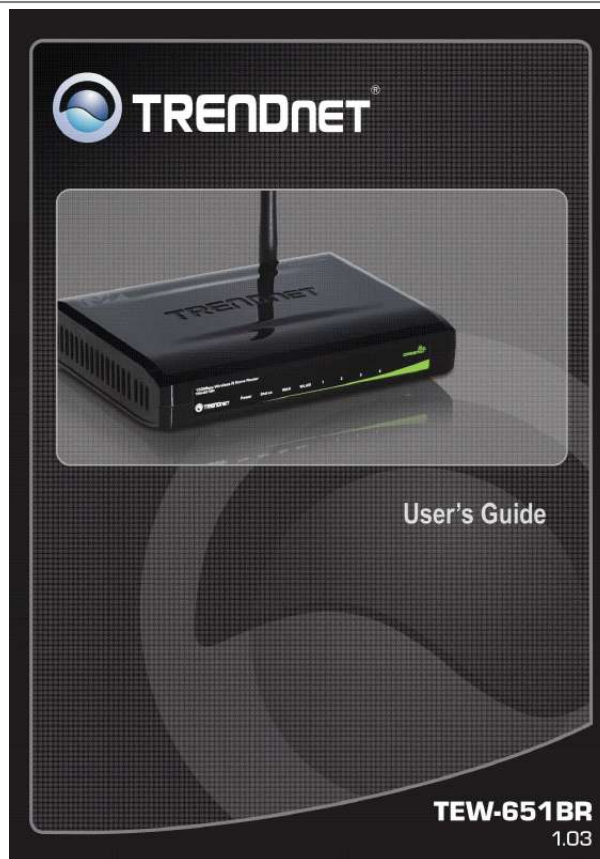




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for TRENDNET TEW-651BR. You'll find the answers to all your questions on the TRENDNET TEW-651BR in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual TRENDNET TEW-651BR
User guide TRENDNET TEW-651BR
Operating instructions TRENDNET TEW-651BR
Instructions for use TRENDNET TEW-651BR
Instruction manual TRENDNET TEW-651BR



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Manual abstract:

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. Europe EU Declaration of Conformity 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: EN60950-1: 2006 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 V1.8.1 (2008-04) 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 V1.3.2 (2008-04) 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. ii 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. 0560 Cesky [Czech] Dansk [Danish] Deutsch [German] Eesti [Estonian] English Español [Spanish] [Greek] Français [French] Italiano [Italian] Latviski [Latvian] TRENDnet tímto prohlašuje, ze tento TEW651BR je ve shod se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES. Undertegnede TRENDnet erklærer herved, at følgende udstyr TEW651BR overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF. Hiermit erklärt TRENDnet, dass sich das Gerät TEW651BR in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet. Käesolevaga kinnitab TRENDnet seadme TEW651BR vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele. Hereby, TRENDnet, declares that this TEW651BR is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Por medio de la presente TRENDnet declara que el TEW651BR cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE. TRENDnet TEW651BR 1999/5/. Par la présente TRENDnet déclare que l'appareil TEW651BR est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE. Con la presente TRENDnet dichiara che questo TEW651BR è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE. Ar so TRENDnet deklaru, ka TEW651BR atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem. [Lithuanian] [Dutch] Lietuvi Siuo TRENDnet deklaruoja, kad sis TEW651BR atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas. Nederlands Hierbij verklaart TRENDnet dat het toestel TEW651BR in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Hawnhekk, TRENDnet, jiddikjara li dan TEW651BR jikkonforma maltiijiet essenzjali u ma provvedimenti orajn relevanti li hemm fidDirrettiva 1999/5/EC. Malti [Maltese] [Hungarian] Magyar Alulírott, TRENDnet nyilatkozom, hogy a TEW651BR megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak. Niniejszym TRENDnet owiadcza, e TEW651BR jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.

Polski [Polish] Português TRENDnet declara que este TEW651BR está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE. [Portuguese] [Slovenian] Slovensko TRENDnet izjavlja, da je ta TEW651BR v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES. TRENDnet tímto vyhlasuje, ze TEW651BR spa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES. TRENDnet vakuuttaa täten että TEW651BR tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen. Härmed intyggar TRENDnet att denna TEW651BR står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.



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.... *1 Overview of this User's Guide .*

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... 1 INTRODUCTION

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..... 4 UNPACKING AND SETUP ..

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... 9 PC NETWORK TCP/IP SETTING ..
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... 12 CONFIGURATION

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.... 13 Login to the WLAN Router through Wireless LAN .

