



# TRENDNET®



## User's Guide

### TEW-432BRP

## **Regulatory notes and statements**

### **Wireless LAN, Health and Authorization for use**

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. The use of Wireless LAN devices may be restricted in some situations or environments for example:

- Onboard airplanes, or
- In an explosive environment, or
- In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment.

### **Regulatory Information/disclaimers**

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

### ***Federal Communication Commission Interference Statement***

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

### **IMPORTANT NOTE:**

#### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

**EN 60 950-1: 2001 +A11: 2004**

Safety of Information Technology Equipment

**EN 50385: 2002**

Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public

**EN 300 328 V1.7.1 (2006-10)**

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

**EN 301 489-1 V1.6.1 (2005-09)**

Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

**EN 301 489-17 V1.2.1 (2002-08)**

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.



|                       |  |
|-----------------------|--|
| Česky<br>[Czech]      | <i>[Jméno výrobce]</i> tímto prohlašuje, že tento <i>[typ zařízení]</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.   |
| Dansk<br>[Danish]     | Undertegnede <i>[fabrikantens navn]</i> erklærer herved, at følgende udstyr <i>[udstyrets typebetegnelse]</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.   |
| Deutsch<br>[German]   | Hiermit erkläre <i>[Name des Herstellers]</i> , dass sich das Gerät <i>[Gerätetyp]</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.          |
| Eesti<br>[Estonian]   | Käesolevaga kinnitab <i>[tootja nimi = name of manufacturer]</i> seadme <i>[seadme tüüp = type of equipment]</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele. |
| English               | Hereby, <i>[name of manufacturer]</i> , declares that this <i>[type of equipment]</i> is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.   |
| Español<br>[Spanish]  | Por medio de la presente <i>[nombre del fabricante]</i> declara que el <i>[clase de equipo]</i> cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.            |
| Ελληνική<br>[Greek]   | ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ <i>[name of manufacturer]</i> ΔΗΛΩΝΕΙ ΟΤΙ <i>[type of equipment]</i> ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK.   |
| Français<br>[French]  | Par la présente <i>[nom du fabricant]</i> déclare que l'appareil <i>[type d'appareil]</i> est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.                                  |
| Italiano<br>[Italian] | Con la presente <i>[nome del costruttore]</i> dichiara che questo <i>[tipo di apparecchio]</i> è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.                         |
| Latviski              | Ar šo <i>[name of manufacturer / izgatavotāja nosaukums]</i> deklarē, ka <i>[type of equipment / iekārtas tips]</i> atbilst Direktīvas 1999/5/EK būtiskajām prasībām   |

|  |   |
|--|---|
| [Latvian]  | un citiem ar to saistītajiem noteikumiem.   |
| Lietuvių<br>[Lithuanian<br>]   | Šiuo [ <i>manufacturer name</i> ] deklaruoja, kad šis [ <i>equipment type</i> ] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.   |
|  Nederlands<br>[Dutch]          | Hierbij verklaart [ <i>naam van de fabrikant</i> ] dat het toestel [ <i>type van toestel</i> ] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.                                 |
|  Malti<br>[Maltese]             | Hawnhekk, [ <i>isem tal-manifattur</i> ], jiddikjara li dan [ <i>il-mudel tal-prodott</i> ] jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.                                  |
|  Magyar<br>[Hungarian<br>]      | Alulírott, [ <i>gyártó neve</i> ] nyilatkozom, hogy a [ <i>... típus</i> ] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.  |
|  Polski<br>[Polish]             | Niniejszym [ <i>nazwa producenta</i> ] oświadczam, że [ <i>nazwa wyrobu</i> ] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.  |
|  Português<br>[Portuguese<br>e] | [ <i>Nome do fabricante</i> ] declara que este [ <i>tipo de equipamento</i> ] está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.   |
|  Slovensko<br>[Slovenian]     | [ <i>Ime proizvajalca</i> ] izjavlja, da je ta [ <i>tip opreme</i> ] v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.   |
| Slovensky<br>[Slovak]  | [ <i>Meno výrobcu</i> ] týmto vyhlasuje, že [ <i>typ zariadenia</i> ] spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.  |
|  Suomi<br>[Finnish]           | [ <i>Valmistaja = manufacturer</i> ] vakuuttaa täten että [ <i>type of equipment = laitteen tyyppimerkintä</i> ] tyypinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen. |
|  Svenska<br>[Swedish]         | Härmed intygar [ <i>företag</i> ] att denna [ <i>utrustningstyp</i> ] står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.                                      |

## Export restrictions

This product or software contains encryption code that may not be exported or transferred from the US or Canada without an approved US Department of Commerce export license.

## Safety Information

Your device contains a low power transmitter. When device is transmitted it sends out radio frequency (RF) signal.

CAUTION: To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna. Unauthorized antenna,

modification, or attachments could damage the transmitter and may violate FCC regulations.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

### **CE Mark Warning**

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.

### **Protection requirements for health and safety – Article 3.1a**

Testing for electric safety according to EN 60950 has been conducted. These are considered relevant and sufficient.

### **Protection requirements for electromagnetic compatibility – Article 3.1b**

Testing for electromagnetic compatibility according to EN 301 489-1, EN 301 489-17 and EN 55024 has been conducted. These are considered relevant and sufficient.

### **Effective use of the radio spectrum – Article 3.2**

Testing for radio test suites according to EN 300 328-2 has been conducted. These are considered relevant and sufficient.

### **CE in which Countries where the product may be used freely:**

Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway and Iceland.

France: except the channel 10 through 13, law prohibits the use of other channels.



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## ***ABOUT THIS GUIDE***

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Congratulations on your purchase of this IEEE 802.11g Wireless Broadband Router. This integrated access device combines Internet gateway functions with wireless LAN and Fast Ethernet switch. It provides a complete solution for Internet surfing and office resource sharing, and it is easy to configure and operate for every user.

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### **Purpose**

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This manual discusses how to install the IEEE 802.11g Wireless Broadband Router.

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### **Terms/Usage**

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In this guide, the term “the WLAN Router” refers to your IEEE 802.11g Wireless Broadband Router.

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### **Overview of this User’s Guide**

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**Introduction.** Describes the IEEE 802.11g Wireless Broadband Router and its features.

**Unpacking and Setup.** Helps you get started with the basic installation of the IEEE 802.11g Wireless Broadband Router.

**Identifying External Components.** Describes the front panel, rear panel and LED indicators of the IEEE 802.11g Wireless Broadband Router.

**Connecting the WLAN Router.** Tells how you can connect the IEEE 802.11g Wireless Broadband Router to your xDSL/Cable Modem.

**Technical Specifications.** Lists the technical (general, physical and environmental, performance and Routers settings) specifications of the IEEE 802.11g Wireless Broadband Router.

**Note:** Please run the CD-ROM and follow the steps in the Quick Installation Guide first to setup your router. If you still have problems after doing so then proceed to the following paragraphs to install the router with web-based configuration.

## ***INTRODUCTION***

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With the explosive growth of the Internet, accessing information and services at any time, day or night has become a standard requirement for most people. The era of the standalone PC is waning. Networking technology is moving out of the exclusive domain of corporations and into homes with at least two computers.

This integrated access device combines Internet gateway functions with wireless LAN and Fast Ethernet switch. Designed for the business and home, it saves you the cost of installing a separate modem and ISP line for each computer, while providing ready connection for the users, with or without the network wires.

Broadband network access is also gaining ground. However, allowing more than two computers to access the Internet at the same time means less affordable, higher costs. Thus, there is a need to share one public IP address over a single Internet connection to link the home with the Internet.

The scarcity of IP addresses and using a shared Internet connection through an Internet sharing device can solve high network access costs. All linked computers can make full use of broadband capabilities over such a device.

This device not only comes equipped with a wide range of features, but also can be installed and configured right out of the box. This device supports a simple local area network and Internet access share, offering great cost savings.

The local area network connects home computers while also allowing any of the computers to access the Internet, share resources, or play online games—the basis of the family computing lifestyle.

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### **Applications:**

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#### **Broadband Internet access:**

Several computers can share one high-speed broadband connection through wireless or wired (WLAN, LAN and WAN-Internet).

#### **Resource sharing:**

Share resources such as printers, scanners and other peripherals.

#### **File sharing:**

Exchange data, messages, and distribute files thus making good use of hard disk space.

#### **Online gaming:**

Through the local area network, online gaming and e-commerce services can be easily setup.

#### **Firewall:**

A built-in firewall function — for security and anti-hacking systems.

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## **Supported Features:**

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- High speed data transfer rate
- NAT for sharing 1 IP address to all LAN/WLAN users.
- PPPoE and PPTP protocol for Dial-Up ADSL.
- 64/128 bit WEP Encryption
- WPA-PSK, WPA2-PSK, WPA, WPA2 security
- DHCP Server / Client.
- UPnP (Universal Plug and Play).
- WMM (Wi-Fi Multimedia Quality of Service)
- WPS (Wi-Fi Protected Setup)
- Virtual Server mapping.
- Packet filtering.
- Protocol filtering
- Domain filtering
- DNS
- Simple Firewall protection.
- Upgradeable firmware for future function.
- Simple installation using Setup Wizard.
- Easy configuration via Web Browser.

## ***UNPACKING AND SETUP***

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This chapter provides unpacking and setup information for the IEEE 802.11g Wireless Broadband Router.

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### **Unpacking**

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Open the box of the WLAN Router and carefully unpack it. The box should contain the following items:

- ◆ One IEEE 802.11g Wireless Broadband Router
- ◆ One Easy Go Installation CD
- ◆ One Multi-Language Quick Installation Guide
- ◆ One 2dBi gain dipole antenna
- ◆ One external power adapter

If any item is found missing or damaged, please contact your local reseller for replacement.

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### **Setup**

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The setup of the WLAN Router can be performed properly using the following methods:

- ◆ The power outlet should be within 1.82 meters (6 feet) of the Broadband Router.
- ◆ Visually inspect the DC power jack and make sure that it is fully secured to the power adapter.
- ◆ Make sure that there is proper heat dissipation and adequate ventilation around the Broadband Router. Do not place heavy objects on the Broadband Router.
- ◆ Fix the direction of the antennas. Try to place the Wireless Router in a position that can best cover your wireless network. Normally, the higher you place the antenna, the better the performance will be. The antenna's position enhances the receiving sensitivity.

# ***HARDWARE INSTALLATION***

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## **Front Panel**

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The figure below shows the front panel of the IEEE 802.11g Wireless Broadband Router.



**Front Panel**

## **SYSTEM**

This indicator blinking green means the WLAN Router is working successfully. Otherwise, this indicator always on or off means the function of the WLAN Router has failed.

## **WAN (Link/ACT)**

The indicators light green when the WAN port is connected to a xDSL/Cable modem successfully.

The indicators blink green while the WAN port was transmitting or receiving data from the xDSL/Cable modem.

## **WLAN (ACT)**

This indicator lights green when there are wireless devices connected and transmitting data to the WLAN Router.

## **LAN (Link/ACT)**

These indicators light green when the LAN ports were connected successfully. These indicators blinking green while the LAN ports were accessing data.

## **WPS**

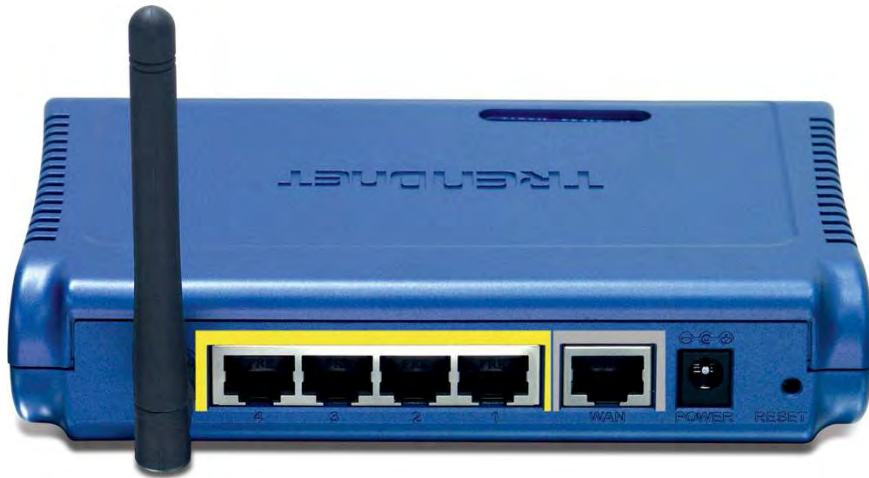
Push this button to execute the Wi-Fi protected Setup process.

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## Rear Panel

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The figure below shows the rear panel of the IEEE 802.11g Wireless Broadband Router.



**Rear Panel**

### **Antenna**

There is one 2dBi gain antenna on the rear panel for wireless connection.

### **LAN (1-4)**

Four RJ-45 10/100Mbps Auto-MDIX ports for connecting to either 10Mbps or 100Mbps Ethernet connections.

### **WAN**

In the four port broadband Router, there is an RJ-45 10/100Mbps Auto-MDIX port for the WAN that connects to the xDSL/Cable modem for Internet connectivity.

