

TEW-211BRP

Wireless AP Router

User's Manual

Version 1.4 - Jan 2002

CONTENTS

| | |
|--|----|
| Introduction | 3 |
| Hardware Installation | 5 |
| General Wireless AP Router System Connection | 6 |
| Wireless AP Router Default Settings | 7 |
| Web Management Settings | 8 |
| Device Information | 10 |
| Device Status | 10 |
| Device IP Settings | 12 |
| Cable / ADSL ISP Settings | 13 |
| ISP Additional Settings | 14 |
| Wireless Settings | 15 |
| Modem Settings | 16 |
| Advanced Settings | 17 |
| DHCP Server Settings | 17 |
| Virtual Server Settings | 18 |
| Access Control Settings | 19 |
| Static Settings | 22 |
| Dynamic Settings | 23 |
| Modem Settings..... | 24 |
| Filter Settings | 24 |
| Administration Settings | 26 |
| System Tools | 27 |
| Intruder Detection Log | 28 |
| Display Routing Table | 29 |
| Load Settings | 30 |
| Upgrade Firmware | 31 |
| Reset Device | 32 |
| Troubleshooting | 33 |
| Technical Specifications | 35 |

Introduction

Thank you for purchasing your **TEW-211BRP Wireless AP Router**

This manual will assist you with the installation procedure.

The package you have received should contain the following items:

??**TEW-211BRP Wireless AP Router**

??User's Manual

??Power Adapter

Note: if anything is missing, please contact your vendor

Safety Notification

Your **TEW-211BRP Wireless AP Router** should be placed in a safe and secure location. To ensure proper operation, please keep the unit away from water and other damaging elements.

~~✍~~ Please read the installation guide thoroughly before you install the **TEW-211BRP Wireless AP Router**

~~✍~~ The **TEW-211BRP Wireless AP Router** should only be repaired by authorized and qualified personnel.

~~✍~~ Please do not try to open or repair the **TEW-211BRP Wireless AP Router** yourself.

~~✍~~ Do not place the **TEW-211BRP Wireless AP Router** in a damp or humid location, i.e. a bathroom.

~~✍~~ The **TEW-211BRP Wireless AP Router** should be placed in a sheltered and non-slip location within a temperature range of +5 to +40 Celsius degree.

~~✍~~ Please do not expose the **TEW-211BRP Wireless AP Router** to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources.

Hardware Installation

Front Panel

The front panel provides LED's for device status. Refer to the following table for the meaning of each feature.

| | |
|--------------|--|
| PWR | Power status of the TEW-211BRP Wireless AP Router . A steady LED indicates the power is applied to the unit. |
| WLAN | The WLAN LED will be ON when AP function enable, at this time Wireless clients are able to connect to the AP. |
| WAN | Wide Area Network status. WAN LED is illuminated when there is a good connection to the 10 BaseT mode Ethernet port. |
| MODEM | Indicates console port Carrier Detect status. When modem connection is established then LED should be steady on. |
| STAT | System status indicator. A flickering light indicates that when data is reading from or writing into flash. |

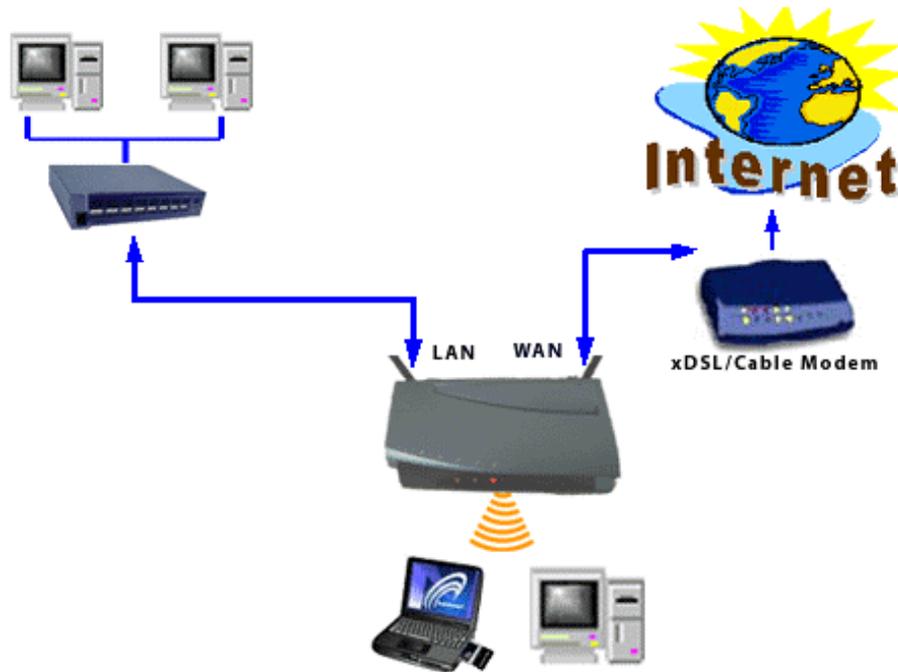
Rear Panel

The rear panel features 4 LAN ports, WAN port, Modem port and Factory Reset button. Refer to the following table for the meaning of each feature.

| | |
|----------------------|---|
| Power (DC 5v) | Used to connect to the power outlet. Only use the power adapter provided with the Wireless AP router. Use of an unauthorized power adapter may cause damage to your device and violate your warranty. |
| Modem | Port used to connect an external analog backup modem/ISDN TA. |
| WAN | The RJ-45 Ethernet port labeled WAN is used to connect your Wireless AP Router to your xDSL or Cable modem. |
| Reset | Resets the configuration to default settings. |
| LAN (1,2,3,4) | The RJ-45 Ethernet ports used to connect your PC or HUB, The Ethernet Cable used can be normal Ethernet cables or even Crossover Cable. The TEW-211BRP has internal AutoCrossover detection circuit to automatic identify them. |
| | |

General Wireless AP Router System Connection

1. The general function of Wireless AP Router is defined as an “AP + Router”, and the connection is as follow diagram. In this mode, user may connect the WAN port to Cable / DSL modem by using cross cable. The WAN LED will indicate connection.
2. Connect the LAN port to a hub or switch by using RJ-45 normal Ethernet cable.



Wireless AP Router Default Settings

By default settings, the Wireless AP Router is regarded as an “AP Router”. The default settings are shown following.

