two filters: **Network Adapter Address (MAC address)** and **IP Address**. Each filter can be set to **Filter (drop)** or **Forward (pass)** packets. **You can input up to 24 filters in this device.**



Figure 19

NETWORK ADAPTER ADDRESS FILTER

Filter according to **local** computer’s network adapter MAC address (also known as the adapter card’s Physical Address).

▣ FILTER ▣ FORWARD	SELECT TO FILTER OR FORWARD FOR THE FOLLOWING ADAPTER ADDRESSES.
ADAPTER ADDRESS	ENTER THE DESIRED ADAPTER ADDRESSES.

IP Address Filter

Filter with computer’s IP address.

Filter/Forward	Select to Filter or Forward for the following IP Addresses.
Single/Range	You can filter a single IP, or a range of the IP addresses.

IP Range	Enter the Start and End IP addresses for a range of IP addresses for filter/forward.
Direction ▣ From Local IP ▣ To Remote IP	Filtering IP address of a local computer; or filtering IP address of a remote server (this remote server connects to the device via Internet).



Figure 20

TCP/UDP Port Filter

Filter using the port number. You can set filter for a single port or a range of ports.

Filter/Forward	Select to Filter or Forward for the following assigned port(s).
Single/Range	You can filter a single port, or a range of ports
Port Number	The port number(s) for the filters.
Port Type	• TCP • UDP: filter according to the Connection-Based Application Service on the remote server using the port number.

Add	Each time you finished setting the filters, click the Add button and the added filter will appear on the Filter List
Undo	Click Undo to clear all the settings in this category
Filter List	Display all the Packet Filters.
Delete All	Click to delete all the filters on the list.
Delete	Click on the Index drop-down menu to select the desired filter number and then click Delete to delete only the selected filter.

Static Route

You can set static routes to manually administrate the network topology/traffic when the dynamic route is not effective enough.

To set static routers, select “**Static Route #1**” or “**Static Route #2**”, enter the settings. You can refer to the following two example applications for settings. When finished, click “**Save**” to save settings. Click “**Undo**” to clear all entries.

Static Route

Destination Network Host	The network address of the remote LAN Segment.
Network Mask	The network mask for the remote LAN Segment.
Gateway	The IP address of the gateway which this router must use to communicate with the destination above.



Figure 21

Dynamic DNS

The Dynamic DNS (require Dynamic DNS Service) enables you to alias a dynamic IP address to a static hostname, this allows your device to be more easily accessed by specific name. When this function is enabled, the IP address in Dynamic DNS Server will be automatically updated with the new IP address provided by ISP.



Figure 22

Dynamic DNS Enable	Click to enable this function and make the settings available.
?	Click on the question mark to find out more about Dynamic DNS Service. <i>Note: If you don't already have the Dynamic DNS Service, please click on the ? and then follow the instructions to sign up for the service.</i>
DNS Account	Enter your host domain name. Click the down arrow 6 to select your Dynamic DNS client with which you registered for the service.
User Name	Enter your user name, which was registered with the Dynamic DNS client.
Password	Enter your password, which was registered with the Dynamic DNS client.
Enable Wildcard	Check to enable the Wildcard function. To know more about Wildcard, please refer to FAQ section.
Mail Exchanger	To know more about MX (Mail Exchanger), please refer to FAQ section.
Backup MX?	Check to have Backup MX service enabled.
Status	Displays the results of the action. If action failed, click Force Update IP to enable the function.
Undo	Click to clear all the settings on this page.
Save	After completing the settings on this page, click Save to save the settings.

Network Status

Connection Status

Display the current Internet connection status. After the device is connected to the Internet Service, you will see IP, Subnet Mask, Gateway and DNS IP addresses on the table.



Figure 23

RELEASE/DISCONNECT	Click on this button to disconnect from ISP and release all the IP information on the Internet Port.
RENEW/CONNECT	Click on this button to reconnect to the ISP and renew all IP information on the Internet Port.

Sessions List

Displays active Internet sessions through this device.



Figure 24

REFRESH	Click on this button to refresh the list and get the latest session list.
---------	---

T/U	Display TCP or UDP port type.
IP Client/ Port Client	The local network IP address/port number of one end point of the session.
Port Fake	Featuring NAT, the Port Fake is used to translate the local network IP addresses for connecting to the Internet.
IP Remote/Port Remote	The outside network IP address/port number of the other end of the session.
Idle	The idle time of the session. If the idle time is too long (more than 15 minutes), the device will disconnect the idled session.

