

Wireless Internet Gateway For Cable/xDSL

User Guide

**Web Edition
Sep. 2002**

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FCC Statement

Note: This digital 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 when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the installation manual, 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 in, 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 in a circle different from that to which the receiver is connected
- Consult the dealer or an experience radio/TV technician for help

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.

Warning:

Change or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE Approved

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Introduction

This manual contains detail instructions on how to set-up and operate the wireless Internet gateway.

The Wireless Internet Gateway is compatible with the 802.11b standard, which supports speeds of up to 11Mbps. The high-powered antenna assures that wireless connections can even be established in large buildings.

This device is a breakthrough for SOHO (Small Office and Home Office) users who require a high speed Internet connection and the flexibility of a wireless LAN.

A high speed Internet connection can be easily established by simply connecting any Cable/XDSL modem to the wireless Internet Gateway.

The 4 port Wireless Internet Gateway is equipped with:

- One WAN Ethernet port (connect to any Cable/XDSL modem)
- 4 LAN Ethernet ports (connect to a PC client or a Hub)
- One asynchronous port (dialup backup or dialup Internet connection)

Once the WAN Ethernet is connected to a Cable/XDSL modem, the wireless Internet gateway will automatically negotiate an Internet connection with your ISP. SOHO, SMB (Small and Medium size Businesses) and ROBO (Remote Office and Branch Office) users will save cost by having their entire LAN share one high-speed Internet connection.

The asynchronous port can be connected to a 56K modem or to an ISDN TA, providing you with a backup Internet connection should the Cable/xDSL connection fails. If there is no Cable/xDSL service in your area, the asynchronous port can also serve as your Internet access connection.

PACKAGE CONTENTS

Please inspect your package. The following items should be included:

- 1). Wireless Internet gateway (the Device)
- 2). Power adapter
- 3). Quick Installation Guide

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

PRE- INSTALLATION CHECKLIST

Before installing the Wireless Internet Gateway, you should:

- Have carefully read the entire manual.
- Be familiar with the terminology and concepts of browsers. (This guide works under the assumption that you are proficient with the browsers you are using).
- Have met all the hardware and software requirements.

SYSTEM REQUIREMENTS

- Microsoft Internet Explorer 4.0 (or later version) or Netscape Navigator 4.0 (or later version)
- One computer with an installed 10Mbps, 100Mbps or 10/100Mbps Ethernet card
- One Modem or ISDN TA (if a dialup connection is needed)
- One RJ-45 Cable/XDSL Internet connection
- TCP/IP protocol installed in your computer
- UTP network Cable with a RJ-45 connector

FEATURES AND BENEFITS

High speed wireless LAN connection

Supports up to 11 Mbps data rate by incorporating the Direct Sequence Spread Spectrum (DSSS) technology

IEEE 802.11b compatible

Fully compatible with the IEEE 802.11b standard

Wireless AP features

Provides Roaming - Best Access Point Selection

Wireless Encryption Protocol

Provides up to a 128 Bit WEP encryption

|

Cable/XDSL Modem Support

The Wireless Internet Gateway can establish an Internet connection by connecting to any Cable/XDSL modem

DHCP Server / Client

DHCP Server - Automatically assigns IP information to network users.

DHCP Client - Automatically gets IP information from an ISP DHCP server.

Firewall Protection

Built-in NAT firewall that guarantees network security.

IP Sharing

Supports unrestricted Internet access for all network users, all the time.

Hacker Attack Logging

Supports general hacker attack pattern monitoring and logging.

High Performance 32 bit RISC CPU Engine

With the most advanced 32bit RISC CPU engine, the Wireless Internet Gateway guarantees that its performance is sufficient for any future Cable/XDSL connection speeds.

PPPoE Client

Supports PPPoE client function - To establish a connection with a remote PPPoE server.

PPTP Client

Supports PPTP client function - To establish a connection with a remote PPTP server.

Telstra Client

Supports Telstra client function - To establish a connection with the BPALogin server.

Virtual Server

Allows an internal LAN server to be accessible from the Internet.

Upgradeable Firmware

Allows new features to be added in the future.

Stateful Packet Inspection (SPI)

A form of Firewall protection that ensures your LAN the maximum security.

VPN Support

- Supports PPTP pass-through
- Supports L2TP pass-through
- Supports IPSec pass-through

DDNS Support

The Dynamic DNS (DDNS) service allows you to locate a domain name (web server) whose public IP address is dynamically assigned.

UPNP Support

Supports Universal Plug and Play (UPnP)

URL Block Support

Prevents users from accessing certain websites on the Internet

E – Mail Alert Support

Periodically sends security-related events to an User's email

Idle Timer

Allows you to specify an idle-time before automatically disconnecting

Routing Protocols

Supports static route and RIP 1 and 2

Firewall Protection

Built-in NAT firewall that guarantees network security

Dial-on Demand

Automatically logs in to your ISP - Eliminating the Dial-up process

Web-Based Configuration

Web based configuration – Users can conveniently configure and monitor the device with a web browser

DMZ (Demilitarized Zone)

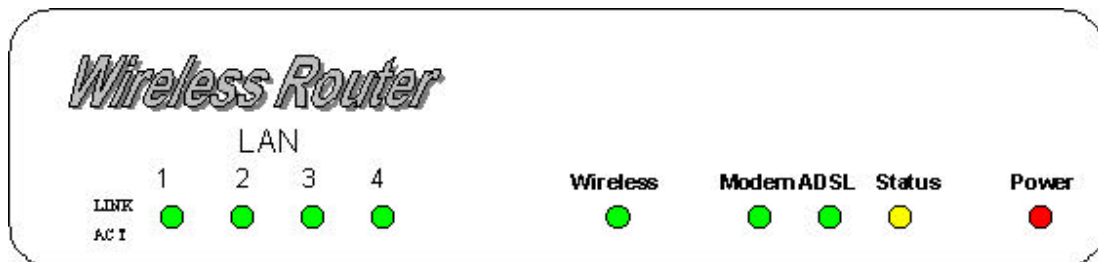
Allows a Public IP address to be mapped to a specified Private IP address

Cable/xDSL Backup

Supports an asynchronous port backup connection (dialup) should the Cable/xDSL connection fails

4 - Ports Wireless Internet Gateway Cable/xDSL Router

The Wireless Internet Gateway Front View

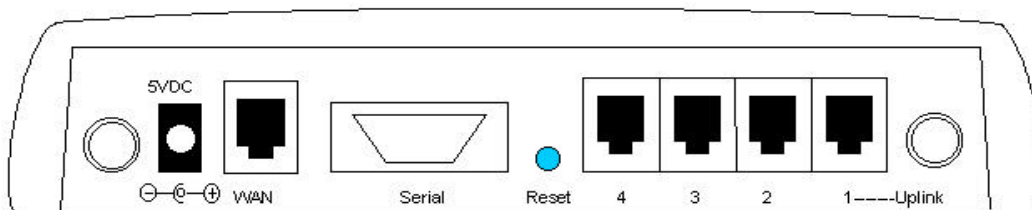


LED indicators

LAN [1:4] Link/Act	LINK (Green)	Green LED will LIGHT when a good link is established.
	ACT (Green)	Green LED will BLINK if packet is transmitting or receiving.
Wireless	(Green)	Green LED will BLINK if packet is transmitting or receiving.
Serial	(Green)	Green LED will LIGHT when a good link is established.
WAN	(Green)	Green LED will LIGHT when a good link is established.
STATUS	(Yellow)	Yellow LED will BLINK when device boot and upgrade firmware.
POWER	(Red)	Red LED will LIGHT if the gateway is receiving power.

The Wireless Internet Gateway Rear View

The rear panel of the wireless Internet gateway is where all the LAN/WAN network connections are made.



POWER (5 VDC)

The power port is where you will connect the AC to DC switching power adapter.

WAN

The WAN 10M Ethernet port is where you will connect your ADSL/Cable modem.

Serial

The Serial port is where you will connect the 56K modem or ISDN TA.

LAN[1:4]

There are four LAN ports on the rear panel. This is where you connect network devices, such as PCs, switches, hubs, print servers or LAN servers etc.

NOTE:

The Reset Button

If you want the device to have the factory default settings, press the reset button and hold it for 5 ~ 6 seconds. It will load the factory default settings into the device. **Please be careful.** Do not press the reset button unless you want to clear the current configurations.

Connecting Wireless Internet Gateway To The Network

Preface

To establish an Internet connection, you will need to check the values from your ISP, check your PC's settings, and configure the Wireless Internet Gateway.

The information offered by your ISP

- Dynamic IP settings
- Your fixed IP address for the gateway
- Your subnet mask for the gateway
- Your default gateway IP address
- Your DNS IP address

NOTE !

If you would like to establish a connection through the PPPoE protocol, you will also need the following values from your ISP as well:

- Username
- Password

The static IP settings for the PC

- Your PC's fixed IP address
- Your PC's subnet mask
- Your PC's default gateway
- Your PC's primary DNS IP address

NOTE !

The router's default IP address settings is 192.168.2.1

The dynamic IP settings for the PC

We recommend that you leave your PC's IP settings as "automatically assigned." By default, the gateway's DHCP server is enabled, and it will give your PC the necessary IP settings.

NOTE !

If you want the gateway to automatically assign your PC its IP address, you will need to configure your PC to obtain an IP address automatically. ([Please See Page 45](#))

Confirm Hardware Installation

Once you have the above information, you can begin to configure your Wireless Internet Gateway.

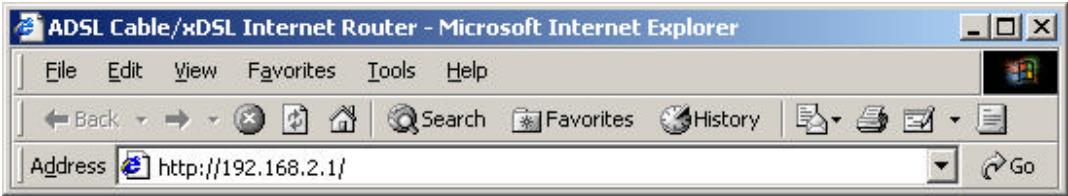
1. Make sure that the power supply outlet voltage is compatible with the power adapters of your PCs, Cable/XDSL modem and the Wireless Internet Gateway.
2. Connect the power-supply cable to the power port at the rear of the Wireless Internet Gateway. Plug the supplied power adapter into a power outlet.
3. Connect a network cable from your PC's Ethernet port to one of the LAN ports on the back of the Wireless Internet Gateway. Do the same with all the PCs you wish to connect to the Wireless Internet Gateway.
4. Connect the network cable from your Cable/XDSL modem to the WAN Ethernet port on the rear of the Wireless Internet Gateway.