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..... *13 Using the Web Browser .*

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14 Advanced configuration

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... 58 v ABOUT THIS GUIDE Congratulations on your purchase of this TEW651BR Wireless Home 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. Purpose This manual discusses how to install the IEEE 802.11b/g/n Wireless Home Router. Terms/Usage In this guide, the term "the WLAN Router" refers to your TEW651BR Wireless Home Router.

Overview of this User's Guide Introduction. Describes the TEW651BR Wireless Home Router and its features. Unpacking and Setup. Helps you get started with the basic installation of the TEW 651BR Wireless Home Router. Identifying External Components.

Describes the front panel, rear panel and LED indicators of the TEW651BR Wireless Home Router. Connecting the WLAN Router. Tells how you can connect the TEW651BR Wireless Home Router to your xDSL/Cable Modem. Technical Specifications. Lists the technical (general, physical and environmental, performance and Routers settings) specifications of the TEW651BR Wireless Home Router.

1 INTRODUCTION 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. Applications: Broadband Internet access:

Several computers can share one highspeed 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. 2 Online gaming: Through the local area network, online gaming and ecommerce services can be easily setup. Firewall: A builtin firewall function -- for security and antihacking systems. Supported Features: WiFi compliant with IEEE 802.11n and IEEE 802.

11b/g standards 4 x 10/100Mbps AutoMDIX LAN ports 1 x 10/100Mbps WAN port (Internet) GREENnet technology reduces portbased power consumption Compatible with most popular cable/DSL Internet service providers using Dynamic/Static IP, PPPoE, PPTP and L2TP Highspeed data rates of up to 150Mbps with IEEE 802.11n* WiFi Protected Setup (WPS) connects wireless clients at the push of a button Supports 64/128bit WEP, WPA/WPA2RADIUS and WPAPSK/WPA2PSK Internet Access Control (MAC Address, Domain and IP Filtering) Easy remote management via Web browser Firewall features Network Address Translation (NAT) Universal Plug and Play (UPnP) and Application Level Gateway support for Internet applications such as email, FTP, gaming, remote desktop, Net Meeting, Telnet and more WiFi Multimedia (WMM) Quality of Service (QoS) supported Simple setup via Web browser using the latest version of Internet Explorer, Firefox, and Safari Works with Windows, Linux, and Mac operating systems Energy Star certified external power adapter Indoor range up to 100 meters (330 ft.) depending on the environment Outdoor range up to 300 meters (980 ft.) depending on the environment 3year limited warranty 3 Wireless Performance Considerations There are a number of factors that can impact the range of wireless devices. 1.

Adjust your wireless devices so that the signal is traveling in a straight path, rather than at an angle. The more material the signal has to pass through the more signal you will lose. 2. Keep the number of obstructions to a minimum. Each obstruction can reduce the range of a wireless device. Position the wireless devices in a manner that will minimize the amount of obstructions between them. 3. Building materials can have a large impact on your wireless signal. In an indoor environment, try to position the wireless devices so that the signal passes through less dense material such as dry wall. Dense materials like metal, solid wood, glass or even furniture may block or degrade the signal. 4. Antenna orientation can also have a large impact on your wireless signal. Use the wireless adapter's site survey tool to determine the best antenna orientation for your wireless devices. 5. Interference from devices that produce RF (radio frequency) noise can also impact your signal.

Position your wireless devices away from anything that generates RF noise, such as microwaves, radios and baby monitors.



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6. Any device operating on the 2.4GHz frequency will cause interference. Devices such as 2.4GHz cordless phones or other wireless remotes operating on the 2.4GHz frequency can potentially drop the wireless signal. Although the phone may not be in use, the base can still transmit wireless signal. Move the phone's base station as far away as possible from your wireless devices. If you are still experiencing low or no signal consider repositioning the wireless devices or installing additional access points.

The use of higher gain antennas may also provide the necessary coverage depending on the environment. 4 UNPACKING AND SETUP This chapter provides unpacking and setup information for the TEW651BR Wireless Home Router. Unpacking Open the box of the WLAN Router and carefully unpack it. The box should contain the following items: TEW651BR Wireless N Home Router CDRom (User's Guide) MultiLanguage Quick Installation Guide External power adapter 1.5m (5ft) Cat.