### **POWER**

Plug the power adapter to this power jack

### **RESET**

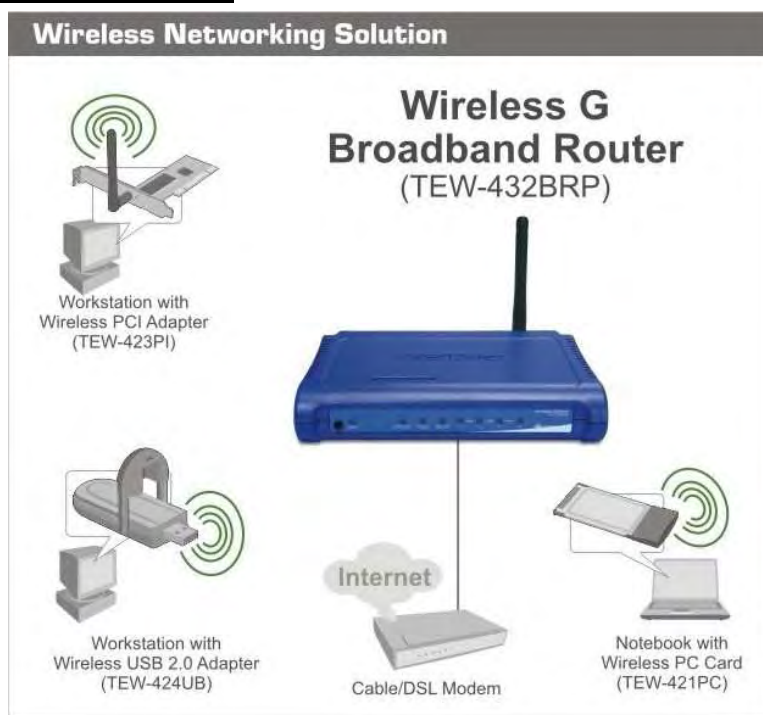
Use a pin-shaped item to push to reset this device to factory default settings. It will be a useful tool when the manager forgot the password to login, and needs to restore the device back to default settings.

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## Hardware connections

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### Connecting the WLAN Router



1. Plug in one end of the network cable to the WAN port of the WLAN Router.
2. Plug in the other end of the network cable to the Ethernet port of the xDSL or Cable modem.
3. Use another network cable to connect to the Ethernet card on the computer system; the other end of the cable connects to the LAN port of the WLAN Router. Since the IEEE 802.11g Wireless Broadband Router has four ports, you can connect up to four computers directly to the unit. Then you do not have to buy a switch to connect these computers since one WLAN Router functions both as a connection-sharing unit and as a switch.

### Check the installation

The control LEDs of the WLAN Router are clearly visible and the status of the network link can be seen instantly:

1. With the power source on, once the device is connected to the broadband modem, the Power, System, LAN, WLAN and WAN port LEDs of the WLAN Router will light up indicating a normal status.
2. When the WAN Port is connected to the ADSL/Cable modem, the WAN LED will light up.
3. When the LAN Port is connected to the computer system, the LAN LED will light up.



## PC NETWORK TCP/IP SETTING

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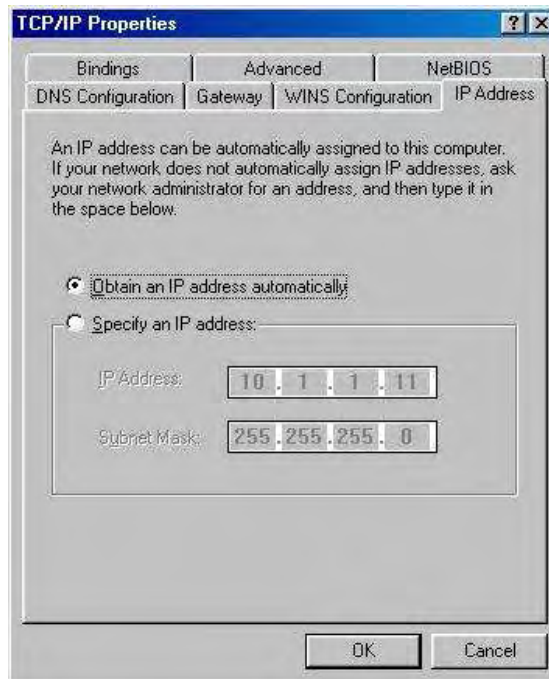
The network TCP/IP settings differ based on the computer's operating system (Win95/98/ME/NT/2000/XP) and are as follows.

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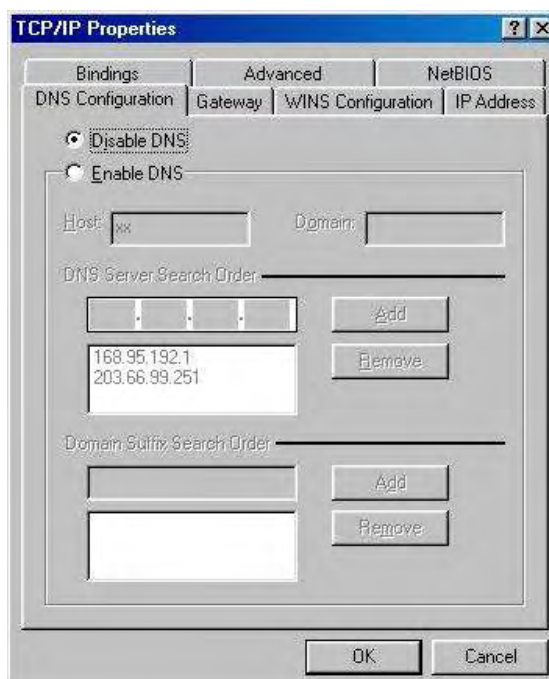
### Windows 95/98/ME

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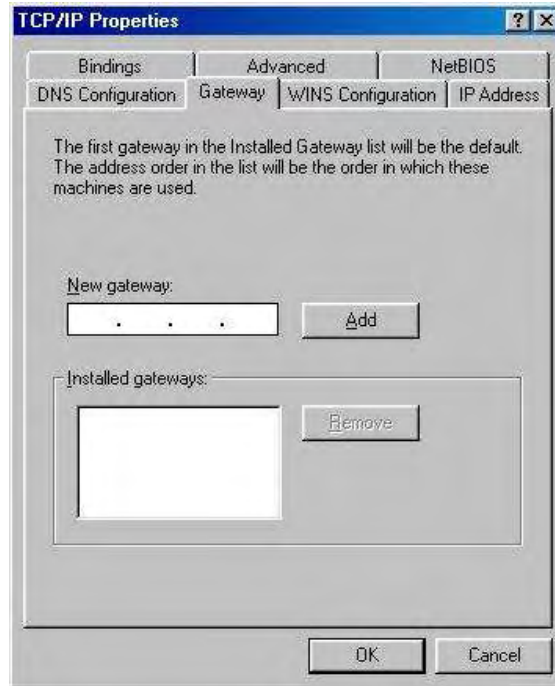
1. Click on the “**Network neighborhood**” icon found on the desktop.
2. Click the right mouse button and a context menu will be show.
3. Select “**Properties**” to enter the TCP/IP setting screen.
4. Select “**Obtain an IP address automatically**” on the “**IP address**” field.



5. Select “**Disable DNS**” in the “**DNS**” field.



6. Select **“None”** for the **“Gateway address”** field.



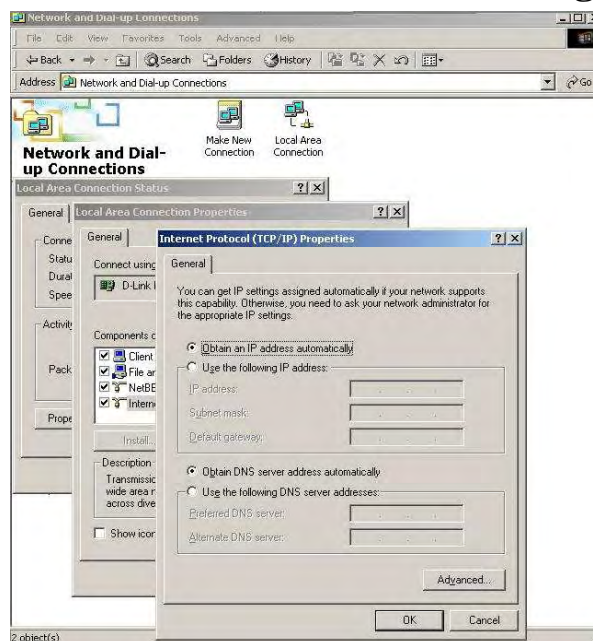
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## Windows 2000

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Double click on the **“My Computer”** icon on the desktop. When **“My Computer”** window opens, open the **“Control Panel”** and then open the **“Network dialup connection”** applet. Double click on the **“Local area network connection”** icon. Select **“Properties”** to enter the TCP/IP setting window.

1. In the **“Local area network status”** window, click on **“Properties.”**
2. In the **“Local area network connection”** window, first select TCP/IP setting and then select **“Properties.”**
3. Set both **“IP address”** and **“DNS”** to **Automatic configuration.**



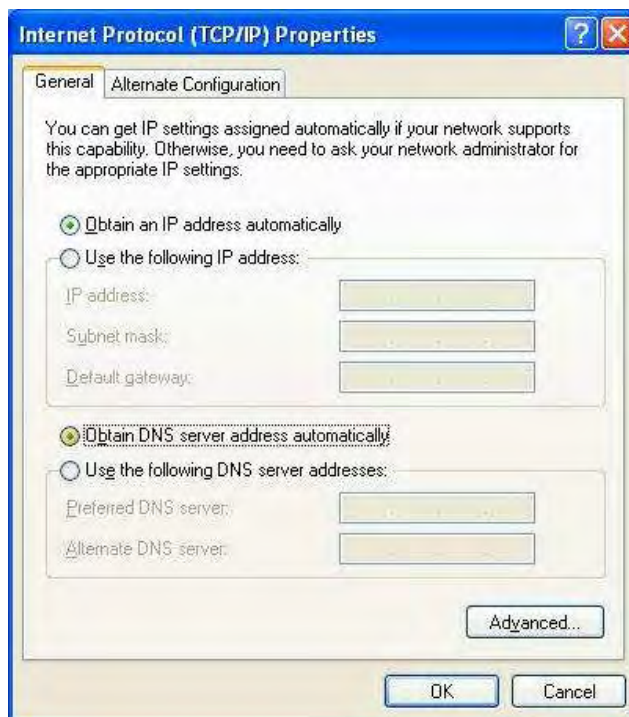
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## Windows XP

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Point the cursor and click the right button on the “My Network Place” icon. Select “properties” to enter the TCP/IP setting window.

1. Set “**IP address**” to “**Obtain an IP address automatically.**”
2. Set “**DNS**” to “**Obtain DNS server address automatically.**”



## ***CONFIGURATION***

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First make sure that the network connections are functioning normally.

This WLAN Router can be configured using Internet Explorer 5.0 or newer web browser versions.

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### **Login to the WLAN Router through Wireless LAN**

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Before configuring the WLAN Router through WLAN, make sure that the SSID, Channel and the WEP is set properly.

The default setting of the WLAN Router that you will use:

- ✓ SSID: TRENDnet
  - ✓ Channel: Auto
  - ✓ Security: disable
- 

### **Login to the WLAN Router**

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Before you configure this device, note that when the WLAN Router, make sure the host PC must be set on the **IP subnet** that can be accessed by the xDSL/Cable modem. For example, when the default network address of the xDSL/Cable modem Ethernet interface is 192.168.10.x, then the host PC should be set at 192.168.10.xxx (where xxx is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

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### **Using the Web Browser**

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1. Open Internet Explorer 5.0 or above Internet browser.
2. Enter IP address <http://192.168.10.1> (the factory-default IP address setting) to the URL web address location.



3. When the following dialog box appears, enter the user name and password to login to the main configuration window, the default username and password is "*admin*".



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## Setup Wizard

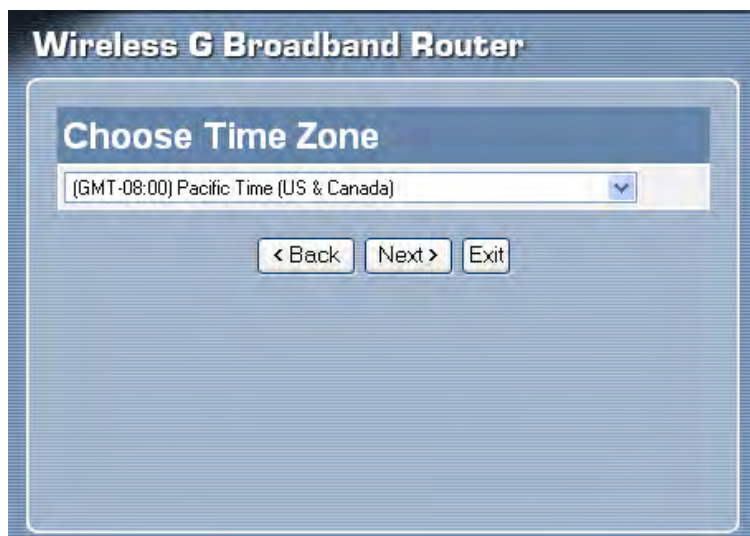
---

Setup wizard is provided as part of the web configuration utility. User can simply follow the step-by-step process to get the wireless Router configuration ready to run in 5 easy steps by clicking on the “Wizard” button on the function menu. The following screen will appear. Please click “Next” to continue.