**Once you have completed the hardware installation,
please proceed to the next page to configure the
Wireless Internet Gateway**

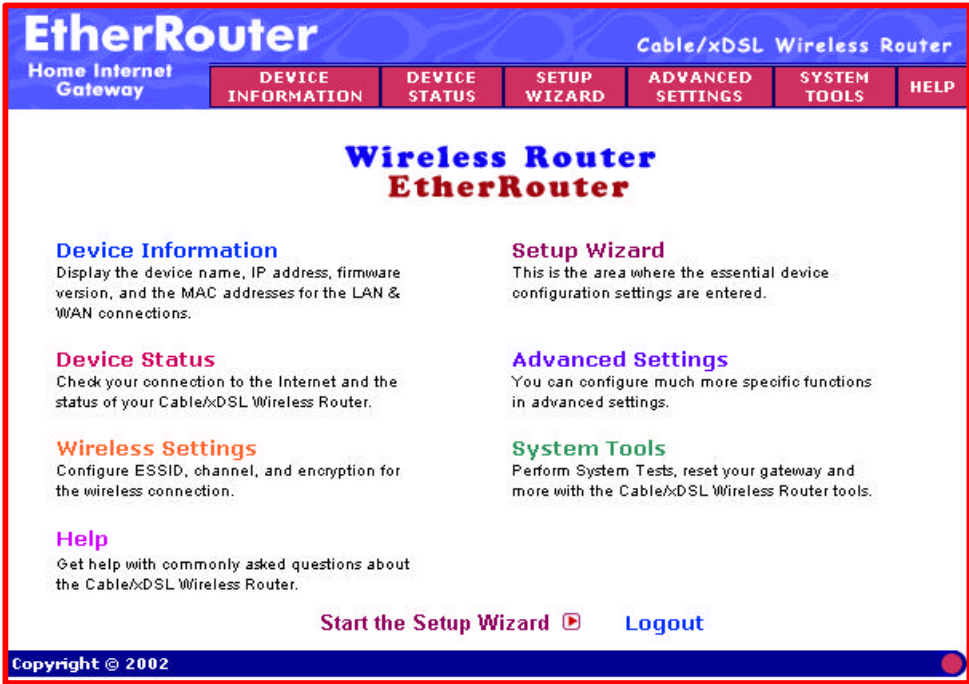
Configuring Your Wireless Router

Launch your web browser and type the router's default IP address (**http://192.168.2.1**) into the browser's address box and press **Enter**

NOTE ! Please make sure your PC's IP address is in the same network as the router's; In windows 95/98 you can type **WINIPCFG** and in windows 2000/NT you can type **IPCONFIG** ([Please See Page 47](#)) to find out



The main menu will appear. It displays all the functions that you can browse through, as well as the setup for the Wireless Internet Gateway.



SETUP WIZARD

Setup wizard is a step-by-step process that will let you input all the basic settings.



Click the **SETUP WIZARD**

Enter Network Password

Please type your user name and password.

Site: 192.168.2.1

Role: Login as admin or user

User Name: admin

Password: password

Save this password in your password list

OK Cancel

A username and password will appear. Leave the password box empty and type **admin** (the default username) in the username box. Click **OK**. The setup wizard's page will appear.

NOTE ! If you would like to change the password please [See Page 34](#)

TIME SETTINGS

Please choose a local time zone. Once you have selected a time zone, please click the **Next** button to continue to the next step. You can also click the buttons on the left to jump to other settings. Otherwise by clicking **Next**, you will proceed to the next step (buttons on the left) sequentially.

EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

DEVICE INFORMATION | DEVICE STATUS | **SETUP WIZARD** | ADVANCED SETTINGS | SYSTEM TOOLS | HELP

Main menu

TIME ZONE SETTINGS

DEVICE IP SETTINGS

ISP SETTINGS

ISP ADDITIONAL SETTINGS

WIRELESS SETTINGS

MODEM SETTINGS

SAVE & RESTART

Logout

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TIME ZONE SETTINGS

Please choose your local time zone:

(GMT-04:00) Atlantic Time (Canada)

NEXT >

NOTE 1: Please click **'Next'** to enter inputted data.
NOTE 2: Please remember to click **Save & Restart** after you have finished the changes to the device settings.

DEVICE IP SETTINGS

In this section, you can give your Wireless Internet Gateway an IP address for the local area network (LAN) side. This is not the IP address given to you by your ISP, but rather the local internal LAN IP address of your network. The IP address "192.168.2.1" is the default value of your gateway.

Device IP Address

This is the internal LAN IP address of your Wireless Internet Gateway

Device IP Subnet Mask

This is the subnet mask, you can usually leave it as the default entry "255.255.255.0"

The screenshot shows the 'EtherRouter' web interface for a 'Cable/xDSL Wireless Router'. The main navigation bar includes 'Home Internet Gateway', 'DEVICE INFORMATION', 'DEVICE STATUS', 'SETUP WIZARD', 'ADVANCED SETTINGS', 'SYSTEM TOOLS', and 'HELP'. A left sidebar contains a 'Main menu' with buttons for 'TIME ZONE SETTINGS', 'DEVICE IP SETTINGS' (highlighted), 'ISP SETTINGS', 'ISP ADDITIONAL SETTINGS', 'WIRELESS SETTINGS', 'MODEM SETTINGS', 'SAVE & RESTART', and 'Logout'. The main content area is titled 'DEVICE IP SETTINGS' and 'The device IP address and subnet mask settings'. It features two rows of input fields: 'IP Address' with values 192, 168, 2, and 1; and 'IP Subnet Mask' with values 255, 255, 255, and 0. Below the fields are '< BACK' and 'NEXT >' buttons. A note states: 'NOTE: Please click 'Next' to enter inputted data.' The footer shows 'Copyright © 2002'.

ISP SETTINGS

The ISP Settings section is where you input all the information required by your ISP, so that you can connect to the Internet.

Connect to Cable ISP

Select **Connect to Cable ISP** if you have a cable connection. Please select “**Connect to Cable ISP**” and click “**Next**” to proceed to the next page.

Main menu

- TIME ZONE SETTINGS
- DEVICE IP SETTINGS
- ISP SETTINGS**
- ISP ADDITIONAL SETTINGS
- WIRELESS SETTINGS
- MODEM SETTINGS
- SAVE & RESTART
- Logout

ISP SETTINGS - Connect to Cable ISP

1. Select the ISP Settings List below

Connect to Cable ISP ▾

Connect to Cable ISP	Automatically Get IP settings from ISP DHCP server
Static IP Settings	Your ISP requires you to input IP settings
PPPoE Settings	Your ISP requires you to logon using PPPoE connection
PPTP Settings	Your ISP requires you to logon using PPTP connection
Telstra Settings	Your ISP requires you to logon using BPALogin connection

2. Click Next to send your request to the Cable/xDSL Wireless Router.

< BACK NEXT >

Static IP Settings

Select **Static IP Settings**, if your ISP will give you a static IP address. You will have to enter the following information:

Enter the IP address (provided by your ISP)

Enter the IP subnet mask (provided by your ISP)

Enter the ISP gateway address (provided by your ISP)

The screenshot shows the EtherRouter web interface. At the top, it says "EtherRouter" and "Cable/xDSL Wireless Router". Below this is a navigation bar with tabs: "Home Internet Gateway", "DEVICE INFORMATION", "DEVICE STATUS", "SETUP WIZARD", "ADVANCED SETTINGS", "SYSTEM TOOLS", and "HELP". The "ADVANCED SETTINGS" tab is selected. On the left side, there is a "Main menu" with buttons for "TIME ZONE SETTINGS", "DEVICE IP SETTINGS", "ISP SETTINGS" (which is highlighted in red), "ISP ADDITIONAL SETTINGS", "WIRELESS SETTINGS", "MODEM SETTINGS", "SAVE & RESTART", and "Logout". The main content area is titled "ISP SETTINGS - Static IP Settings". It contains the following text and form elements:

1. Select the ISP Settings List below

Static IP Settings (dropdown menu)

IP assigned by your ISP: [0] . [0] . [0] . [0]

IP Subnet Mask: [255] . [255] . [255] . [0]

ISP Gateway Address: [0] . [0] . [0] . [0]

2. Click Next to send your request to the Cable/xDSL Broadband Router.

< BACK NEXT >

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PPPoE Settings

Select **PPPoE Settings**, if your ISP requires the PPPoE protocol to establish an Internet connection. You will have to enter the following information:

User name: Enter the user name of your ISP account.

Password: Enter the password of your ISP account.

Retype password: Enter the password of your ISP account again to re-confirm.

Dynamic/Fixed: Select ONE.

Dynamic - If your ISP will automatically assign you an IP address

Fixed - If your ISP has given you a fixed IP address

Main menu

- TIME ZONE SETTINGS
- DEVICE IP SETTINGS
- ISP SETTINGS**
- ISP ADDITIONAL SETTINGS
- WIRELESS SETTINGS
- MODEM SETTINGS
- SAVE & RESTART
- Logout

ISP SETTINGS - PPPoE Settings

1. Select the ISP Settings List below

PPPoE Settings

User Name:

Password:

Retype Password:

Idle Time: 5 minutes

Dynamic (IP automatically assigned by your ISP)

Fixed (Your ISP requires you to input IP address)

IP assignd by your ISP:

IP Netmask:

2. Click Next to send your request to the Cable/xDSL Wireless Router.

< BACK NEXT >

PPTP Settings

Select **PPTP Settings**, if your ISP requires the PPTP protocol to establish an Internet connection (e.g. Europe). You will have to enter the following information:

User name: Enter the user name of your ISP account.

Password: Enter the password of your ISP account.

Idle Time: You do not have to configure this section and is dependent on the user's actual needs. If the Internet connection has been idle for certain period of time, this function allows you to disconnect it automatically.

PPTP Client IP: Provided by ISP

Connection ID: Input this ID information only if your ISP has given you one.

Dynamic/Fixed: Select ONE.