5 Ethernet Cable If any item is found missing or damaged, please contact your local reseller for replacement. Setup 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. 5

HARDWARE INSTALLATION Front Panel The figure below shows the front panel of the TEW651BR Wireless Home Router. Front Panel POWER This indicator lights green when the hub is receives power, otherwise it is off. Status 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. 6 Rear Panel The figure below shows the rear panel of the TEW651BR Wireless Home Router. Rear Panel Antenna There is one 2dBi gain antenna on the rear panel for wireless connection. LAN (14) Four RJ45 10/100Mbps AutoMDIX ports for connecting to either 10Mbps or 100Mbps Ethernet connections. WAN In the four port broadband Router, there is an RJ45 10/100Mbps AutoMDIX 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 pinshaped 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.

7 Side Panel The figure below shows the side panel of the TEW651BR Wireless Home Router. WPS (side panel) Push this button to execute the WiFi Protected Setup process. Hanging Way User can mount the device on a wall. Mount the Nylon screw anchors into a cement wall and then drive a screw into the Nylon screw anchors. It does not need to mount the Nylon screw anchors into a wood wall.

Hook the mounting holes of the switch back on the screws and completed the wallmount. 8 Hardware connections 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 TEW651BR Wireless Home 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 connectionsharing 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.

9 PC NETWORK TCP/IP SETTING The network TCP/IP settings differ based on the computer's operating system (Win95/98/ME/NT/2000/XP/Vista) and are as follows. Windows 95/98/ME 1. 2. 3. 4. Click on the "Network neighborhood" icon found on the desktop. Click the right mouse button and a context menu will be show. Select "Properties" to enter the TCP/IP setting screen. Select "Obtain an IP address automatically" on the "IP address" field. 5. Select "Disable DNS" in the "DNS" field. 10 6. Select "None" for the "Gateway address" field. Windows 2000 Double click on the "My Computer" icon on the desktop. When "My Computer" window opens, select "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. 11 Windows XP / Vista / 7 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."



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" 12 CONFIGURATION 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. Login to the WLAN Router through Wireless LAN 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: TRENDnet651 Channel: Auto Channel 802.11 Mode: 802.11b/g/n mixed mode Channel bandwidth: 20Mhz Security: disable Login to the WLAN Router 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. Using the Web Browser 1. Open Internet Explorer 5.0 or above Internet browser. 2.

Enter IP address http://192.168.10.1 (the factorydefault 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". 13 Setup Wizard Setup wizard is provided as part of the web configuration utility. User can simply follow the stepbystep process to get the wireless Router configuration ready to run in 6 easy steps by clicking on the "Wizard" button on the function menu. The following screen will appear. Please click "Next" to continue.

Step 1: Set your new password Setting the new admin password of the WLAN Router. Please click "Next" to continue. 14 Step 2: Choose time zone Select the time zone from the drop down list. Please click "Next" to continue. Step 3: 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. 15 Step 4: Set Internet connection The WLAN Router will attempt to auto detect your Internet Connection. Obtain IP automatically (DHCP client): If the user has enabled DHCP server, choose "Obtain IP automatically (DHCP client)" to have the WLAN Router assign IP addresses automatically.

Fixed IP Address: 16 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. PPPoE to obtain IP automatically: If connected to the Internet using a PPPoE (Dialup xDSL) connection, and the ISP provides a User Name and Password, then choose this option and enter the required information. 17 PPPoE with a fixed IP address: If connected to the Internet using a PPPoE (Dialup xDSL) connection and the ISP provides a User Name, Password and a Fixed IP Address, choose this option and enter the required information. 18 PPTP: If connected to the Internet using a PPTP xDSL connection, enter your IP, Subnet Mask, Gateway, Server IP, PPTP Account and PPTP Password. 19 L2TP: If connected to the Internet using a L2TP (Dialup xDSL) connection and the ISP provides a Server IP, Account and Password information, choose this option and enter the required information.

20 Big Pond Cable(Australia): If your ISP is BigPond Cable, the ISP will provide a User Name, Password, Authentication Server and Login Server IP (Optional). Choose this option and enter the required information. 21 Step 5: 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. Step 6: 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".

22 Advanced configuration Main 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. Host Name: Type the host name in the text box. The host name is required by some ISPs. The default host name is "TEW651BR". 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. 23 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. Connection Type: Select the connection type, either DHCP client, Fixed IP, PPPoE, PPTP, L2TP or BigPond Cable from the dropdown list. 24 DHCP Client or Fixed IP If user has enabled DHCP server, choose "Obtain IP automatically (DHCP client)" to have the router assign IP addresses automatically.



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WAN IP Address: 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.

IP Address: For the Specify mode, enter the specific IP address that provided by your ISP. **Subnet Mask:** For the Specify mode, enter the specific subnet mask that provided by your ISP. **Gateway:** For the Specify mode, enter the specific gateway IP address that provided by your ISP. **DNS 1/2:** Manually specific DNS server IP address; For the Obtain IP Automatically mode, if enter 0.0.0.0 in this filed, the DHCP server will provides DNS server automatically.

@@@ Choose this option and enter the required information. @@ **Server Name:** Enter the server name provided by ISP (optional). **User Name:** Enter the user name provided by ISP.

Password: Enter the password provided by ISP. **Retype Password:** Enter the password again. @@@@ 26 **MTU:** Enter the specified MTU (Maximum Transmission Unit). The default value is 1492 bytes. @@@@ Choose this option and enter the required information.

@@@@ The password must be typed again for confirmation. @@ **User:** Type the password the User will use to log in to the system. The password must be typed again for confirmation. @@ **Local Time:** Displays the local time and date. **Time Zone:** Select the time zone from the dropdown list.

@@ **Automatic:** Automatically adjust the system time from NTP Server. @@@@ Specify the NTP domain name or IP address in the text box.

@@@@@ 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**. **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. **31 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.

802.11 Mode: Select one of the following: **2.4Ghz 802.11b/g mixed mode** Select if you are using both 802.11b and 802.11g wireless clients. **2.4Ghz 802.11b/g/n mixed mode** Select if you are using a mix of 802.11n, 11g, and 11b wireless clients. **2.4Ghz 802.11n only** Select if you are using 802.11n wireless clients only.

Channel Width: Select the Channel Width: **20MHz**. This is the default setting. Select this option if you are not using any 802.11n wireless clients. **Auto 20/40 MHz** Select this option if you are using both 802.11n and non 802.11n wireless devices.

SSID Broadcast: While SSID Broadcast is enabled, all wireless clients will be able to view the WLAN Router's SSID. **WMM:** Enable the WiFi MultiMedia will offer WiFi networks stable that improve the user experience for audio, video, and voice applications by prioritizing data traffic. **32**

Security Authentication Type: The authentication type default is set to open system. There are four options: **Disabled**, **WEP**, **WPA**, **WPA2** and **WPAAuto**. **WEP Encryption WPS Enabled WPS Disabled 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 dropdown list. The WLAN Router supports, **64** and **128bit** encryption. **Key Length Type** **64-bit** **128-bit** **Hex** characters **0-9**, **A-F**, **a-f** **10** characters **26** characters **ASCII** alphanumeric format **5** characters **13** characters **33** **Key 1:** Enables users to create WEP keys with WPS enabled. Manually enter a set of values for Key 1.

Key 1 ~ Key 4: Enables users to create up to 4 different WEP keys with WPS disabled. 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/WPAAuto Security with EAP** If **WPA**, **WPA2** or **WPAAuto** **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 1/2:** 1. Enter the IP address, Port used and Shared Secret by the Primary Radius Server 1. 2. Enter the IP address, Port used and Shared Secret by the Secondary Radius Server 2.

(optional) **WPA/WPA2/WPAAuto Security with PSK** 34 If **WPA**, **WPA2** or **WPAAuto** **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 25 to 1000. The default beacon interval is 100. **RTS Threshold:** Type the RTS (RequestToSend) 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 35

WiFi Protected Setup This screen enables users to configure the WiFi Protected Setup function. **WPS:** Enable or Disable the WPS (WiFi Protected Setup) function **Status:** Display the status (Unconfigured State/Configured State) information of WPS. **SelfPIN Number:** Display the current PIN number of the WLAN Router. **Client PIN Number:** Type Client's PIN number the client uses to negotiate with the WLAN Router via WPS connection. It is only used when users want their station to join Router's network. **Push Button Configuration:** Clicking the Start PBC button will invoke the Push Button Configuration (PBC) method of WPS.

Push the WPS button on the client side when users want their station to join Router's network.



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36 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. 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. 37 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 Time: Displays the time and date that the log entry was created. Message: Displays summary information about the log entry. 38 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. From Email address: Type an email address for the log to be sent from. To Email address: Type an email address for the log to be sent to. Click "Email Log Now" to immediately send the current log. Email Logs: Email the logs to specified email receiver. When log is full The time is not fixed. The log will be sent when the log is full, which will depend on the volume of traffic. Every day, Every Monday ... The log is sent on the interval specified. If "Every day" is selected, the log is sent at the time specified. If the day is specified, the log is sent once per week, on the specified day. 39 Select the time of day you wish the Email to be sent. If the log is full before the time specified to send it, it will be sent regardless. 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). Click "Reset" to erase all statistics and begin logging statistics again. 40 Wireless This screen enables users to view information about wireless devices that are connected to the WLAN Router. Connected Time: Displays the time duration of wireless clients connection to the WLAN Router. MAC Address: Displays the wireless client's MAC address. Routing 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. 41 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. Cancel: Click the Cancel button to erase all fields and enter new information. 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. 42 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 43 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.