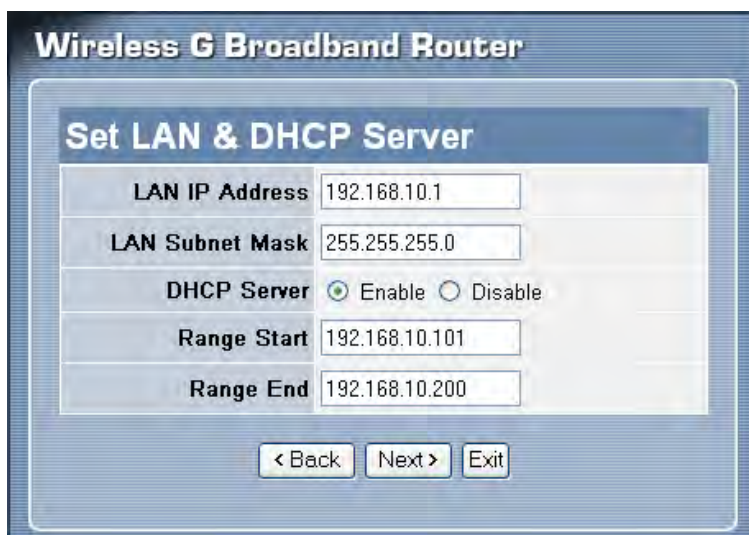
Step 1: Choose time zone

Select the time zone from the drop down list. Please click “Next” to continue.



## Step 2: Set LAN connection and DHCP server

Set user's IP address and mask. The default IP is 192.168.10.1. If the user chooses to enable DHCP, please click "Enable". DHCP enabled is able to automatically assign IP addresses. Please assign the range of IP addresses in the fields of "Range start" and "Range end". Please click "Next" to continue.



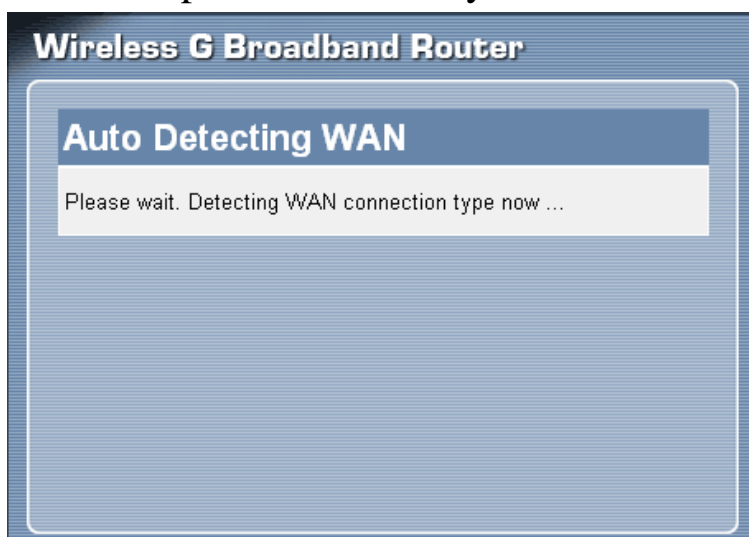
The screenshot shows the configuration interface for a Wireless G Broadband Router. The title is "Wireless G Broadband Router" and the sub-header is "Set LAN & DHCP Server". The form contains the following fields and options:

|                 |   |
|-----------------|---|
| LAN IP Address  | 192.168.10.1  |
| LAN Subnet Mask | 255.255.255.0   |
| DHCP Server     | <input checked="" type="radio"/> Enable <input type="radio"/> Disable |
| Range Start     | 192.168.10.101  |
| Range End       | 192.168.10.200  |

At the bottom of the form, there are three buttons: "< Back", "Next >", and "Exit".

## Step 3: Set Internet connection

The WLAN Router will attempt to auto detect your Internet Connection.



The screenshot shows the "Auto Detecting WAN" status page on the Wireless G Broadband Router. The title is "Wireless G Broadband Router" and the sub-header is "Auto Detecting WAN". The main content area displays the message: "Please wait. Detecting WAN connection type now ...".

If the WLAN Router is unable to auto detect your Internet connection, you will need to manually select the Internet connection type: PPPoE to obtain IP automatically; PPPoE with a fixed IP address; PPTP.

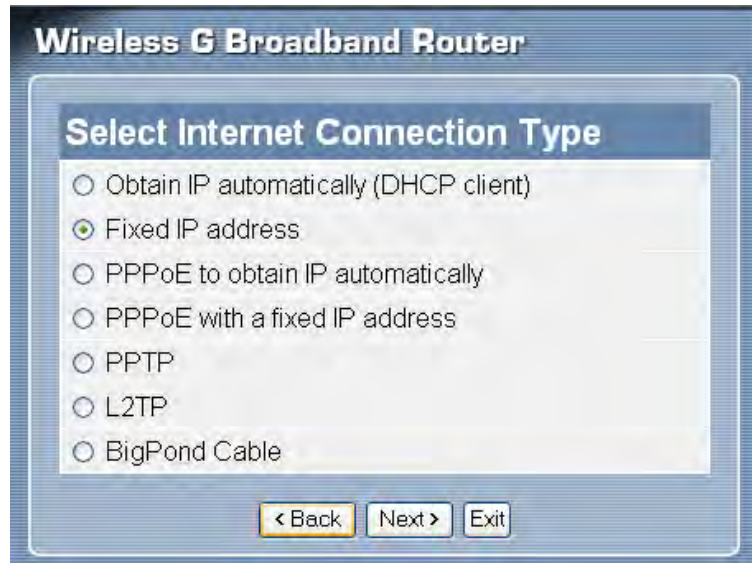
Obtain IP automatically (DHCP client):

The screenshot shows the 'Wireless G Broadband Router' configuration interface. The main heading is 'Select Internet Connection Type'. Below this heading, there is a list of seven radio button options: 'Obtain IP automatically (DHCP client)', 'Fixed IP address', 'PPPoE to obtain IP automatically', 'PPPoE with a fixed IP address', 'PPTP', 'L2TP', and 'BigPond Cable'. The first option, 'Obtain IP automatically (DHCP client)', is selected. At the bottom of the form, there are three buttons: '< Back', 'Next >', and 'Exit'.

If the user has enabled DHCP server, choose "Obtain IP automatically (DHCP client)" to have the WLAN Router assign IP addresses automatically.

The screenshot shows the 'Wireless G Broadband Router' configuration interface. The main heading is 'Set Dynamic IP Address'. Below this heading, there are two sections: 'Host Name' and 'MAC'. The 'Host Name' section has a text input field containing 'TRENDnet' and the label '(optional)'. The 'MAC' section has a text input field containing '00 - 17 - 9a - 81 - 86 - b2' and the label '(optional)'. Below the MAC input field, there is a button labeled 'Clone MAC Address'. At the bottom of the form, there are three buttons: '< Back', 'Next >', and 'Exit'.

## Fixed IP Address:



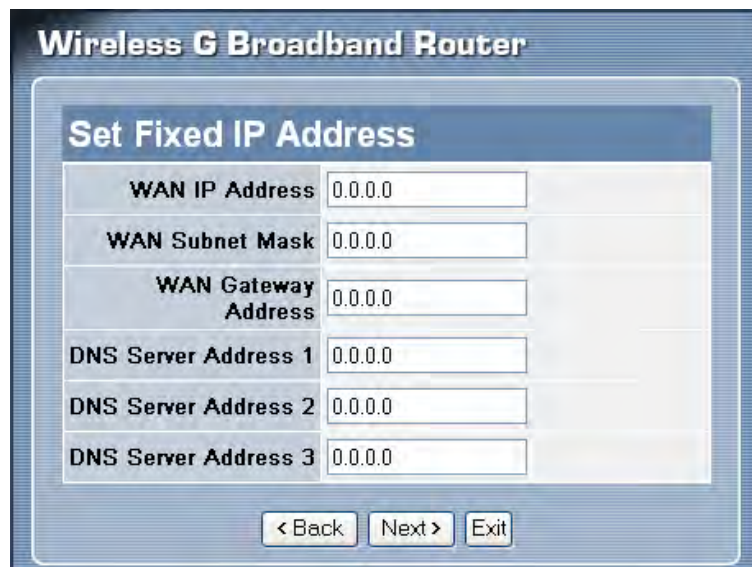
**Wireless G Broadband Router**

**Select Internet Connection Type**

- Obtain IP automatically (DHCP client)
- Fixed IP address
- PPPoE to obtain IP automatically
- PPPoE with a fixed IP address
- PPTP
- L2TP
- BigPond Cable

< Back   Next >   Exit

If the Internet Service Provider (ISP) assigns a fixed IP address, choose this option and enter the assigned WAN IP Address, WAN Subnet Mask, WAN Gateway Address and DNS Server Addresses for the WLAN Router.



**Wireless G Broadband Router**

**Set Fixed IP Address**

|                      |         |
|----------------------|---------|
| WAN IP Address       | 0.0.0.0 |
| WAN Subnet Mask      | 0.0.0.0 |
| WAN Gateway Address  | 0.0.0.0 |
| DNS Server Address 1 | 0.0.0.0 |
| DNS Server Address 2 | 0.0.0.0 |
| DNS Server Address 3 | 0.0.0.0 |

< Back   Next >   Exit



PPPoE to obtain IP automatically:

**Wireless G Broadband Router**

**Select Internet Connection Type**

- Obtain IP automatically (DHCP client)
- Fixed IP address
- PPPoE to obtain IP automatically
- PPPoE with a fixed IP address
- PPTP
- L2TP
- BigPond Cable

< Back   Next >   Exit

If connected to the Internet using a PPPoE (Dial-up xDSL) connection, and the ISP provides a User Name and Password, then choose this option and enter the required information.

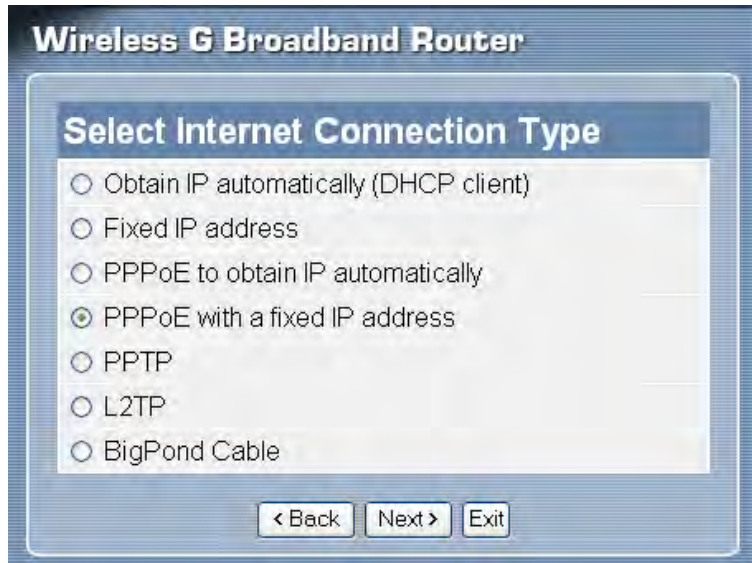
**Wireless G Broadband Router**

**Set PPPoE to obtain IP automatically IP**

|                 |                          |
|-----------------|--------------------------|
| User Name       | <input type="text"/>     |
| Password        | <input type="password"/> |
| Verify Password | <input type="password"/> |

< Back   Next >   Exit

PPPoE with a fixed IP address:



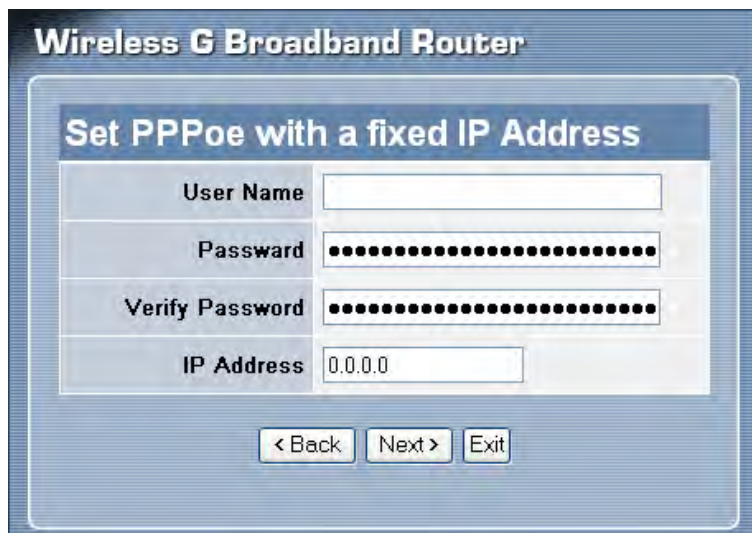
**Wireless G Broadband Router**

**Select Internet Connection Type**

- Obtain IP automatically (DHCP client)
- Fixed IP address
- PPPoE to obtain IP automatically
- PPPoE with a fixed IP address
- PPTP
- L2TP
- BigPond Cable

< Back   Next >   Exit

If connected to the Internet using a PPPoE (Dial-up xDSL) connection, and the ISP provides a User Name, Password and a Fixed IP Address, choose this option and enter the required information.