Dynamic - If your ISP will automatically assign you an IP address

Fixed - If your ISP has given you a fixed IP address

Main menu

- TIME ZONE SETTINGS
- DEVICE IP SETTINGS
- ISP SETTINGS**
- ISP ADDITIONAL SETTINGS
- WIRELESS SETTINGS
- MODEM SETTINGS
- SAVE & RESTART

Logout

ISP SETTINGS - PPTP Settings

1. Select the ISP Settings List below

PPTP Settings

User Name:

Password:

Retype Password:

Idle Time: 5 minutes

PPTP Client IP: . . .

PPTP Server IP: . . .

Connection ID/Name:

Dynamic (IP automatically assigned by your ISP)

Fixed (Your ISP requires you to input IP address)

IP assignd by your ISP: . . .

IP Netmask: 255 . 255 . 255 . 0

2. Click Next to send your request to the Cable/xDSL Wireless Router.

< BACK NEXT >

Telstra Settings

The **Telstra Settings** is a service that applies to connections in Australia only. You will have to enter the following:

User Name: Enter the User Name (Provided by the ISP)

Password: Enter the Password (Provided by the ISP)

Retype password: Re-Enter the password of your ISP account again to re-confirm.

Default Domain: Input the default domain if your ISP has given you one

The screenshot shows the 'EtherRouter' web interface for a 'Cable/xDSL Wireless Router'. The main navigation bar includes 'Home Internet Gateway', 'DEVICE INFORMATION', 'DEVICE STATUS', 'SETUP WIZARD', 'ADVANCED SETTINGS', 'SYSTEM TOOLS', and 'HELP'. A left sidebar contains a 'Main menu' with buttons for 'TIME ZONE SETTINGS', 'DEVICE IP SETTINGS', 'ISP SETTINGS' (highlighted), 'ISP ADDITIONAL SETTINGS', 'WIRELESS SETTINGS', 'MODEM SETTINGS', 'SAVE & RESTART', and 'Logout'. The main content area is titled 'ISP SETTINGS - Telstra Settings' and contains the following instructions and form fields:

1. Select the ISP Settings List below

Telstra Settings

User Name:

Password:

Retype Password:

Default Domain:

2. Click Next to send your request to the Cable/xDSL Wireless Router.

< BACK NEXT >

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ISP ADDITIONAL SETTINGS

In this section you can input special settings required by certain ISPs. You do not need to configure the entire section, only the settings needed by your particular ISP. If your ISP does not require any additional settings, then please leave this section blank and proceed to the next section.

Some ISPs require you to manually setup the DNS settings; if this is the case, you will need to enable this function and enter the DNS IP Address.

Some ISPs use Host Name and Domain Name to authenticate the user; if this is the case, you will need to enter the following:

Host Name: Enter the name of the gateway.

Domain Name: Enter the domain name provided by your ISP

Some ISPs require you to input the LAN card's Mac address; if this is the case, you will need to enter the following:

MAC Address: Enter the PC's LAN card MAC address. This PC is the one that you originally connected your Internet connection to.

NOTE !

Some ISPs may only recognize your PC's LAN card MAC address as a legal user. In this case, you will have to copy the LAN card MAC address of that PC and input it in the MAC address field. For WIN 95/98 you can run **winipcfg** to see the LAN card Mac address For WIN 2000/NT you can run **ipconfig/all** to see the LAN card Mac address

WIRELESS SETTINGS

In the Wireless Settings section, you can configure the ESSID, Channel, WEP Encryption and the level of WEP Encryption settings.

ESSID

The ESSID is a unique name shared among all points in a wireless network.

CHANNEL

To avoid interference, users should choose a proper Channel in wireless network.

WEP

WEP (Wired Equivalent Privacy) is method of encrypting data that is transmitted over your wireless network to ensure data security. If you would like to use this function, then please select the encryption key size **(40 Bit or 128 Bit)**.

If the Encryption **(40 Bit or 128 Bit)** option is checked, then you must enter the encryption key manually.



Main menu

- TIME ZONE SETTINGS
- DEVICE IP SETTINGS
- ISP SETTINGS
- ISP ADDITIONAL SETTINGS
- WIRELESS SETTINGS**
- MODEM SETTINGS
- SAVE & RESTART
- Logout

WIRELESS SETTINGS

ESSID: Wireless

Channel: 10

No Encryption

40(64) Bit

Default Key: 1

128 Bit

Key 1: [0] [0] [0] [0] [0]

Key 2: [0] [0] [0] [0] [0]

Key 3: [0] [0] [0] [0] [0]

Key 4: [0] [0] [0] [0] [0]

[0] [0] [0] [0] [0]

[0] [0] [0] [0] [0]

[0] [0] [0]

< BACK NEXT >

NOTE: Please click 'Next' to enter inputted data.

MODEM SETTINGS

The modem settings screen is where you can setup the asynchronous port as:

- 1) A backup connection to the Cable/xDSL connection.
- 2) A dialup Internet access connection

To enable the modem function for the asynchronous port - Click on the **Dialup Modem When Cable/xDSL is not connected** square shown on the screen below and then input the ISP account information

External IP: If your ISP requires you to input an IP address, please input the IP address here. Otherwise leave it as the default setting (0.0.0.0).

Modem string settings – some modems require specific communication strings. The modem string settings section allows you to specify strings on the router so that it can communicate with your modem (if required). If you would like to change the baudrate speed, you can do so in the baudrate settings field.

MODEM SETTINGS

Dialup Modem When Cable/xDSL is not connected

ISP Phone Number:

User Name:

Password:

Retype Password:

Idle Time: 30 minutes

If your ISP requires you to input IP Address, please input the IP Address. Otherwise leave it as default settings. (0.0.0.0)

External IP:

MODEM STRING SETTINGS

Baudrate Settings : 115200bps(28.8K/33/6K/56K modem or ISDN TA)

Pre-Initial String:

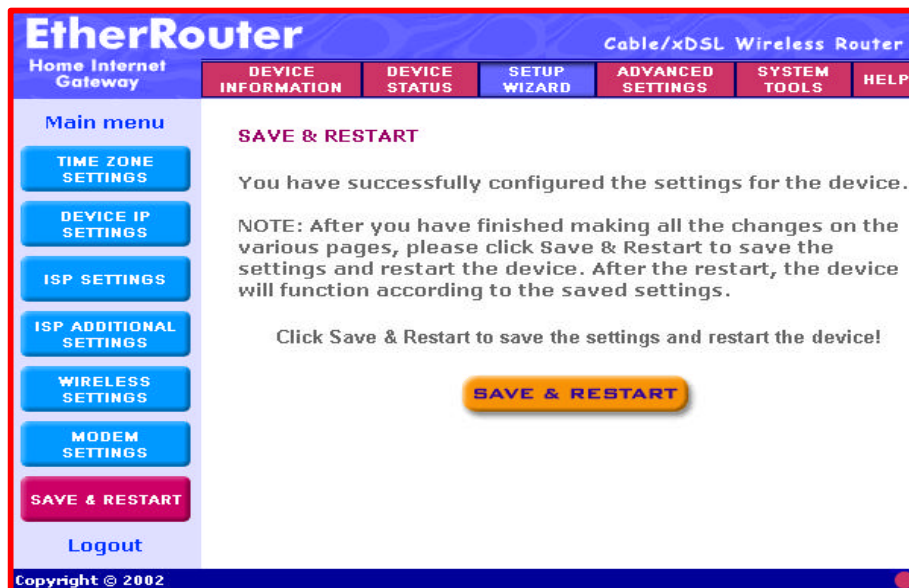
Initial String:

Dialup String:

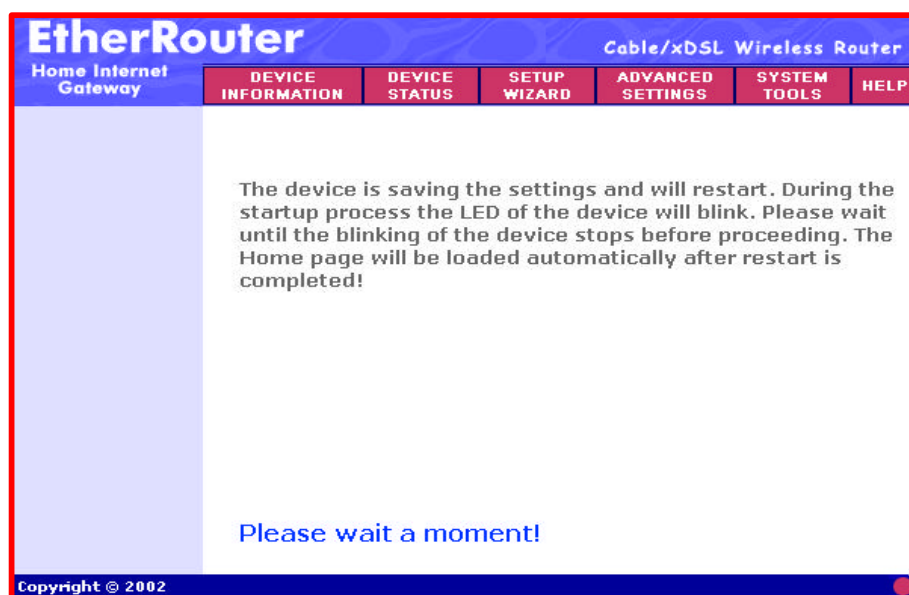
< BACK NEXT >

SAVE & RESTART

After you have finished making all the changes on the various pages, please click **Save & Restart** to save the settings and to restart the device. After the device has restarted, the device will function according to the saved settings.



During the startup process the LED of the device will blink. Please **wait** until the LED lights have stopped blinking before proceeding.



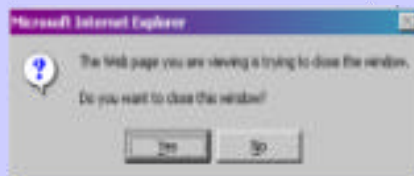
Logout

Click **Logout** if you would like to leave/logout the router's web based configuration page. When you logout other computers can configure the device.

Click **Yes** - the screen will close.

Click **No** - the screen will not close.

You have successfully logout!



Thanks for using Wireless Router!

Device Information

Device information displays the current settings of the wireless Internet gateway.