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Filters Using filters to deny or allow the users to access to the internet. Three types of filters can be select: MAC, Domain/URL blocking, and Protocol/IP filter.

44 MAC Filters MAC Filter: Enables you to allow or deny accessing the internet. 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. Cancel: Click Cancel to erase all fields and enter new information. 45 Domain/URL 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/URL Blocking function. Allow: Allow users to access all domains except "Domains List". Deny: Deny users to access all domains except "Domains List". Domains List: List Domain/URL you will Denied or Allowed. Delete: Select a Domain/URL from the table at the bottom of the list and click Delete to remove the Domain/URL. Add: Click to Add button to add domain to the Domains list. Cancel: Click the Cancel button to erase all fields and enter new information. 46 Protocol/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 accessing internet. 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. 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: Type the port range of the protocol. IP Range: Type the IP range. IP addresses falling between this value and the Range End 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. 47 Cancel: Click the Cancel button to erase all fields and enter new information. Virtual Server This screen enables user 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 Sever 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. 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. 48 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. Cancel: Click Cancel button 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. 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 * for TCP+UDP) 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. 49 Incoming: Defines which incoming communications users are permitted to connect with. Protocol: Select the protocol (TCP, UDP, or * for TCP+UDP) 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. Cancel: Click Cancel button 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. 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. 50 Firewall Settings This screen enables users to set up the firewall.



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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. 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.

51 Delete: Select a listed item and click Delete button to remove the entry 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.

Management 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. HTTP: Enables users to set up HTTP access of the Port number, and Remote IP Range 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 UPnPEnabled 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. 52 PPTP: Enables users to set up PPTP access for remote management. L2TP: Enables users to set up L2TP access for remote management. IPsec: Enables users to set up IPsec access for remote management. 53 Tools 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. 54 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 lose.

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. 55 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. 56 TECHNICAL SPECIFICATIONS Hardware Standards WAN LAN WPS Button Connection

Type Supported Browsers Web IEEE 802.3 (10BaseT), IEEE 802.3u (100BaseTX), IEEE 802.11b, IEEE 802.11g, based on IEEE 802.11n (draft 2.0) technology 1 x 10/100Mbps AutoMDIX WAN port (Internet) 4 x 10/100Mbps AutoMDIX LAN port Enables WiFi Protected Setup (WPS) function Dynamic IP, Static (fixed) IP, PPPoE, PPTP, L2TP Internet Explorer 6.0 or above, Firefox, Safari MAC Address Filter, Domain/URL Filter, Protocol/IP Filter Power, Status, LAN1 LAN4, WAN, WLAN 5V DC, 1.5A external power adapter 3.

2 watts (max) 150 x 110 x 30mm (5.9 x 4.3 x 1.2in) Internet Access Control LED Indicators Power Supply Power Consumption Dimensions (LxWxH) Weight Temperature Humidity Certifications Wireless 225g (7.8oz) Operating: 0° ~ 40°C (32° ~ 104°F) Storage: 10°C ~ 70°C (14° ~ 158°F) 10% ~ 95% max (noncondensing) CE, FCC Frequency Antenna Module Technique Media Access Protocol Data Rate Fallback (Auto 2.412 ~ 2.484 GHz ISM band 1 x 2dBi fixed dipole antenna 802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM with BPSK, QPSK and 16/64QAM 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM CSMA/CA with ACK 802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 150Mbps 802.11b: 15dBm (typical) @ 11Mbps 802.11g: 15dBm (typical) @ 11Mbps 802.11n: 13dBm (typical) @ 150Mbps 802.11b: 85dBm (typical) @ 11Mbps 802.11g: 68dBm (typical) @ 54Mbps 802.11n: 62dBm (typical) @ 150Mbps 64/128WEP, WPAPSK/WPA2PSK, WPA/WPA2RADIUS 111 (FCC), 113 (ETSI) 57 Output Power Receiving Sensitivity Encryption Channels 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.

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. @@@@ Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point of purchase for their return policies.



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