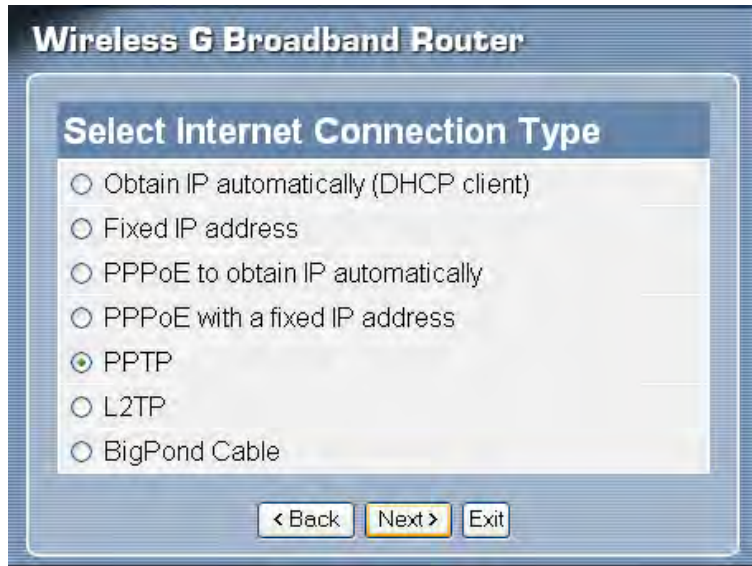
**Wireless G Broadband Router**

**Set PPPoe with a fixed IP Address**

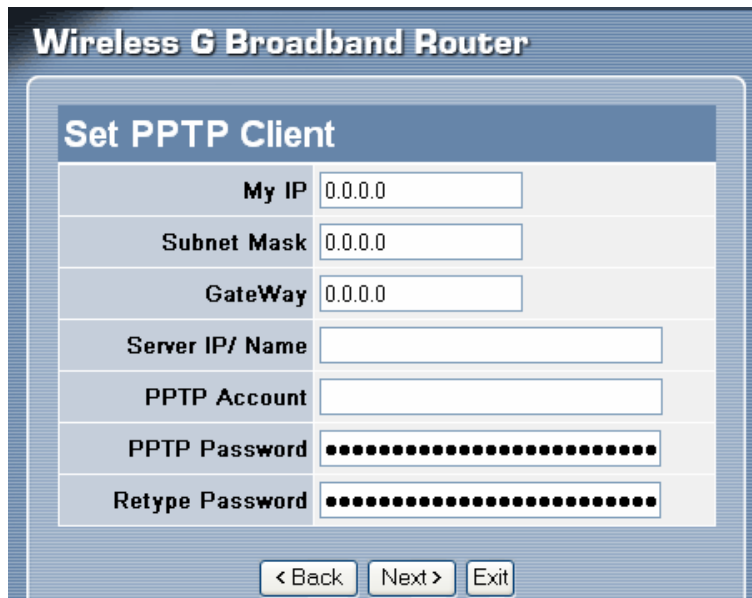
|                 |                                      |
|-----------------|--------------------------------------|
| User Name       | <input type="text"/>                 |
| Password        | <input type="password"/>             |
| Verify Password | <input type="password"/>             |
| IP Address      | <input type="text" value="0.0.0.0"/> |

< Back   Next >   Exit

PPTP:



If connected to the Internet using a PPTP xDSL connection, enter your IP, Subnet Mask, Gateway, Server IP, PPTP Account and PPTP Password.



## L2TP:

**Wireless G Broadband Router**

**Select Internet Connection Type**

- Obtain IP automatically (DHCP client)
- Fixed IP address
- PPPoE to obtain IP automatically
- PPPoE with a fixed IP address
- PPTP
- L2TP
- BigPond Cable

< Back   Next >   Exit

If connected to the Internet using a L2TP (Dial-up xDSL) connection and the ISP provides a Server IP, Account and Password information, choose this option and enter the required information.

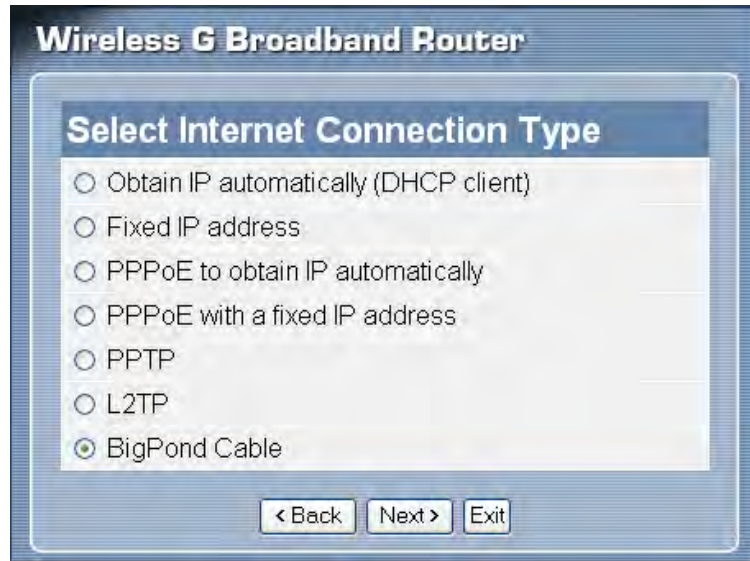
**Wireless G Broadband Router**

**Set L2TP Client**

|                 |                          |
|-----------------|--------------------------|
| Server IP/ Name | <input type="text"/>     |
| L2TP Account    | <input type="text"/>     |
| L2TP Password   | <input type="password"/> |
| Retype Password | <input type="password"/> |

< Back   Next >   Exit

## Big Pond Cable(Australia):



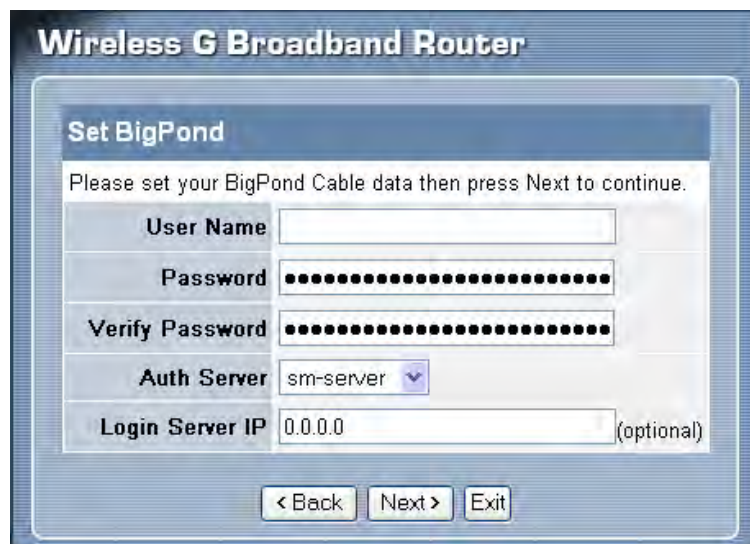
**Wireless G Broadband Router**

**Select Internet Connection Type**

- Obtain IP automatically (DHCP client)
- Fixed IP address
- PPPoE to obtain IP automatically
- PPPoE with a fixed IP address
- PPTP
- L2TP
- BigPond Cable

< Back   Next >   Exit

If your ISP is Big Pond Cable, the ISP will provide a User Name, Password, Authentication Server and Login Server IP (Optional). Choose this option and enter the required information.



**Wireless G Broadband Router**

**Set BigPond**

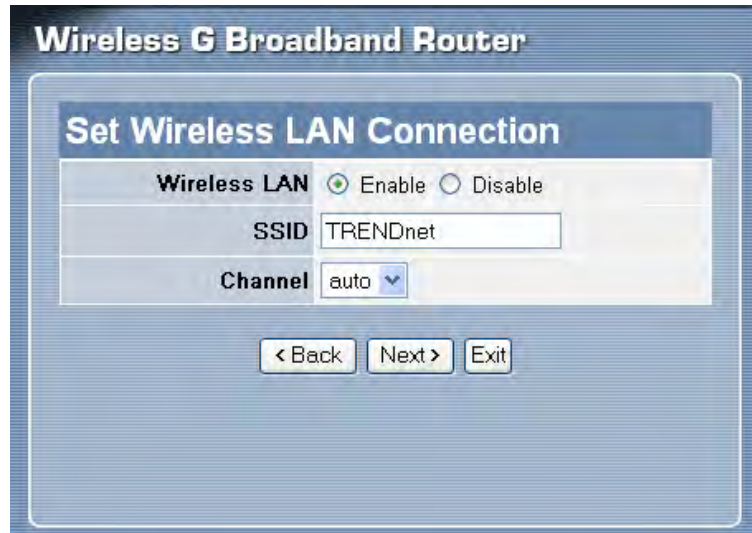
Please set your BigPond Cable data then press Next to continue.

|                        |   |
|------------------------|---|
| <b>User Name</b>       | <input type="text"/>                            |
| <b>Password</b>        | <input type="password"/>                        |
| <b>Verify Password</b> | <input type="password"/>                        |
| <b>Auth Server</b>     | sm-server <input type="button" value="v"/>      |
| <b>Login Server IP</b> | <input type="text" value="0.0.0.0"/> (optional) |

< Back   Next >   Exit

#### Step 4: Set Wireless LAN connection

Click “Enable” to enable Wireless LAN. If user enables the Wireless LAN, type the SSID in the text box and select a communications channel. The SSID and channel must be the same as wireless devices attempting to connect to the WLAN Router.



Wireless G Broadband Router

### Set Wireless LAN Connection

|              |   |
|--------------|---|
| Wireless LAN | <input checked="" type="radio"/> Enable <input type="radio"/> Disable |
| SSID         | TRENDnet  |
| Channel      | auto  |

< Back   Next >   Exit

#### Step 5: Setup completed

The Setup wizard is now completed. The new settings will be effective after the WLAN Router restarts. Please click “Restart” to reboot the WLAN Router. If user does not want to make any changes, please click “Exit” to quit without any changes. User also can go back to modify the setting by clicking “Back”.



Wireless G Broadband Router

### Setup Completed

Click "Restart" button to save the settings and restart Wireless Router.

< Back   Restart   Exit

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## Advanced configuration

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### Main

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The screen enables users to configure the LAN & DHCP Server, set WAN parameters, create Administrator and User passwords, and set the local time, time zone, and dynamic DNS.

### LAN & DHCP Server

This page allows the user to configure LAN and DHCP properties, such as the host name, IP address, subnet mask, and domain name. LAN and DHCP profiles are listed in the DHCP table at the bottom of the screen.

The screenshot shows the configuration interface for a TRENDnet Wireless G Broadband Router (TEW-432BRP). The page is titled "LAN & DHCP Server" and includes a "HELP" button. The configuration fields are as follows:

- Host Name: TRENDnet
- IP Address: 192.168.10.1
- Subnet Mask: 255.255.255.0
- DHCP Server:  Enabled  Disabled
- Start IP: 192.168.10.101
- End IP: 192.168.10.200
- Domain Name: Trendnet
- Lease Time: 1 Week
- Static DHCP:  Enabled  Disabled

Below these fields are "Cancel" and "Apply" buttons. There is also a section for adding static DHCP entries with fields for Name, IP Address, and MAC Address, and buttons for "Add", "Update", "Delete", and "Cancel".

At the bottom, there are two tables for DHCP lists:

| Static DHCP List |            |             |
|------------------|------------|-------------|
| Host Name        | IP Address | MAC Address |

| Dynamic DHCP List |            |             |              |
|-------------------|------------|-------------|--------------|
| Host Name         | IP Address | MAC Address | Expired Time |

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**Host Name:** Type the host name in the text box. The host name is required by some ISPs. The default host name is "AP-Router."

**IP Address:** This is the IP address of the WLAN Router. The default IP address is 192.168.10.1.

**Subnet Mask:** Type the subnet mask for the WLAN Router in the text box. The default subnet mask is 255.255.255.0.

**DHCP Server:** Enables the DHCP server to allow the WLAN Router to automatically assign IP addresses to devices connecting to the LAN. DHCP is enabled by default.

All DHCP client computers are listed in the table at the bottom of the screen, providing the host name, IP address, and MAC address of the client.

**Start IP:** Type an IP address to serve as the start of the IP range that DHCP will use to assign IP addresses to all LAN devices connected to the WLAN Router.

**End IP:** Type an IP address to serve as the end of the IP range that DHCP will use to assign IP addresses to all LAN devices connected to the WLAN Router.

**Domain Name:** Type the local domain name of the network in the text box. This item is optional.

**Lease Time:** The lease time specifies the amount of connection time a network user be allowed with their current dynamic IP address.

## WAN

This screen enables users to set up the WLAN Router WAN connection, specify the IP address for the WAN, add DNS numbers, and enter the MAC address.



The screenshot shows the WAN configuration interface for a TrendNet Wireless G Broadband Router (TEW-432BRP). The interface is divided into a left sidebar and a main configuration area. The sidebar contains a 'Main' menu with options: LAN & DHCP Server, WAN, Password, Time, and Dynamic DNS. Below this are buttons for 'Wireless', 'Status', 'Routing', 'Access', 'Management', 'Tools', and 'Wizard'. The main configuration area is titled 'WAN' and includes a 'HELP' button. It features a 'Connection Type' dropdown menu set to 'DHCP Client or Fixed IP'. Under 'WAN IP', there are two radio buttons: 'Obtain IP Automatically' (selected) and 'Specify IP'. The 'Specify IP' section includes input fields for 'IP Address', 'Subnet Mask', and 'Default Gateway', all currently set to '0.0.0.0'. Below this are three 'DNS' fields, each set to '0.0.0.0'. The 'MAC Address' section shows a hexadecimal address '00 - 17 - 9a - 81 - 86 - b2' and a 'Clone MAC Address' button. At the bottom of the configuration area are 'Cancel' and 'Apply' buttons. A copyright notice 'Copyright © 2006 TRENDnet. All Rights Reserved.' is visible at the bottom right of the interface.

**Connection Type:** Select the connection type, either DHCP client, Fixed IP, PPPoE, PPTP, L2TP or BigPond Cable from the drop-down list.



**WAN IP:** Select whether user wants to specify an IP address manually, or want DHCP to obtain an IP address automatically. When Specify IP is selected, type the IP address, subnet mask, and default gateway in the text boxes. User's ISP will provide with this information.

**DNS 1/2/3:** Type up to three DNS numbers in the text boxes. User's ISP will provide this information.

**MAC Address:** If required by user's ISP, type the MAC address of the WLAN Router WAN interface in this field.

### **Password**

This screen enables users to set administrative and user passwords. These passwords are used to gain access to the WLAN Router interface.

The screenshot shows the 'Password' configuration page for a Trendnet Wireless G Broadband Router (TEW-432BRP). The page is divided into two main sections: 'Administrator' and 'User'. Each section has a 'New Password' field and a 'Confirm Password' field. The Administrator section is for the login name 'admin' and the User section is for the login name 'user'. There are 'Cancel' and 'Apply' buttons at the bottom of the form. A sidebar on the left contains navigation buttons for Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The top right corner of the page displays 'Wireless G Broadband Router TEW-432BRP' and the Trendnet logo is in the top left. A copyright notice 'Copyright © 2006 TRENDnet. All Rights Reserved.' is at the bottom right.

**Administrator:** Type the password the Administrator will use to log into the system. The password must be typed again for confirmation. The Administrator can also authorize users the ability to configure the WLAN Router.

**User:** Type the password the User will use to log in to the system. The password must be typed again for confirmation.

## Time

This screen enables users to set the time and date for the WLAN Router's real-time clock, select properly time zone, and enable or disable daylight saving.

The screenshot displays the 'Time' configuration page of a TRENDnet Wireless G Broadband Router (TEW-432BRP). The interface includes a navigation menu on the left with options like Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The main content area is titled 'Time' and contains several sections: 'Local Time' showing 'Aug/10/2007 15:31:40'; 'Time Zone' with a dropdown menu set to '(GMT-08:00) Pacific Time (US & Canada)'; 'Synchronize the clock with' with a dropdown menu set to 'Manual'; 'Default NTP server' with an empty text box; 'Set the time' with dropdown menus for Year (2007), Month (Aug), Day (10), Hour (15), Minute (31), and Second (40), along with a 'SetTime' button; and 'Daylight Saving' with radio buttons for 'Enabled' and 'Disabled' (selected), and dropdown menus for Start (Jan 01) and End (Jan 01) dates. 'Cancel' and 'Apply' buttons are at the bottom of the section. A 'HELP' button is located in the top right corner of the Time section. The copyright notice 'Copyright © 2006 TRENDnet. All Rights Reserved.' is visible at the bottom right of the page.

**Local Time:** Displays the local time and date.

**Time Zone:** Select the time zone from the drop-down list.

**Synchronize the clock with:** Select the clock adjustment method from the drop-down list.

Automatic: Automatically adjust the system time from NTP Server.

Manual: Manually adjust the system time when you press the *Set Time* button.

**Default NTP server:** The Simple Network Time Protocol (SNTP) server allows the WLAN Router to synchronize the system clock to the global Internet through the SNTP Server. Specify the NTP domain name or IP address in the text box.

**Set the time:** Manually setting the WLAN Router system time, press the *Set Time* button to update the system time.

**Daylight Saving:** Enables users to enable or disable daylight saving time. When enabled, select the start and end date for daylight saving time.

## Dynamic DNS

This synchronizes the DDNS server with your current Public IP address when you are online. First, you need to register your preferred DNS with the DDNS provider. Then, please select the DDNS address in the Server Address and fill the related information in the below fields: Host Name, User Name and Password.

The image shows the configuration interface for Dynamic DNS on a Trendnet Wireless G Broadband Router (TEW-432BRP). The interface is in a blue-themed web browser window. On the left is a navigation menu with buttons for Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The 'Main' menu is expanded to show sub-items: LAN & DHCP Server, WAN, Password, Time, and Dynamic DNS. The 'Dynamic DNS' sub-item is selected. The main content area is titled 'Dynamic DNS' and contains the following fields and controls:

- DDNS:** Radio buttons for 'Enabled' and 'Disabled'. The 'Disabled' option is selected.
- Server Address:** A dropdown menu currently showing 'DynDns.org'.
- Host Name:** An empty text input field.
- User Name:** An empty text input field.
- Password:** A text input field filled with 15 dots for masking.
- Buttons:** 'Cancel' and 'Apply' buttons are located at the bottom of the form.

At the bottom right of the interface, there is a copyright notice: 'Copyright © 2006 TRENDnet. All Rights Reserved.'

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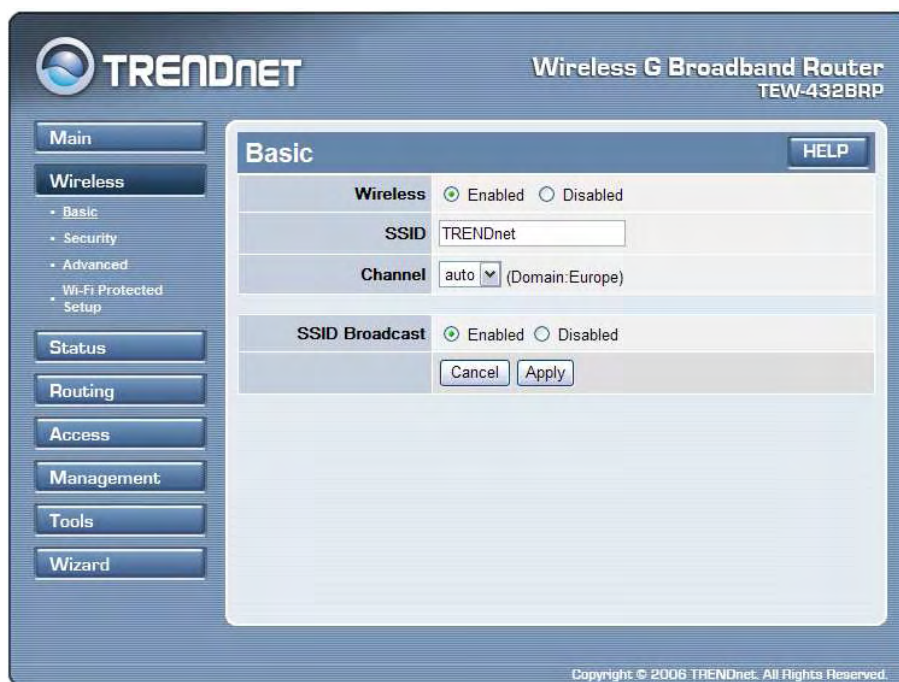
## Wireless

---

This section enables users to configuration the wireless communications parameters for the WLAN Router.

### Basic

This page allow user to enable and disable the wireless LAN function, create a SSID, and select the channel for wireless communications.



**Enable/Disable:** Enables or disables wireless LAN via the WLAN Router.

**SSID:** Type an SSID in the text box. The SSID of any wireless device must match the SSID typed here in order for the wireless device to access the LAN and WAN via the WLAN Router.

**Channel:** Select a transmission channel for wireless communications. The channel of any wireless device must match the channel selected here in order for the wireless device to access the LAN and WAN via the WLAN Router.

*Note: For FCC Domain device, you can only select Channel 1 ~ 11 in Ad-Hoc mode.*

**SSID Broadcast:** While SSID Broadcast is enabled, all wireless clients will be able to view the WLAN Router's SSID. For security purposes, users may want to disable SSID Broadcast to ensure only authorized clients have access.

## Security



**Authentication Type:** The authentication type default is set to open system. There are four options: Disabled, WEP, WPA, WPA2 and WPA-Auto.

### WEP Encryption



**WEP:** Open System and Shared Key requires the user to set a WEP key to exchange data with other wireless clients that have the same WEP key..

**Mode:** Select the key type: ASCII or HEX

**WEP Key:** Select the level of encryption from the drop-down list. The WLAN Router supports, 64 and 128-bit encryption.

**Key 1 ~ Key 4:** Enables users to create up to 4 different WEP keys. Manually enter a set of values for each key. Select a key to use by clicking the radio button next to the key.

## **WPA/WPA2/WPA-Auto Security**



If WPA, WPA2 or WPA-Auto EAP is selected, the above screen is shown. Please set the length of the encryption key and the parameters for the RADIUS server.

**Cipher Type:** Select the cipher type for TKIP or AES encryption, Selected Auto for auto detects the cipher type.

### **RADIUS Server:**

1. Enter the IP address, Port used and Shared Secret by the Primary Radius Server.
2. Enter the IP address, Port used and Shared Secret by the Secondary Radius Server. (optional)

## WPA-PSK/WPA2-PSK Security

If WPA, WPA2 or WPA-Auto PSK is selected.

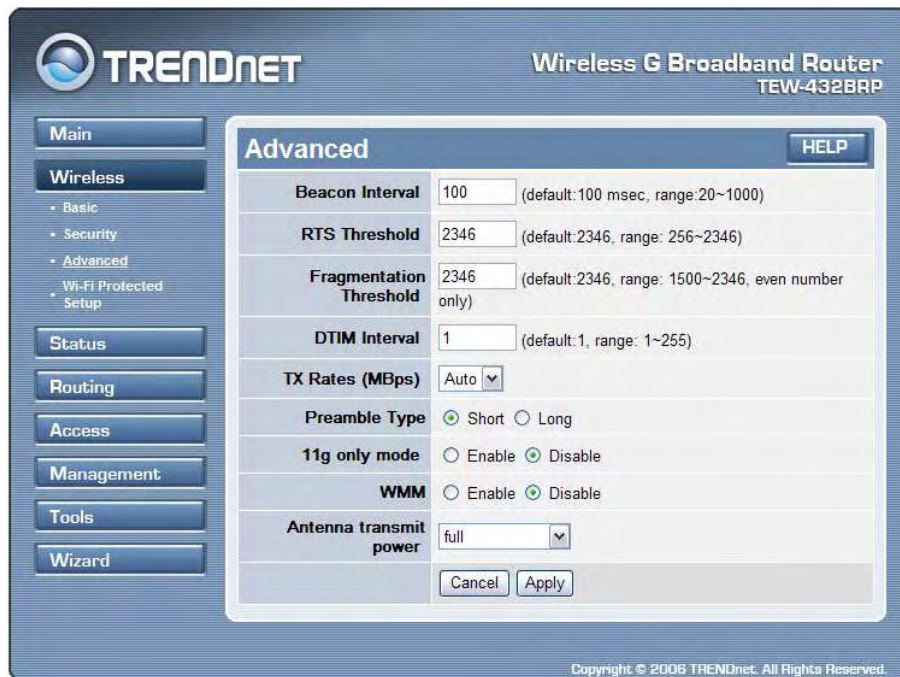


**Cipher Type:** Select the cipher type for TKIP or AES encryption, Selected Auto for auto detects the cipher type.

**Passphrase:** The length should be 8 characters at least.

## Advanced

This screen enables users to configure advanced wireless functions.



**Beacon Interval:** Type the beacon interval in the text box. User can specify a value from 20 to 1000. The default beacon interval is 100.

**RTS Threshold:** Type the RTS (Request-To-Send) threshold in the text box. This value stabilizes data flow. If data flow is irregular, choose values between 256 and 2346 until data flow is normalized.

**Fragmentation Threshold:** Type the fragmentation threshold in the text box. If packet transfer error rates are high, choose values between 1500 and 2346 until packet transfer rates are minimized. (NOTE: set this fragmentation threshold value may diminish system performance.)

**DTIM Interval:** Type a DTIM (Delivery Traffic Indication Message) interval in the text box. User can specify a value between 1 and 255. The default value is 1.

**TX Rates (Mbps):** Select one of the wireless communications transfer rates, measured in megabytes per second, based upon the speed of wireless adapters connected to the WLAN.

**Preamble Type:** The usage of the preamble is to limit the packet size of the data to transmit. It is recommended to choose the short preamble when the link quality is bad, it is to prevent the wasting time of resending a long packet that is lost.

**11g only mode:** If selected the Enable, only allow 802.11g WLAN client communicate with this WLAN Router.

**WMM:** If selected the Enable, the WMM (Wi-Fi Multimedia Quality of Service) feature will be enabled.

**Antenna Transmit Power:** Adjust the power of the antenna transmission by selecting from the drop down list: full, half (-3dB), quarter (-6dB), eighth (-9dB) or min.

Note: Transmit power is regulated by international standard and users are forbidden to change its maximum limit.

## Wi-Fi Protected Setup

This screen enables users to configure the Wi-Fi Protected Setup function.

The screenshot displays the web interface for a Trendnet Wireless G Broadband Router (TEW-432BRP). The page is titled "Wi-Fi Protected Setup" and includes a "HELP" button. The configuration options are as follows:

|                                  |  |
|----------------------------------|--|
| <b>WPS</b>                       | <input checked="" type="radio"/> Enabled <input type="radio"/> Disabled <input type="button" value="Apply"/> |
| <b>Status</b>                    | <input checked="" type="radio"/> UnConfigured <input type="radio"/> Configured                               |
| <b>Self-PIN Number</b>           | 12345670   |
| <b>Client PIN Number</b>         | <input type="text"/> <input type="button" value="Start PIN"/>  |
| <b>Push Button Configuration</b> | <input type="button" value="Start PBC"/>   |

Below these options is a table with three columns: Authentication, Encryption, and Key. The table is currently empty.

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**WPS:** Enable or Disable the WPS (Wi-Fi Protected Setup) function

**Status:** Display the state (Un-configured State/Configured State) information of WPS.



**Self-PIN Number:** Display the default PIN number of WLAN Router.

**Client PIN Number:** Type Client PIN number the client uses to negotiate with WLAN Router via WPS protocol. It is only used when users want their station to join Router's network.

**Push Button Configuration:** Clicking this button will invoke the Push Button Configuration (PBC) method of WPS. It is only used when WLAN Router acts as a Registrar.

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## Status

---

This selection enables users to view the status of the WLAN Router LAN, WAN and Wireless connections, and view logs and statistics pertaining to connections and packet transfers.

### Device Information

This screen enables users to view the WLAN Router's LAN, Wireless and WAN configurations.

The screenshot displays the web interface of a Trendnet Wireless G Broadband Router (TEW-432BRP). The interface is in a blue-themed layout. On the left, there is a navigation menu with buttons for Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The Status menu is expanded, showing sub-options: Device Information (selected), Log, Log Setting, Statistic, and Wireless. The main content area is titled 'Device Information' and includes a 'HELP' button. It shows the 'Firmware Version: 3.00, Tue, 31 Jul 2007'. Below this, there are three sections: WAN, Wireless, and LAN. The WAN section shows MAC Address (00-17-9a-81-86-b2), Connection (DHCP Client Disconnected with DHCP Release and DHCP Renew buttons), IP (0.0.0.0), Subnet Mask (0.0.0.0), Default Gateway (0.0.0.0), and DNS (0.0.0.0). The Wireless section shows Connection (802.11g AP Enable), SSID (TRENDnet), Channel (13), and Authentication (Disabled). The LAN section shows MAC Address (00-17-9A-81-86-B1), IP Address (192.168.10.1), Subnet Mask (255.255.255.0), and DHCP Server (Enable DHCP Table). A copyright notice 'Copyright © 2008 TRENDnet. All Rights Reserved.' is visible at the bottom right of the interface.

**Firmware Version:** Displays the latest build of the WLAN Router firmware interface. After updating the firmware in Tools - Firmware, check this to ensure that the firmware was successfully updated.

**WAN:** This section displays the WAN interface configuration including the MAC address, Connection status, DHCP client status, IP address, Subnet mask, Default gateway, and DNS.

**Wireless:** This section displays the wireless configuration information, including the MAC address, the Connection status, SSID, Channel and Authentication type.

**LAN:** This section displays the LAN interface configuration including the MAC address, IP Address, Subnet Mask, and DHCP Server Status. Click “DHCP Table” to view a list of client stations currently connected to the WLAN Router LAN interface.

Click “*DHCP Release*” to release all IP addresses assigned to client stations connected to the WAN via the WLAN Router. Click “*DHCP Renew*” to reassign IP addresses to client stations connected to the WAN.

### **Log**

This screen enables users to view a running log of Router system statistics, events, and activities. The log displays up to 200 entries. Older entries are overwritten by new entries. The Log screen commands are as follows:

Click “*First Page*” to view the first page of the log

Click “*Last Page*” to view the final page of the log

Click “*Previous Page*” to view the page just before the current page

Click “*Next Page*” to view the page just after the current page

Click “*Clear Log*” to delete the contents of the log and begin a new log

Click “*Refresh*” to renew log statistics

**TRENDnet** Wireless G Broadband Router  
TEW-432BRP

Main  
Wireless  
Status  
• Device Information  
• Log  
• Log Setting  
• Statistic  
• Wireless  
Routing  
Access  
Management  
Tools  
Wizard

**Log** [HELP](#)

[First Page](#)
[Last Page](#)
[Previous Page](#)
[Next Page](#)
[Clear Log](#)

[Refresh](#)

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| Time                    | Message                                    | Source | Destination | Note              |
|-------------------------|--|--------|-------------|-------------------|
| Aug/10/2007<br>16:22:32 | DHCP lease IP 192.168.10.102 to User-Vista |        |             | 00-19-e3-04-0c-05 |
| Aug/10/2007<br>16:22:27 | Wireless PC connected                      |        |             | 00-19-e3-04-0c-05 |
| Aug/10/2007<br>16:22:22 | DHCP Discover no response                  |        |             |                   |
| Aug/10/2007<br>16:22:18 | DHCP Discover                              |        |             |                   |
| Aug/10/2007<br>16:22:16 | DHCP Discover                              |        |             |                   |
| Aug/10/2007<br>16:22:14 | DHCP Discover                              |        |             |                   |
| Aug/10/2007<br>16:21:14 | DHCP Discover no response                  |        |             |                   |
| Aug/10/2007<br>16:21:10 | DHCP Discover                              |        |             |                   |
| Aug/10/2007<br>16:21:08 | DHCP Discover                              |        |             |                   |
| Aug/10/2007<br>16:21:06 | DHCP Discover                              |        |             |                   |

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**Time:** Displays the time and date that the log entry was created.

**Message:** Displays summary information about the log entry.

**Source:** Displays the data source.

**Destination:** Displays the data destination.

**Note:** Displays the IP address of the communication

### Log Setting

This screen enables users to set Router Log parameters.



**SMTP Authentication:** Selected the Enabled if the SMTP server need for authentication, fill in account name and password in SMTP Account field and SMTP Password field.

**SMTP Account:** If the SMTP Authentication enabled, fill in the SMTP account name here.

**SMTP Password:** If the SMTP Authentication enabled, fill in the password of the SMTP account here.

**SMTP Server:** Type your SMTP server address here.

**Send from:** Type an email address for the log to be sent from.

**Send to:** Type an email address for the log to be sent to. Click “Email Log Now” to immediately send the current log.

**Syslog Server:** Type the IP address of the Syslog Server if user wants the WLAN Router to listen and receive incoming Syslog messages.

**Log Type:** Enables users to select what items will be included in the log:

**System Activity:** Displays information related to WLAN Router operation.

**Debug Information:** Displays information related to errors and system malfunctions.

**Attacks:** Displays information about any malicious activity on the network.

**Dropped Packets:** Displays information about packets that have not been transferred successfully.

**Notice:** Displays important notices by the system administrator.

## Statistic

This screen displays a table that shows the rate of packet transmission via the WLAN Router's LAN, Wireless and WAN ports (in bytes per second).



The screenshot shows the TrendNet web interface for a Wireless G Broadband Router (TEW-432BRP). The left sidebar contains navigation buttons for Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. The Status section is expanded to show Device Information, Log, Log Setting, Statistic, and Wireless. The main content area displays the 'Statistic' page, which includes a table of utilization (Kbytes/sec) for LAN, Wireless, and WAN ports, categorized by Send and Receive. A 'Reset' button is located below the table.

| Utilization(Kbytes/sec) |         | LAN | Wireless | WAN |
|-------------------------|---------|-----|----------|-----|
| Send                    | Average | 0   | 1        | 0   |
|                         | Peak    | 39  | 43       | 0   |
| Receive                 | Average | 0   | 2        | 0   |
|                         | Peak    | 8   | 24       | 0   |

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Click “**Reset**” to erase all statistics and begin logging statistics again.

## Wireless

This screen enables users to view information about wireless devices that are connected to the WLAN Router.

The screenshot shows the TRENDnet web interface for a Wireless G Broadband Router (TEW-432BRP). The main content area is titled "Wireless" and contains a table with the following data:

| Connected Time       | MAC Address       |
|----------------------|-------------------|
| Aug/10/2007 11:06:43 | 00-12-f0-94-4d-86 |
| Aug/10/2007 16:22:28 | 00-19-e3-04-0c-05 |

The interface also features a left-hand navigation menu with buttons for Main, Wireless, Status, Routing, Access, Management, Tools, and Wizard. A HELP button is located in the top right corner of the main content area. The copyright notice at the bottom reads: Copyright © 2006 TRENDnet. All Rights Reserved.

**Connected Time:** Displays how long the wireless client has been connected to the WLAN Router.

**MAC Address:** Displays the wireless client's MAC address.

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## Routing

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This selection enables users to set how the WLAN Router forwards data: Static and Dynamic. Routing Table enables users to view the information created by the WLAN Router that displays the network interconnection topology.

### Static

It enables users to set parameters by which the WLAN Router forwards data to its destination if the network has a static IP address.

The screenshot shows the configuration interface for a TRENDNET Wireless G Broadband Router (TEW-432BRP). The left sidebar contains navigation buttons: Main, Wireless, Status, Routing (selected), Access, Management, Tools, and Wizard. Under the 'Routing' menu, 'Static' is selected. The main content area is titled 'Static' and includes a 'HELP' button. It features five input fields: Network Address, Network Mask, Gateway Address, Interface (set to LAN), and Metric. Below these fields are 'Add', 'Update', 'Delete', and 'Cancel' buttons. At the bottom, there is a table with columns for Network Address, Mask, Gateway, Interface, and Metric, which is currently empty. A copyright notice at the bottom right reads 'Copyright © 2006 TRENDnet. All Rights Reserved.'

**Network Address:** Type the static IP address the network uses to access the Internet. Contact the ISP or network administrator for this information.

**Network Mask:** Type the network (subnet) mask of the network. If this field is left blank, the network mask defaults to 255.255.255.0. Contact the ISP or network administrator for this information.

**Gateway Address:** Type the gateway address of the network. Contact the ISP or network administrator for this information.

**Interface:** Select an interface, WAN or LAN, to connect to the Internet.

**Metric:** Select which metric that the user wants to apply to this configuration.

**Add:** Click to add the configuration to the static IP address table at the bottom of the page.

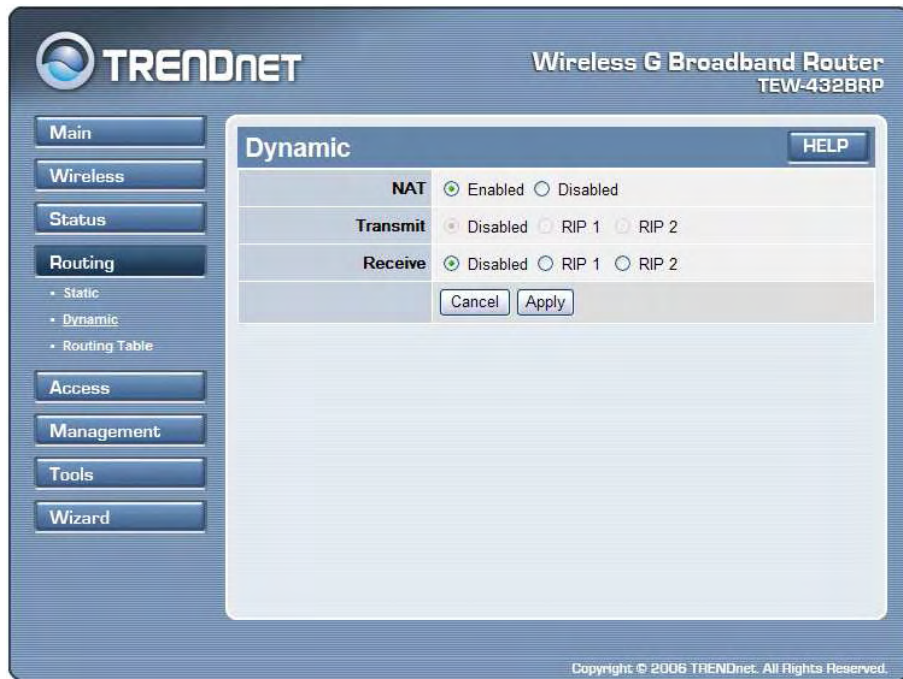
**Update:** Select one of the entries in the static IP address table at the bottom of the page, and after changing parameters, click “Update” to confirm the changes.

**Delete:** Select one of the entries in the static IP address table at the bottom of the page and click “Delete” to remove the entry.

**New:** Click “New” to clear the text boxes and add required information to create a new entry.

## **Dynamic**

This screen enables users to set NAT parameters.



**NAT:** Click the radio buttons to enable or disable the NAT function.

**Transmit:** Click the radio buttons to set the desired transmit parameters, disabled, RIP 1, or RIP 2.

**Receive:** Click the radio buttons to set the desired transmit parameters, disabled, RIP 1, or RIP 2.



## Routing Table

This screen enables users to view the routing table of the WLAN Router. The routing table is a database created by the WLAN Router that displays the network interconnection topology.



**Network Address:** Displays the network IP address of the connected node.

**Network Mask:** Displays the network (subnet) mask of the connected node.

**Gateway Address:** Displays the gateway address of the connected node.

**Interface:** Displays whether the node is connected via a WAN or LAN.

**Metric:** Displays the metric of the connected node.

**Type:** Displays whether the node has a static or dynamic IP address

## Access

This page enables you to define access restrictions, set up protocol and IP filters, create virtual servers, define access for special applications such as games, and set firewall rules.

## Filters

Using filters to deny or allow the users to access. Five types of filters to select: MAC, URL blocking, IP, Protocol filter and Domain blocking.

The screenshot shows the configuration interface for a Trendnet Wireless G Broadband Router (TEW-432BRP). The page is titled "Filter" and includes a "HELP" button. The left sidebar contains navigation options: Main, Wireless, Status, Routing, Access (selected), Management, Tools, and Wizard. Under "Access", sub-options include Filter, Virtual Server, Special AP, DMZ, and Firewall Rule.

The main content area is divided into sections:

- Filters:** A description states "Filters are used to allow or deny LAN users from accessing the Internet." Below this are five radio button options:  MAC Filters,  Domain Blocking,  URL Blocking,  Protocol Filters, and  IP Filters.
- MAC Filter:** This section has three radio button options:  Disabled,  Only allow computers with MAC address listed below to access the network, and  Only deny computers with MAC address listed below to access the network. An "Apply" button is located below these options.
- MAC Table:** This section includes a "Name:" text input field, a "MAC Address:" field with five individual input boxes for each octet, and four buttons: "Add", "Update", "Delete", and "Cancel".

At the bottom of the page, there is a table header with two columns: "Name" and "MAC Address". The table body is currently empty.

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## MAC Filters

**Filter** HELP

**Filters** Filters are used to allow or deny LAN users from accessing the Internet.

**MAC Filters**  Domain Blocking  
 URL Blocking  Protocol Filters  
 IP Filters

**MAC Filter**

Disabled  
 Only **allow** computers with MAC address listed below to access the network  
 Only **deny** computers with MAC address listed below to access the network

**MAC Table**

Name:

MAC Address:

| Name | MAC Address |
|------|-------------|
|------|-------------|

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**MAC Filter:** Enables you to allow or deny Internet access to users within the LAN based upon the MAC address of their network interface. Click the radio button next to Disabled to disable the MAC filter.

**Disable:** Disable the MAC filter function.

**Allow:** Only allow computers with MAC address listed in the MAC Table.

**Deny:** Computers in the MAC Table are denied Internet access.

**MAC Table:** Use this section to create a user profile which Internet access is denied or allowed. The user profiles are listed in the table at the bottom of the page. (Note: Click anywhere in the item. Once the line is selected, the fields automatically load the item's parameters, which you can edit.)

**Name:** Type the name of the user to be permitted/denied access.

**MAC Address:** Type the MAC address of the user's network interface.

**Add:** Click to add the user to the list at the bottom of the page.

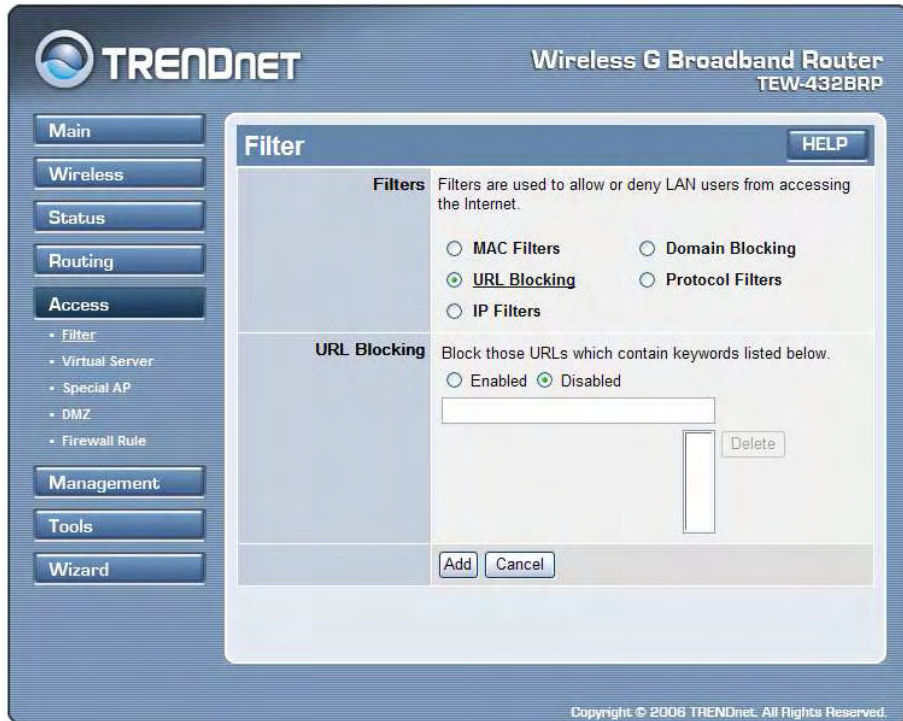
**Update:** Click to update information for the user, if you have changed any of the fields.

**Delete:** Select a user from the table at the bottom of the list and click Delete to remove the user profile.

**New:** Click New to erase all fields and enter new information.

## **URL Blocking**

You could enable URL blocking to deny the users from accessing the specified URL. Add those specified URL in the text box.



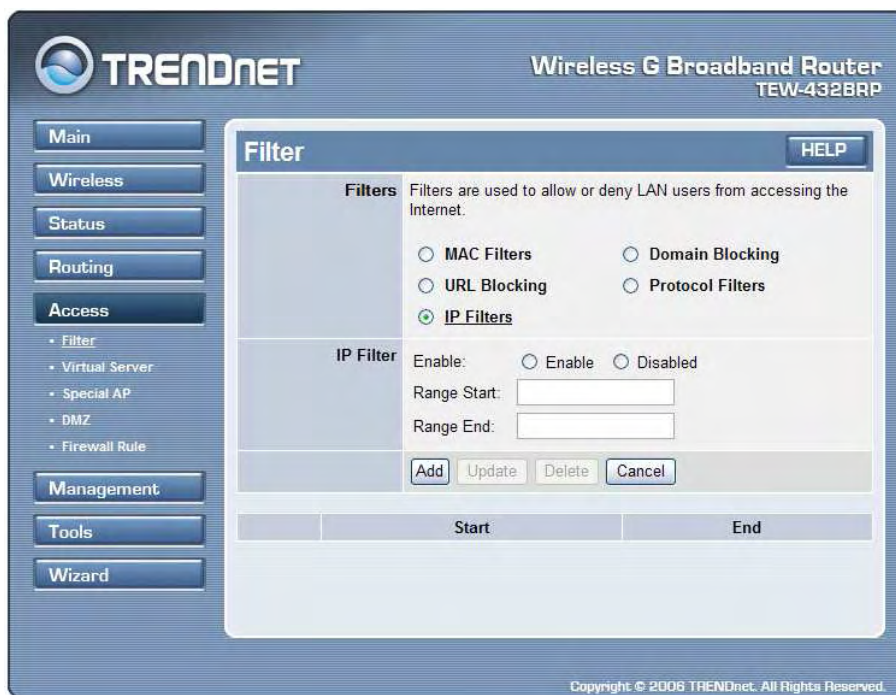
**Enable / Disable:** Enable or Disable the URL blocking function of the WLAN Router.

**Add:** Add the specific URL to the URL blocking list.

**Delete:** Selected a URL from the blocking list then click the *Delete* button to remove the URL from the URL Blocking list.

## IP Filters

This screen enables you to define a minimum and maximum IP address range filter; all IP addresses falling within the range are not allowed Internet access. The IP filter profiles are listed in the table at the bottom of the page. (Note: Click anywhere in the item. Once the line is selected, the fields automatically load the item's parameters, which you can edit.)



**Enable:** Click to enable or disable the IP address filter.

**Range Start:** Type the minimum address for the IP range. IP addresses falling between this value and the Range End are not allowed to access the Internet.

**Range End:** Type the minimum address for the IP range. IP addresses falling between this value and the Range Start are not allowed to access the Internet.

**Add:** Click to add the IP range to the table at the bottom of the screen.

**Update:** Click to update information for the range if you have selected a list item and have made changes.

**Delete:** Select a list item and click Delete to remove the item from the list.

**Clear:** Click the *Clear* button to erase all fields and enter new information.

## Domain Blocking

You could specify the domains that allow users to access or deny by clicking one of the two items. Also, add the specified domains in the text box.



**Disable:** Disable the Domain Blocking function.

**Allow:** Allow users to access all domains except "Blocking Domains".

**Deny:** Deny users to access all domains except "Permitted Domains".

**Blocked/Permitted Domains:** List domains you will Blocked or Permitted.

**Add:** Click to *Add* button to add domain to the Blocked/Permitted Domains list.

**Delete:** Select a user from the table at the bottom of the list and click Delete to remove the user profile.

## Protocol Filters

This screen enables you to allow and deny access based upon a communications protocol list you create. The protocol filter profiles are listed in the table at the bottom of the page.

Note: When selecting items in the table at the bottom, click anywhere in the item. The line is selected, and the fields automatically load the item's parameters, which you can edit.

The screenshot shows the configuration interface for a Trendnet Wireless G Broadband Router (TEW-432BRP). The page is titled "Filter" and includes a "HELP" button. The main content area is divided into two sections: "Filters" and "Protocol Filter".

**Filters:** This section explains that filters are used to allow or deny LAN users from accessing the Internet. It contains four radio button options: "MAC Filters", "Domain Blocking", "URL Blocking", and "IP Filters". The "Protocol Filters" option is selected.

**Protocol Filter:** This section contains two radio button options: "Disable List" (selected) and "Enable List : Deny to access internet from LAN when the list as below item be enable." Below these options is an "Apply" button.

**Edit protocol Filter in List:** This section allows editing a filter. It includes an "Enable" section with "Enable" and "Disabled" radio buttons. Below are input fields for "Name", a "Protocol" dropdown menu (set to "TCP"), and a "Port" range input field. At the bottom of this section are "Add", "Update", "Delete", and "Cancel" buttons.

**Table:** A table at the bottom of the page lists existing filters. Each row has a checkbox, a name, a protocol, and a port range.

|                          | Name          | Protocol | Range |
|--------------------------|---------------|----------|-------|
| <input type="checkbox"/> | Filter FTP    | TCP      | 20-21 |
| <input type="checkbox"/> | Filter HTTP   | TCP      | 80    |
| <input type="checkbox"/> | Filter HTTPS  | TCP      | 443   |
| <input type="checkbox"/> | Filter DNS    | UDP      | 53    |
| <input type="checkbox"/> | Filter SMTP   | TCP      | 25    |
| <input type="checkbox"/> | Filter POP3   | TCP      | 110   |
| <input type="checkbox"/> | Filter Telnet | TCP      | 23    |

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**Enable:** Click to enable or disable the Protocol filter.

**Name:** Type the name of the user to be denied access.

**Protocol:** Select a protocol (TCP or UDP) to use for the virtual server.

**Port Range:** Type the port range of the protocol.

**Add:** Click to add the protocol filter to the table at the bottom of the screen.

**Update:** Click to update information for the protocol filter if user have selected a list item and have made changes.

**Delete:** Select a list item and click Delete to remove the item from the list.

**New:** Click "New" to erase all fields and enter new information.

## Virtual Server

This screen enables users to create a virtual server via the WLAN Router. If the WLAN Router is set as a virtual server, remote users requesting Web or FTP services through the WAN are directed to local servers in the LAN. The WLAN Router redirects the request via the protocol and port numbers to the correct LAN server. The Virtual Server profiles are listed in the table at the bottom of the page.

Note: When selecting items in the table at the bottom, click anywhere in the item. The line is selected, and the fields automatically load the item's parameters, which user can edit.

**Virtual Server** HELP

Enable  Enable  Disabled

Name

Protocol TCP ▾

Private Port

Public Port

LAN Server

|                          | Name                  | Protocol      | LAN Server |
|--------------------------|-----------------------|---------------|------------|
| <input type="checkbox"/> | Virtual Server FTP    | TCP 21/21     | 0.0.0.0    |
| <input type="checkbox"/> | Virtual Server HTTP   | TCP 80/80     | 0.0.0.0    |
| <input type="checkbox"/> | Virtual Server HTTPS  | TCP 443/443   | 0.0.0.0    |
| <input type="checkbox"/> | Virtual Server DNS    | UDP 53/53     | 0.0.0.0    |
| <input type="checkbox"/> | Virtual Server SMTP   | TCP 25/25     | 0.0.0.0    |
| <input type="checkbox"/> | Virtual Server POP3   | TCP 110/110   | 0.0.0.0    |
| <input type="checkbox"/> | Virtual Server Telnet | TCP 23/23     | 0.0.0.0    |
| <input type="checkbox"/> | IPSec                 | UDP 500/500   | 0.0.0.0    |
| <input type="checkbox"/> | PPTP                  | TCP 1723/1723 | 0.0.0.0    |
| <input type="checkbox"/> | NetMeeting            | TCP 1720/1720 | 0.0.0.0    |

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**Enable:** Click to enable or disable the virtual server.

**Name:** Type a descriptive name for the virtual server.

**Protocol:** Select a protocol (TCP or UDP) to use for the virtual server.

**Private Port:** Type the port number of the computer on the LAN that is being used to act as a virtual server.

**Public Port:** Type the port number on the WAN that will be used to provide access to the virtual server.

**LAN Server:** Type the LAN IP address that will be assigned to the virtual server.



**Add:** Click to add the virtual server to the table at the bottom of the screen.

**Update:** Click to update information for the virtual server if the user has selected a listed item and has made changes.

**Delete:** Select a listed item and click “Delete” to remove the item from the list.

**New:** Click “New” to erase all fields and enter new information.

## Special AP

This screen enables users to specify special applications, such as games which require multiple connections that are blocked by NAT. The special applications profiles are listed in the table at the bottom of the page.

Note: When selecting items in the table at the bottom, click anywhere in the item. The line is selected, and the fields automatically load the item's parameters, which user can edit.

|                          | Name         | Triger Port Range | Incoming Port                             |
|--------------------------|--------------|-------------------|---|
| <input type="checkbox"/> | Battle.net   | * 6112            | * 6112                                    |
| <input type="checkbox"/> | Dialpad      | * 7175            | * 51200-51201,51210                       |
| <input type="checkbox"/> | ICU II       | * 2019            | * 2000-2038,2050-2051,2069,2085,3010-3030 |
| <input type="checkbox"/> | PC-to-Phone  | * 12053           | * 12120,12122,24150-24220                 |
| <input type="checkbox"/> | Quick Time 4 | * 554             | * 6970-6999                               |

**Enable:** Click to enable or disable the application profile. When enabled, users will be able to connect to the application via the WLAN Router’s WAN connection. Click “Disabled” on a profile to prevent users from accessing the application on the WAN connection.

**Name:** Type a descriptive name for the application.

**Trigger:** Defines the outgoing communication that determines whether the user has legitimate access to the application.

- **Protocol:** Select the protocol (TCP, UDP, or ICMP) that can be used to access the application.
- **Port Range:** Type the port range that can be used to access the application in the text boxes.
- **Incoming:** Defines which incoming communications users are permitted to connect with.
- **Protocol:** Select the protocol (TCP, UDP, or ICMP) that can be used by the incoming communication.
- **Port:** Type the port number that can be used for the incoming communication.

**Add:** Click to add the special application profile to the table at the bottom of the screen.

**Update:** Click to update information for the special application if user have selected a list item and have made changes.

**Delete:** Select a list item and click Delete to remove the item from the list.

**New:** Click “New” to erase all fields and enter new information.

## DMZ

This screen enables users to create a DMZ for those computers that cannot access Internet applications properly through the WLAN Router and associated security settings.

Note: Any clients added to the DMZ exposes the clients to security risks such as viruses and unauthorized access.



The screenshot displays the web management interface for a Trendnet Wireless G Broadband Router (TEW-432BRP). The interface is in a blue-themed layout. On the left, there is a vertical navigation menu with buttons for 'Main', 'Wireless', 'Status', 'Routing', 'Access', 'Management', 'Tools', and 'Wizard'. The 'Access' menu is expanded, showing sub-options: 'Filter', 'Virtual Server', 'Special AP', 'DMZ', and 'Firewall Rule'. The 'DMZ' option is selected. The main content area is titled 'DMZ' and includes a 'HELP' button. It features an 'Enable' section with radio buttons for 'Enabled' and 'Disabled', where 'Disabled' is selected. Below this is a text input field for 'DMZ Host IP' containing '0.0.0.0'. An 'Apply' button is located at the bottom of the form. The footer of the page contains the copyright notice: 'Copyright © 2006 TRENDnet. All Rights Reserved.'

**Enable:** Click to enable or disable the DMZ.

**DMZ Host IP:** Type a host IP address for the DMZ. The computer with this IP address acts as a DMZ host with unlimited Internet access.

**Apply:** Click to save the settings.

## Firewall Rule

This screen enables users to set up the firewall. The WLAN Router provides basic firewall functions, by filtering all the packets that enter the WLAN Router using a set of rules. The rules are listed in sequential order--the lower the rule number, the higher the priority the rule has.

| Action                              | Name                                     | Source            | Destination       | Protocol       |
|-------------------------------------|--|-------------------|-------------------|----------------|
| <input checked="" type="checkbox"/> | Allow MsnMsgr (192.168.1.106:12238)-3310 | LAN,192.168.1.106 | WAN,*             | UDP,12238-3310 |
| <input checked="" type="checkbox"/> | Allow Allow to Ping WAN port             | WAN,*             | WAN,*             | ICMP,8         |
| <input checked="" type="checkbox"/> | Allow MsnMsgr (192.168.1.106:12238)-3310 | WAN,*             | LAN,192.168.1.106 | UDP,12238-3310 |
| <input checked="" type="checkbox"/> | Deny Default                             | *,*               | LAN,*             | *,*            |
| <input checked="" type="checkbox"/> | Allow Default                            | LAN,*             | *,*               | *,*            |

**Enable:** Click to enable or disable the firewall rule profile.

**Name:** Type a descriptive name for the firewall rule profile.

**Action:** Select whether to allow or deny packets that conform to the rule.

**Source:** Defines the source of the incoming packet that the rule is applied to.

- **Interface:** Select which interface (WAN or LAN) the rule is applied to.
- **IP Range Start:** Type the start IP address that the rule is applied to.
- **IP Range End:** Type the end IP address that the rule is applied to.

**Destination:** Defines the destination of the incoming packet that the rule is applied to.

- **Interface:** Select which interface (WAN or LAN) the rule is applied to.
- **IP Range Start:** Type the start IP address that the rule is applied to.
- **IP Range End:** Type the end IP address that the rule is applied to.
- **Protocol:** Select the protocol (TCP, UDP, or ICMP) of the destination.
- **Port Range:** Select the port range.

**Add:** Click to add the rule profile to the table at the bottom of the screen.

**Update:** Click to update information for the rule if the user has selected a listed item and has made changes.

**Delete:** Select a listed item and click “**Delete**” to remove the item from the list.

**New:** Click “**New**” to erase all fields and enter new information.

**Priority Up:** Select a rule from the list and click “**Priority Up**” to increase the priority of the rule.

**Priority Down:** Select a rule from the list and click “**Priority Down**” to decrease the priority of the rule.

**Update Priority:** After increasing or decreasing the priority of a rule, click “**Update Priority**” to save the changes.

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## Management

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Management enables users to set up the Remote Management feature.

### Remote Management

This screen enables users to set up remote management. Using remote management, the WLAN Router can be configured through the WAN via a Web browser. A user name and password are required to perform remote management.

The screenshot shows the 'Remote Management' configuration page for a Trendnet Wireless G Broadband Router (TEW-432BRP). The page has a blue header with the Trendnet logo and the router model. A left sidebar contains navigation buttons: Main, Wireless, Status, Routing, Access, Management (selected), Tools, and Wizard. The 'Management' section is expanded to show 'Remote Management'. The main content area is titled 'Remote Management' and includes a 'HELP' button. It contains several sections with radio button options and input fields:

- HTTP:**  Enable  Disabled. Port: 8080. Remote IP Range: From \* To
- Allow to Ping WAN Port:**  Enable  Disabled. Remote IP Range: From \* To
- UPnP Enable:**  Enabled  Disabled
- PPTP:**  Enabled  Disabled
- IPSec:**  Enabled  Disabled
- IDENT:**  Stealth  Closed

At the bottom of the form are 'Cancel' and 'Apply' buttons. A copyright notice at the bottom right reads: 'Copyright © 2006 TRENDnet. All Rights Reserved.'

**HTTP:** Enables users to set up HTTP access for remote management.

**Allow to Ping WAN Port:** Type a range of Router IP addresses that can be pinged from remote locations

**UPnP Enable:** UPnP is short for Universal Plug and Play that is a networking architecture that provides compatibility among networking equipment, software, and peripherals. The WLAN Router is an UPnP-enabled Router and will only work with other UPnP devices/software. If user does not want to use the UPnP functionality, select “Disabled” to disable it.

**PPTP:** Enables users to set up PPTP access for remote management.

**IPSec:** Enables users to set up IPSec access for remote management.

**IDENT:** Default is stealth. This enables users to set port 113 stealth.

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## Tools

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This page enables users to restart the system, save and load different settings as profiles, restore factory default settings, run a setup wizard to configure WLAN Router settings, upgrade the firmware, and ping remote IP addresses.

### Restart

Click “Restart” to restart the system in the event the system is not performing correctly.



## Settings

This screen enables users to save settings as a profile and load profiles for different circumstances. User can also load the factory default settings, and run a setup wizard to configure the WLAN Router and Router interface.



**Save Settings:** Click “Save” to save the current configuration as a profile that can load when necessary.

**Load Settings:** Click “Browse” and go to the location of a stored profile. Click “Load” to load the profile's settings.

**Restore Factory Default Settings:** Click “Restore” to restore the default settings. All configuration changes will be lost.

## Firmware

This screen enables users to keep the WLAN Router firmware up to date.



Please follow the below instructions:

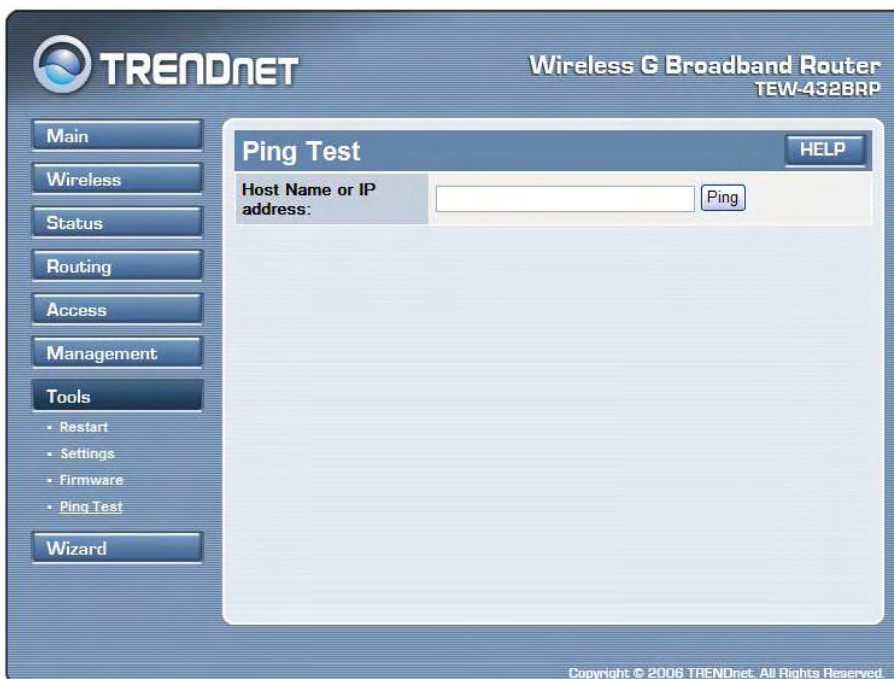
Download the latest firmware from the manufacturer's Web site, and save it to disk.

Click "**Browse**" and go to the location of the downloaded firmware file.

Select the file and click "**Upgrade**" to update the firmware to the latest release.

## Ping Test

The ping test enables users to determine whether an IP address or host is present on the Internet. Type the host name or IP address in the text box and click Ping.





## TECHNICAL SPECIFICATIONS

| <b>General</b>                    |  |
|-----------------------------------|--|
| Standards                         | IEEE 802.3u 100BASE-TX Fast Ethernet<br>IEEE 802.11g; IEEE 802.11b   |
| Protocol                          | CSMA/CD  |
| Radio Technology                  | IEEE 802.11g Orthogonal Frequency Division Modulation  |
| Data Transfer Rate                | 802.11b: 1, 2, 5.5, 11Mbps (auto sense)<br>802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps(auto sense)<br>Ethernet: 10Mbps (half duplex), 20Mbps (full-duplex)<br>Fast Ethernet: 100Mbps (half duplex), 200Mbps (full- duplex) |
| Topology                          | Star   |
| Receiver Sensitivity              | 54Mbps: Typical -65dBm @ 10% PER (Packet Error Rate)<br>11Mbps: Typical -82dBm @ 8% PER (Packet Error Rate)  |
| TX Power                          | 18 dBm   |
| Network Cables                    | 10BASE-T: 2-pair UTP Cat. 3,4,5 (100 m), EIA/TIA- 568 100-ohm STP (100 m)<br>100BASE-TX: 2-pair UTP Cat. 5 (100 m), EIA/TIA-568 100-ohm STP (100 m)  |
| Frequency Range                   | 2412 ~ 2484 MHz ISM band   |
| Modulation Schemes                | DBPSK/DQPSK/CCK/OFDM   |
| Security                          | 64/128-bits WEP Encryption; WPA, WPA-PSK, WPA2, WPA2-PSK   |
| Channels                          | 1~11 Channels (US) 1~13 Channels (EU)  |
| Number of Ports                   | LAN: 4 x 10/100Mbps Auto-MDIX Fast Ethernet port<br>WAN: 1 x 10/100Mbps Auto-MDIX Fast Ethernet port   |
| <b>Physical and Environmental</b> |  |
| DC inputs                         | 7.5VDC/1A  |
| Power Consumption                 | 5W (Max)   |
| Temperature                       | Operating: 0°C ~ 40° C, Storage: -10° ~ 70° C  |
| Humidity                          | Operating: 10% ~ 90%, Storage: 5% ~ 90%  |
| Dimensions                        | 147 x 115 x 35 mm (W x H x D) without Antenna  |
| EMI:                              | FCC Class B, CE Mark B   |

# Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

|                 |                    |
|-----------------|--------------------|
| <b>Wireless</b> | <b>Three years</b> |
|-----------------|--------------------|

If a product does not operate as warranted above during the applicable warranty period, TRENDnet shall, at its option and expense, repair the defective product or deliver to customer an equivalent product to replace the defective item. All products that are replaced will become the property of TRENDnet. Replacement products may be new or reconditioned.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product through any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet office within the applicable warranty period for a Return Material Authorization (RMA) number, accompanied by a copy of the dated proof of the purchase. Products returned to TRENDnet must be pre-authorized by TRENDnet with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

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**Governing Law:** This Limited Warranty shall be governed by the laws of the state of California.

Note: AC/DC Power Adapter, Cooling Fan, cables and Power Supply carry 1-Year Warranty



# TRENDNET<sup>®</sup>

## TRENDnet Technical Support

### US • Canada

**Toll Free Telephone:** 1(866) 845-3673

24/7 Tech Support



### Europe (Germany • France • Italy • Spain • Switzerland • UK)

**Toll Free Telephone:** +00800 60 76 76 67

English/Espanol - 24/7

Francais/Deutsch - 11am-8pm, Monday - Friday MET

### Worldwide

**Telephone:** +[31] (0) 20 504 05 35

English/Espanol - 24/7

Francais/Deutsch - 11am-8pm, Monday - Friday MET

## Product Warranty Registration

Please take a moment to register your product online.

Go to TRENDnet's website at <http://www.trendnet.com/register>

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