The screenshot shows the EtherRouter web interface. The top navigation bar includes 'Home Internet Gateway' and several menu items: 'DEVICE INFORMATION', 'DEVICE STATUS', 'SETUP WIZARD', 'ADVANCED SETTINGS', 'SYSTEM TOOLS', and 'HELP'. The main content area is titled 'CABLE/xDSL WIRELESS ROUTER INFORMATION' and displays the following details:

- Device Name: Wireless
- IP Address: 192.168.2.1
- Private LAN Mac Address: 00:95:42:36:25:88
- Public WAN (Cable/xDSL) Mac Address: 00:95:42:36:25:89
- Firmware Version: V4.73 (2002/08/31)

The interface also features a 'Main menu' and 'Logout' link on the left side, and a 'Copyright © 2002' notice at the bottom.

Device Name

The host name of the wireless Internet gateway

IP Address

The IP address of the wireless Internet gateway

Private LAN Mac Address

The Mac address of the wireless Internet gateway LAN port

Public WAN (Cable/xDSL) Mac Address

The Mac Address of the wireless Internet gateway WAN Ethernet port

Firmware version

Displays the Firmware Version and its release date

Device Status

Device status displays the current connection status of the Internet gateway.

Main menu
WAN Ethernet
Cable/xDSL: Active
Connect by DHCP
Gateway:192.168.100.1
WAN IP:192.168.100.98
Netmask:255.255.255.0
DNS:192.168.100.1
RELEASE
RENEW
Modem Backup:
Modem: Not Active
Device IP:
IP:192.168.2.1
LAN
MAC:22:A3:C9:8E:6F:24
WAN
MAC:00:0A:0B:CA:2D:32
DHCP Log
Logout

DEVICE STATUS
MODEM BACKUP
Cable/xDSL Modem
LAN
WIRELESS
DHCP LOG
LAN IP: 192.168.2.2 . MAC: 00:90:CC:0B:8C:9B

Modem Backup

The modem (asynchronous port) can be used as a backup Internet connection (dialup) to the Cable/xDSL connection or as an Internet access connection. If the current connection is via the backup modem, it will show “**Modem: Active,**” otherwise it will show “**Not Active**”.

Device IP

Shows the Device IP address, private LAN Mac address and public WAN Mac address of the wireless Internet gateway.

Release and Renew

Click the **Release** button - the Wireless Internet Gateway will disconnect with the ISP.

Click the **Renew** button - the Wireless Internet Gateway will connect with the ISP.

DHCP Log

Click **DHCP Log** button, the screen will display the current DHCP client information.

Advanced Settings

The **Advanced settings** section includes settings for the DHCP server, virtual server static routing, dynamic routing, filter settings and administration settings.

A username and password will appear. Type **“admin”** in the user name box, and type the password that you have setup the device to (by default there is no password) and then Click **OK**. The Advanced Settings page will appear as shown below.



DHCP SERVER SETTINGS

By default the Wireless Internet Gateway's DHCP server is enabled. If you would like to disable the DHCP server, unclick the square circled in **red** below.

Main menu

- DHCP SERVER SETTINGS
- VIRTUAL SERVER SETTINGS
- ACCESS CONTROL SETTINGS
- ROUTING SETTINGS
- FILTER SETTINGS
- ADMINISTRATION SETTINGS
- DYNAMIC DNS SETTINGS
- URL FILTER SETTINGS
- E-MAIL ALERT
- Logout

DHCP SERVER SETTINGS

Enable DHCP Server Functions

IP Address Pool Range

From: 192.168.2.2

To: 192.168.2.100

IP Address Reservation

MAC Address: 00 : 65 : 10 : 23 : 06 : 04

IP Address: 192.168.2.27 **ADD**

Del	MAC Address	IP Address
<input type="checkbox"/>	(1) 00:90:CC:0B:9C:8B	192.168.2.64

DEL

SUBMIT

IP Address Pool Range

The IP address pool contains the range of IP addresses that will be used by the device's DHCP server to automatically assign IP addresses to your network clients.

The Default IP address range is from **192.168.2.2** to **192.168.2.100**

IP Address Reservation

The IP address reservation setting allows you to save fixed private IP address to specific computer/network clients.

MAC Address: Enter the MAC address of the PC or server.

IP Address: Enter the IP address that you want to reserve for the above MAC address.

VIRTUAL SERVER SETTINGS

The **Virtual server settings** allows clients on the Internet to access certain services on your LAN via the Internet. You can use the IP mapping function to access a FTP server or a Telnet server etc. remotely through Internet.

The **DMZ** function re-directs all packets (regardless of services) going to your WAN IP address to a particular LAN client/server. If you would like to enable the DMZ function, enter an IP address in the DMZ IP field. The value '0' means that the DMZ function is disabled.

The difference between the virtual server and the DMZ function is that the virtual server re-directs a particular service/Internet application (e.g. FTP, websites) to a particular LAN client/server, whereas DMZ re-directs all packets (regardless of services) going to your WAN IP address to a particular LAN client/server.

Main menu

- DHCP SERVER SETTINGS
- VIRTUAL SERVER SETTINGS**
- ACCESS CONTROL SETTINGS
- ROUTING SETTINGS
- FILTER SETTINGS
- ADMINISTRATION SETTINGS
- DYNAMIC DNS SETTINGS
- URL FILTER SETTINGS
- E-MAIL ALERT
- Logout

VIRTUAL SERVER SETTINGS

DMZ 192.168.2.0

Internal IP	Service Port Range
01. 192.168.2.0	0 ~ 0
02. 192.168.2.0	0 ~ 0
03. 192.168.2.0	0 ~ 0
04. 192.168.2.0	0 ~ 0
05. 192.168.2.0	0 ~ 0
06. 192.168.2.0	0 ~ 0
07. 192.168.2.0	0 ~ 0
08. 192.168.2.0	0 ~ 0
09. 192.168.2.0	0 ~ 0
10. 192.168.2.0	0 ~ 0
11. 192.168.2.0	0 ~ 0
12. 192.168.2.0	0 ~ 0
13. 192.168.2.0	0 ~ 0

FTP	20,21
Telnet	23
SMTP	25
DNS	53
TFTP	69
HTTP	80
POP3	110
News	144
SNMP	161
SNMP-trap	162

ACCESS CONTROL SETTINGS

The **Access control settings** allow you to define the Access Control list. The First option is **"Disable Access Control List"**, which disables this function. The Second option is **"Enable Grant Access List"**, which allows you to define a list of MAC address. Only packets with these MAC address can pass through the router.

The Third option is **"Enable Deny Access List"**, which allows you to define a list of MAC address. Packets with these MAC address cannot pass through the router.

For the second and third options, type in the MAC address, and click **'Add'** to add a MAC address to the access control list. The list will be shown, and can be deleted by clicking the **'Del'** button.

The screenshot displays the 'EtherRouter' web interface for a 'Cable/xDSL Wireless Router'. The page is titled 'Home Internet Gateway' and features a navigation bar with tabs for 'DEVICE INFORMATION', 'DEVICE STATUS', 'SETUP WIZARD', 'ADVANCED SETTINGS', 'SYSTEM TOOLS', and 'HELP'. A 'Main menu' on the left contains buttons for 'DHCP SERVER SETTINGS', 'VIRTUAL SERVER SETTINGS', 'ACCESS CONTROL SETTINGS' (highlighted in pink), 'ROUTING SETTINGS', 'FILTER SETTINGS', 'ADMINISTRATION SETTINGS', 'DYNAMIC DNS SETTINGS', 'URL FILTER SETTINGS', and 'E-MAIL SETTINGS', along with a 'Logout' link. The main content area is titled '1. Select the Access Control List below' and contains a dropdown menu with three options: 'Disable Access Control List', 'Enable Grant Access List' (selected and circled in red), and 'Enable Deny Access List'. Below the dropdown, there are two sections: 'Enable Grant Access List' with the description 'Any user who is on the Grant Access List and has the correct wireless settings has access to the wireless network.' and 'Enable Deny Access List' with the description 'Any user who is on the Deny Access List is denied access to the wireless network.' At the bottom, there is a '2. Click Submit to send your request to the Home Internet Gateway.' instruction and a yellow 'SUBMIT' button.

- **Enable Grant Access List**

DHCP SERVER SETTINGS	ACCESS CONTROL SETTINGS				
VIRTUAL SERVER SETTINGS	<p>1. Select the Access Control List below</p> <p>Enable Grant Access List <input type="button" value="v"/></p>				
ACCESS CONTROL SETTINGS	<p>2. For each user, enter the MAC address of their wireless network adapter and then click Add.</p> <p>MAC Address <input type="text" value="00"/> : <input type="text" value="AA"/> : <input type="text" value="BB"/> : <input type="text" value="CC"/> : <input type="text" value="DD"/> : <input type="text" value="FF"/></p> <p style="text-align: center;"><input type="button" value="ADD"/></p> <p>The defined wireless users are allowed to access the LAN network</p> <p>The maximum number of users on this list is 32.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Del</th> <th>MAC Address</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>00:10:23:06:04:27</td> </tr> </tbody> </table>	Del	MAC Address	<input type="checkbox"/>	00:10:23:06:04:27
Del	MAC Address				
<input type="checkbox"/>	00:10:23:06:04:27				
ROUTING SETTINGS	<p>3. To delete a MAC address from the list, make sure that the checkbox is checked and click Delete.</p> <p style="text-align: center;"><input type="button" value="DEL"/></p>				
FILTER SETTINGS	<p>4. When you are finished, click Submit to send your request to the</p>				
ADMINISTRATION SETTINGS					
DYNAMIC DNS SETTINGS					
URL FILTER SETTINGS					
E-MAIL SETTINGS					
Logout					

- **Enable Deny Access List**

DHCP SERVER SETTINGS	ACCESS CONTROL SETTINGS				
VIRTUAL SERVER SETTINGS	<p>1. Select the Access Control List below</p> <p>Enable Deny Access List <input type="button" value="v"/></p>				
ACCESS CONTROL SETTINGS	<p>2. For each user, enter the MAC address of their wireless network adapter and then click Add.</p> <p>MAC Address <input type="text" value="00"/> : <input type="text" value="06"/> : <input type="text" value="04"/> : <input type="text" value="65"/> : <input type="text" value="10"/> : <input type="text" value="23"/></p> <p style="text-align: center;"><input type="button" value="ADD"/></p> <p>The defined wireless users are denied to access the LAN network</p> <p>The maximum number of users on this list is 32.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Del</th> <th>MAC Address</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>00:BB:0C:9B:8D:90</td> </tr> </tbody> </table>	Del	MAC Address	<input type="checkbox"/>	00:BB:0C:9B:8D:90
Del	MAC Address				
<input type="checkbox"/>	00:BB:0C:9B:8D:90				
ROUTING SETTINGS	<p>3. To delete a MAC address from the list, make sure that the checkbox is checked and click Delete.</p> <p style="text-align: center;"><input type="button" value="DEL"/></p>				
FILTER SETTINGS	<p>4. When you are finished, click Submit to send your request to the</p>				
ADMINISTRATION SETTINGS					
DYNAMIC DNS SETTINGS					
URL FILTER SETTINGS					
E-MAIL SETTINGS					
Logout					

ROUTING SETTINGS

The **Static routing settings** allow the Wireless Internet Gateway to route IP packets to another network (subnet). The routing table stores the routing information so that your network device knows where to redirect the IP packets.

The screenshot shows a web interface for configuring routing settings. On the left is a sidebar with a 'Main menu' containing buttons for DHCP SERVER SETTINGS, VIRTUAL SERVER SETTINGS, ACCESS CONTROL SETTINGS, ROUTING SETTINGS (highlighted in pink), FILTER SETTINGS, ADMINISTRATION SETTINGS, DYNAMIC DNS SETTINGS, URL FILTER SETTINGS, E-MAIL ALERT, and Logout. The main content area is titled 'ROUTING TABLE' and 'STATIC ROUTING TABLE'. It features three input fields for 'Destination IP Address', 'Subnet Mask', and 'Gateway IP Address', each with four separate input boxes for the octets. Below these is an 'Add' button. A table below shows the current routing table with one entry: Destination LAN IP address 1.1.1.1, Subnet Mask 255.255.255.0, and Gateway IP Address 2.2.2.2. Below the table is a 'DEL' button and a 'DYNAMIC ROUTING' section with 'SEND' and 'RECEIVE' dropdown menus, both currently set to 'Disable'. A 'SUBMIT' button is at the bottom. A note at the bottom reads: 'NOTE: Please click "Submit" to enter inputted data.'

Destination IP Address

The destination IP is the address of the remote network to which you want to assign a static route.

Subnet Mask

The subnet mask of your network IP address.

Gateway IP Address

The IP address of the interface used to link to the remote network.

Dynamic routing settings allow the Wireless Internet Gateway to route IP packets to another network automatically. The RIP protocol is used to do the dynamic routing, it basically communicates routing information with other routers periodically.

SEND option – choose the routing protocol (routing information) you wish to transmit to other routers on your network.

RECEIVE option - choose the routing protocol (routing information) you wish to receive from other routers on your network.

FILTER SETTINGS - LAN FILTER SETTINGS

The **LAN Filter Settings** allow the administrator to define whether a local user is permitted to access the Internet. To activate this feature, check **LAN Side Filter Enabled** and then define a filtering policy. To define a filtering policy, enter the IP address range, enter the network port number and select the transport protocol(s).

For example, to prevent local users with IP addresses (ranging from **101** to **200**) from accessing websites (HTTP service - port **80**), the settings are as follows,

LAN Side Filter Enabled: **Enabled**
Default LAN Side Filter: **Pass**
Filter: **Block**
Protocol: **TCP**
IP Address Range: **101 ~ 200**
Destination Port Range: **80 ~ 80 (HTTP)**

LAN FILTER SETTINGS

LAN Side Filter Enabled

Default LAN Side Filter Block Pass

Filter Entry

Block Pass

Protocols:

IP Address Range

From: . . .

To: . . .

Destination Port Range: ~

ADD

LAN Side Filter Table:

Del	Type	Protocol	From	To	Port Range
<input type="checkbox"/>	Block	TCP	192.168.100.101	192.168.100.200	80 ~ 80

DEL

FILTER SETTINGS - WAN FILTER SETTINGS

The **WAN Filter Settings** allow the administrator to define whether remote/outside user(s) is permitted to access the private local area network. To activate this feature, check **WAN Side Filter Enabled** and then define a filtering policy. To define a filtering policy, enter the IP address range, enter the network port number and select the transport protocol(s).

WAN FILTER SETTINGS

WAN Side Filter Enabled

Default WAN Side Filter Block Pass

Filter Entry

Block Pass

Protocols: All

IP Address Range

From: 211 . 21 . 0 . 1

To: 211 . 29 . 0 . 1

Destination Port Range: 80 ~ 80

ADD

WAN Side Filter Table:

Del	Type	Protocol	From	To	Port Range
-----	------	----------	------	----	------------

SUBMIT

For example, to prevent remote users with IP addresses (ranging from 211.21.0.1 to 211.29.0.1) from accessing your LAN's virtual Web server (port 80), the settings are as follows,

WAN Side Filter Enabled: **Enabled**
Default WAN Side Filter: **Pass**
Filter: **Block**
Protocol: **ALL**
IP Address Range: **211.21.0.1 to 211.29.0.1**
Destination Port Range: **80 ~ 80 (HTTP)**

ADMINISTRATION SETTINGS

PASSWORD SETTINGS

You can setup the Wireless Internet Gateway so that a password is required in order to access its web-based configuration pages. This password will be required the next time you want to configure your Wireless Internet Gateway. To setup a password, type your password in the new password field and type it again in the retype password field to reconfirm.

NOTE !

It is important to remember your password. If for any reason you lose or forget your password, press the small reset button located on the back of the device for 5~6 seconds. The Reset action will reset the device to the factory default settings. In factory default the user name is **admin** and there is **no** password

DHCP SERVER SETTINGS	ADMINISTRATION SETTINGS
VIRTUAL SERVER SETTINGS	PASSWORD SETTINGS
ACCESS CONTROL SETTINGS	The new password will be used to authenticate the user when configuring the device.
ROUTING SETTINGS	New Password: <input type="password" value="*****"/>
FILTER SETTINGS	Retype Password: <input type="password" value="*****"/>
ADMINISTRATION SETTINGS	SYSTEM ADMINISTRATION
DYNAMIC DNS SETTINGS	HTTP Port No: <input type="text" value="80"/>
URL FILTER SETTINGS	<input type="checkbox"/> Allow remote user to configure the device
E-MAIL ALERT	Remote administration host
Logout	IP Address: <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/>
	<input checked="" type="checkbox"/> Allow remote user to ping the device
	SYSTEM LOG
	<input type="checkbox"/> Enable System Log Function
	Log server IP address <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/> . <input type="text" value="0"/>
	MISCELLANEOUS
	<input checked="" type="checkbox"/> Force to reconnect PPPoE if packets can not Send/Receive from PPPoE connection
	SYSTEM PARAMETERS
	<input type="checkbox"/> Enable TCP MTU Adjustment Function
	MTU Setting <input type="text" value="1500"/>
	UPnP
	<input type="checkbox"/> Enable UPnP Function
	SUBMIT

SYSTEM ADMINISTRATION

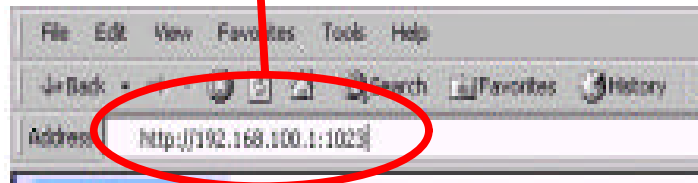
This allows remote user(s) to configure and administrate the Wireless Internet Gateway from a remote site (through the Internet).

The default value of the **HTTP** port is **80**. You can select a different port number for the remote web-based configuration page

The default IP address of the remote administration host is: **0.0.0.0**. (IP address 0.0.0.0 means that any remote PC can access and manage the Wireless Internet Gateway from a remote site).

You will have to **enable** the “**Allow remote user to configure the device**” to use this function. Once you have enabled this function, type the device’s **WAN IP address and the HTTP port No (e.g. http://192.168.100.1:1023)** into the browser of the specified remote administrator.

http://<WAN IP Address>: <Port No>



NOTE

If the above HTTP port number (**NOT PORT 80**) for the remote administrator(s) is changed then the LAN administrators must enter the same changed port number in order to access the device's web-based configuration, e.g. **Device LAN IP address with HTTP port no (http://192.168.2.1:1023)**

SYSTEM LOG

The System Log function allows the administrator to assign an IP address to a server on which a log server is running. When a particular event occurs, the router will send a notification to the log server. The log server can then present the log to the administrator/user. [Free log server can be downloaded from Internet, such as Kiwis SysLog Daemon]

Miscellaneous

Some ISPs require you to force a PPPoE re-connection when the Internet connection can't send or receive packets.

System Parameter

The System Parameter allows you to set the MTU value (Maximum Transmission Unit) for your Internet connection. If you would like to enable the MTU setting, click on the square circled above. The default MTU value is 1500 bytes.

Some ISPs restrict the packet size for a PPPoE connection. Use the system parameter to change the MTU to cater to the ISP's connection requirement.

UPnP

The Universal Plug and Play (UPnP) function allows Windows XP to automatically configure the router for various Internet applications (such as gaming and videoconferencing).

DYNAMIC DNS SETTINGS

The Dynamic DNS (DDNS) service allows you to locate a domain name (web server) whose public IP address is dynamically assigned. The DDNS server provides a central public database where information can be stored and retrieved. The dynamic DNS server also stores password protected information and accepts queries based on e-mail address.

If you would like to use the DDNS function, you will have to register with a DDNS service provider, and enter the following information provided by the DDNS service provider:

Host Name: Enter the host name for your DDNS account.

User Name: Enter the user name for your DDNS account.

Password: Enter the password for your DDNS account.

Use wildcards

If you use DYNDNS as your DDNS service provider, you can enable the **Use wildcards** feature. The wildcards feature - any URL request that contain your domain name (www.router.com), as part of its URL domain name (e.g.<http://broad/router.com>) request, will be given your dynamic IP address.

Main menu

- DHCP SERVER SETTINGS
- VIRTUAL SERVER SETTINGS
- ACCESS CONTROL SETTINGS
- ROUTING SETTINGS
- FILTER SETTINGS
- ADMINISTRATION SETTINGS
- DYNAMIC DNS SETTINGS**
- URL FILTER SETTINGS
- E-MAIL ALERT
- Logout

DYNAMIC DNS SETTINGS

Use a dynamic DNS service

Service Provider:

Host Name:

Domain Name:

User Name:

Password:

Use wildcards

SUBMIT

URL FILTER SETTINGS

The **URL Filter** settings prevent users from accessing certain websites on the Internet. The router can block sites based on specify words or letters. Sites will be blocked if any of these words or letters is part of the website's name (URL) or newsgroup name.

Main menu

- DHCP SERVER SETTINGS
- VIRTUAL SERVER SETTINGS
- ACCESS CONTROL SETTINGS
- ROUTING SETTINGS
- FILTER SETTINGS
- ADMINISTRATION SETTINGS
- DYNAMIC DNS SETTINGS
- URL FILTER SETTINGS**
- E-MAIL ALERT
- Logout

URL FILTER SETTINGS

Enable URL Filter Functions

Filter String:

NOTE1: "http://" is not allowed in URL Filter Funtion. Please do not enter "http://" into filter string.
NOTE2: Please click '**Submit**' to enter inputted data.

E-MAIL ALERT

Your router can periodically email you a log of security-related events (such as denied incoming service requests and administrator logins). The router can also email you an immediate alert when it detects a significant security incident; such as a known attack directed at your IP address, a computer on the Internet scanning your IP address for any open ports and someone on your LAN (Local Area Network) trying to visit a blocked site.

Fill out the settings on the screen below if you would like to have alerts and logs sent to you by e-mail,

Main menu

- DHCP SERVER SETTINGS
- VIRTUAL SERVER SETTINGS
- ACCESS CONTROL SETTINGS
- ROUTING SETTINGS
- FILTER SETTINGS
- ADMINISTRATION SETTINGS
- DYNAMIC DNS SETTINGS
- URL FILTER SETTINGS
- E-MAIL ALERT**
- Logout

E-MAIL ALERT

Turn E-mail Notification On

Send Alert And Logs Via E-mail

Your Outgoing Mail Server:

Send To This E-mail Address:

When someone attempts to visit Blocked Sites, router will send logs according to Below schedule.

None

Immediately

Hourly

Daily

A.M. P.M.

When log is full.

SUBMIT










When you have filled in all the settings for the E-Mail Alert page, please click on the Submit button to proceed to the next page ...



SAVE & RESTART

When you have finished making all the changes on the various pages above, please **click Save & Restart** to save the settings and to restart the device. If you would like to configure the setting(s) again, click on a function (see screen below), this will link you to that particular function's configuration screen. After the device restarts (reboots), the device will function according to the saved settings.

Save & Restart lets you save the inputted settings to the Wireless Internet Gateway and then restarts (reboots) the device.

You have successfully submitted the settings to the device!

<p> DHCP Server Settings You can configure the device to function as a DHCP server for the workstations on the LAN.</p> <p> Access Control Settings Click Access Control to grant or deny users access to the wireless network.</p> <p> Filter Settings LAN Side Filter and WAN Side Filter Settings</p> <p> Dynamic DNS Settings You can configure your dynamic DNS service and wildcards function.</p> <p> E-MAIL Alert E-Mail Alert can be sent when someone on your LAN tries to visit a blocked site.</p>	<p> Virtual Server Settings You can configure your private LAN servers to be accessible from Internet.</p> <p> Routing Settings You can configure Static Routing and Dynamic Routing here.</p> <p> Administration Settings You can configure Password Settings, Remote Administration, Miscellaneous and MTU here.</p> <p> URL Filter Settings Allows you to filter out any URL, which can either be a web address or contain the specified string.</p>
--	---

Start to save the submitted settings and restart it  **Save & Restart **

NOTE 1: Please continue the advanced setup by clicking the options.
NOTE 2: Once you have submitted all the necessary settings, please click the **SAVE & RESTART** button to save the changes to the device.
New settings will take effect after the device has been restarted.

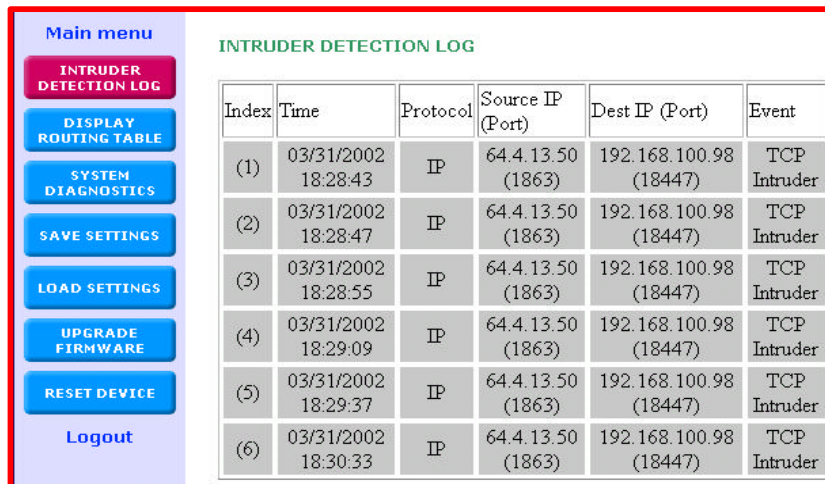
System Tools

System tools

The System Tools detects the status of the Wireless Internet Gateway.

INTRUDER DETECTION LOG

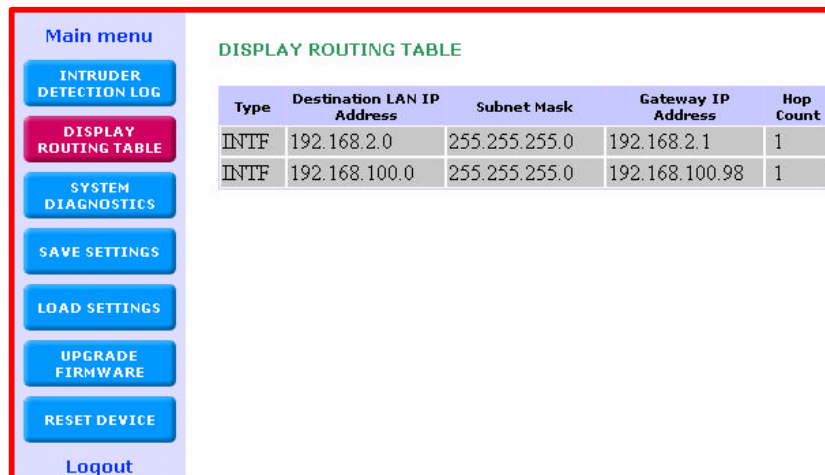
The event messages displays the possible hacker attacks that have occurred on the Wireless Internet Gateway. Up to 32 hacker attacks may be logged in this manner (see screen below).



Index	Time	Protocol	Source IP (Port)	Dest IP (Port)	Event
(1)	03/31/2002 18:28:43	IP	64.4.13.50 (1863)	192.168.100.98 (18447)	TCP Intruder
(2)	03/31/2002 18:28:47	IP	64.4.13.50 (1863)	192.168.100.98 (18447)	TCP Intruder
(3)	03/31/2002 18:28:55	IP	64.4.13.50 (1863)	192.168.100.98 (18447)	TCP Intruder
(4)	03/31/2002 18:29:09	IP	64.4.13.50 (1863)	192.168.100.98 (18447)	TCP Intruder
(5)	03/31/2002 18:29:37	IP	64.4.13.50 (1863)	192.168.100.98 (18447)	TCP Intruder
(6)	03/31/2002 18:30:33	IP	64.4.13.50 (1863)	192.168.100.98 (18447)	TCP Intruder

DISPLAY ROUTING TABLE

The routing tables screen below displays the device's current static routing configuration.



Type	Destination LAN IP Address	Subnet Mask	Gateway IP Address	Hop Count
INTF	192.168.2.0	255.255.255.0	192.168.2.1	1
INTF	192.168.100.0	255.255.255.0	192.168.100.98	1

SYSTEM DIAGNOSTICS

The System diagnostics screen shows the device's configuration information. It also checks the device to make sure that everything is functioning properly.

EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

DEVICE INFORMATION DEVICE STATUS SETUP WIZARD ADVANCED SETTINGS SYSTEM TOOLS HELP

Main menu

- INTRUDER DETECTION LOG
- DISPLAY ROUTING TABLE
- SYSTEM DIAGNOSTICS**
- SAVE SETTINGS
- LOAD SETTINGS
- UPGRADE FIRMWARE
- RESET DEVICE
- Logout

SYSTEM DIAGNOSTIC

Configuration

Firmware Version: V4.65

ISP Settings

IP assigned method: Assigned by ISP DHCP server
 IP address: 0.0.0.0
 Gateway IP address: 0.0.0.0
 DNS Server IP address: 0.0.0.0
 Telephone Number:
 Dial-up User Name:
 Idle Timeout: 30 minutes
 Pre Initial String: AT
 Initial String: AT S0=1
 Dialup String: ATDT

Device Settings

Device IP address as: 192.168.2.1
 Device Network Mask: 255.255.255.0
 DHCP Server: Enabled
 Pool from: 192.168.2.2
 Pool to: 192.168.2.100

Diagnosis

ISP Status

Cable / xDSL IP address: 192.168.100.57
 ISP Gateway IP address: 192.168.100.1
 DNS IP address: 192.168.100.1
 Modem (async) IP address: 0.0.0.0

Link Status

Cable/xDSL	Connected
LAN	Connected

Current WAN connection

Cable/xDSL	Connected
------------	-----------

LAN MAC Table

LAN IP: 192.168.2.2 . MAC: 00:90:cc:0b:8c:9b

WAN MAC Table

LAN IP: 192.168.100.24 . MAC: 00:90:cc:15:6c:fe
 LAN IP: 192.168.100.1 . MAC: 12:34:56:78:90:12

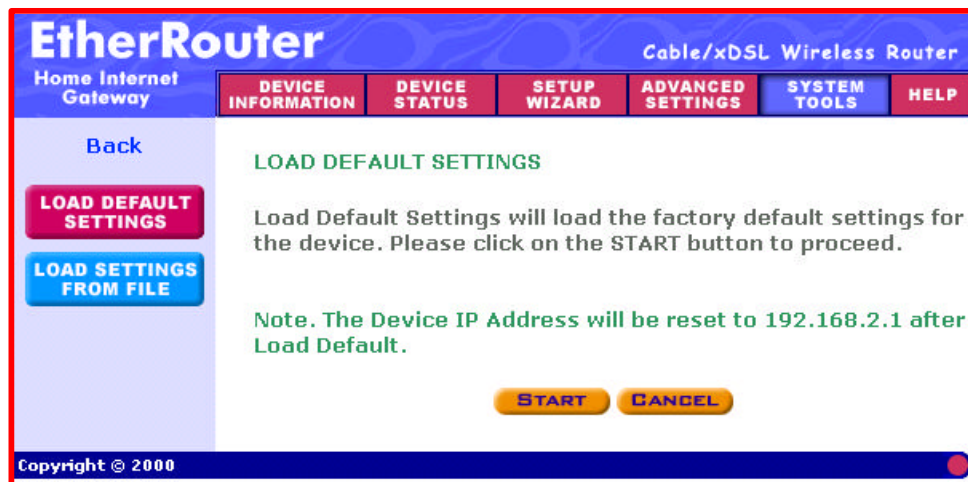
SAVE SETTINGS

The Save Settings screen allows you to save the device's configuration to a file. Click **Save File** to save your current settings to a file. Then click **save** to save this file to your disk.

The screenshot shows the 'SAVE SETTINGS' page of an EtherRouter. The interface has a blue header with the 'EtherRouter' logo and 'Cable/xDSL Wireless Router' text. Below the header is a navigation menu with tabs for 'DEVICE INFORMATION', 'DEVICE STATUS', 'SETUP WIZARD', 'ADVANCED SETTINGS', 'SYSTEM TOOLS', and 'HELP'. The 'ADVANCED SETTINGS' tab is selected. On the left side, there is a 'Main menu' with buttons for 'INTRUDER DETECTION LOG', 'DISPLAY ROUTING TABLE', 'SYSTEM DIAGNOSTICS', 'SAVE SETTINGS' (highlighted in red), 'LOAD SETTINGS', 'UPGRADE FIRMWARE', and 'RESET DEVICE'. Below the menu is a 'Logout' link. The main content area displays the title 'SAVE SETTINGS' in green, followed by the instruction: 'Click Save File to save your current settings to a file. Then click save this file to disk in the browsing wizard.' A yellow 'SAVE FILE' button is centered on the page. The footer contains the text 'Copyright © 2002'.

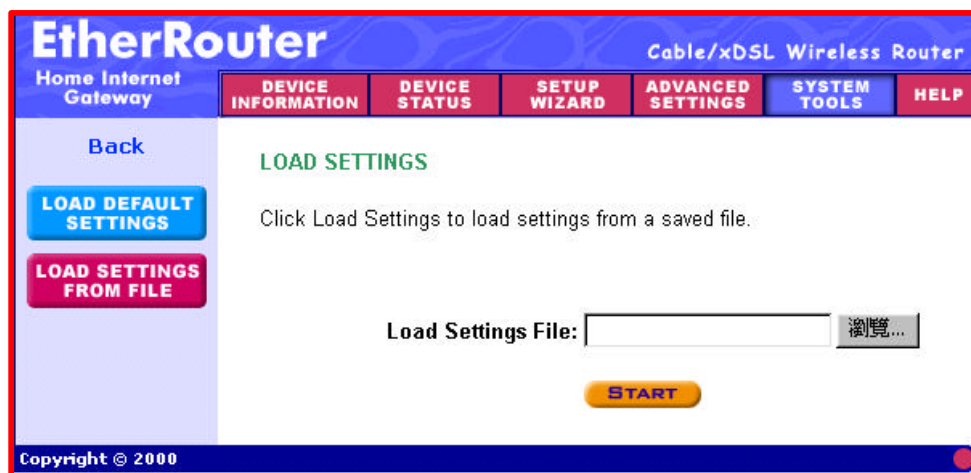
LOAD SETTINGS - LOAD DEFAULT SETTINGS

The load default settings screen allows you to load the factory default settings to your device.



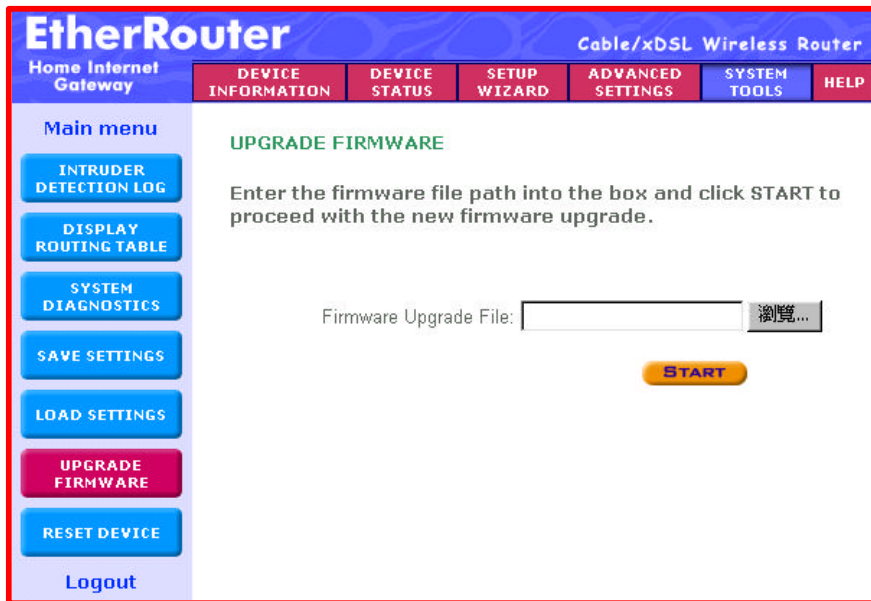
LOAD SETTINGS - LOAD SETTINGS FROM FILE

The load settings from file screen allow you to load a previously saved file to the device again.



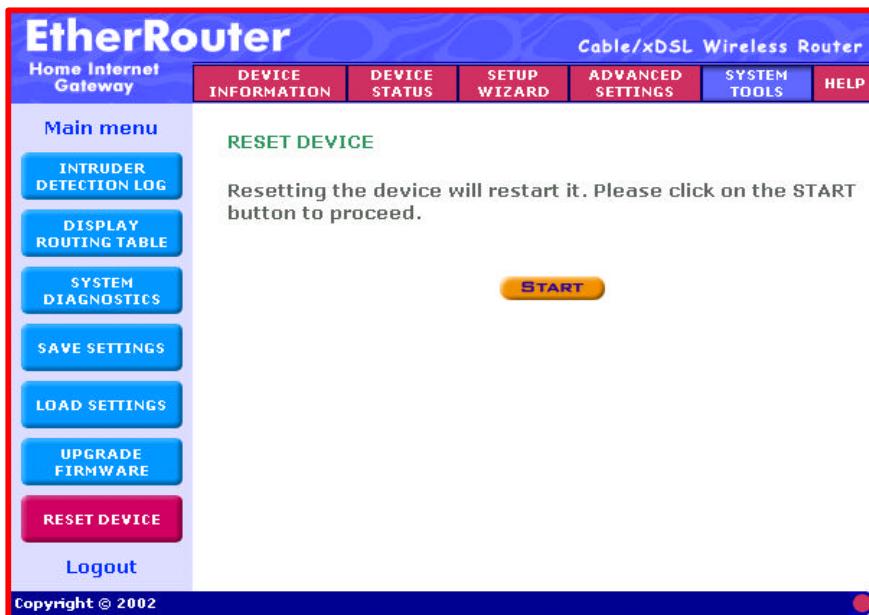
UPGRADE FIRMWARE

The upgrade firmware screen allows you to upgrade the latest firmware to your device.



RESET DEVICE

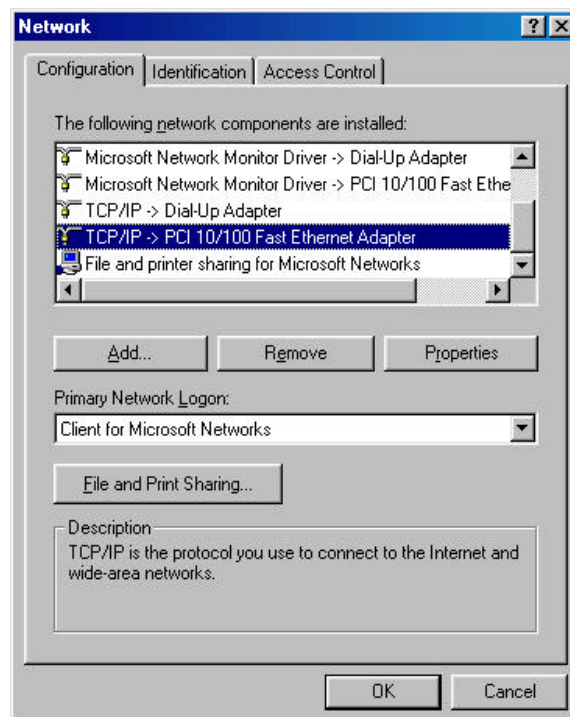
The Reset Device screen allows you to restart/reboot the device. Click on the **START** button to restart/reboot the device.



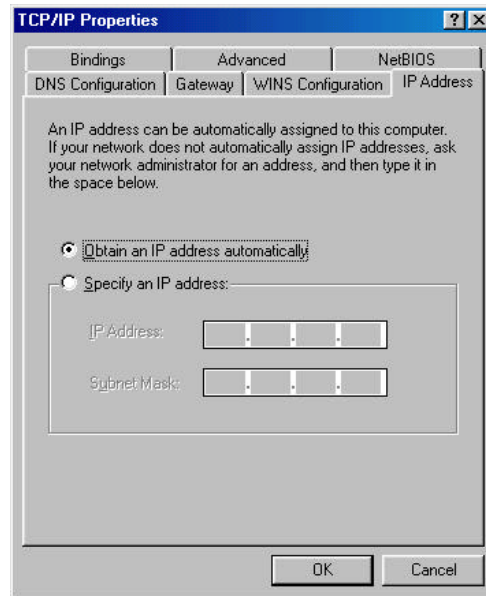
How Configuring Your PCs Connect To The Cable/xDSL Wireless Router

If you **do not** want to set a static IP address for your PC, you will need to configure your PC to request an IP address from the gateway.

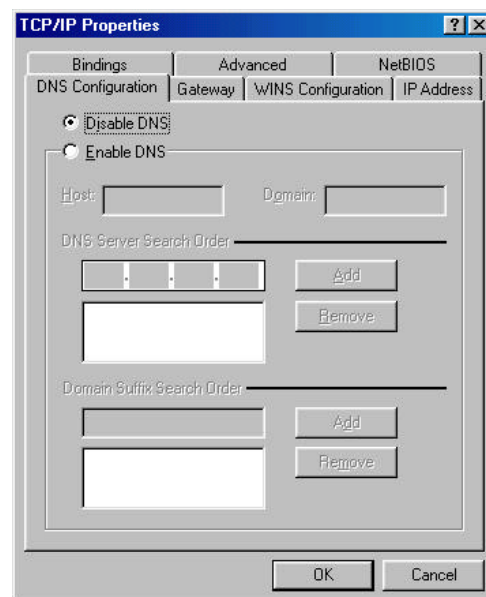
1. Click **Start** button, select **Settings**, then select **Control Panel**
2. Double-click the **Network** Icon
3. In the **configuration** tab, select the **TCP/IP** protocol line that is associated with your network card/adapter. If there is no TCP/IP line listed, you will need to install the TCP/IP now.



4. Click the **Properties** button, then choose the **IP ADDRESS** tab. Select **Obtain an IP address automatically**.



5. Then select the **DNS configuration** tab to add a **DNS IP address**. If you do not wish to add a DNS IP address you can select the **Disable DNS** function. Press **OK**. You have completed the client settings.
6. After clicking **OK**, windows might ask you to restart the PC. Click **Yes**.

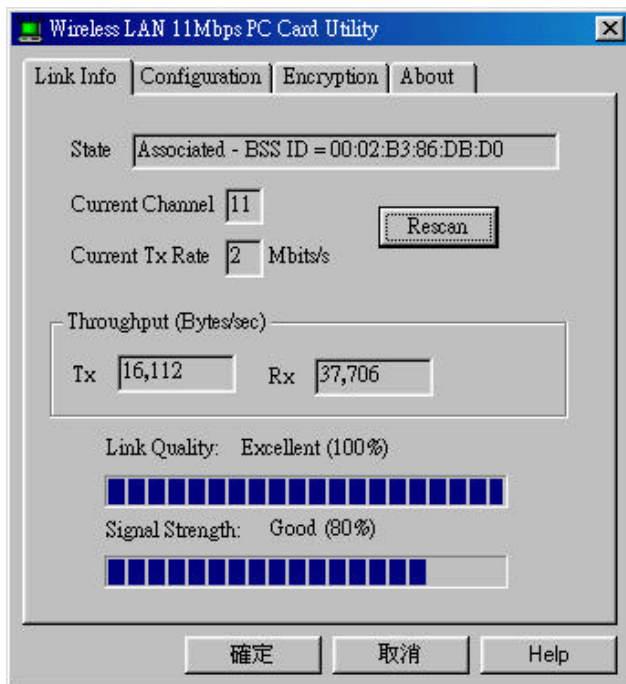


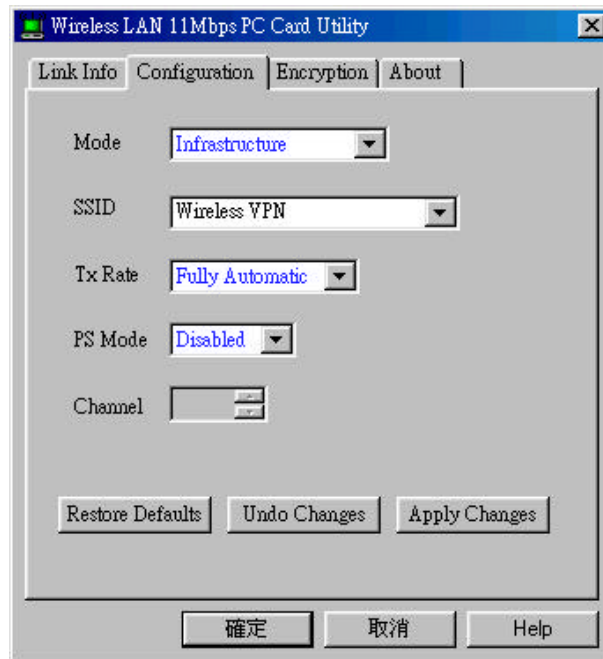
CONFIGURING YOUR WIRELESS PCs

1. Click **Start** button, select **Settings**, then **Control Panel**
2. Double-click the **Network** Icon
3. In the **configuration** window, select the **TCP/IP protocol line** that is associated with your WIRELESS network card/adaptor. If there is no TCP/IP line listed, you will need to install the TCP/IP now.
4. Click the **Properties** button, then choose the **IP ADDRESS** tab. Select **Obtain an IP address automatically**.
5. Then select the **DNS configuration** tab to add a **DNS IP address**. If you do not wish to add a DNS IP address you can select the **Disable DNS** function. Press **OK**. You have completed the client settings.
6. Double Click **Wireless Utility** taskbar.
7. Click **Configuration** Tab.



Wireless utility icon





Mode: Select “Infrastructure” mode

SSID: Enter the same SSID as Wireless Internet Gateway

Tx Rate: Select “Fully Automatic”

PS Mode: Select “Disabled”

Channel: The Wireless Card will automatically detect the channel of the Wireless Internet Gateway

8. Click **Encryption** Tab.

Encryption (WEP): Enter the same Wireless Internet Gateway settings

9. Click OK and Restart your Wireless PC

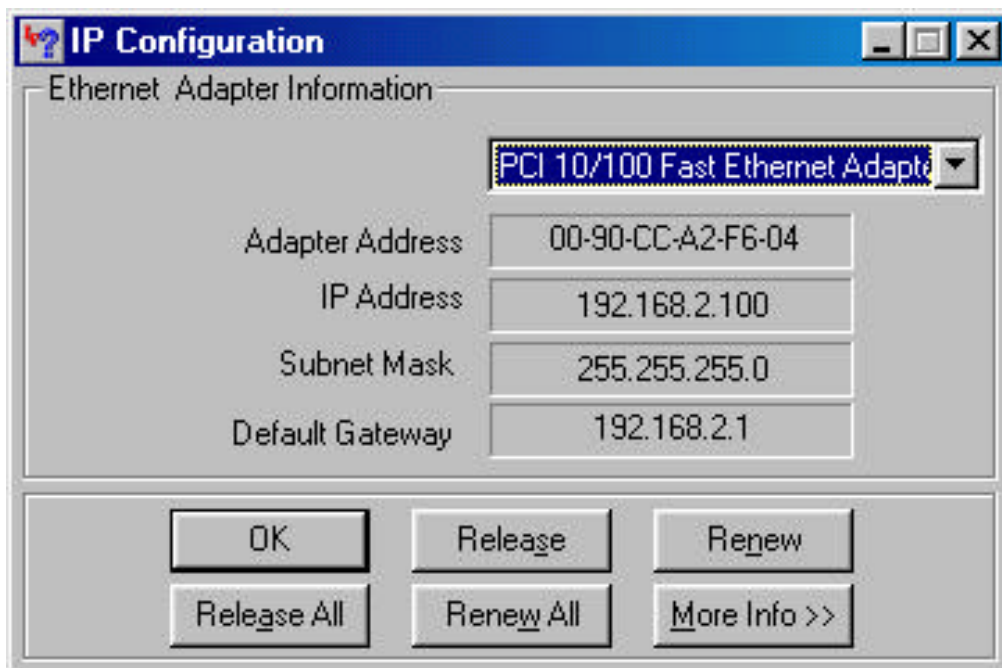
CONFIRM YOUR PC'S IP CONFIGURATION

There are two tools which are great for finding out a computer's IP configuration: MAC address and default gateway.

- **WINIPCFG (for windows 95/98)**

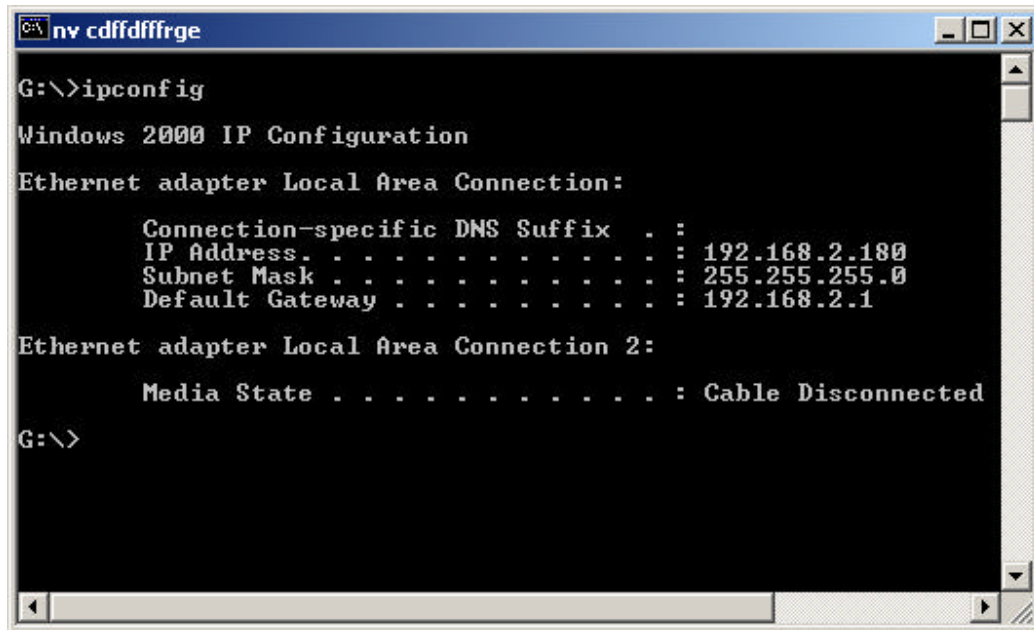
Inside the windows 95/98 **Start** button, select Run and type **winipcfg**. In the example below this computer has an IP address of 192.168.2.100 and the default gateway is 192.168.2.1. The default gateway should be the network (Router) device's IP address. The MAC address in windows 95/98 is called the Adapter Address.

NOTE ! You can also type **winipcfg** in the DOS command.



- **IPCONFIG (for windows 2000/NT)**

In the DOS command type **IPCONFIG** and press **Enter**. Your PC IP information will be displayed as shown below.



```
nv cdffdffrge
G:\>ipconfig

Windows 2000 IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . .               : 192.168.2.180
    Subnet Mask . . . . .             : 255.255.255.0
    Default Gateway . . . . .         : 192.168.2.1

Ethernet adapter Local Area Connection 2:

    Media State . . . . .             : Cable Disconnected

G:\>
```

This concludes the user manual.

Should you require further assistance or have other inquires please contact your distributor.