Note:

In WEB mode setup system, only one user allows to access setup program at one time i.e. setup system will decline when other users to connect setup system.

| | | |
|-------------------------|--------------------------|---------------------------|
| User Name | admin | |
| Password | | |
| AP Router Name | Wireless AP | SOHO Wireless LAN |
| AP Router IP Address | 192.168.2.1 | |
| AP Router Subnet Mask | 255.255.255.0 | |
| 10/100 Ethernet LAN IP | 192.168.2.1 | |
| 10 Mbps Ethernet WAN IP | Obtain from ISP via DHCP | Can be manually configure |
| WAN DHCP Client | Enabled | After 20 sec. Go to blank |
| RF ESSID | Wireless | |
| RF Channel | 6 | |
| RF Roaming | Enabled | |
| Encryption | Disabled | |
| DHCP Server | Enabled | |
| NAT Routing | Enabled | |

Web Management Settings

TURN ON POWER SUPPLY

Quick power cycle can caused system corruption. When power on, be careful not to shut down in about 5 seconds, because data is writing to the flash.

START -UP & LOG IN

In order to configure the Wireless AP Router, you must use your web browser and manually input **192.168.2.1** into the Address box and press Enter. The Main Page will appear.



Enter Network Password

Please type your user name and password.

Site: 192.168.2.1

Realm: Login as admin or user

User Name: admin

Password:

Save this password in your password list

OK Cancel

In order to configure the Wireless AP Router, you must input the user-name into the **User Name** box. Enter the password into the **Password** box and press the **OK** button. The default User Name is “admin”. There is no default password, leave the Password field blank.

Once you have logged-in as administrator, it is a good idea to change the administrator password to ensure a secure connection to the Wireless AP Router. The Advanced Settings section described later in this manual describes how to change the password.

Once you have input the correct password and logged-in, the screen will change to the Main Page screen.

MAKE CORRECT NETWORK SETTINGS OF YOUR COMPUTER

To change the configuration, use Internet Explorer (IE) or Netscape Communicator to connect the WEB management **192.168.2.1**.



EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

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

HOME INTERNET GATEWAY
EtherRouter

Device Information
Display the device name, IP address, firmware version, and the MAC addresses for the LAN & WAN connections.

Device Status
Check the status of your Home Internet Gateway. Check your connection to the Internet and the status of your home internet.

Wireless Settings
Configure ESSID, channel, and encryption for the wireless connection.

Help
Get help with commonly asked questions about the Home Internet Gateway.

Setup Wizard
This is the area where the essential device configuration settings are entered.

Advanced Settings
Device password, LAN DHCP and virtual server settings are configured here.

System Tools
Perform System Tests, reset your gateway, change your password and more with the Home Internet Gateway tools.

Start the Setup Wizard ▶

Copyright © 2000

SETUP WIZARD

Click **SETUP WIZARD**. Here allow user to configure basic network settings with your ISP provider.

DEVICE INFORMATION

The screenshot shows the EtherRouter web interface. At the top, the title "EtherRouter" is displayed in large white letters on a blue background, with "Cable/xDSL Wireless Router" in smaller white text to its right. Below the title, there is a navigation bar with several tabs: "Home Internet Gateway", "DEVICE INFORMATION" (which is highlighted in red), "DEVICE STATUS", "SETUP WIZARD", "ADVANCED SETTINGS", "SYSTEM TOOLS", and "HELP". On the left side, there is a "Main menu" link. The main content area is titled "HOME INTERNET GATEWAY INFORMATION" and displays the following information:

- Device Name: Wireless
- IP Address: 192.168.2.1
- Private LAN Mac Address: 00:05:5d:f2:a8:79
- Public WAN (Cable/DSL) Mac Address: 00:05:5d:f2:a8:7a
- Firmware Version: E4.70 (2001/09/12)

At the bottom of the interface, there is a blue footer bar with the text "Copyright © 2000" on the left and a red circular icon on the right.

The **Device Name** is the same as the Computer Name that was set in the Setup Wizard.

The **IP Address** is the IP Address assigned to LAN side of your Router.

The **Private LAN Mac Address** the Mac Address assigned to the LAN side of your Router.

The **Public WAN (Cable/DSL) Mac Address** is the Mac Address assigned to the WAN port of the Router. This Mac Address may be used by some cable modem connections.

The **Firmware Version** is the current firmware version used by the Router.

DEVICE STATUS

Main menu
WAN Ethernet
Cable/xDSL: Not Active

RELEASE
RENEW

Modem Backup:
Modem: Not Active

Device IP:
IP:192.168.2.1
LAN
MAC:00:05:5d:f2:a8:79
WAN
MAC:00:05:5d:f2:a8:7a

DHCP LOG

DEVICE STATUS

MODEM BACKUP

Cable/xDSL Modem

LAN

WIRELESS

DHCP LOG
LAN IP: 192.168.2.118 . MAC: 00:90:4b:02:7c:4c

Copyright © 2000

The Device Status screen displays a graphical representation of your current configuration. The left side of the screen shows your connection information in regards to WAN and LAN IP Address information. The right side displays the connection status of each device.

 This means that there is a connection.

 This means that there is not a connection.

The DHCP Log displays information about each IP Address assigned to a computer using the DHCP server built-in to the Router.

DEVICE IP SETTINGS

It's the LAN network domain settings. The default value is listed as following.

(IP Address: 192.168.2.1, IP Subnet Mask: 255.255.255.0) After changing the settings,

click **NEXT** to continue other network settings.

EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

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

Main menu

TIME SETTINGS

DEVICE IP SETTINGS

CABLE/xDSL ISP SETTINGS

ISP ADDITIONAL SETTINGS

WIRELESS SETTINGS

MODEM SETTINGS

SAVE & RESTART

DEVICE IP SETTINGS

The device IP address and subnet mask settings

IP Address: . . .

IP Subnet Mask: . . .

[< BACK](#) [NEXT >](#)

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

Copyright © 2000

CABLE/xDSL ISP SETTINGS:

Here are the cable/ADSL ISP settings i.e. WAN port network settings.

By default, the WAN port is set to automatically obtain an IP address from your ISP, if ISP provides DHCP server function.

To assign static IP for the WAN port, place a checkmark and enter the settings.

After changing the settings, click **NEXT** to continue other network settings.

EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

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

Main menu

- TIME SETTINGS
- DEVICE IP SETTINGS
- CABLE/xDSL ISP SETTINGS**
- ISP ADDITIONAL SETTINGS
- WIRELESS SETTINGS
- MODEM SETTINGS
- SAVE & RESTART

CABLE/xDSL ISP SETTINGS

Your ISP requires you to input IP settings

IP assigned by your ISP: . . .

IP Subnet Mask: . . .

ISP Gateway Address: . . .

Domain Name Server (DNS) IP Address: . . .

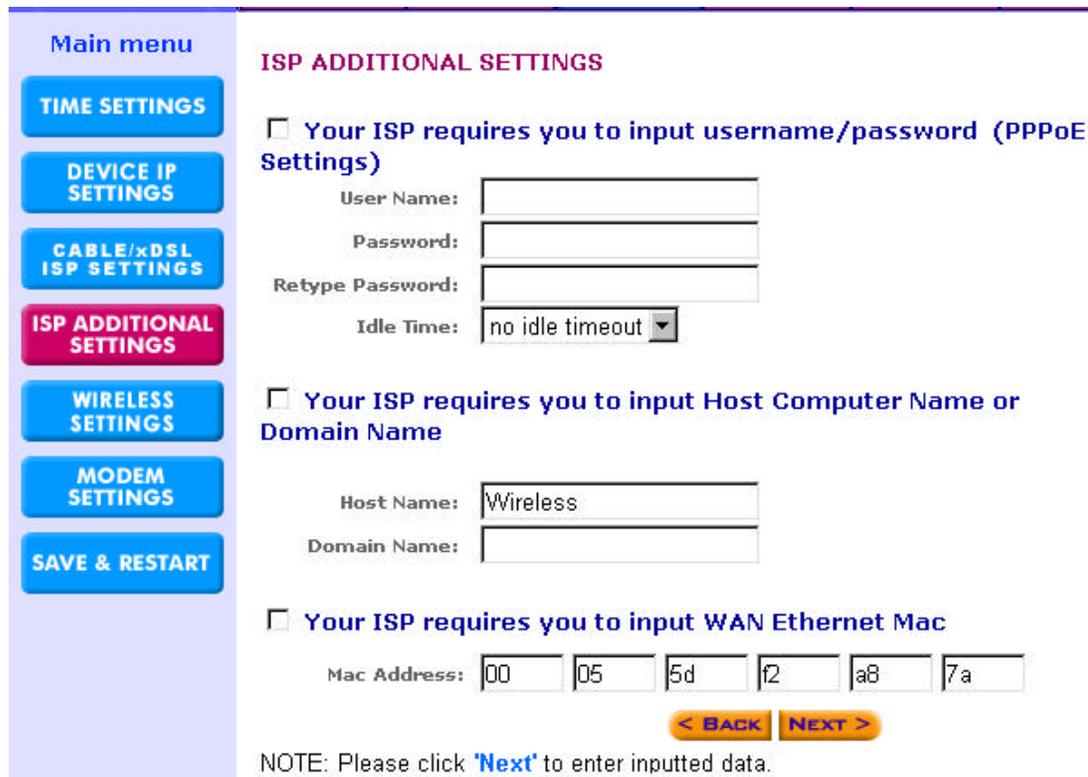
[< BACK](#) [NEXT >](#)

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

Copyright © 2000

ISP ADDITIONAL SETTINGS:

To set extra ISP settings, user may set the authentication data here while entering ISP. Here also allow user to set the “idle time”, ”host and domain name” and ”WAN Ethernet MAC address”. After changing the settings, click **NEXT** to continue other network settings.



ISP ADDITIONAL SETTINGS

Your ISP requires you to input username/password (PPPoE Settings)

User Name:

Password:

Retype Password:

Idle Time:

Your ISP requires you to input Host Computer Name or Domain Name

Host Name:

Domain Name:

Your ISP requires you to input WAN Ethernet Mac

Mac Address:

[< BACK](#) [NEXT >](#)

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

DSL users:

If you are using a PPPoE client to connect to your DSL provider, then place a checkmark on the first box, and enter the user name and password in the appropriate box.

Cable modem users:

If you are using a cable modem, then place a checkmark on the second box and enter the host and domain name given by your cable provider.

WIRELESS SETTINGS

Here allow user to set Wireless AP Router IP and operation channel. The default value for RF are as followed:

1. ESSID: Wireless, Channel: 6.
2. The encryption panel allows the entry of four keys for 64-bit encryption and one set of 128-bit key according to WEP function select. To be written to the driver and registry, each key must consists of hex digits, which means that only digit 0-9 and letters A-F are valid entries. If entered incorrectly program will not write keys to a driver.
3. Country domain selection, allow user to select channel option for different country.
4. After changing the setting, click **NEXT** to save and restart the system.

EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

DEVICE INFORMATION DEVICE STATUS SETUP WIZARD ADVANCED SETTINGS SYSTEM TOOLS HELP

Main menu

TIME SETTINGS

DEVICE IP SETTINGS

CABLE/xDSL ISP SETTINGS

ISP ADDITIONAL SETTINGS

WIRELESS SETTINGS

MODEM SETTINGS

SAVE & RESTART

WIRELESS SETTINGS

1. Enter the Network Name (SSID).

Network Name:

A wireless adapter and Home Internet Gateway must have the same Network Name (SSID).

2. Enter the Security Settings. These settings help prevent unauthorized users from accessing data.

Encryption Algorithm:

3. Select the country where the Home Internet Gateway is running

Country: Channel:

4. To continue with the Setup Wizard, click NEXT.

< BACK NEXT >

Copyright © 2000

MODEM SETTINGS

Here allow user to set MODEM function settings.

If you are using a dial-up modem with the wireless router, place a checkmark in the box and enter the settings for the dial-up connection.

After changing the setting, click **NEXT** to save and restart the system.

| Home Internet Gateway | DEVICE INFORMATION | DEVICE STATUS | SETUP WIZARD | ADVANCED SETTINGS | SYSTEM TOOLS | HELP |
|---|---|---------------|--------------|-------------------|--------------|------|
| Main menu TIME SETTINGS DEVICE IP SETTINGS CABLE/xDSL ISP SETTINGS ISP ADDITIONAL SETTINGS WIRELESS SETTINGS MODEM SETTINGS SAVE & RESTART | MODEM SETTINGS <input type="checkbox"/> Dialup Modem When Cable/xDSL is not connected ISP Phone Number: <input type="text"/> User Name: <input type="text"/> Password: <input type="text"/> Retype Password: <input type="text"/> Idle Time: 30 minutes <input type="text"/> < BACK NEXT > NOTE 1: Please click 'Next' to enter inputted data. NOTE 2: Most modems are compatible with standard modem strings. But few modems or ISDN TAs may need special modem string settings. To setup these special modem strings. Please goto Modem Settings in the Advanced Settings. Copyright © 2000 | | | | | |

Click on the **Save & Restart** button to save your settings.

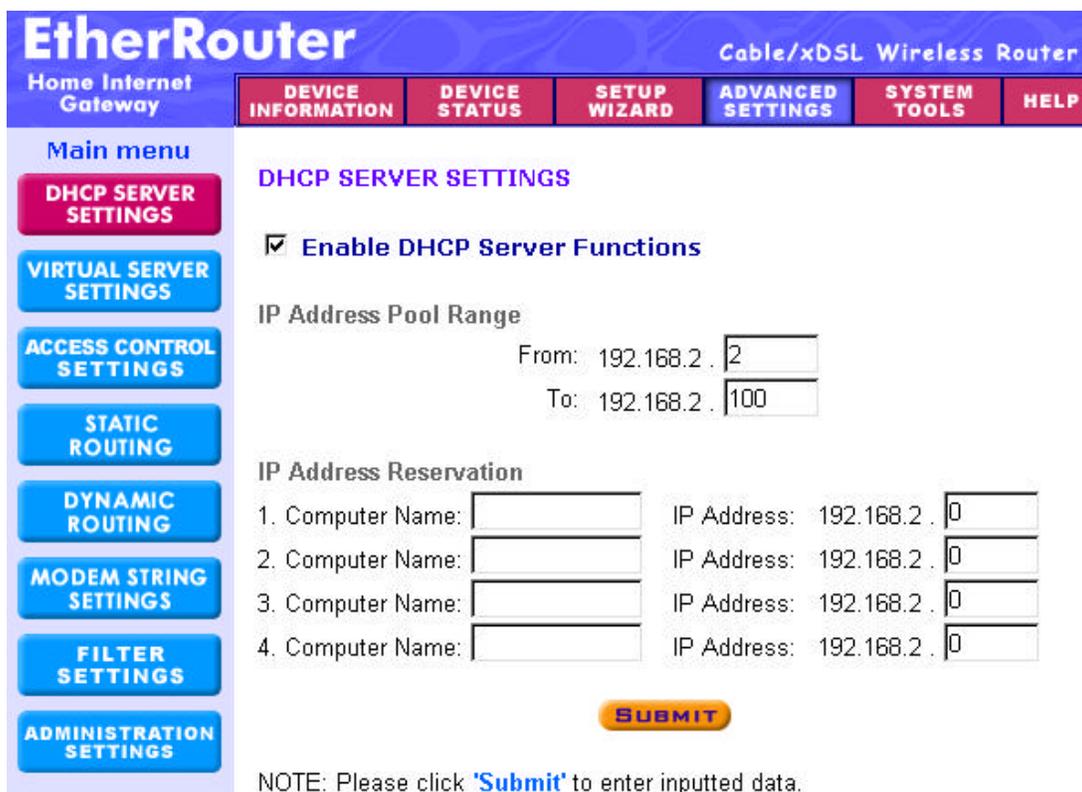
ADVANCED SETTINGS

Click **ADVANCED SETTINGS**. Here allow user to set the advanced settings as main menu list.

DHCP SERVER SETTINGS

By default, the Wireless Router has DHCP server enabled to assign an IP address ranging from 192.168.2.2 to 192.168.2.100. In addition, the router is capable of reserving up to four sets of IP addresses within the local network for mail, web, or ftp server.

After changing the setting, clicks **SUBMIT** to change the configuration.



EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

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

Main menu

- DHCP SERVER SETTINGS**
- VIRTUAL SERVER SETTINGS
- ACCESS CONTROL SETTINGS
- STATIC ROUTING
- DYNAMIC ROUTING
- MODEM STRING SETTINGS
- FILTER SETTINGS
- ADMINISTRATION SETTINGS

DHCP SERVER SETTINGS

Enable DHCP Server Functions

IP Address Pool Range

From: 192.168.2 .

To: 192.168.2 .

IP Address Reservation

| | | | |
|-------------------|----------------------|-------------|--|
| 1. Computer Name: | <input type="text"/> | IP Address: | 192.168.2 . <input type="text" value="0"/> |
| 2. Computer Name: | <input type="text"/> | IP Address: | 192.168.2 . <input type="text" value="0"/> |
| 3. Computer Name: | <input type="text"/> | IP Address: | 192.168.2 . <input type="text" value="0"/> |
| 4. Computer Name: | <input type="text"/> | IP Address: | 192.168.2 . <input type="text" value="0"/> |

SUBMIT

NOTE: Please click **'Submit'** to enter inputted data.

VIRTUAL SERVER SETTINGS

Here allow user to set several kinds of virtual service of the Wireless AP Router such as HTTP, SMTP, POP3, FTP, TELNET services. After enter the settings, clicks SUBMIT to save input data.

EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

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

Main menu

DHCP SERVER SETTINGS

VIRTUAL SERVER SETTINGS

ACCESS CONTROL SETTINGS

STATIC ROUTING

DYNAMIC ROUTING

FILTER SETTINGS

MODEM STRING SETTINGS

ADMINISTRATION SETTINGS

VIRTUAL SERVER SETTINGS

DMZ 192.168.2.

| Internal IP | Service Port Range |
|---|---|
| 01. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 02. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 03. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 04. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 05. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 06. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 07. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 08. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 09. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 10. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |
| 11. 192.168.2. <input type="text" value="0"/> | <input type="text" value="0"/> ~ <input type="text" value="0"/> |

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

Specific application support is enabled in Virtual Server Settings under Advanced Settings. The Wireless AP (Router) will detect and automatically open outgoing ports required by most applications and games. However, some games and applications such as Net meeting will require that the computer be exposed in the DMZ zone to allow incoming ports required by the application. Click on the “Submit” button to save your settings.

DMZ

The Virtual Server Settings under Advanced Settings also enables one computer to have full access to the Internet without the protection of the firewall. This allows a computer to be exposed to unrestricted two-way communication outside of your network.

To enable DMZ, simply reserve an IP address for DMZ zone.

Click the “Submit” button to save your changes.

Only one computer can use DMZ at a time. Please note that enabling DMZ removes the protection of the firewall, which exposes the computer to intrusion.

Use DMZ only when needed and not for extended periods of time.

Note: Service Port Range : (For Administrator only) From 1~ 65535.

ACCESS CONTROL SETTINGS

EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

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

Main menu

- DHCP SERVER SETTINGS
- VIRTUAL SERVER SETTINGS
- ACCESS CONTROL SETTINGS**
- STATIC ROUTING
- DYNAMIC ROUTING
- MODEM STRING SETTINGS
- FILTER SETTINGS
- ADMINISTRATION SETTINGS

1. Select the Access Control List below

Disable Access Control List ▾

| | |
|--------------------------|--|
| Disable Access Control | Any user with the correct wireless settings has access to the wireless network. |
| Enable Grant Access List | Any user who is on the Grant Access List and has the correct wireless settings has access to the wireless network. |
| Enable Deny Access List | Any user who is on the Deny Access List is denied access to the wireless network. |

2. Click Submit to send your request to the Home Internet Gateway.

SUBMIT

This function allow administrator to have access control by enter MAC address of client stations.

EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

[DEVICE INFORMATION](#)
[DEVICE STATUS](#)
[SETUP WIZARD](#)
[ADVANCED SETTINGS](#)
[SYSTEM TOOLS](#)
[HELP](#)

Main menu

[DHCP SERVER SETTINGS](#)
[VIRTUAL SERVER SETTINGS](#)
[ACCESS CONTROL SETTINGS](#)
[STATIC ROUTING](#)
[DYNAMIC ROUTING](#)
[MODEM STRING SETTINGS](#)
[FILTER SETTINGS](#)
[ADMINISTRATION SETTINGS](#)

1. Select the Access Control List below

MAC address of their wireless network adapter and then click Add.

MAC Address : : : : :

Add

Users allowed to access the wireless network (Grant Access List)

The maximum number of users on this list is 32.

| <input type="checkbox"/> | MAC Address |
|--------------------------|-------------|
| <input type="checkbox"/> | |

3. To delete a MAC address from the list, make sure that the checkbox is checked and click Delete.

Enable Grant/Deny Access List, user may just input the MAC address of client stations onto MAC Address table, then click **ADD** button.

To delete a MAC address from the list, just click the checkbox and click **Delete** .

Click ‘ **SUBMIT** ’ to update the data .

STATIC ROUTING SETTINGS

The screenshot shows the EtherRouter web interface. The top navigation bar includes 'Home Internet Gateway', 'DEVICE INFORMATION', 'DEVICE STATUS', 'SETUP WIZARD', 'ADVANCED SETTINGS' (highlighted), 'SYSTEM TOOLS', and 'HELP'. The left sidebar contains a 'Main menu' with buttons for 'DHCP SERVER SETTINGS', 'VIRTUAL SERVER SETTINGS', 'ACCESS CONTROL SETTINGS', 'STATIC ROUTING' (highlighted), 'DYNAMIC ROUTING', 'MODEM STRING SETTINGS', 'FILTER SETTINGS', and 'ADMINISTRATION SETTINGS'. The main content area is titled 'STATIC ROUTING TABLE' and contains three input fields: 'Destination IP Address', 'Subnet Mask', and 'Gateway IP Address', each with four text boxes for IP octets. Below these fields is an 'ADD' button. A table below the 'ADD' button has columns for 'Del', 'Destination LAN IP Address', 'Subnet Mask', and 'Gateway IP Address'. Below the table is a 'SUBMIT' button. A note at the bottom states: 'NOTE: Please click **Submit** to enter inputted data.'

In Static Routing, the user has the ability to add a static route to the routing table by simple entering the destination IP, subnet mask, and gateway. Clicking on “Add” and then “Submit” which requires a restart for the IP address to be incorporated into the routing table.

To delete a file from the list, just click the checkbox and click **Delete** .

DYNAMIC SETTINGS

EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

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

Main menu

DHCP SERVER SETTINGS

VIRTUAL SERVER SETTINGS

ACCESS CONTROL SETTINGS

STATIC ROUTING

DYNAMIC ROUTING

MODEM STRING SETTINGS

FILTER SETTINGS

ADMINISTRATION SETTINGS

DYNAMIC SETTINGS

SEND Disable RIP1 RIP1 Compatible RIP2

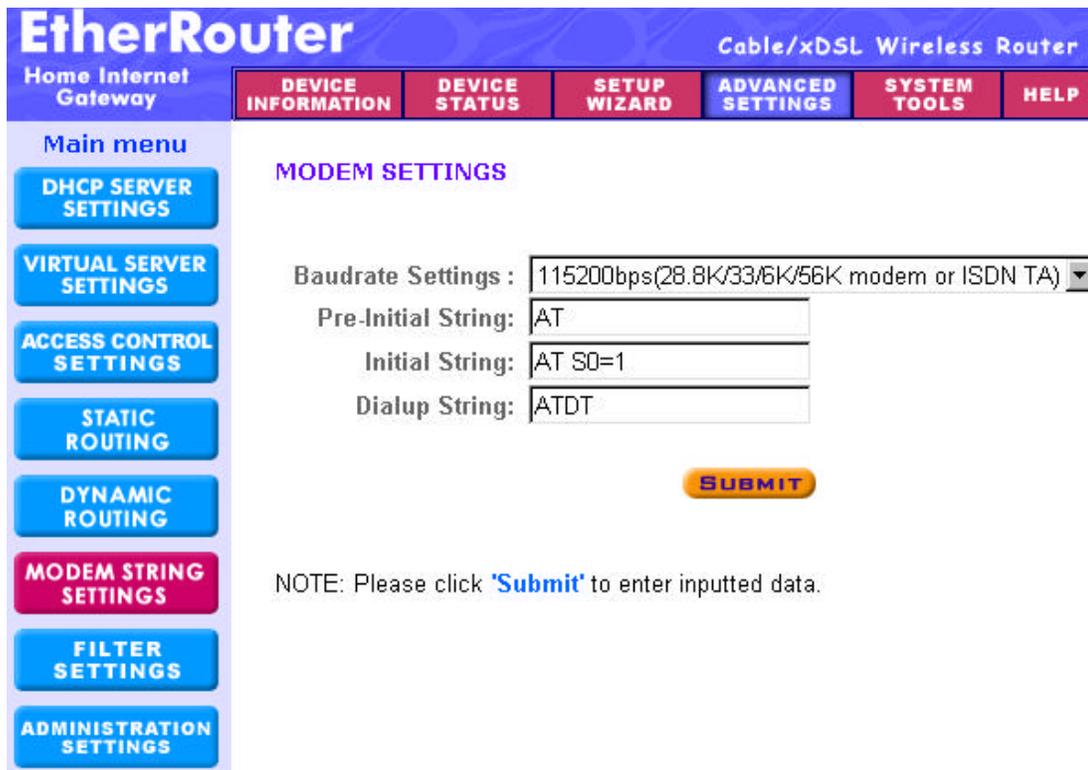
RECEIVE Disable RIP1 Only RIP2 Only Both RIP1/2

SUBMIT

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

By default, the Router will not send or receive any routing Internet protocols (RIP) to update the routing table. However, the user can enable the Router to automatically send and receive RIP packets to establish routes for commonly used paths.

MODEM STRING SETTINGS



EtherRouter Cable/xDSL Wireless Router

Home Internet Gateway

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

Main menu

DHCP SERVER SETTINGS

VIRTUAL SERVER SETTINGS

ACCESS CONTROL SETTINGS

STATIC ROUTING

DYNAMIC ROUTING

MODEM STRING SETTINGS

FILTER SETTINGS

ADMINISTRATION SETTINGS

MODEM SETTINGS

Baudrate Settings : 115200bps(28.8K/33.6K/56K modem or ISDN TA) ▼

Pre-Initial String: AT

Initial String: AT S0=1

Dialup String: ATDT

SUBMIT

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

Most dial-up modems are compatible with the standard modem strings. However for modems that require special modem strings, the user can enter the information in this screen.

Click ' **Submit** ' to save input data.

FILTER SETTINGS

| Home Internet Gateway | DEVICE INFORMATION | DEVICE STATUS | SETUP WIZARD | ADVANCED SETTINGS | SYSTEM TOOLS | HELP |
|-----------------------|--------------------|---------------|--------------|-------------------|--------------|------|
|-----------------------|--------------------|---------------|--------------|-------------------|--------------|------|

[Back](#)

LAN FILTER SETTINGS

WAN FILTER SETTINGS

LAN Side Filter Enabled

Default LAN Side Filter: Block Pass

Filter Entry

Block Pass

Protocols:

IP Address Range: 192.168.2. ~ 192.168.2.

Destination Port Range: ~

ADD

LAN Side Filter Table:

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

SUBMIT

NOTE: Please click **'Submit'** to enter inputted data.

This page is only for MIS administrator only.

Enable LAN Site Filter function: Block / Pass.

Here allow user to add IP Address Range and Destination Port Range to LAN Side Filter Table. The router will Block/Pass packet according to allocate IP range.

Click **ADD** button after input data. Click **SUBMIT** to update data.

To delete a file from the list, just click the checkbox and click **Delete**.

WAN FILTER SETTINGS: same as above.

Note: Port range (from 1~65535) for administrator only.

ADMINISTRATION SETTINGS

| Home Internet Gateway | DEVICE INFORMATION | DEVICE STATUS | SETUP WIZARD | ADVANCED SETTINGS | SYSTEM TOOLS | HELP |
|-----------------------|--------------------|---------------|--------------|-------------------|--------------|------|
|-----------------------|--------------------|---------------|--------------|-------------------|--------------|------|

Main menu

- DHCP SERVER SETTINGS
- VIRTUAL SERVER SETTINGS
- ACCESS CONTROL SETTINGS
- STATIC ROUTING
- DYNAMIC ROUTING
- MODEM STRING SETTINGS
- FILTER SETTINGS
- ADMINISTRATION SETTINGS**

PASSWORD SETTINGS

The new password will be used to authenticate the user when configuring the device.

New Password:

Retype Password:

SYSTEM ADMINISTRATION

HTTP Port No:

Telnet Port No:

Allow remote user to configure the device
Remote administration host
IP Address: . . .

Allow remote user to ping the device

SYSTEM Log

Enable System Log Function
Log server IP address . . .

SUBMIT

Here allow user to change the password to execute setup system, user may also input the IP address of Remote administration host in order to do the IP remote from Wan.

After changing the setting, clicks SUBMIT.

SYSTEM TOOLS

The System Tools section enables you to manage your Wireless AP Router and view information related to unit functions. The following functions are described in this chapter.

Intruder Detection Log: View detection logs.

Display Routing Table : Display the routing status of the Router.

System Diagnostics: Display current status and connection information.

Save Settings : Save router configuration to a file .

Load Settings : Restore settings to factory default or from a saved file.

Upgrade Firmware : Upgrade the firmware with a latest version.

Reset Device : Reboot the Wireless AP Router.

INTRUDER DETECTION LOG

The screenshot shows the EtherRouter web interface. At the top, there is a blue header with the text "EtherRouter" and "Cable/xDSL Wireless Router". Below the header, there is a navigation bar with several tabs: "Home Internet Gateway", "DEVICE INFORMATION", "DEVICE STATUS", "SETUP WIZARD", "ADVANCED SETTINGS", "SYSTEM TOOLS", and "HELP". On the left side, there is a "Main menu" with several buttons: "INTRUDER DETECTION LOG" (highlighted in red), "DISPLAY ROUTING TABLE", "SYSTEM DIAGNOSTICS", "SAVE SETTINGS", "LOAD SETTINGS", "UPGRADE FIRMWARE", and "RESET DEVICE". The main content area is titled "INTRUDER DETECTION LOG" and contains a table with the following columns: "Index", "Time", "Protocol", "Source IP (Port)", "Dest IP (Port)", and "Event". The table is currently empty. At the bottom of the page, there is a blue footer with the text "Copyright © 2000".

The Intruder Detection Log displays all information related to intrusion attempts on your network. If any packets are seen as harmful, those packets are blocked and a log is kept about the information related to that packet.

Index: (1,2,3 etc.) Refers to the row number.

Time: The time that the action was logged.

Protocol: (IP, UDP etc.) The type of protocol detected.

Source IP (Port): The source IP address of the intruding packet.

Dest IP (Port): The IP address assigned to the destination of the intruding packet.

Event: The type of intrusion.

DISPLAY ROUTING TABLE

The screenshot shows the 'EtherRouter' web interface. The top navigation bar includes 'EtherRouter' and 'Cable/xDSL Wireless Router'. Below this is a menu with 'Home Internet Gateway' and several tabs: 'DEVICE INFORMATION', 'DEVICE STATUS', 'SETUP WIZARD', 'ADVANCED SETTINGS', 'SYSTEM TOOLS', and 'HELP'. The left sidebar contains a 'Main menu' with buttons for 'INTRUDER DETECTION LOG', 'DISPLAY ROUTING TABLE', 'SYSTEM DIAGNOSTICS', 'SAVE SETTINGS', 'LOAD SETTINGS', 'UPGRADE FIRMWARE', and 'RESET DEVICE'. The main content area displays the 'DISPLAY ROUTING TABLE' with a table containing one entry.

| 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 |

The Display Routing Table screen displays the routing status that the Router is using. A router uses a routing table to keep track of what IP addresses there are and where the router should forward packets when it receives them.

Type: The type of routing protocol used.

Destination LAN IP Address: Shows the Destination IP Address on the LAN side.

Subnet Mask: Shows the subnet mask assigned to the Destination LAN IP Address.

Gateway IP Address: The IP Address of the assigned Gateway.

Hop Count: The number of hops between the Destination LAN IP Address and the Gateway IP Address.

SAVE SETTINGS

Save the router's current configurations to a file.

Click on **SAVE** button, click **Save** at "File Download" dialogue, enter the desired file name with CFG as extension (i.e. SETUP.CFG) and choose the location (i.e.

C:\router), then click on **Save**. The configuration is now saved to the desired location.

LOAD SETTINGS

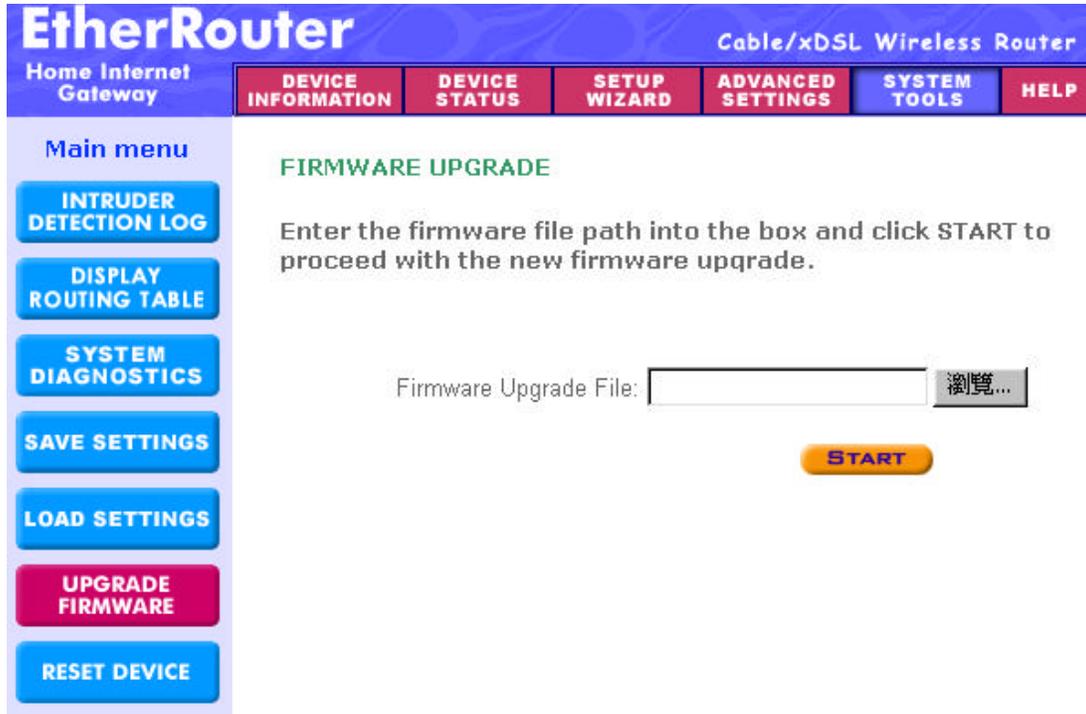
The screenshot shows the EtherRouter web interface. At the top, the title "EtherRouter" is displayed in white on a blue background, with "Cable/xDSL Wireless Router" to its right. Below the title is a navigation bar with several tabs: "Home Internet Gateway", "DEVICE INFORMATION", "DEVICE STATUS", "SETUP WIZARD", "ADVANCED SETTINGS", "SYSTEM TOOLS", and "HELP". The "SYSTEM TOOLS" tab is currently selected. On the left side, there is a vertical menu with a "Back" link and two buttons: "LOAD DEFAULT SETTINGS" (red) and "LOAD SETTINGS FROM FILE" (blue). The main content area is titled "LOAD DEFAULT SETTINGS" in green. It contains the text: "Load Default Settings will load the factory default settings for the device. Please click on the START button to proceed." Below this is a green note: "Note. The Device IP Address will be reset to 192.168.2.1 after Load Default." At the bottom of the main area are two yellow buttons: "START" and "CANCEL". The footer of the page is a dark blue bar with the text "Copyright © 2000" on the left and a small red circle on the right.

The **Load Default Settings** screen enables you to restore the settings that came as default. Click on **LOAD DEFAULT SETTINGS** button on the left hand side menu, click **Start**, and click Ok to load the default settings. Performing this task will replace all current settings with default settings.

Load Settings from File allows user to load a saved configuration file to router. Click on **LOAD SETTINGS FROM FILE** button on the left hand side menu, type in the file location or click **Browse** to select the file location, and click **Start** button to load the configuration.

UPGRADE FIRMWARE

Here allow user to upgrade firmware. After choosing upgrade firmware, click **START** to load settings.



The screenshot shows the 'EtherRouter' web interface. The top navigation bar includes 'Home Internet Gateway' and 'Cable/xDSL Wireless Router'. Below this are tabs for 'DEVICE INFORMATION', 'DEVICE STATUS', 'SETUP WIZARD', 'ADVANCED SETTINGS', 'SYSTEM TOOLS', and 'HELP'. A left sidebar contains a 'Main menu' with buttons for 'INTRUDER DETECTION LOG', 'DISPLAY ROUTING TABLE', 'SYSTEM DIAGNOSTICS', 'SAVE SETTINGS', 'LOAD SETTINGS', 'UPGRADE FIRMWARE', and 'RESET DEVICE'. The main content area is titled 'FIRMWARE UPGRADE' and contains the instruction: 'Enter the firmware file path into the box and click START to proceed with the new firmware upgrade.' Below this is a text input field labeled 'Firmware Upgrade File:' with a '浏览...' (Browse...) button to its right. A yellow 'START' button is positioned below the input field.

The Upgrade Firmware screen enables you to update the firmware. Updated firmware usually fix problems encountered by users, but may incorporate new features.

Begin by clicking the “Browse...” button to browse your computer to select the updated firmware file. Once the firmware file is selected, click the “Start” button to upgrade the firmware.

Note: When upgrading the firmware, do not try to access the Internet and do not turn the power off. Doing so may cause the firmware upgrade process to abort, which may result in a corrupt firmware.

RESET DEVICE

The screenshot shows the EtherRouter web interface. At the top, there is a blue header with the text "EtherRouter" on the left and "Cable/xDSL Wireless Router" on the right. Below the header, there is a navigation bar with several tabs: "Home Internet Gateway", "DEVICE INFORMATION", "DEVICE STATUS", "SETUP WIZARD", "ADVANCED SETTINGS", "SYSTEM TOOLS", and "HELP". The "DEVICE STATUS" tab is currently selected. On the left side, there is a "Main menu" with several buttons: "INTRUDER DETECTION LOG", "DISPLAY ROUTING TABLE", "SYSTEM DIAGNOSTICS", "SAVE SETTINGS", "LOAD SETTINGS", "UPGRADE FIRMWARE", and "RESET DEVICE". The "RESET DEVICE" button is highlighted in red. The main content area displays the title "RESET THE DEVICE" in green. Below the title, there is a paragraph of text: "Resetting the device will restart it. Please click on the START button to proceed." At the bottom of the main content area, there are two buttons: "START" and "CANCEL", both in yellow with black text.

The Reset Device screen enables you to reboot the Wireless AP Router. If any changes are made and you want them to take effect, you will need to reset the Wireless AP Router to do so. Click the “Start ” button to reset the Wireless AP Router.

Click the “Cancel” button to cancel.

Troubleshooting

Basic Functions

My Wireless AP Router will not turn on. No LED's light up.

Cause:

~~///~~ The power is not connected.

Resolution:

~~///~~ Connect the power adapter to your Wireless AP Router and plug it into the power outlet.

Note: Only use the power adapter provided with your Wireless AP Router. Using any other adapter may damage your Wireless AP Router.

LAN Connection Problems

I can't access my Wireless AP Router.

Cause:

~~///~~ The unit is not powered on.

~~///~~ There is not a network connection.

~~///~~ The computer you are using does not have a compatible IP Address.

Resolution:

~~///~~ Make sure your Wireless AP Router is powered on.

~~///~~ Use the WINIPCFG utility described in the appendix to make sure that your computer has a compatible IP Address. If your IP Address is not set correctly and you are using DHCP, use WINIPCFG to renew your IP Address. Otherwise, make correct changes to your Windows network settings. Make sure that the IP Address used on your computer is set to the same subnet as the Router. For example, if the Router is set to 192.168.2.1, change the IP address of your computer to 192.168.2.15 or another unique IP Address that corresponds to the 192.168.2.X subnet.

Use the Reset button located on the front of your Router to revert to the default settings.

I can't connect to other computers on my LAN.

Cause:

- ✎* The IP Addresses of the computers are not set correctly.
- ✎* Network cables are not connected properly.
- ✎* Windows network settings are not set correctly.

Resolution:

- ✎* Make sure that each computer has a unique IP Address. If using DHCP through the Wireless AP Router, makes sure that each computer is set to "Obtain an IP Address automatically" and restart the computer. Use the WINIPCFG and PING utilities described in the appendix to make sure that you can connect to each computer.
- ✎* Make sure that the Link LED is on. If it is not, try a different network cable.
- ✎* Check each computer for correct network settings.

ISP Connection Problems

I can access the Wireless AP Router, but I can't connect to my ISP.

Cause:

- ✎* Your DSL or Cable modem is not functioning correctly.
- ✎* The cable is connected from the WAN port of the Wireless AP Router to your DSL or Cable modem.
- ✎* The wrong connection type is used in Setup.
- ✎* The username and password is not input correctly.

Resolution:

- ✎* Make sure that your DSL or Cable modem is running correctly and connected to the WAN port of the Broadband Router.
- ✎* Make sure that the right connection type is used in the web configuration.
- ✎* Make sure that the username and password used in the connection type is correct.
- ✎* Some ISP's do not care if you share your broadband connection among multiple users. Other ISP's will explicitly restrict this type of activity in your service contract. It is important that you verify that you are in accordance with your service agreement before sharing Internet access.

Wireless Troubleshooting

I can't access the Wireless AP Router from a wireless network card

Cause:

- ✎* Settings are not the same among each wireless adapter.
- ✎* Out of range.
- ✎* IP Address is not set correctly.

Resolution:

- ✎* Make sure that the Mode, SSID, Channel and encryption settings are set the same on each wireless adapter.
- ✎* Make sure that your computer is within range and free from any strong electrical devices that may cause interference.
- ✎* Check your IP Address to make sure that it is compatible with the Wireless AP Router.

Performing a Factory Reset

Follow these steps to perform a Factory Reset using the Reset button on the back of the Wireless AP Router.

1. With the unit on, press and hold the Reset button with a pen or paper clip.
2. Hold the reset button for about 5 or 6 seconds until the Power/Test LED on the front panel blinks very quickly and then release.
3. Wait a few seconds for the Broadband Router to reboot using default settings.

A Factory Reset can also be performed through the web configuration interface. Follow these steps to perform a factory reset using the web configuration interface.

1. Log-in to the Wireless AP Router web configuration interface.
2. Click on the System Management link at the bottom of the screen.
3. Click on **Restore Default Settings**.
4. You will be asked if you want to restore to default settings. Click OK to restore settings to default configuration or click Cancel to discard any changes.

Technical Specifications

Standards:

IEEE 802.3 10BASE-T Ethernet
IEEE 802.3u 100BASE-TX Fast Ethernet
ANSI/IEEE 802.3 NWay auto-negotiation

Protocols Supported:

TCP
IP
NAT
UDP
PPPoE
DHCP (Client and Server)

Management:

Web-Based

Ports:

LAN: NWay 10BASE-T/100BASE-TX Fast Ethernet
WAN: 10BASE-T
RS-232 (DB-9) Serial

TEW-211BRP Wireless AP Router Specifications

General Wireless Specifications:

IEEE 802.11b Wireless LAN, Wi-Fi Compatible

Access Point Frequency Band:

2.4 ~ 2.4835 GHz (subject to local regulation)

Access Point Number of Channel:

USA & Canada: 11 (1- 11)

Access Point Frequency Range:

5 Mbps

Access Point Data Rate:

11 Mbps
5.5 Mbps
2 Mbps
1 Mbps

Data encryption:

64/128-bit WEP and ESSID for Security

LED:

Power : Indicate power is ON

Status : Indicate Firmware loading under proceeding

WAN : Indicate WAN port connection

LAN : Indicate LAN port TX/RX operation

WLAN: Indicate Wireless been connected and operation

Power Specifications :

DC power supply

Input: DC 100-240, 50-60 Hz, 1A

Output: 5V DC, 2A converter incl.

Physical Dimensions

195mm(L) * 160mm (W) * 27mm (H)

Weight :

680 gram

(without power adaptor)