Users List

Displays the current active users.

REFRESH	Click this button to refresh the list.
----------------	--



Figure 25

Others

Factory Reset

To reset to factory default setting, click the **GO** button. Please note that performing the Factory Reset will erase all previously entered device settings.



Figure 26

Save Configuration

This function enables users to always save the current configurations as a file (i.e. config.sav), so that no re-entry is required when users want to switch between various configurations. To load configuration from file, enter the file name or click **Browse...** to find the file from your computer.



Figure 27



Figure 28

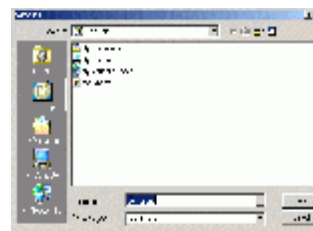


Figure 29

Save	Click Save to save the current configuration to file.
Undo	Click to clear the input.
Load	Click to start loading configuration from file when you are done with the previous settings.

When prompted the upper left screen, select “Save this file to disk”, and the upper right screen will prompt you a dialog box to enter the file name and the file location. Please note that the configuration file is in .sav format.

Load Configuration From File

File Path/Name **Browse...**: If you want to load a configuration file, enter the file name with the correct path and then click on **Load**. Or click **Browse...** to select the file.

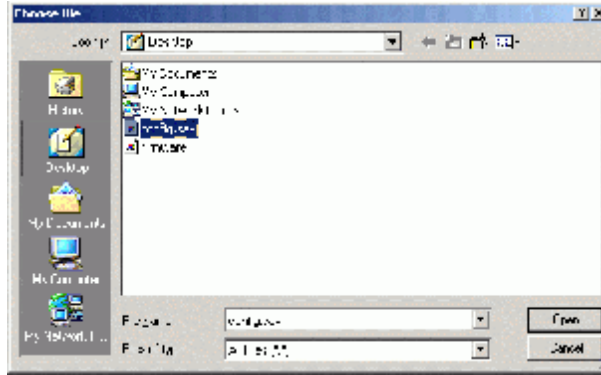


Figure 30

Firmware Upgrade

1. Download the latest firmware from your distributor and save the file on the hard drive.
2. Make sure all computers in the network are off; or connect the HighSpeed Internet Router directly to the PC that has the new firmware.
3. Start the browser, open the configuration page, click on **Others**, and click **Firmware Upgrade** to enter the **Firmware Upgrade** window. Enter the new firmware's path and file name (i.e. C:\FIRMWARE\firmware.bin). Or, click the **Browse** button, find and open the firmware file (the browser will display to correct file path).
4. Click **Undo** to clear all the settings on this page. Or click **UPGRADE NOW** to start the upgrade.

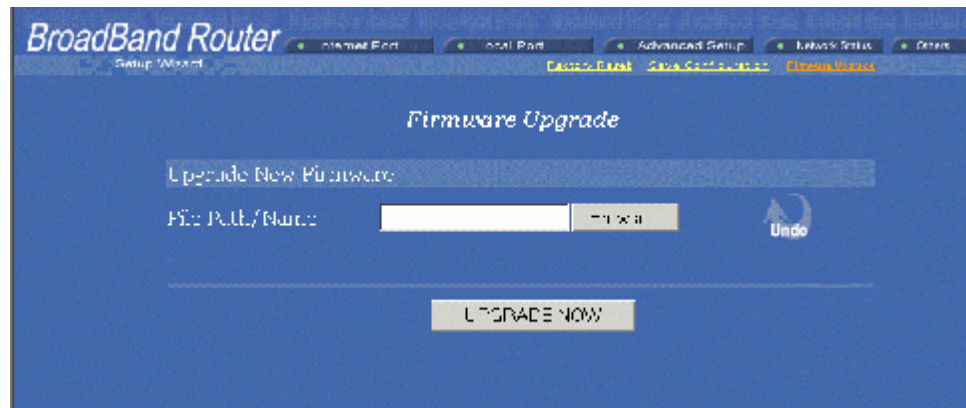


Figure 31

FCC Warning

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.



CAUTION:

1. To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
2. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter