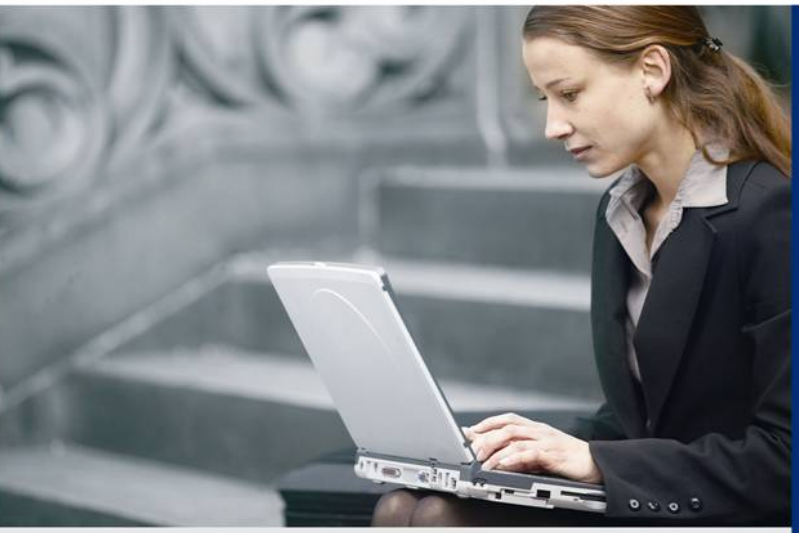
PLANET
Networking & Communication

User's Manual

1200Mbps 802.11ac Dual-Band Wireless Gigabit Router

► WDRT-1202AC



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Federal Communication Commission Interference Statement

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

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Plug the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution:

To assure continued compliance, for example, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

CE Compliance Statement

This device meets the RED directive 2014/53/EU of EU requirements on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The device complies with RF specifications when the device used at 20 cm from your body.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 2014/53/EU) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remarks
Bulgaria	None	General authorization required for outdoor use and public service.
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012.
Italy	None	If used outside of own premises, general authorization is required.
Luxembourg	None	General authorization required for network and service supply (not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund.
Russian Federation	None	Only for indoor applications

WEEE regulation

To avoid the potential effects on the environment and human health as a result of the presence of

hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste; WEEE should be collected separately.

Revision

User Manual of PLANET 1200Mbps 802.11ac Dual Band Wireless Gigabit Router

Model: WDRT-1202AC

Rev: 1.0 (July, 2017)

Part No. EM-WDRT-1202AC_v1.0

CONTENTS

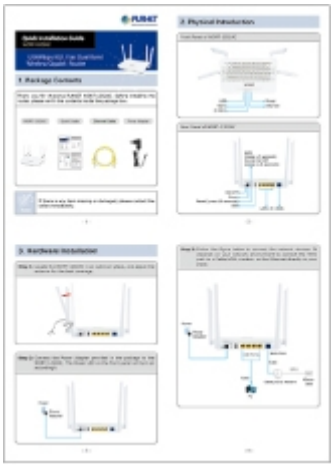
Chapter 1. Product Introduction

1.1 Package Contents

Thank you for choosing PLANET WDRT-1202AC. Before installing the router, please verify the contents inside the package box.

WDRT-1202AC Wireless Router

Quick Installation Guide



Power Adapter

12V DC, 1.5A

Ethernet Cable

RJ45 Cable

Note

If there is any item missing or damaged, please contact the seller immediately.

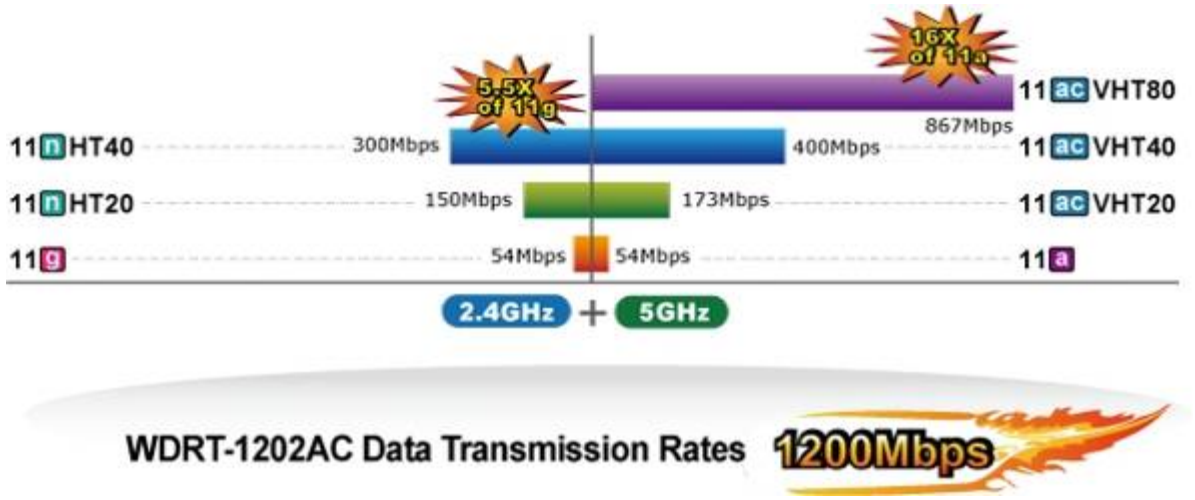
1.2 Product Description

Amazing Next-generation Wireless High-speed Connection

PLANET WDRT-1202AC Wireless Broadband Router supports IEEE 802.11a/b/g/n/ac standard, dual band, and Gigabit LAN and WAN, thus providing the wireless speed of **867Mbps** in the 5GHz frequency band and **300Mbps** in the 2.4GHz frequency band at the same time, which is 16 times faster than that of the traditional 11g access point. With its outstanding stability of high-speed wireless transmission and enhanced reliability, the WDRT-1202AC can provide users with excellent multimedia streaming through their mobile devices anywhere, anytime in the home and office.

Use of 5GHz Band is Current Trend

Since the 2.4GHz band is now too crowded with users using the high-speed wireless connection for more and more wireless applications, the 5GHz band, currently in great demand, is designed to relieve the situation. In order to avoid the wireless interference between the two bands, PLANET WDRT-1202AC provides users with the radio frequency of 5GHz for watching HD videos or playing online games while the 2.4GHz band is used for surfing the Internet. The WDRT-1202AC is just like 2 totally independent Access Points in one device for you.



Gigabit LAN Throughput Boosts Network Traffic

Improving communication speed is one of the major requirements of today's Gigabit local area networks. With throughput up to 10 times faster than the existing 100Mbps solution, the WDRT-1202AC fully employs the full functionality of the 802.11ac wireless standards, eliminating the bottleneck of the transmission speed of the megabit wired type. Using the WDRT-1202AC to connect your desktop, NAS, media player and game console guarantees extremely high throughput and excellent signal quality.

Powerful Firewall and Complete Access Control Functions

The WDRT-1202AC supports NAT function allowing multiple users to access Internet via a single legal IP. It also provides Port Forwarding for the specific LAN PC to act as an application server and offer certain service to the clients on the Internet. In addition, the powerful firewall protects your Intranet clients from unauthorized accesses and various kinds of DoS attacks from the Internet. The WDRT-1202AC with MAC-based access control allows or denies wireless client connections to prevent possible hackers' attack.

Home DLNA Media Server over USB File Sharing

The WDRT-1202AC has a built-in USB port which can be connected to an external USB storage device for file sharing. Moreover, the DLNA (Digital Living Network Alliance) compliant media server feature allows multimedia contents, such as streaming videos, music and photos, to be easily shared among SmartTVs, tablets, mobile phones and laptops on a home network. Thus, all clients on the network can share mass storage through the WDRT-1202AC without complicated network configuration. Via the USB port, it also can output 5V DC power to charge any USB compliant devices.


USB
Upload
Download
Easy to share Storage via USB Anywhere!

1.3 Product Features

➢ **IEEE Compliant Wireless LAN and Wired LAN**

- Compliant with IEEE 802.11a/b/g/n/ac dual band [2.4G (300Mbps) and 5G (867Mbps)] wireless technology
- Equipped with all Gigabit RJ45 ports (10/100/1000Mbps) like 1 WAN and 4 LAN ports, and auto MDI/MDI-X

➢ **Fixed Network Broadband Router**

- Supports WAN connection types: DHCP, static IP, PPPoE, PPTP, L2TP, DS Lite
- Supports PLANET DDNS and DHCP Servers

➢ **Comprehensive Wireless Advanced Features**

- Supports guest SSID to allow users to access different networks through one single AP
- Supports WMM (Wi-Fi Multimedia) and wireless QoS to enhance the efficiency of multimedia application
- Supports 3-level Transmitting Power Control to adapt various environments
- Self-healing (Schedule Reboot) mechanism for reliable connection

Secure Network Connection

- Supports Wi-Fi Protected Setup (WPS)
- Support WPA/WPA2 wireless security encryption
- Supports NAT firewall, IP / URL-based access control and MAC address filtering

➢ **Advanced Networking Function for Specific Application**

- Supports Bandwidth Control (QoS) based on different local IP addresses
- Supports NTP, Port Forwarding, UPnP and DMZ for various networking applications
- Supports USB storage and DLNA combination, convenient HD media sharing

➢ **Easy Installation and Management**

- Web-based UI and Quick Setup Wizard for easy configuration
- Remote Management allows configuration from a remote site
- System status monitoring includes DHCP Client List and System Log

1.4 Product Specifications

Product	WDRT-1202AC 1200Mbps 802.11ac Dual Band Wireless Gigabit Router	
Hardware Specifications		
Interface	WAN Port:	1 x 10/100/1000 Mbps auto MDI/MDI-X RJ45 port
	LAN Port:	4 x 10/100/1000 Mbps auto MDI/MDI-X RJ45 port (LAN1~4)
	USB Port:	1 x USB 2.0, Type A, 5V 500mA
Antenna	Gain:	2.4GHz: 2 x 5dBi external antenna 5GHz: 2 x 5dBi external antenna
Button	1 x reset button 1 x WPS/Wi-Fi button	
LED Indicators	PWR x 1 WLAN (2.4GHz & 5GHz) x 2 WAN x 1 WPS x 1	
Material	Plastic	
Dimensions (W x D x H)	250 x 185 x 38 mm (W x D x H)	
Weight	322g	
Power Requirement	12V DC, 1.5A	
Power Consumption	10W	
Wireless Interface Specifications		
Standard	IEEE 802.11ac 5GHz IEEE 802.11a/n 5GHz IEEE 802.11b/g/n 2.4GHz	
Frequency Band	Simultaneous 2.4GHz and 5GHz	
Modulation Type	802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK)	
Data Rates	2.4GHz up to 300Mbps 5GHz up to 867Mbps	
Channel	2.4GHz FCC (America): 2.412~2.462GHz (11 Channels) ETSI (Europe): 2.412~2.472GHz (13 Channels)	
	5GHz 5.180-5.240GHz, 5.745-5.825GHz (up to 9 channels) ***The actual channels in application will vary depending on the regulation in different regions and countries.**	
Channel Width	802.11ac: 20/40/80MHz 802.11n: 20/40MHz	
Max. RF Power / EIRP	2.4GHz: < 20dBm	
	5GHz: < 20dBm	
Receive Sensitivity	2.4GHz 11b (11Mbps): -85dBm	

	11g (54Mbps): -70dBm 11n (20M) mode: -70dBm 11n (40M) mode: -68dBm
	5GHz 11a: -74dBm 11n (20M) mode: -70dBm 11n (40M) mode: -67dBm 11ac (20M) mode: -67dBm 11ac (40M) mode: -61dBm 11ac (80M) mode: -57dBm
Transmit Power Control	Low, Medium, High
Wireless Management Features	
Encryption Security	WPA/WPA2 personal mixed mode
Wireless Security	Wireless MAC address filtering
	Supports WPS (Wi-Fi Protected Setup)
Wireless Advanced	Supports dual-SSID (2.4G and 5G)
	Supports guest network
Max. Supported Clients	2.4GHz wireless: 32 5GHz wireless: 32
Router Features	
Internet Connection Type	Shares data and Internet access for users, supporting the following Internet accesses: ■ DHCP ■ Static IP ■ PPPoE ■ PPTP ■ L2TP ■ DS Lite
Firewall	NAT firewall, SPI firewall
	Built-in NAT server which supports Port Forwarding and DMZ
	Built-in firewall with URL filtering, and MAC address filtering
LAN	Built-in DHCP server supporting static IP address distribution
	Supports packet statistics
USB Sharing	Samba DLNA media server
System Management	Web-based (HTTP) management interface
	Remote management (WAN Access Control)
	Supports UPnP, PLANET DDNS
	SNTP synchronization
	System log
Standards Conformance	
IEEE Standards	IEEE 802.11ac (2T2R, up to 867Mbps)

	IEEE 802.11n (2T2R, up to 300Mbps) IEEE 802.11a IEEE 802.11g IEEE 802.11b IEEE 802.11i IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T
Other Protocols and Standards	CSMA/CA, CSMA/CD, TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP
Regulatory	CE, RoHS, WEEE
Environment	
Temperature	Operating: 0 ~ 40 degrees C Storage: -40 ~ 70 degrees C
Humidity	Operating: 10 ~ 90% (non-condensing) Storage: 5 ~ 95% (non-condensing)

Chapter 2. Hardware Installation

Please follow the instructions below to connect the WDRT-1202AC to the existing network devices and your computers.

2.1 Hardware Description

- **Dimensions**: 250 x 185 x 38 mm (W x D x H)
- **Diagram :**

Figure 2-1

Figure 2-2

2.1.1 Front LED

The front LED provides a simple interface monitoring the router. Figure 2-3 shows the front LED of the WDRT-1202AC.

Front LED

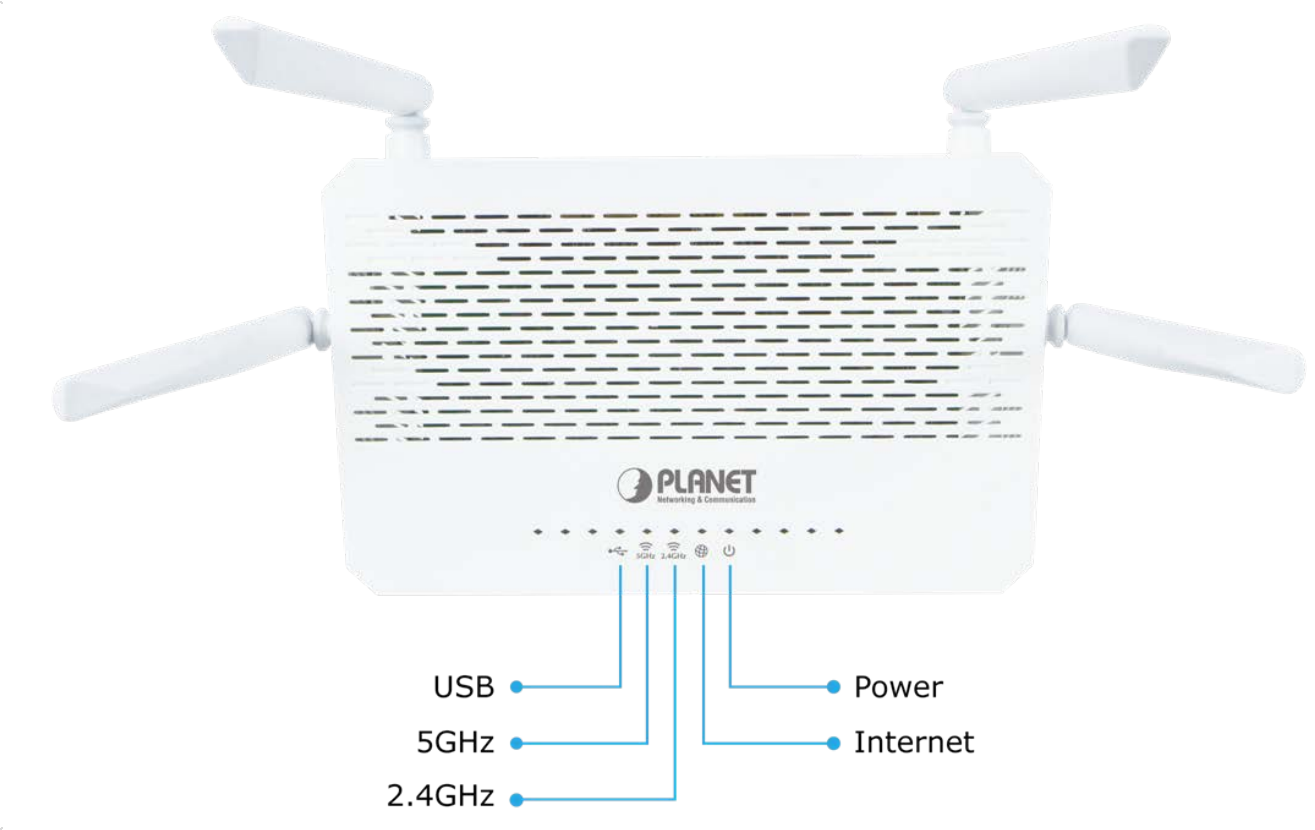


Figure 2-3 WDRT-1202AC Top View

2.1.2 LED Indications

The LEDs on the front panel indicate instant status of port links, wireless data activity and system power, and help monitor and troubleshoot when needed. Figure 2-3 and Table 2-1 show the LED indications of the Wireless Router.

LED	STATE	FUNCTION
PWR	On	Device power on
	Off	Device power off
2.4GHz	On	The 2.4GHz Wi-Fi is activated.
	Flash	Device is transmitting data wirelessly over 2.4GHz.
	Off	The 2.4GHz Wi-Fi is disabled.
5GHz	On	The 5GHz Wi-Fi is activated.
	Flash	Device is transmitting data wirelessly over 5GHz.
	Off	The 5GHz Wi-Fi is disabled.
WAN	On	Link is established.
	Flash	Packets are transmitting or receiving.
	Off	WAN port is not connected.
USB	On	USB connection is established.
	Flash	Data is being transmitted.
	Off	USB connection is not established.

Table 2-1 LED Indications

2.1.3 Rear Panel

The rear panel provides the physical connectors connected to the power adapter and any other network device. Figure 2-4 shows the rear panel of the WDRT-1202AC.

Rear Panel

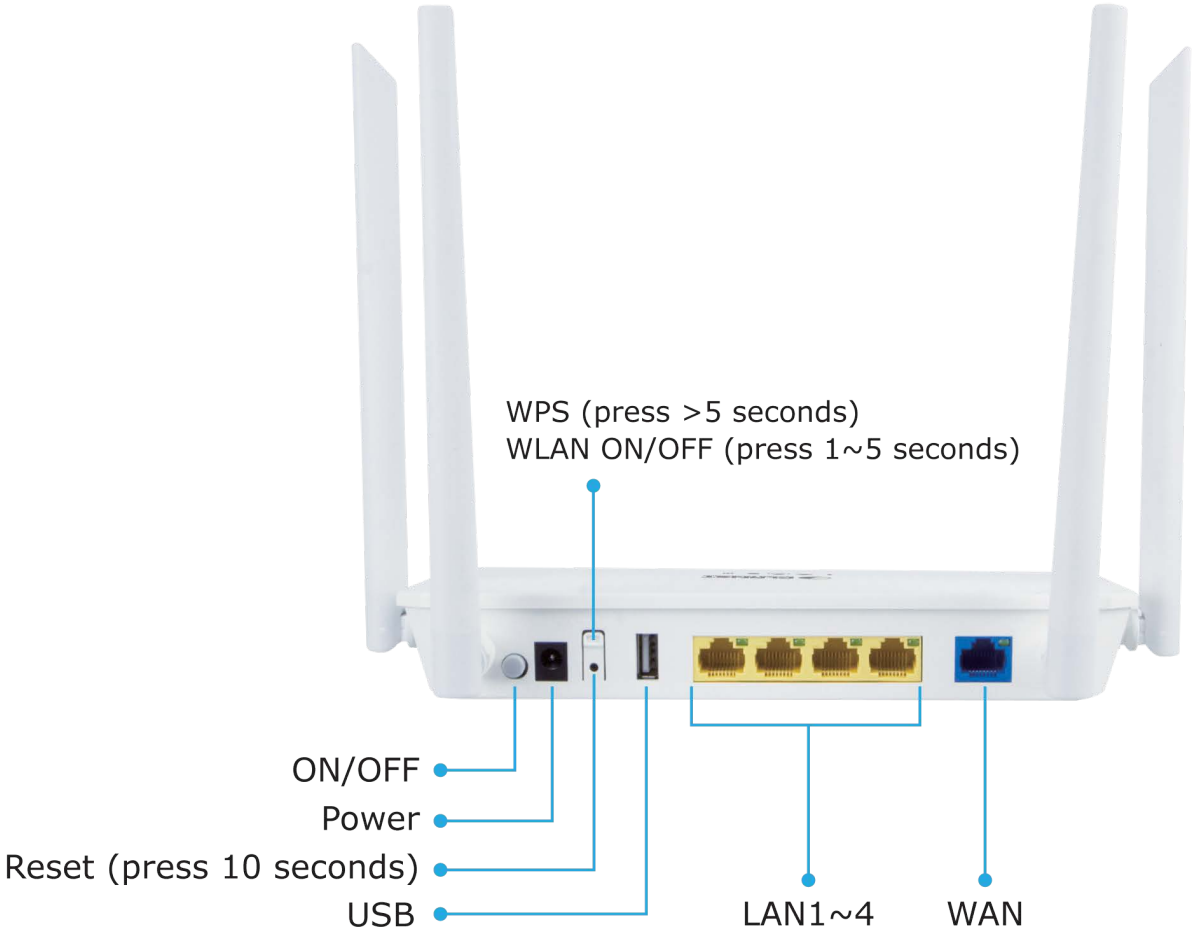


Figure 2-4 Rear Panel of the WDRT-1202AC

Interface	Description
WPS/WLAN	Press for 1 to 5 seconds to enable or disable WLAN function; press over 5 seconds to enable WPS function
Reset	Press the Reset button gently for 10 seconds and then release it. The system restores to the factory default settings
WAN	Connect to the Cable/xDSL Modem or the Ethernet
LAN1-4	Connect to the user's PC or network devices
Power	Connect to the power adapter provided in the package

Table 2-2 Interface Indications

Chapter 3. Connecting to the Router

3.1 System Requirements

- Broadband Internet Access Service (Cable/xDSL/Ethernet connection)
- One Cable/xDSL Modem that has an RJ45 connector (not necessary if the Router is connected directly to the Ethernet.)
- PCs with a working Ethernet Adapter and an Ethernet cable with RJ45 connectors
- PC subscribers use Windows XP, Windows Vista, Windows 7/8/10, MAC OS 9 or later, or Linux, UNIX or other platforms compatible with **TCP/IP** protocols
- The above PC is installed with a Web browser

Note

1. The Router in the following instructions means PLANET WDRT-1202AC.
2. It is recommended to use Internet Explorer 7.0 or above to access the Router.

3.2 Installing the Router

Before installing the Router, make sure your PC is connected to the Internet through the broadband service successfully at this moment. If there is any problem, please contact your local ISP. After that, please install the Router according to the following steps. Don't forget to pull out the power plug and keep your hands dry.

Step 1. Power off your PC, Cable/xDSL Modem and the Router.

Step 2. Locate an optimum location for the Router. The best place is usually at the center of your wireless network.

Step 3. Connect the PC or Switch/Hub in your LAN to the LAN Ports of the Router with Ethernet cable, shown in Figure 3-1.

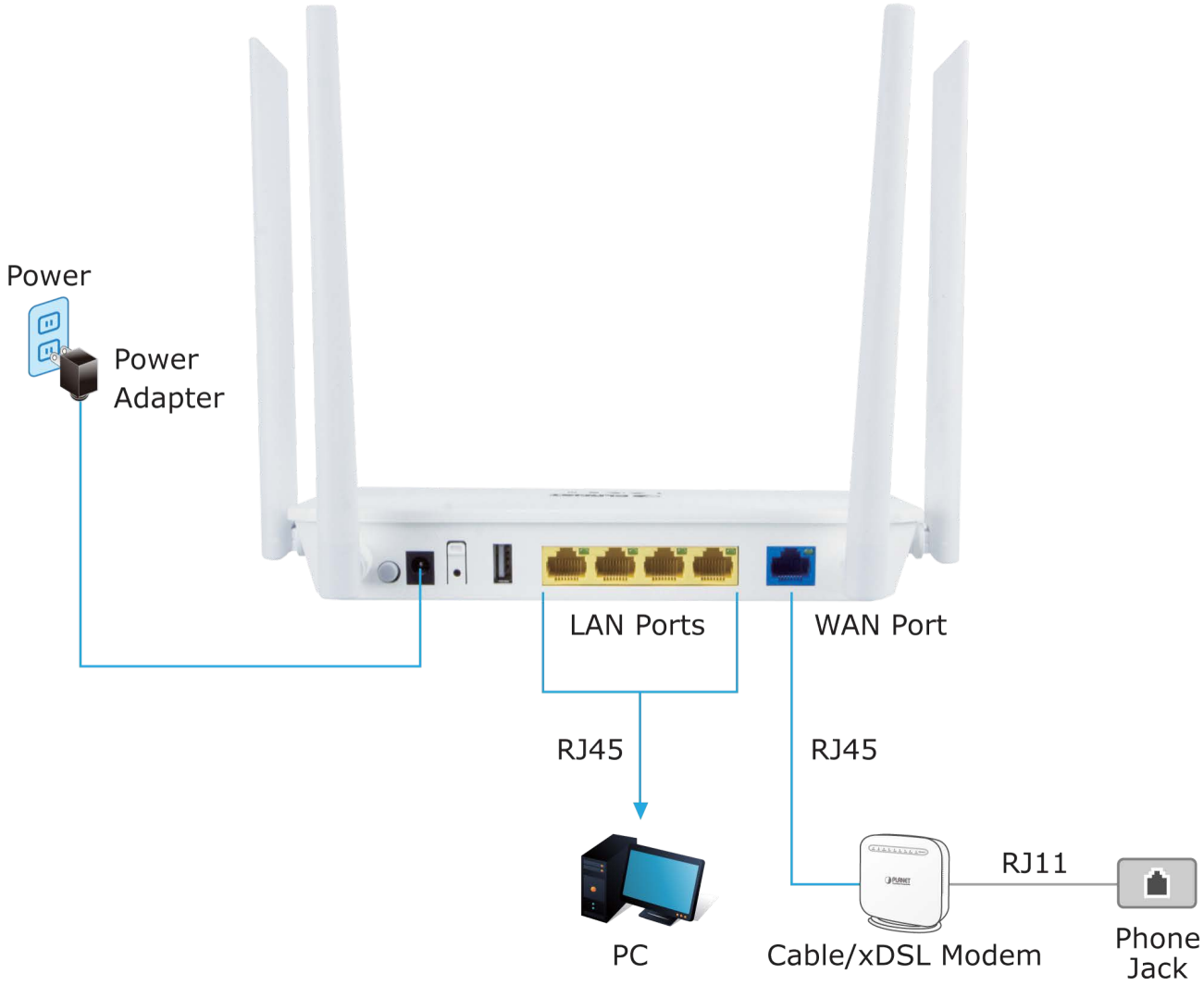


Figure 3-1 Hardware Installation of the WDRT-1202AC Wireless Router

Step 4. Connect the power adapter to the power socket on the Router, and the other end into an electrical outlet. Then power on the Router.

Step 5. Power on your PC and Cable/xDSL Modem.

Chapter 4. Quick Installation Guide

This chapter will show you how to configure the basic functions of your Wireless Router using **Quick Setup** within minutes.

A computer with wired Ethernet connection to the Wireless Router is required for the first-time configuration.

4.1 Manual Network Setup - TCP/IP Configuration

The default IP address of the Wireless Router is **192.168.1.1** and the default Subnet Mask is **255.255.255.0**. These values can be changed as you desire in the web UI of the Wireless Router. In this section, we use all the default values for description.

Whether the Wireless Router is configured via wired or wireless connection, the PC needs to be assigned an IP address first. Before you connect the local PC to the Wireless Router via wired or wireless connection, please configure the IP address for your PC in the following two ways first.

- **Obtaining an IP address automatically**
- **Configuring the IP address manually**

In the following sections, we'll introduce how to install and configure the TCP/IP correctly in **Windows 7**. And the procedures in other operating systems are similar. First, make sure your Ethernet Adapter is working, and refer to the Ethernet adapter's manual if needed.

4.1.1 Obtaining an IP Address Automatically

Summary:

1. Set up the TCP/IP Protocol in "**Obtain an IP address automatically**" mode on your PC.
2. Then the Wireless Router built-in DHCP server will assign IP address to the PC automatically.

If you are sure the DHCP server of Wireless Router is enabled, you can set up the TCP/IP Protocol in "**Obtain an IP address automatically**" mode on your PC. And then the Wireless Router built-in DHCP server will assign an IP address to the PC automatically.

1. Installing TCP/IP Component

1) On the Windows taskbar, click the **Start** button, point to **Control Panel,** and then click it.

2) Under the **Network and Internet** icon, click on the **View network status and tasks.** And then click **Change adapter settings**.

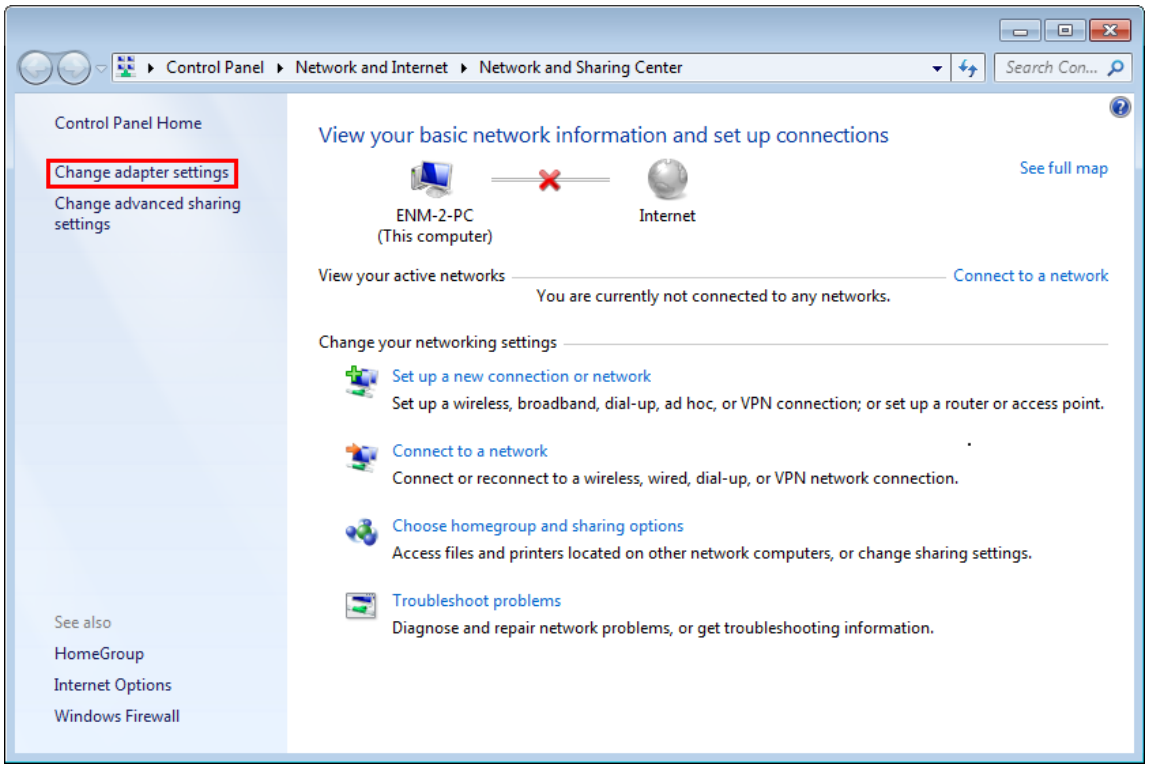


Figure 4-1 Change Adapter Settings

3) Right-click on the **Wireless Network Connection,** and select **Properties** in the appearing window.

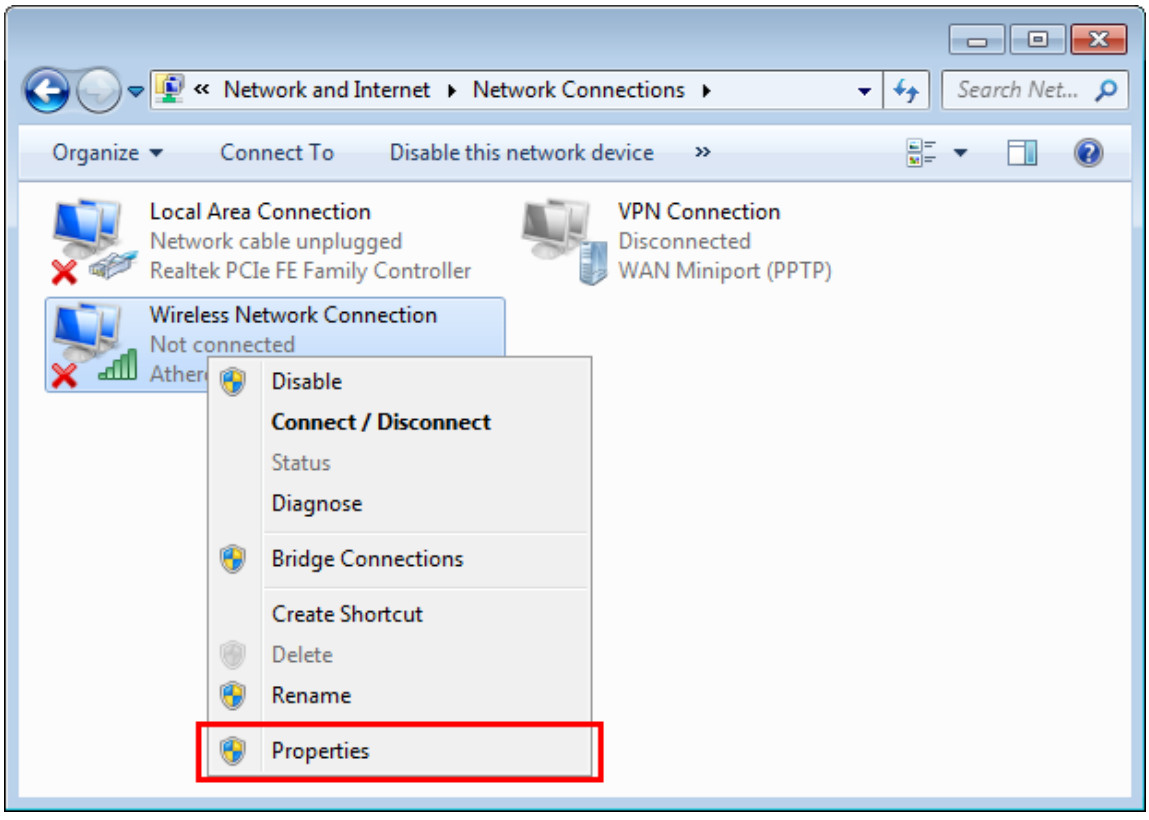


Figure 4-2 Network Connection Properties

4) In the prompt window shown below, double-click on the **Internet Protocol Version 4 (TCP/IPv4)**.

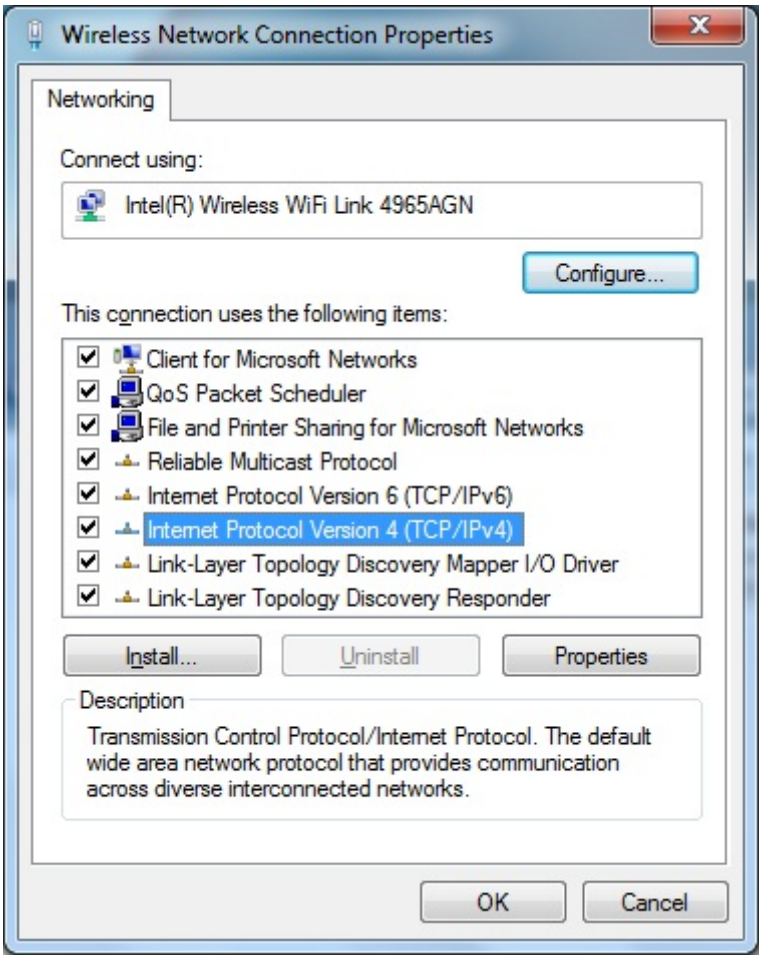


Figure 4-3 TCP/IP Setting

5) Choose **Obtain an IP address automatically**, and **Obtain DNS server address automatically** as shown in the figure below. Then click **OK** to save your settings.

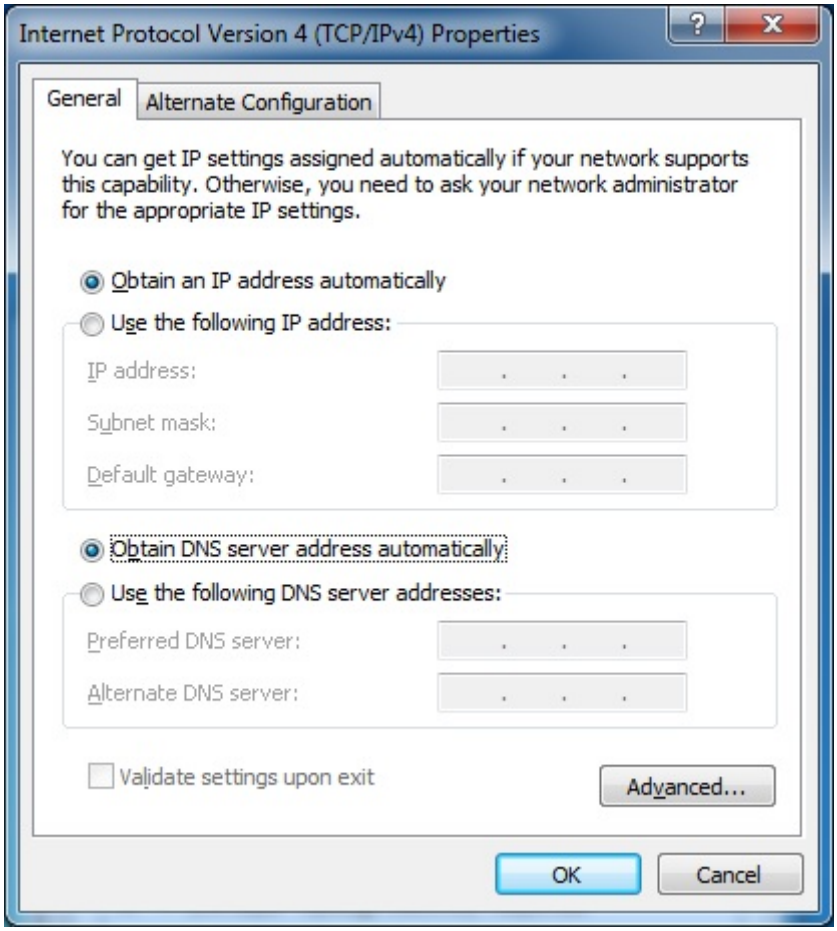


Figure 4-4 Obtain an IP Address Automatically

4.1.2 Configuring the IP Address Manually

Summary:

- Set up the TCP/IP Protocol for your PC.
- Configure the network parameters. The IP address is ***192.168.1.xxx*** ("xxx" is any number from 2 to 254), Subnet Mask is ***255.255.255.0***, and Gateway is ***192.168.1.1*** (The Router's default IP address)

If you are sure the DHCP server of Wireless Router is disabled, you can configure the IP address manually. The IP address of your PC should be 192.168.1.xxx (the same subnet of the IP address of the Wireless Router, and "xxx" is any number from 2 to 254), Subnet Mask is 255.255.255.0, and the Gateway is 192.168.1.1 (The default IP address of the Wireless Router)

1) Continue the settings from the last figure. Select **Use the following IP address** radio button.

2) If the LAN IP address of the Wireless Router is 192.168.1.1, enter IP address 192.168.1.x (x is from 2 to 254), and Subnet mask 255.255.255.0.

3) Enter the LAN IP address of the Wireless Router (the default IP is 192.168.1.1) into the default gateway field.

4) Select **Use the following DNS server addresses** radio button. In the preferred DNS Server field, you can enter the DNS server IP address provided by your local ISP. Then click OK to save your settings.

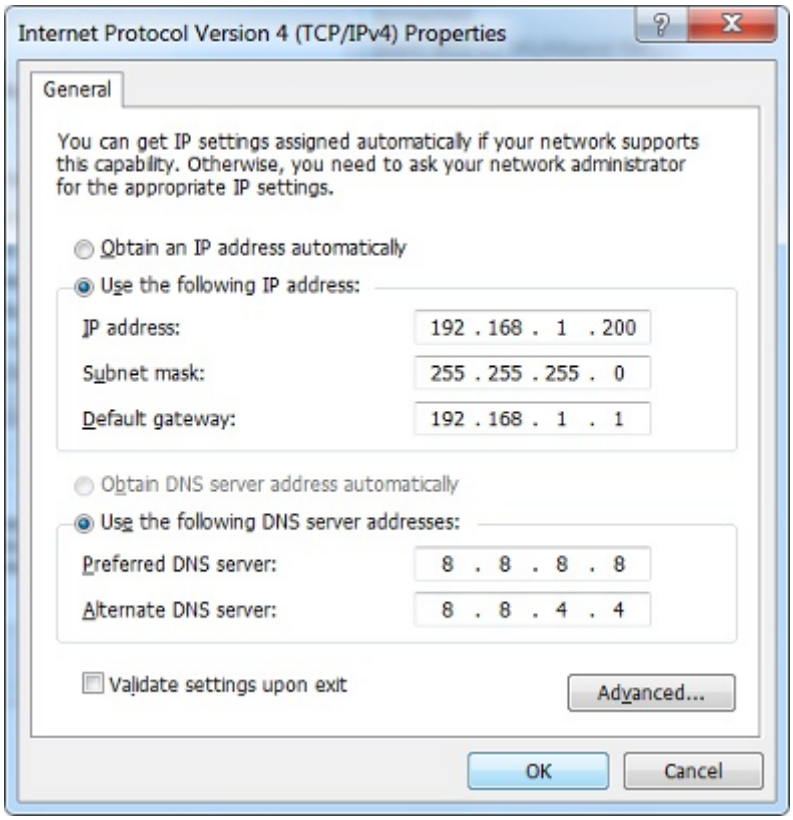


Figure 4-5 IP and DNS Server Addresses

Now, you can run the Ping command in the **command prompt** to verify the network connection between your PC and the Router. The following example is in **Windows 7** OS. Please follow the steps below:

1. Click on **Start**
2. Type "**cmd**" in the Search box.

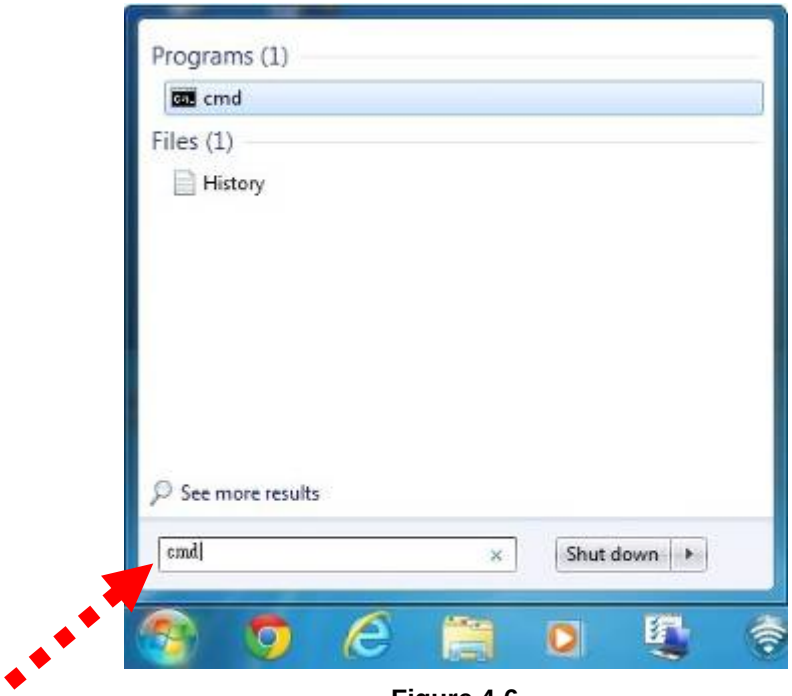


Figure 4-6

3. Open a command prompt, and type ping **192.168.1.1**, and then press **Enter**.

- If the result displayed is similar to Figure 4-7, it means the connection between your PC and the Router has been established well.

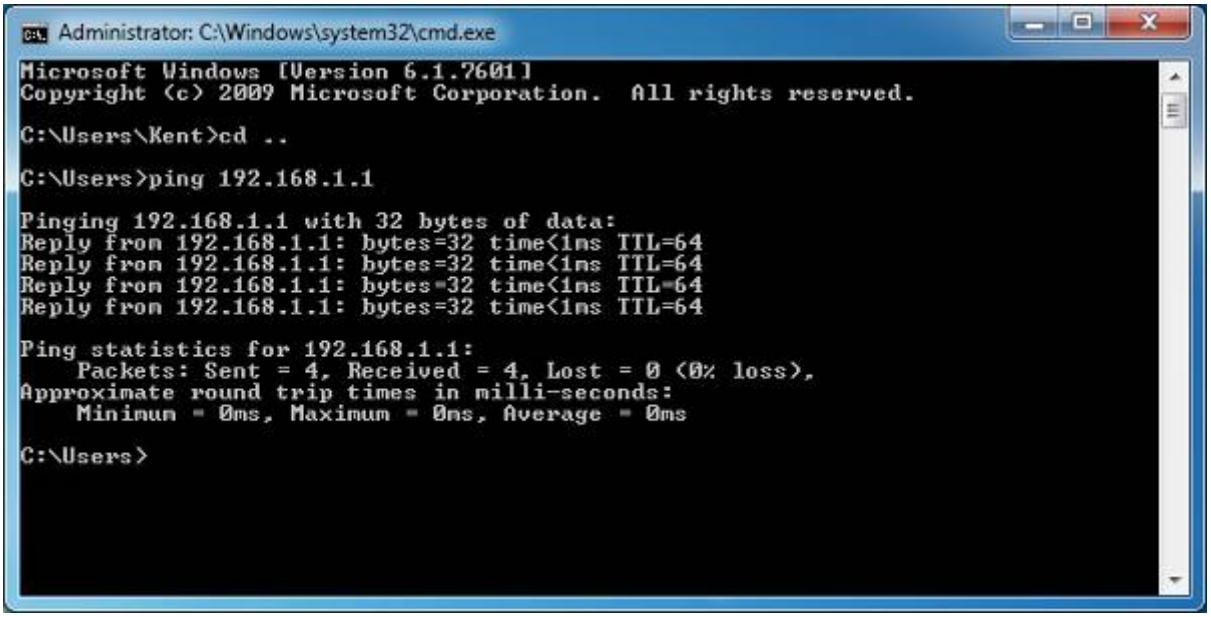


Figure 4-7 Successful Ping Command

- If the result displayed is similar to Figure 4-8, it means the connection between your PC and the Router has failed.

Figure 4-8 Failed Ping Command

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.

If the Router's IP address is 192.168.1.1, your PC's IP address must be within the range of 192.168.1.2 ~ 192.168.1.254.

4.2 Starting Setup in the Web UI

It is easy to configure and manage the WDRT-1202AC with the web browser.

Step 1. To access the configuration utility, open a web-browser and enter the default IP address http://192.168.1.1 in the web address field of the browser.

Figure 4-9 Login the Router

After a moment, a login window will appear. Enter **admin** for the User Name and Password, both in lower case letters. Then click the **Log In** button or press the **Enter** key.

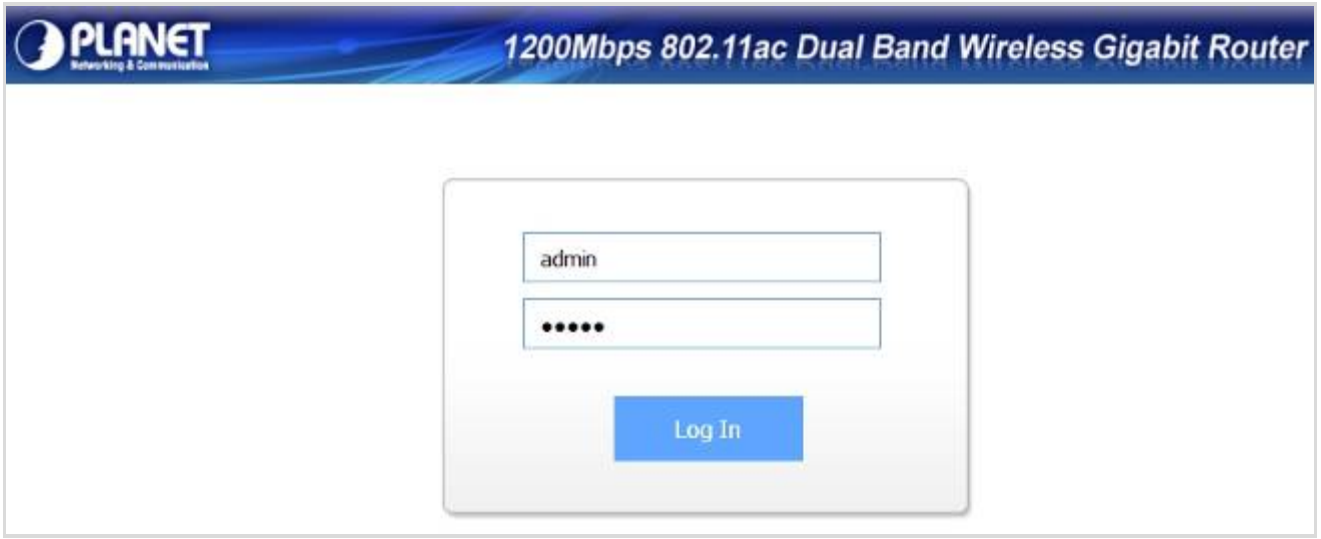


Figure 4-10 Login Window

Default IP Address: **192.168.1.1**

Default User Name: **admin**

Default Password: **admin**

Note

If the above screen does not pop up, it may mean that your web-browser has been set to a proxy. Go to Tools menu>Internet Options>Connections>LAN Settings in the screen that appears, cancel the Using Proxy checkbox, and click OK to finish it.

After entering the user name and password, the **Wizard Setup** page screen appears as Figure 4-11.

Figure 4-11 WDRT-1202AC Web UI Screenshot

Step 2. Choose "**Next**" and you can configure the router by yourself.

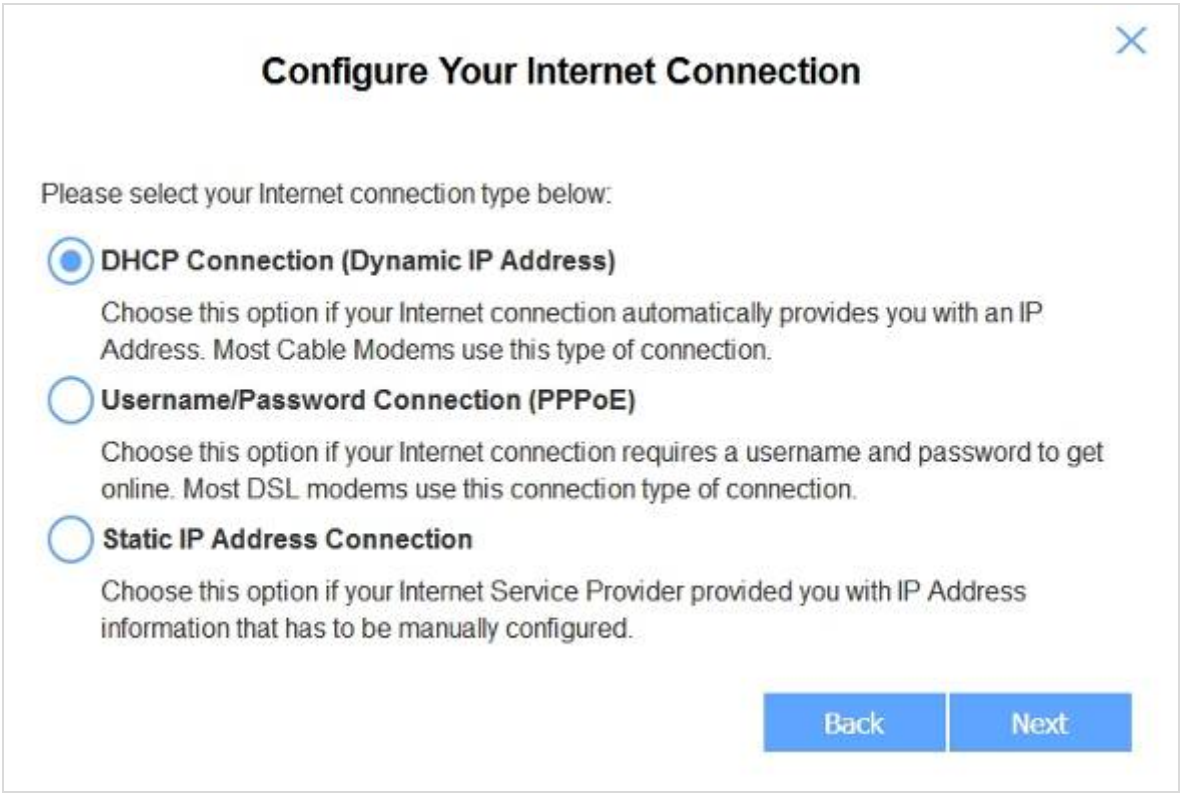


Figure 4-12 Configure the WAN setting.

Step 3. Please enter the **Wi-Fi Password**. Then click **Next** button.

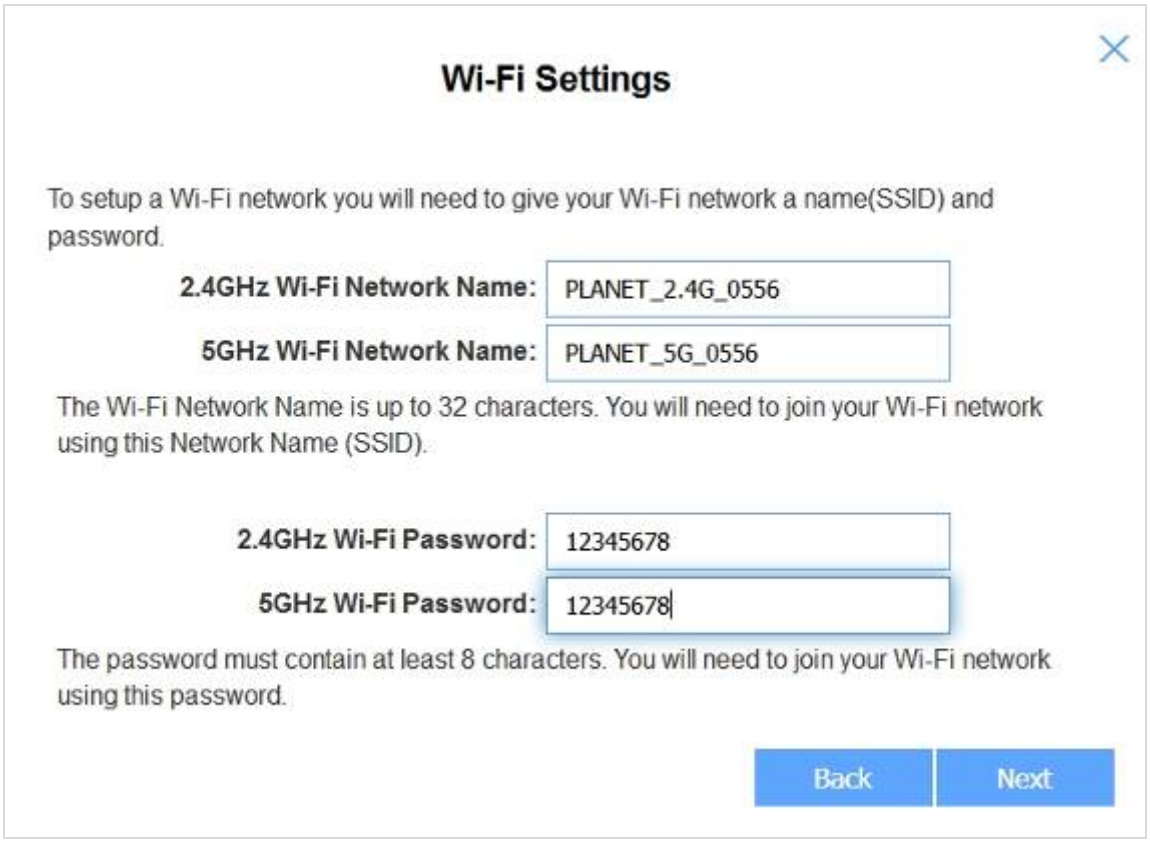


Figure 4-13 Wi-Fi Settings

Step 4. Please enter the **Device Admin Password**. Then click the **Next** button.

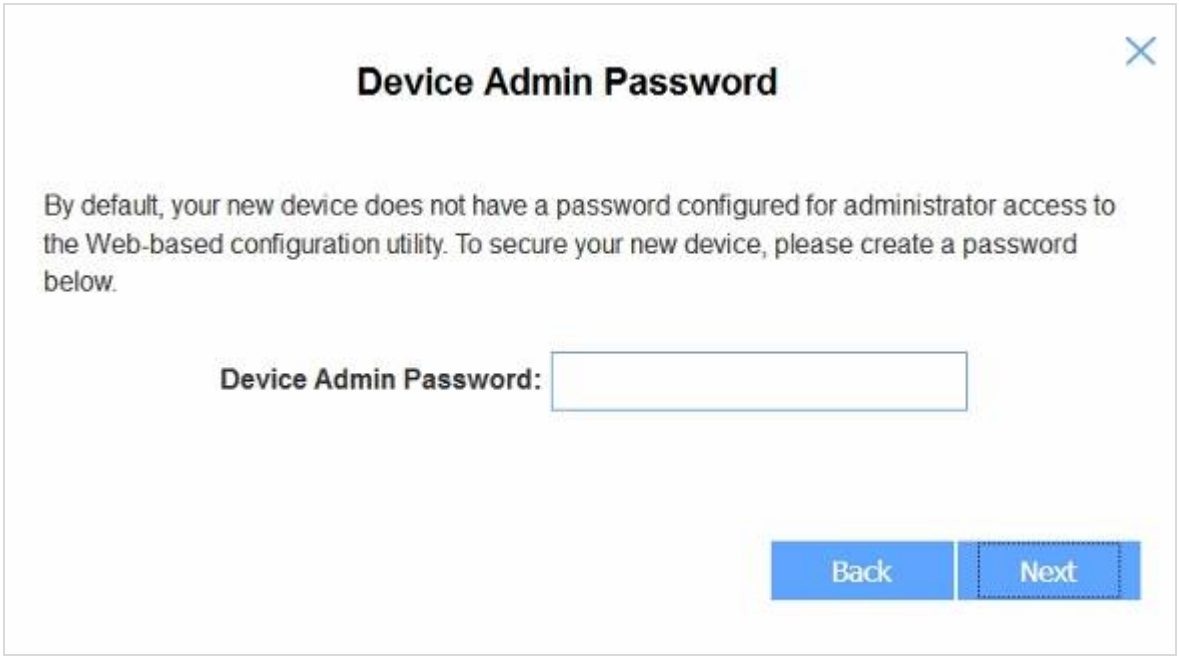


Figure 4-14 Device Admin Password

Step 5. Click the **Finish** button to check if the configuration takes effect.

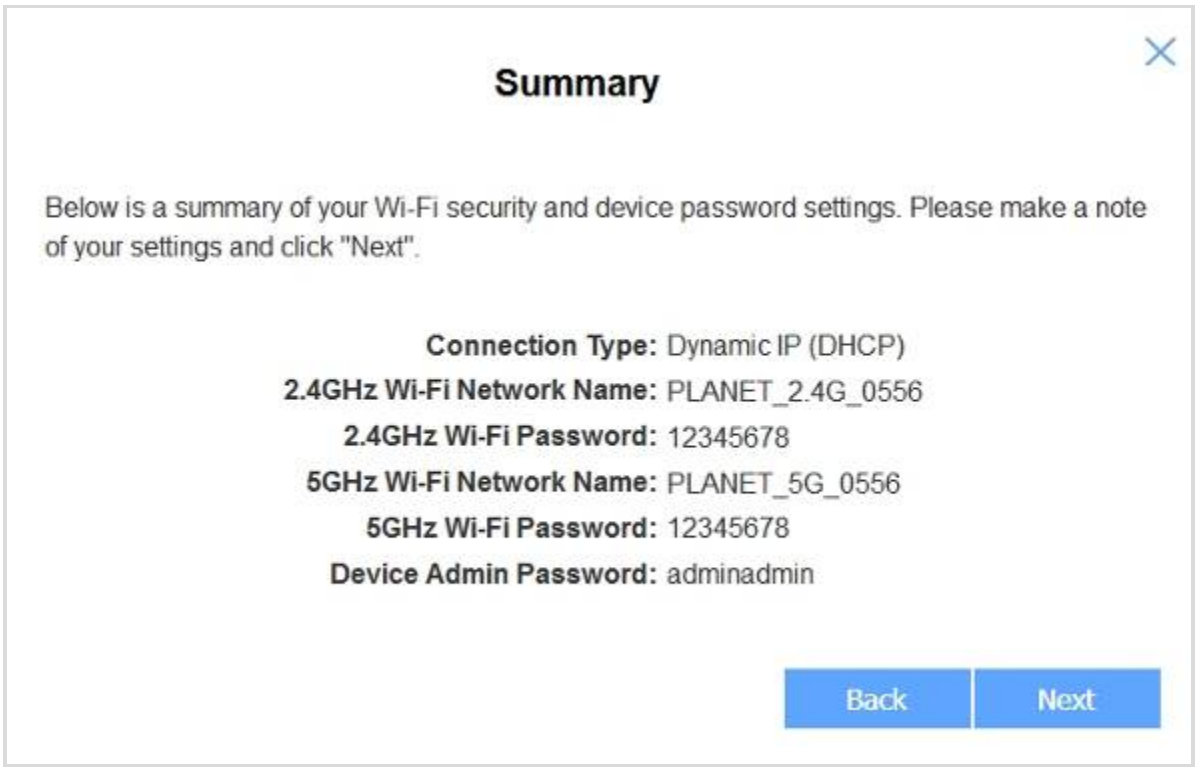


Figure 4-15 Wizard Configurations

Chapter 5. Configuring the Router

This chapter delivers a detailed presentation of router's functions and features under 4 main menus shown below, allowing you to manage the router with ease.

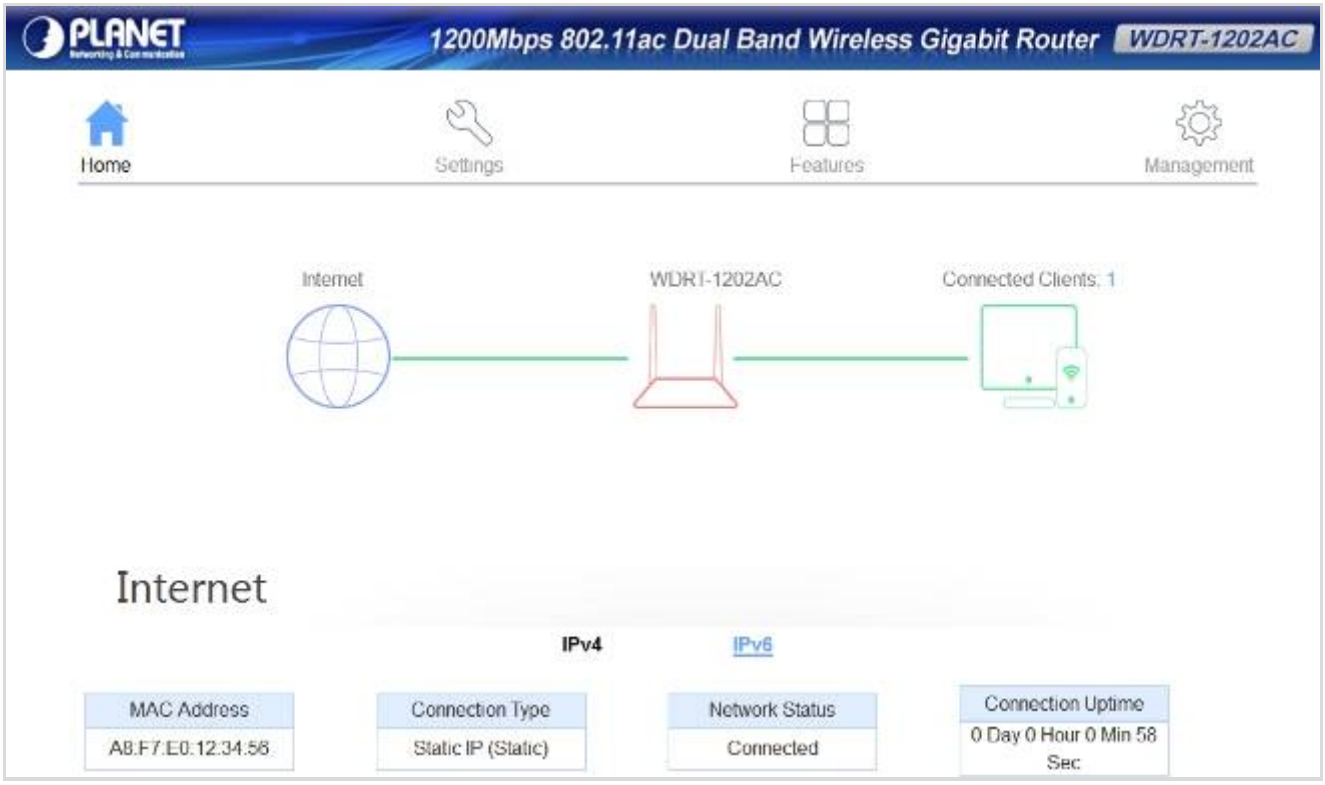


Figure 5-1 Router's Functions

5.1 Home

5.1.1 Internet

On this page, you can view information about the Internet status of the WDRT-1202AC, including MAC Address, Connection Type, Network Status, Connection Uptime, IP Address, Default Gateway, Primary DNS Server and Secondary DNS Server.

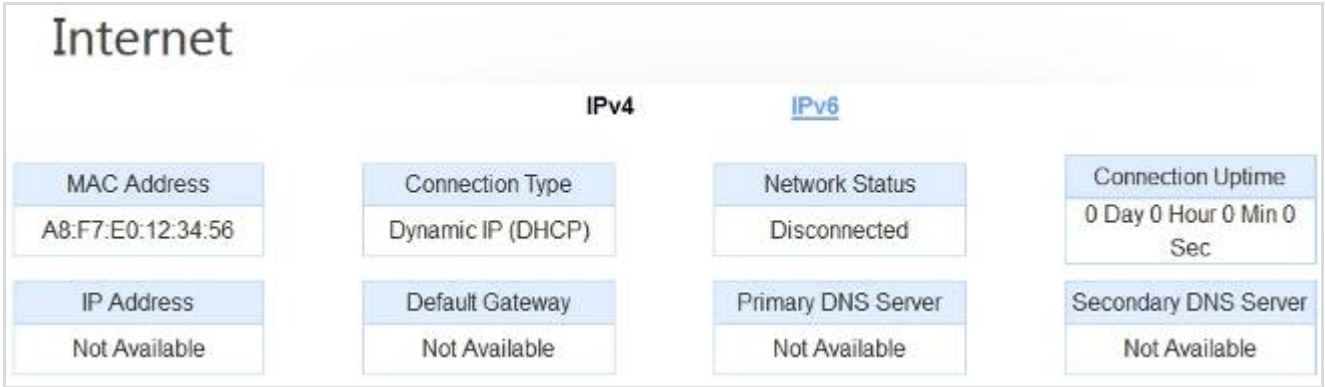


Figure 5-1-1 Router Status

The page includes the following information:

Object	Description
MAC Address	The physical address of the router, as seen from the Internet.
Connection Type	Indicating DHCP, PPPoE or Fixed IP.
Network Status	It shows “Disconnected” when the WAN is not connected or “Connected” when the WAN is connected.
Connection Uptime	It shows the uptime when the WAN is connected.
IP Address	The current Internet IP address. If assigned dynamically, and no Internet connection exists, “Not Avaliable” will be shown.
Default Gateway	The subnet mask associated with the Internet IP address.
Primary DNS Server	It shows the necessary DNS address provided by your ISP.
Secondary DNS Server	It shows the optional DNS address provided by your ISP.

5.1.2 WDRT-1202AC

On this page, you can view information about the current LAN and Wi-Fi status of the WDRT-1202AC.

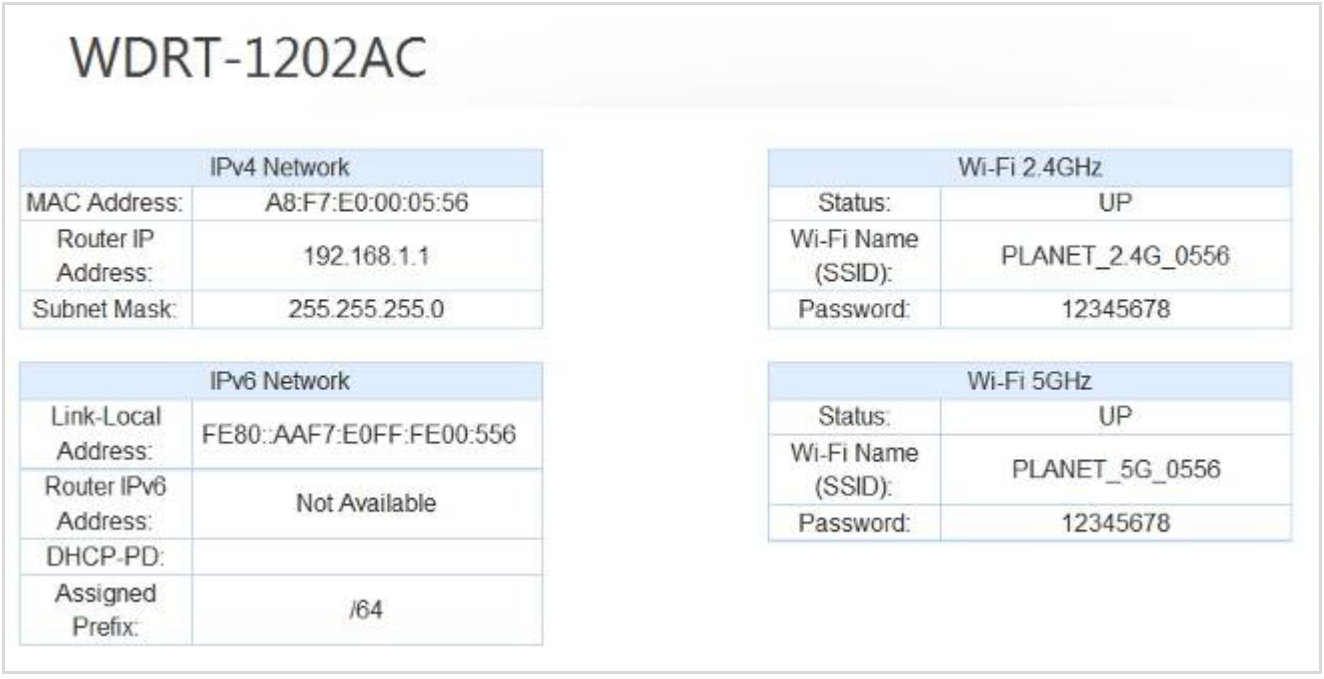


Figure 5-1-2 Connected Clients

5.1.3 Connected Clients

This page shows the IP addresses and host names of all the PCs in your network

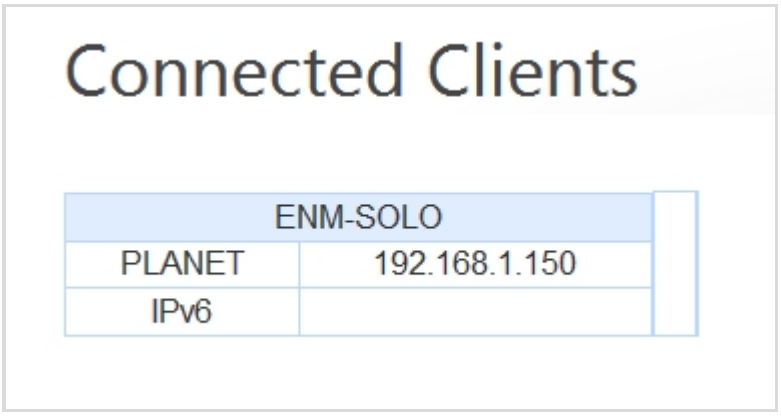


Figure 5-1-3 Connected Clients

5.2 Settings

5.2.1 WAN

On this page, you can configure the parameters of the WAN interface.

Note

If you have installed PPP software such as WinPoET (from Earthlink) or Enternet (from PacBell), then you have PPPoE. Select Yes. After selecting Yes and configuring your router, you will not need to run the PPP software on your PC to connect to the Internet.

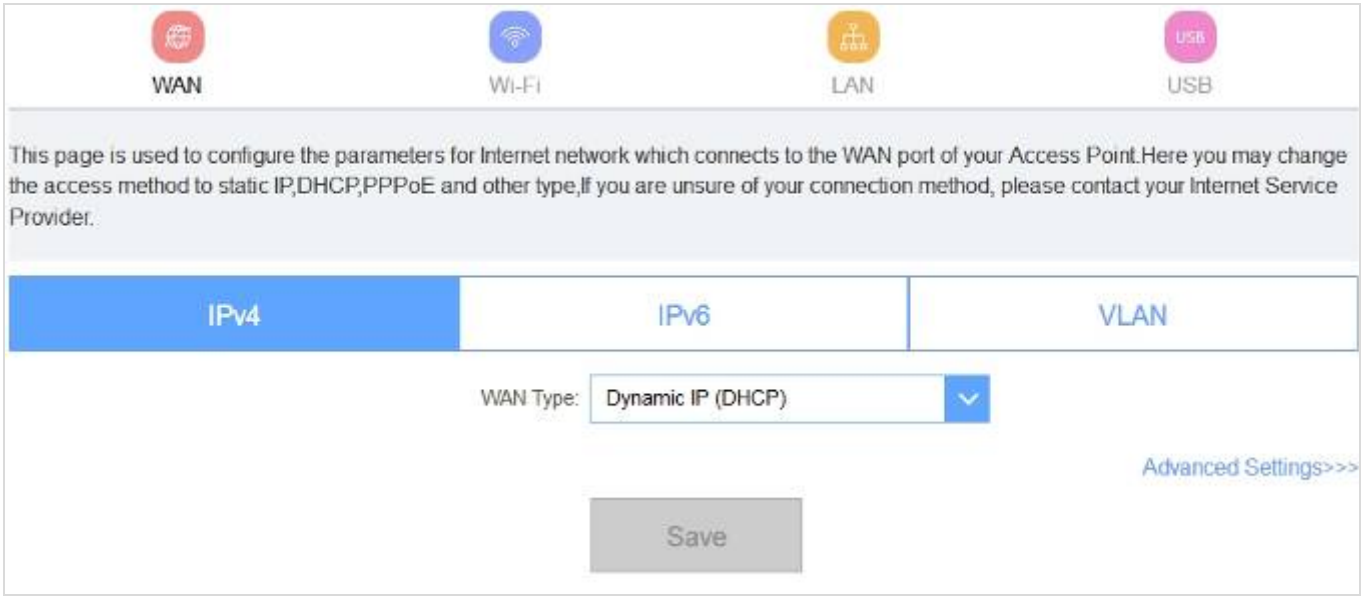


Figure 5-2-1 WAN

5.2.1.1. IPv4

■ **DHCP**

Choose "**Dynamic IP (DHCP)**" and the router will automatically obtain IP addresses, subnet masks and gateway addresses from your ISP.

Figure 5-2-2 DHCP

■ Static IP

If your ISP offers you static IP Internet connection type, select "**Static IP** " and then enter IP address, subnet mask, primary DNS and secondary DNS information provided by your ISP in the corresponding fields.

Figure 5-2-3 Static IP

Object	Description
IP Address	Enter the WAN IP address provided by your ISP. Inquire your ISP if you are not clear.
Subnet Mask	Enter WAN Subnet Mask provided by your ISP.
Default Gateway	Enter the WAN Gateway address provided by your ISP.
Primary DNS	Enter the necessary DNS address provided by your ISP.
Secondary DNS	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
MTU	You can keep the maximum transmission unit (MTU) as default.

■ PPPoE

Select **PPPoE**, if your ISP is using a PPPoE connection and provide you with PPPoE user name and password information.

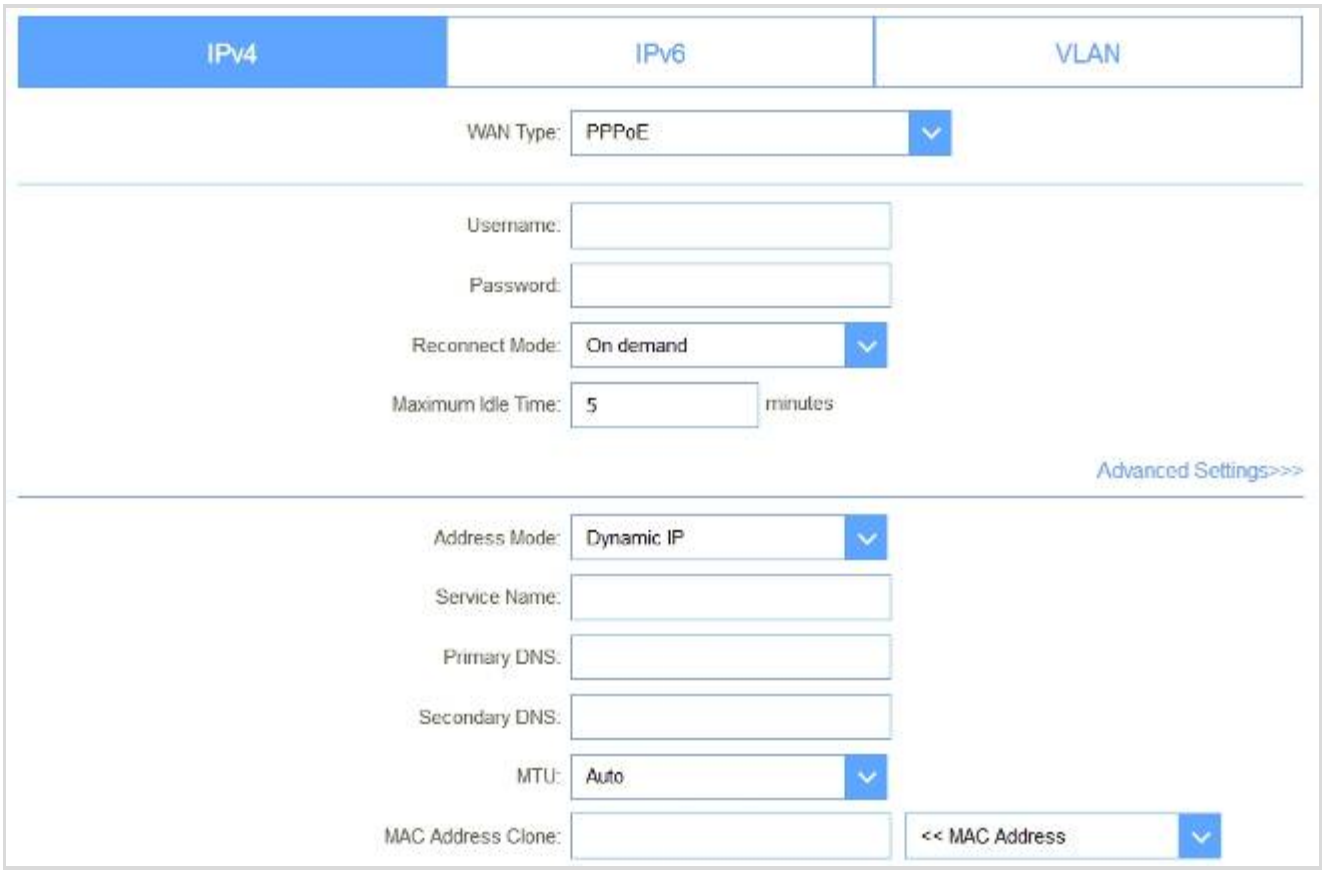


Figure 5-2-4 PPPoE

Object	Description
Username	Enter the User Name provided by your ISP.
Password	Enter the password provided by your ISP.
Reconnect Mode	Select “Always On”, “On demand” or “Manual”.
Maximum Idle Time	If you select “On demand”, you can configure the time which is auto disconnecting to ISP.
Address Mode	Select “Dynamic IP” or “Static IP”
IP Address	Enter the IP Address.
Service Name	Type the name of this router.
Primary DNS Address	Enter the necessary DNS address provided by your ISP.
Secondary DNS Address	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
MTU	You can keep the maximum transmission unit (MTU) as default.

■ PPTP

The **Point-to-Point Tunneling Protocol** (**PPTP**) is a method for implementing virtual private networks (**VPN**).

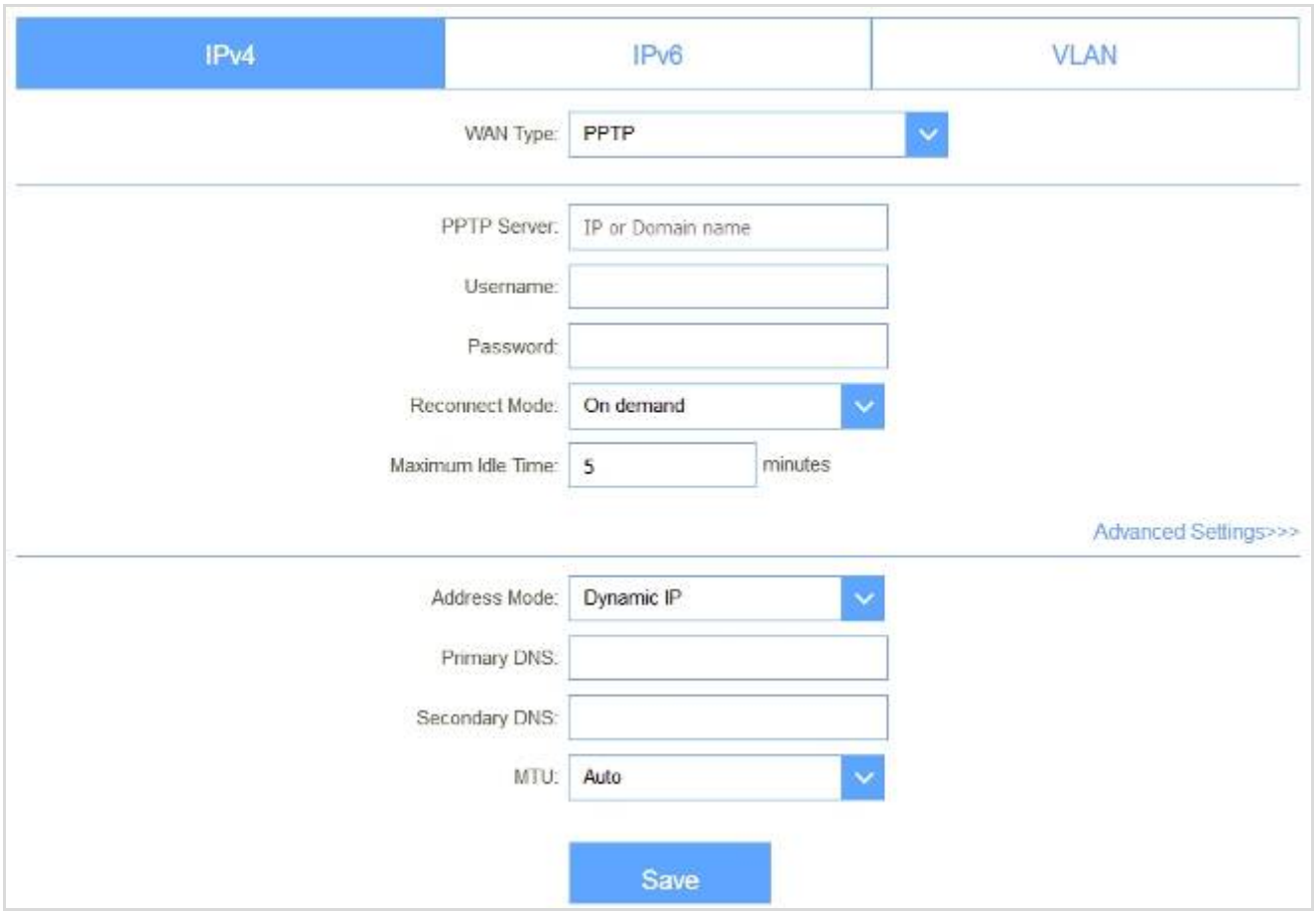


Figure 5-2-5 PPTP

Object	Description
PPTP Server	Type the name of PPTP Server.
Username	Enter the user name provided by your ISP.
Password	Enter the password provided by your ISP.
Reconnect Mode	Select “Always On”, “On demand” or “Manual”.
Maximum Idle Time	If you select “On demand”, you can configure the time which is auto disconnecting to ISP.
Address Mode	Select “Dynamic IP” or “Static IP”
PPTP IP Address	Enter the IP Address.
PPTP Subnet Mask	Enter the subnet mask.
PPTP Gateway IP Address	Enter the gateway address provided by your ISP.
Primary DNS	Enter the necessary DNS address provided by your ISP.
Secondary DNS	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
MTU	You can keep the maximum transmission unit (MTU) as default.

■ L2TP

Layer 2 Tunneling Protocol (**L2TP**) is a tunneling protocol used to support virtual private networks (**VPN**) or as part of the delivery of services by ISPs.

Figure 5-2-6 L2TP

Object	Description
L2TP Server	Type the name of L2TP Server.
Username	Enter the user name provided by your ISP.
Password	Enter the password provided by your ISP.
Reconnect Mode	Select “Always On”, “On demand” or “Manual”.
Maximum Idle Time	If you select “On demand”, you can configure the time which is auto disconnecting to ISP.
Address Mode	Select “Dynamic IP” or “Static IP”
L2TP IP Address	Enter the IP Address.
L2TP Subnet Mask	Enter the subnet mask.
L2TP Gateway IP Address	Enter the gateway address provided by your ISP.
Primary DNS	Enter the necessary DNS address provided by your ISP.
Secondary DNS	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
MTU	You can keep the maximum transmission unit (MTU) as default.

■ DS-Lite

Figure 5-2-7 DS-Lite

Object	Description
DS-Lite Configuration	Select “DS-Lite DHCPv6 Option” or “Manual Configuration”
AFTR IPv6 Address	Enter the AFTR IPv6 address.
B4 IPv4 Address	Enter the B4 IPv4 address.
WAN IPv6 Address	It shows the IPv6 WAN address if available.
IPv6 WAN Gateway	It shows the IPv6 WAN gateway if available.

5.2.1.2. IPv6

■ Auto Detection

Figure 5-2-8 Auto Detection

Object	Description
DNS Type	Select “Obtain a DNS server address automatically” or “Use the following DNS address”.
Enable DHCP-PD	Enable DHCP-PD.
LAN IPv6 Address	Enter LAN IPv6 Address.
Enable Automatic IPv6 Address Assignment	Enable “Automatic IPv6 Address Assignment” function.
Enable Automatic DHCP-PD in LAN	Enable “Automatic DHCP-PD in LAN” function.
Auto Configuration Type	Select “SLAAC+Stateless DHCP”, “SLAAC+RDNSS” or “Stateful DHCPv6”.
Router Advertisement Lifetime	Default is 60 minutes.
IPv6 Address Range (Start)	Enter the IPv6 Address range. Default is 1.
IPv6 Address Range (End)	Enter the IPv6 Address range. Default is 99.

■ Static IPv6

Figure 5-2-9 Static IPv6

Object	Description
Use Link-Local Address	Enable “ Use Link-Local Address”.
IPv6 Address	Enter WAN IPv6 address.
Subnet Prefix Length	Enter subnet prefix length.
Default Gateway	Enter default gateway of the router.
Primary DNS Server	Enter primary IPv6 DNS server.
Secondary DNS Server	Enter secondary IPv6 DNS server.
LAN IPv6 Address	Enter LAN IPv6 Address.

■ Auto Configuration (SLAAC/DHCPv6)

Figure 5-2-10 Auto Configuration

Object	Description
DNS Type	Select “Obtain a DNS server address automatically” or “Use the following DNS address”.
Enable DHCP-PD	Enable DHCP-PD
LAN IPv6 Address	Enter LAN IPv6 Address.
Enable Automatic IPv6 Address Assignment	Enable “Automatic IPv6 Address Assignment” function.
Enable Automatic DHCP-PD in LAN	Enable “Automatic DHCP-PD in LAN” function.
Auto Configuration Type	Select “SLAAC+Stateless DHCP”, “SLAAC+RDNSS” or “Stateful DHCPv6”.
Router Advertisement Lifetime	Default is 60 minutes.
IPv6 Address Range (Start)	Enter the IPv6 Address range. Default is 1.
IPv6 Address Range (End)	Enter the IPv6 Address range. Default is 99.

■ PPPoE (IPv6)

Figure 5-2-11 PPPoE IPv6

Object	Description
PPPoE Session	Select “Share with IPv4” or “Create a new session”
Username	Enter the username of PPPoE IPv6
Password	Enter the password of PPPoE IPv6
Address Mode	Select “Dynamic IP” or “Static IP”
IP Address	Enter the IPv6 Address
MTU	You can keep the maximum transmission unit as default.

■ IPv6 in IPv4 tunnel

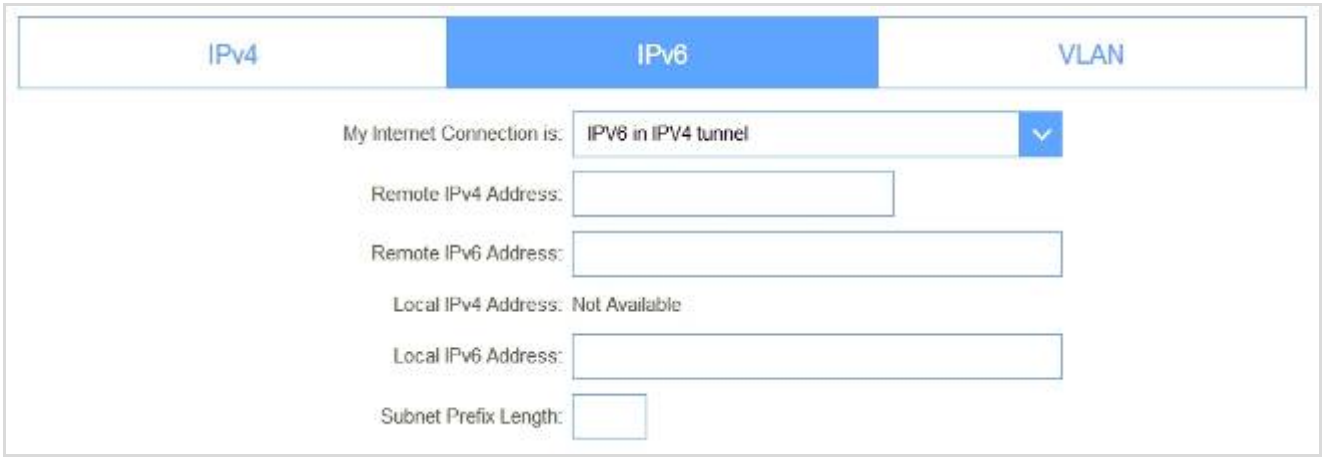


Figure 5-2-12 IPv6 in IPv4 tunnel

Object	Description
Remote IPv4 Address	Enter the remote IPv4 address
Remote IPv6 Address	Enter the remote IPv6 address
Local IPv6 Address	Enter the local IPv6 Address
Subnet Prefix Length	Enter the subnet prefix length

■ 6to4

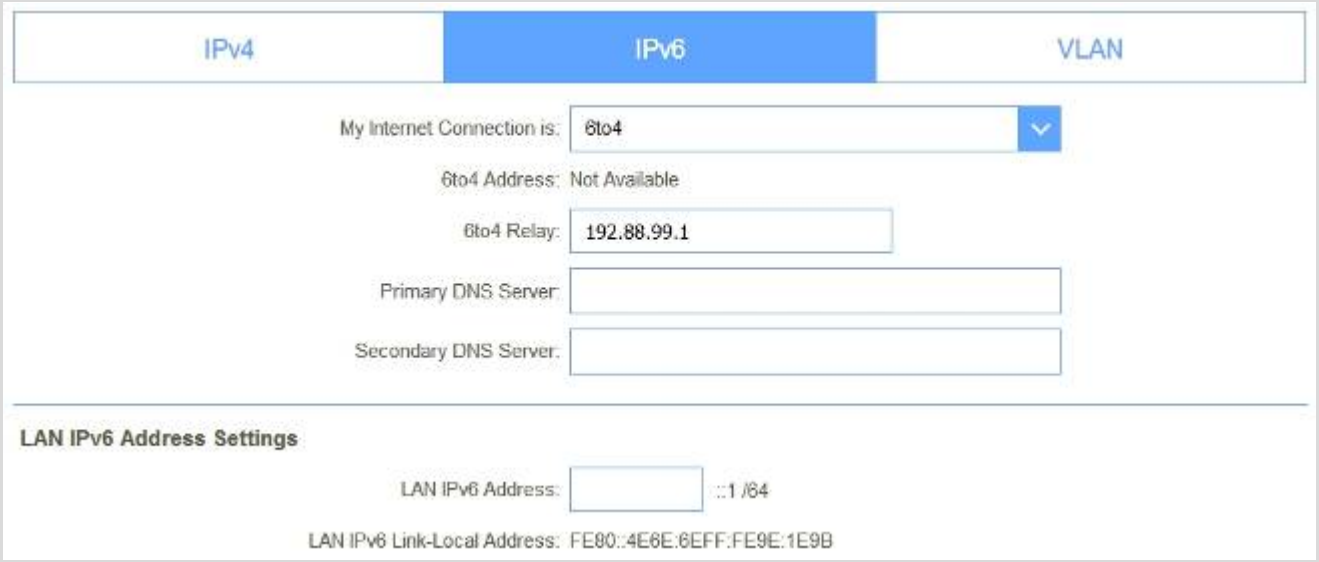


Figure 5-2-13 6to4

Object	Description
6to4 Relay	Enter the 6to4 relay
Primary DNS Server	Enter the primary DNS server
Secondary DNS Server	Enter the secondary DNS server
LAN IPv6 Address	Enter the LAN IPv6 Address

■ 6rd

Figure 5-2-14 6rd

Object	Description
Primary DNS Server	Enter the primary DNS server
Secondary DNS Server	Enter the secondary DNS server
6rd Configuration	Select “6rd DHCP Option” or “Manual Configuration”
6rd IPv6 Prefix	Enter 6rd IPv6 prefix
WAN IPv4 Address	Enter the WAN IPv4 Address
6rd Border Relay IPv4 Address	Enter the 6rd border relay IPv4 address

5.2.1.3. VLAN

Figure 5-2-15 VLAN

Object	Description
Enable	Enable or disable VLAN
Priority ID	Enable priority ID to select priority from 0 to 7
Internet VLAN ID	Enter the VLAN ID between 0 and 4096
Priority	Select priority from 0 to 7

5.2.2 Wi-Fi

5.2.2.1. Wi-Fi

■ **2.4GHz**

Figure 5-2-16 2.4GHz Wi-Fi

Object	Description
Status	You may choose to enable or disable Wireless function.
Wi-Fi Name (SSID)	Set a name (SSID) for your wireless network. The ID of the wireless network. User can access the wireless network through it only. However, if you switch to Client Mode, this field becomes the SSID of the AP you want to connect with. Default: **PLANET_2.4G_XXXX** **("X" means the last 4 digits of the MAC address.)**
Password	Enter the Wi-Fi password
Security Mode	Select the security mode from the **Security Mode** dropdown list. There are 2 options in the Security Mode dropdown list: ■ **None** ■ **WPA/WPA2-Personal**
802.11 Mode	Set the wireless mode to which you need. Default is "**Mixed 802.11b/g/n**". It is strongly recommended that you set the Band to "802.11b/g/n", and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to the WDRT-1202AC.

Wi-Fi Country/Region	You may select the country close to you.
Wi-Fi Channel	For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or “Auto” to let device detect and select the best possible channel for your wireless network to operate on from the drop-down list.
Transmission Power	Set the transmit power of router. The default is **“High**”.
Channel Width	Select a proper channel bandwidth to enhance wireless performance. When there are 11b/g and 11n wireless clients, please select the 802.11n mode of 20/40MHz frequency band.
HT20/40 Coexistence	Default is disable
Visibility Status	You may choose to visible or invisible SSID broadcast. When it is enabled, the router SSID will be broadcast in the wireless network, so that it can be scanned by wireless clients and they can join the wireless network with this SSID.
Schedule	Select “Always Enable” or configure the schedule for some devices to access.

■ 5GHz

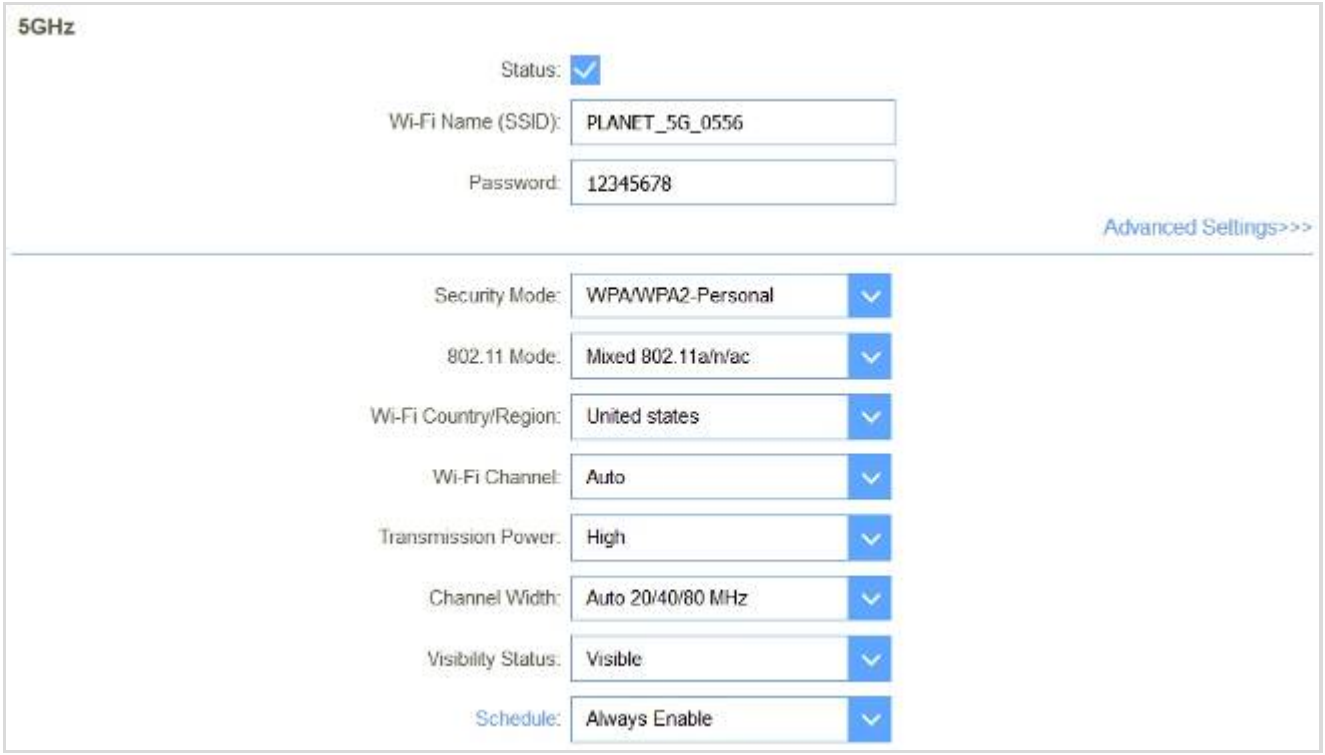


Figure 5-2-17 5GHz Wi-Fi

Object	Description
Status	You may choose to enable or disable Wireless function.
Wi-Fi Name (SSID)	Set a name (SSID) for your wireless network. User can access the wireless network through the ID only. However, if you switch to client mode, this field becomes the SSID of the AP you want to connect with. Default: **PLANET_5G_XXXX** **("X" means the last 4 digits of the MAC address.)**
Password	Enter the Wi-Fi password
Security Mode	Select the security mode from the **Security Mode** dropdown list. There are 2 options in the Security Mode dropdown list: ■ **None** ■ **WPA/WPA2-Personal**
802.11 Mode	Set the wireless mode to which you need. Default is "**Mixed 802.11a/n/ac**". It is strongly recommended that you set the Band to "802.11a/n/ac", and all of 802.11a, 802.11n, and 802.11ac wireless stations can connect to the WDRT-1202AC.
Wi-Fi Country/Region	You may select the country close to you.
Wi-Fi Channel	For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or "**Auto**" to let device detect and select the best possible channel for your wireless network to operate on from the drop-down list.
Transmission Power	Set the transmit power of router. The default is **"High**".
Channel Width	Select a proper channel bandwidth to enhance wireless performance. When there are 11a/n and 11ac wireless clients, please select the 20/40/80MHz frequency band.
Visibility Status	You may choose to visible or invisible SSID broadcast. When it is enabled, the router SSID will be broadcast in the wireless network, so that it can be scanned by wireless clients and they can join the wireless network with this SSID.
Schedule	Select "Always Enable" or configure the schedule for some devices to access.

■ Wi-Fi Protected Setup (WPS)

WPS (**Wi-Fi Protected Setup**) is designed to ease setup of security Wi-Fi networks and subsequently network management. The WPS enables the PC with WPS function to connect to the wireless network of the AP without setting any parameters, such as SSID, security mode, or password.

Figure 5-2-18 WPS

5.2.3 LAN

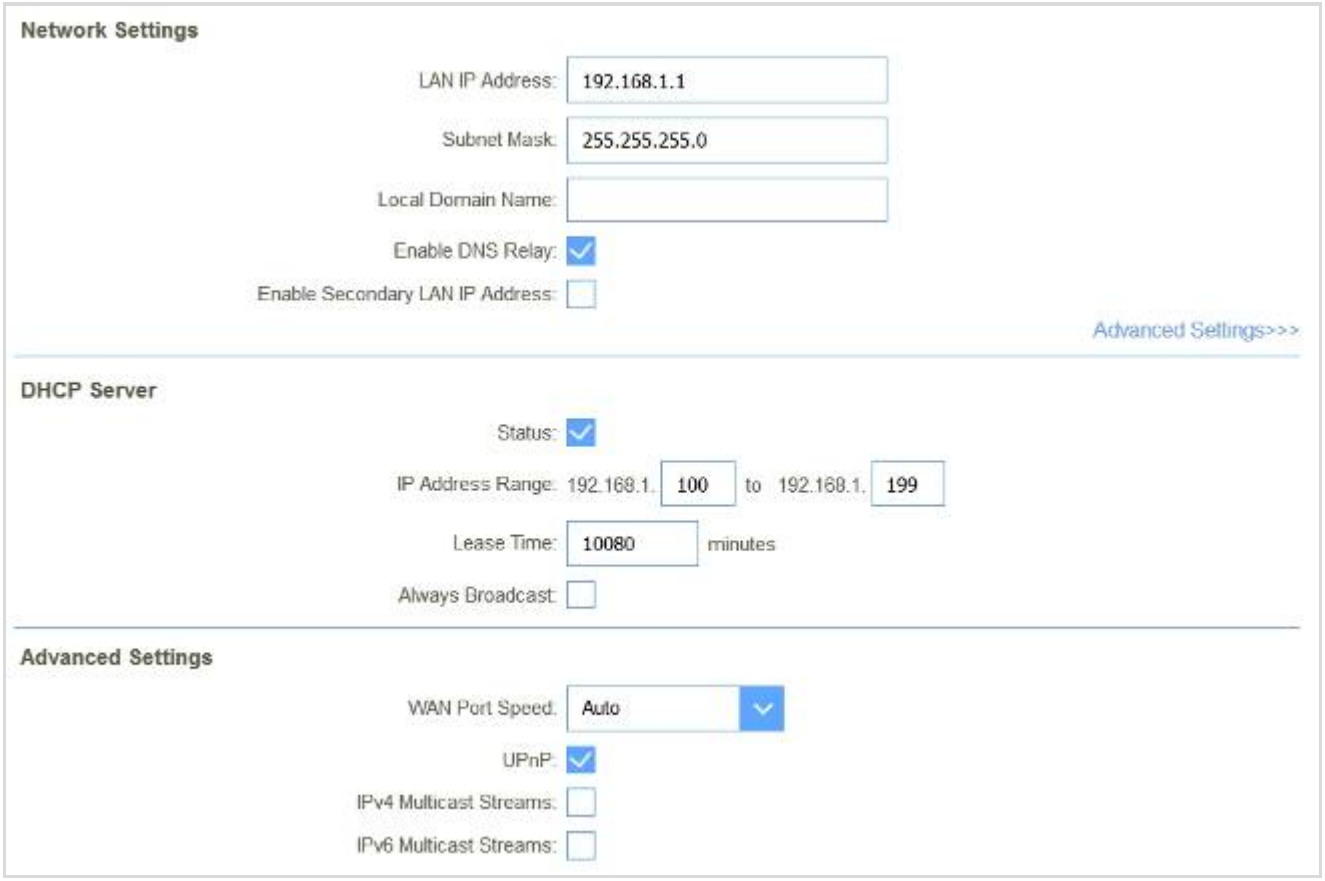


Figure 5-2-19 LAN

Object	Description
LAN IP Address	Router's LAN IP. The default is **192.168.1.1**. You can change it according to your needs.
Subnet Mask	Router's LAN subnet mask.
Local Domain Name	Set the domain name of the server.
Enable DNS Relay	Enable or disable the DNS relay.
Enable Secondary LAN IP Address	Enable or disable secondary LAN IP address.
DHCP Server Status	If it is selected, the router serves as the DHCP server and automatically assigns IP addresses to all computers in the LAN.
IP Address Range	Enter the start and end IP address of all the available successive IPs.
Lease Time	Select the time for using one assigned IP from the dropdown list. After the lease time, the AP automatically assigns new IP addresses to all connected computers.
Always Broadcast	This causes the DHCP server to respond to requests with a broadcast instead of unicast.

WAN Port Speed	Select "**Auto**", "1**000Mbps**", "**100Mbps**" or "**10Mbps**" from the drop-down list.
UPnP	Enable or disable UPnP function. UPnP can be enabled or disabled for automatic device configuration. The default setting for UPnP is enabled. If disabled, the router will not allow any device to automatically control the resources, such as port forwarding (mapping), of the router.
IPv4 Multicast Streams	Enable or disable IPv4 multicast streams.
IPv6 Multicast Streams	Enable or disable IPv6 multicast streams.

5.2.4 USB

The WDRT-1202AC has a built-in USB port which can be connected to an external USB storage device for file sharing. Moreover, the DLNA (Digital Living Network Alliance) compliant media server feature allows multimedia contents, such as streaming videos, music and photos, to be easily shared among SmartTVs, tablets, mobile phones and laptops on a home network. Thus, all clients on the network can share mass storage through the WDRT-1202AC without complicated network configuration. Via the USB port, it also can output 5V DC power to charge any USB compliant devices.

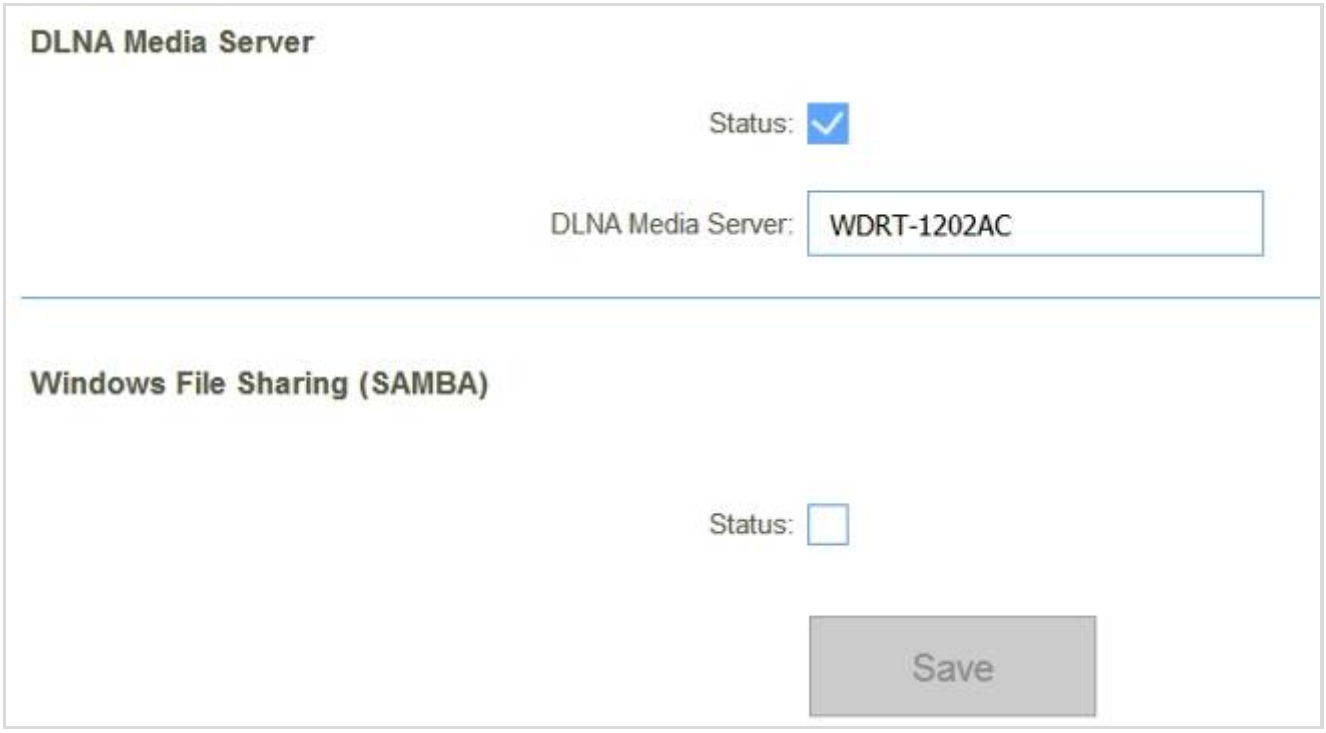


Figure 5-2-20 USB

Enable "**Windows File Sharing**" and connect a USB device to the USB port of the router. Click **Run** or **Search Windows** in the **Start Menu** of your PC and input the address of the router 192.168.1.1.

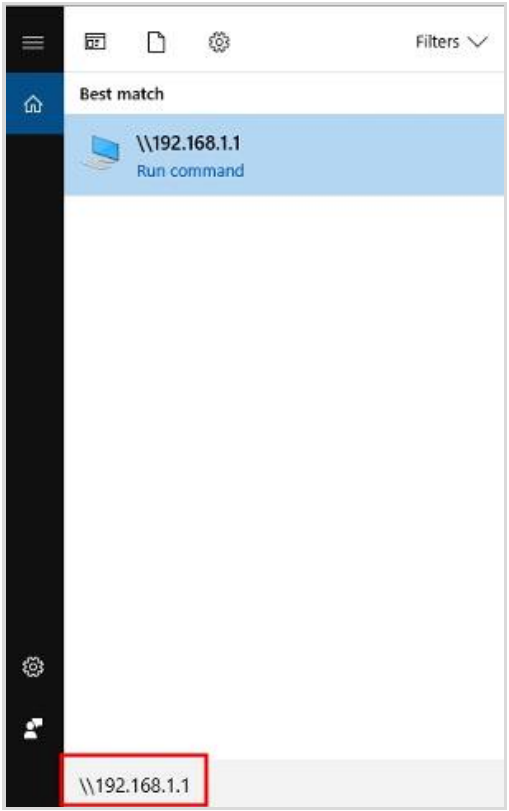


Figure 5-2-21 Search

You need to enter the user name and password, and then click **OK** to enter the following page.

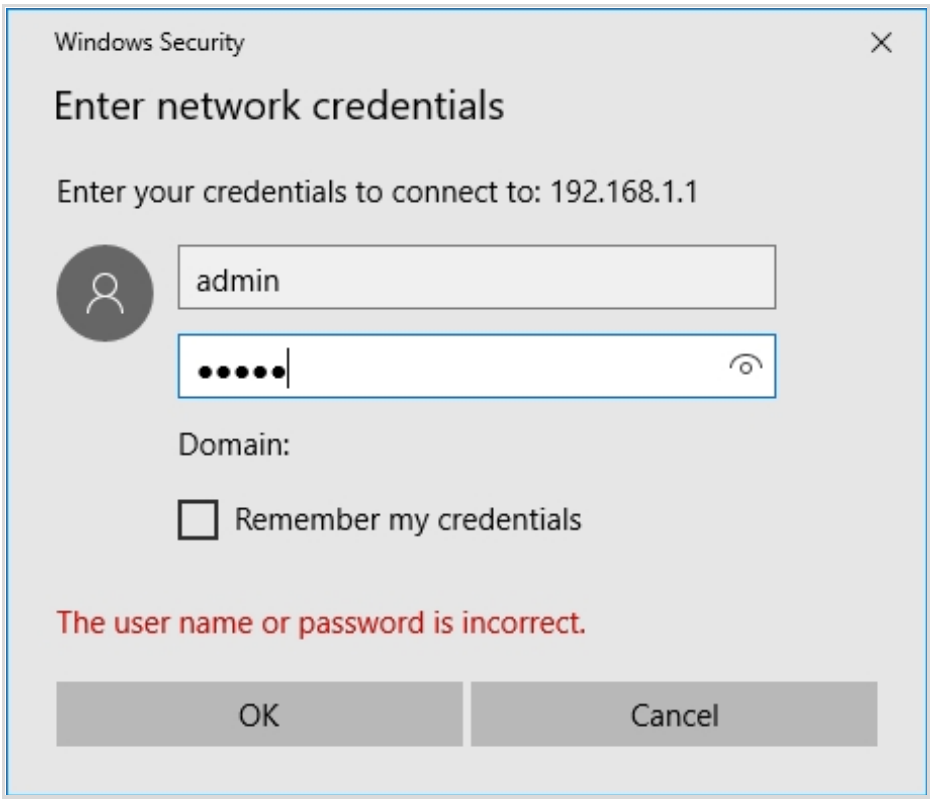


Figure 5-2-22 USB password

Find your storage device, and upload or download files.

Note

The WDRT-1202AC supports only FAT32.

5.3 Features

5.3.1 QoS

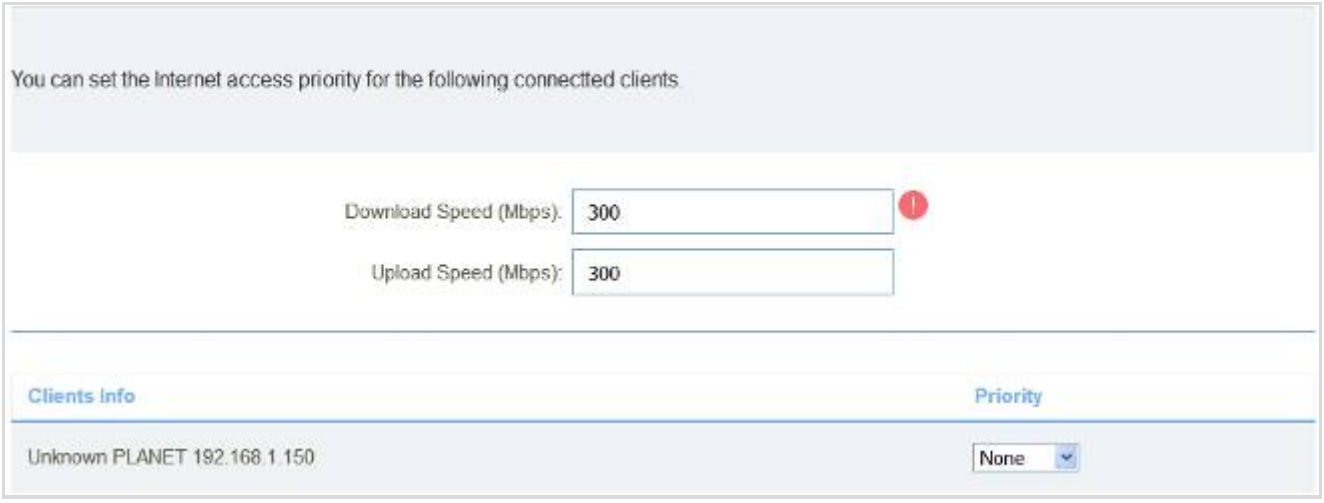


Figure 5-3-1 QoS

Object	Description
Download Speed	Set the download speed of your Internet access
Upload Speed	Set the upload speed of your Internet access
Priority	Select the priority from the drop-down list

5.3.2 Firewall

5.3.2.1. Advanced

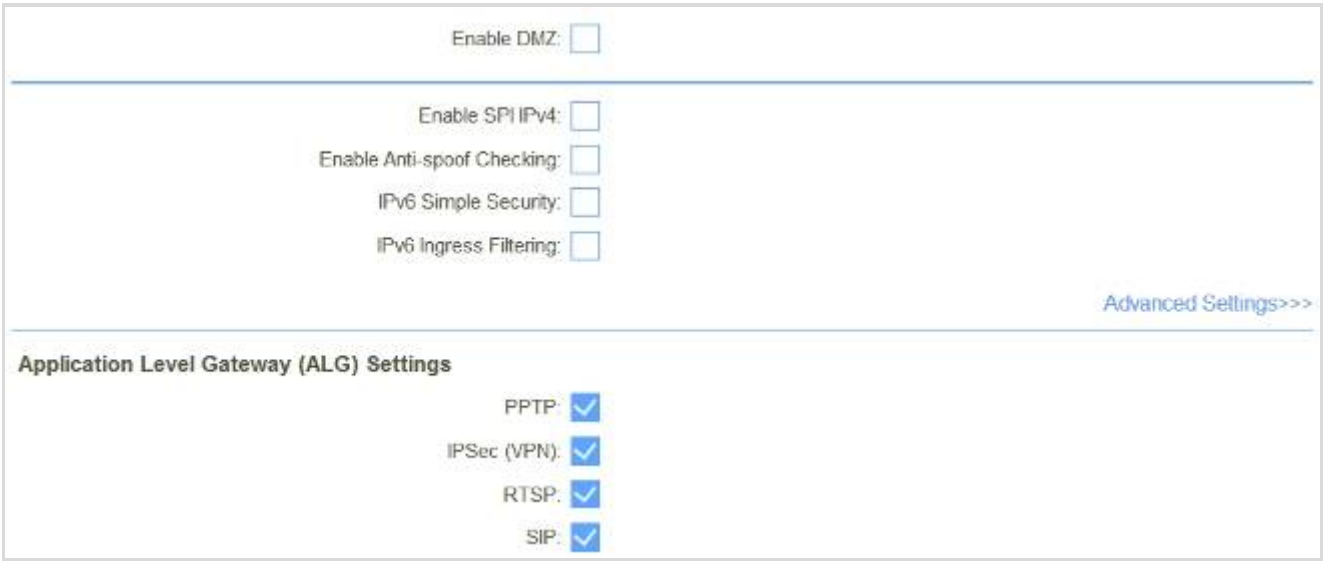


Figure 5-3-2 Advanced

Object	Description
Enable DMZ	Enable or disable DMZ function
Enable SPI IPv4	Enable or disable SPI IPv4 function
Enable Anti-spoof Checking	Enable or disable Anti-spoof checking function
IPv6 Simple Security	Enable or disable IPv6 simple security function
IPv6 Ingress Filtering	Enable or disable IPv6 ingress filtering
PPTP	Enable or disable PPTP to pass through PPTP communication data.
IPSec (VPN)	Enable or disable IPSEC to pass through IPSEC communication data.
RTSP	Enable or disable RTSP function
SIP	Some SIP applications have specific schemes for firewall penetration, which may conflict with the SIP. In most cases, keep SIP enabled.

5.3.2.2. IPv4 Rules

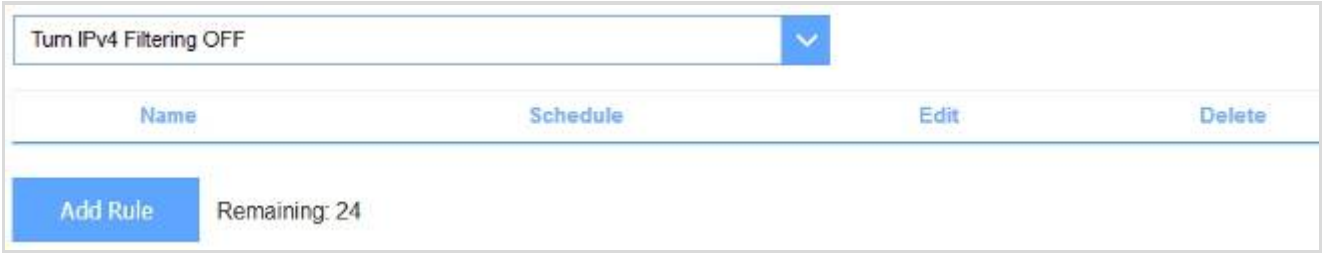


Figure 5-3-3 IPv4 Rules

Object	Description
Turn IPv4 Filtering OFF	Select “Turn IPv4 Filtering OFF”, “Turn IPv4 filtering ON and ALLOW rules listed” or “Turn IPv4 Filtering ON and DENY rules listed”.
Add Rule	Enter to add the rules.

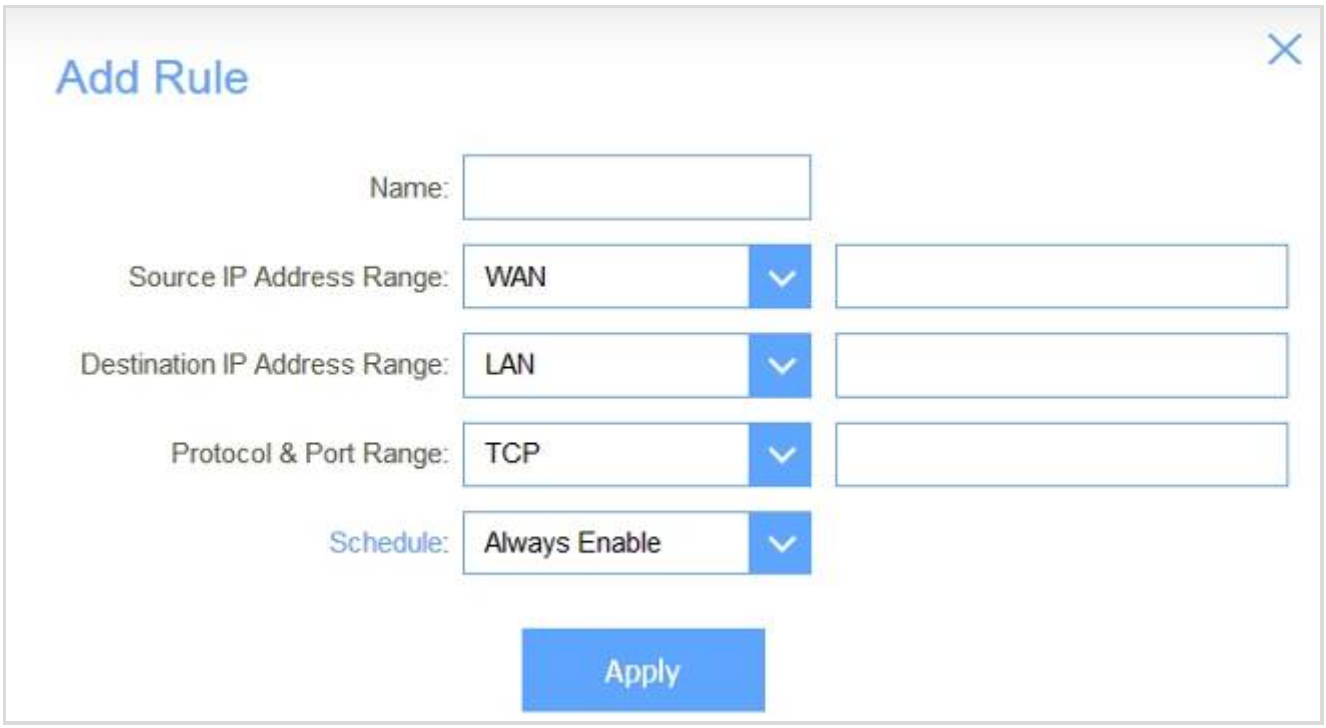


Figure 5-3-4 Add IPv4 Rules

Object	Description
Name	Enter a name for the rule
Source IP Address Range	Select “WAN” or “LAN” and enter the source IP address
Destination IP Address Range	Select “WAN” or “LAN” and enter the destination IP address
Protocol & Port Range	Select “TCP”, “UDP” or” Any”
Schedule	Select “Always Enable” or configure the schedule to activate the rule

Example

You can follow the configuration if you need only 192.168.1.150 to allow access.

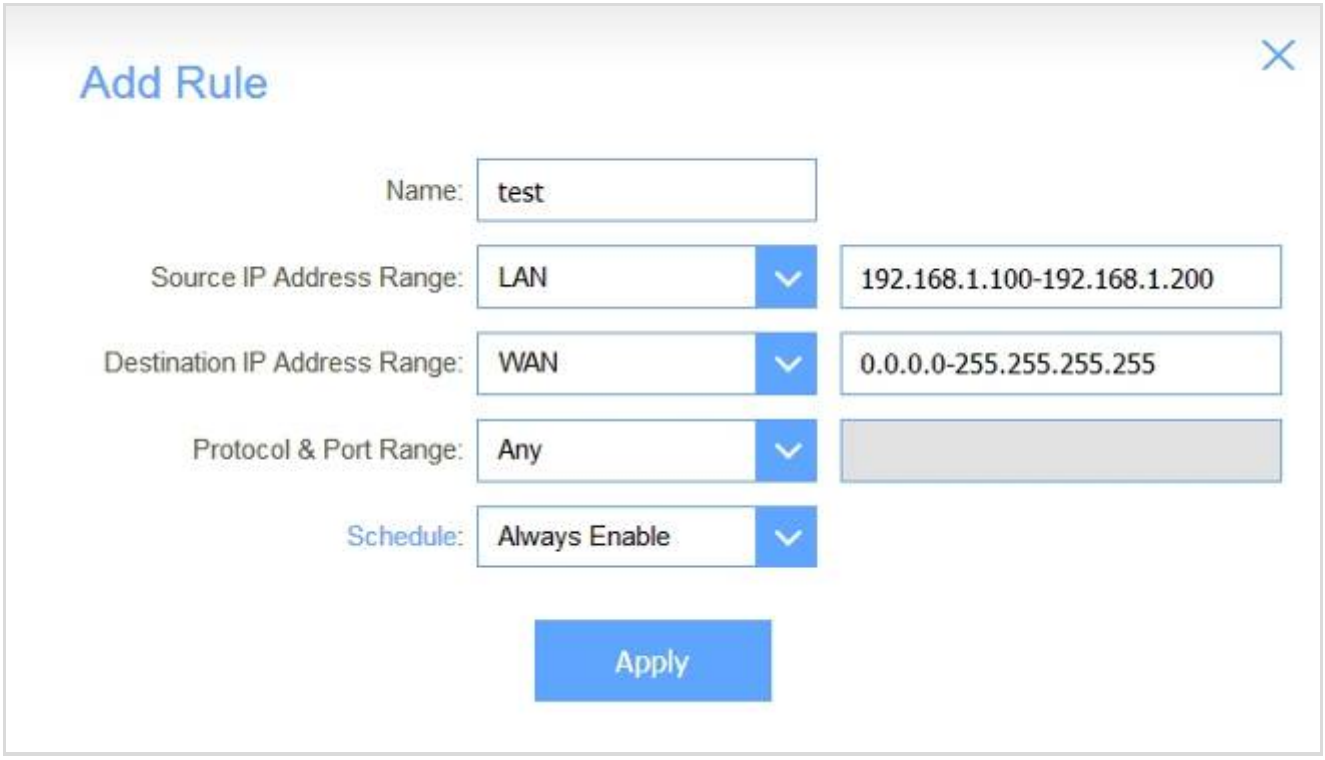


Figure 5-3-5 IPv4 Rules example

5.3.2.3. IPv6 Rules

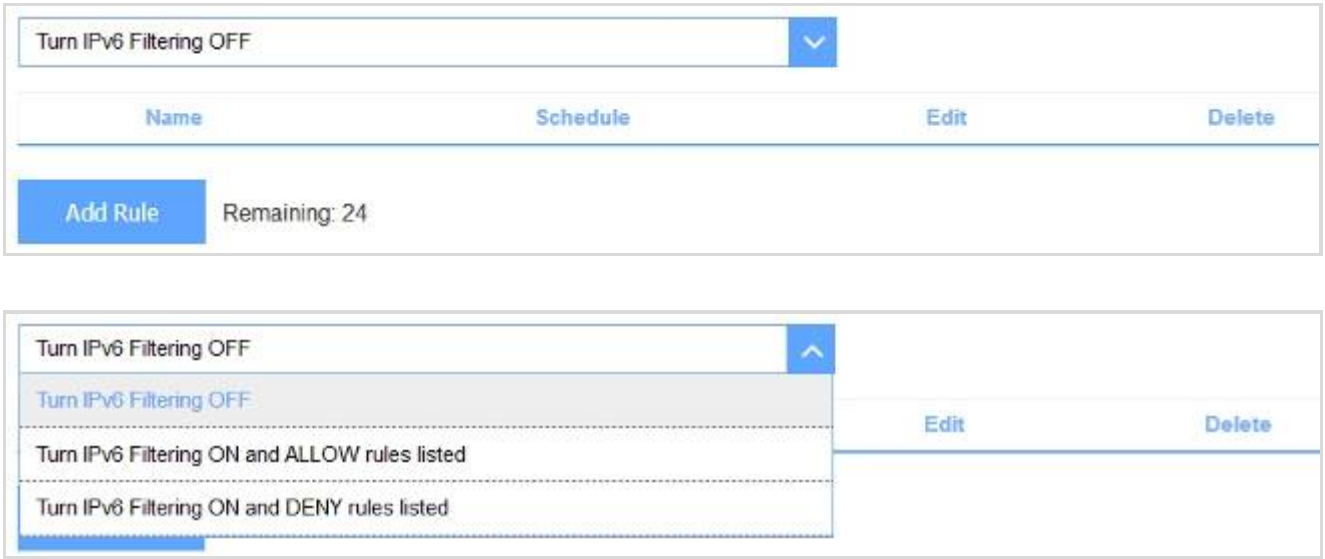


Figure 5-3-6 IPv6 Rules

Object	Description
Turn IPv6 Filtering OFF	Select “Turn IPv6 Filtering OFF”, “Turn IPv6 filtering ON and ALLOW rules listed” or “Turn IPv6 Filtering ON and DENY rules listed”.
Add Rule	Enter to add the rules.

5.3.2.4. Parental Control

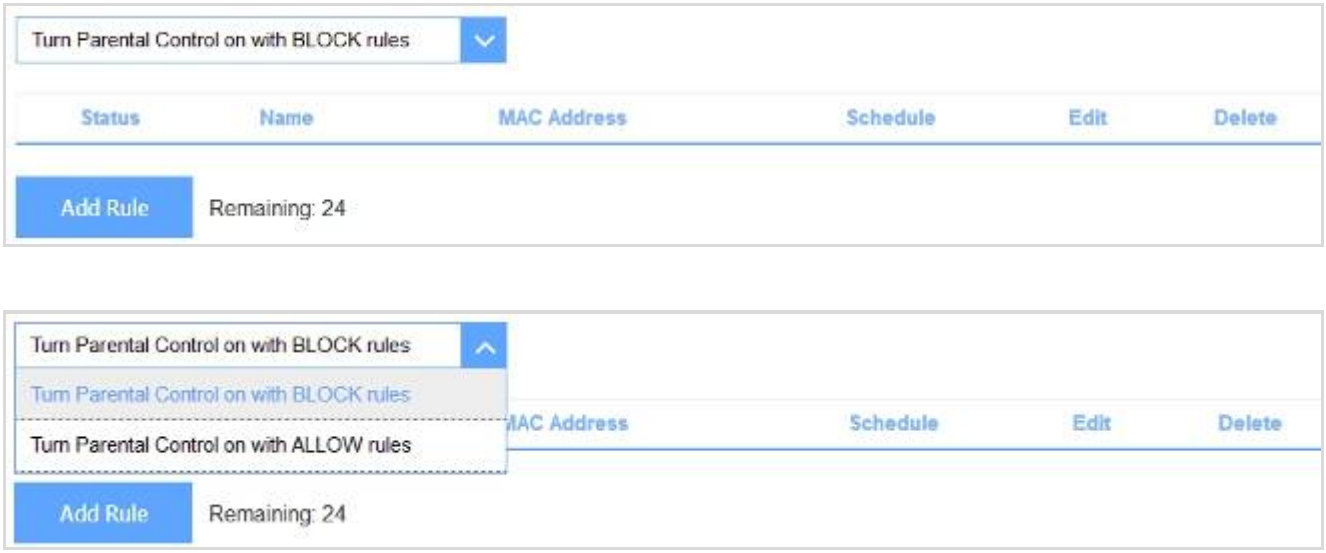


Figure 5-3-7 Parental Control

Object	Description
Turn Parental Control on with BLOCK rules	Select “Turn Parental Control on with BLOCK rules” or “Turn Parental Control on with ALLOW rules”
Add Rule	Enter to add the rules.

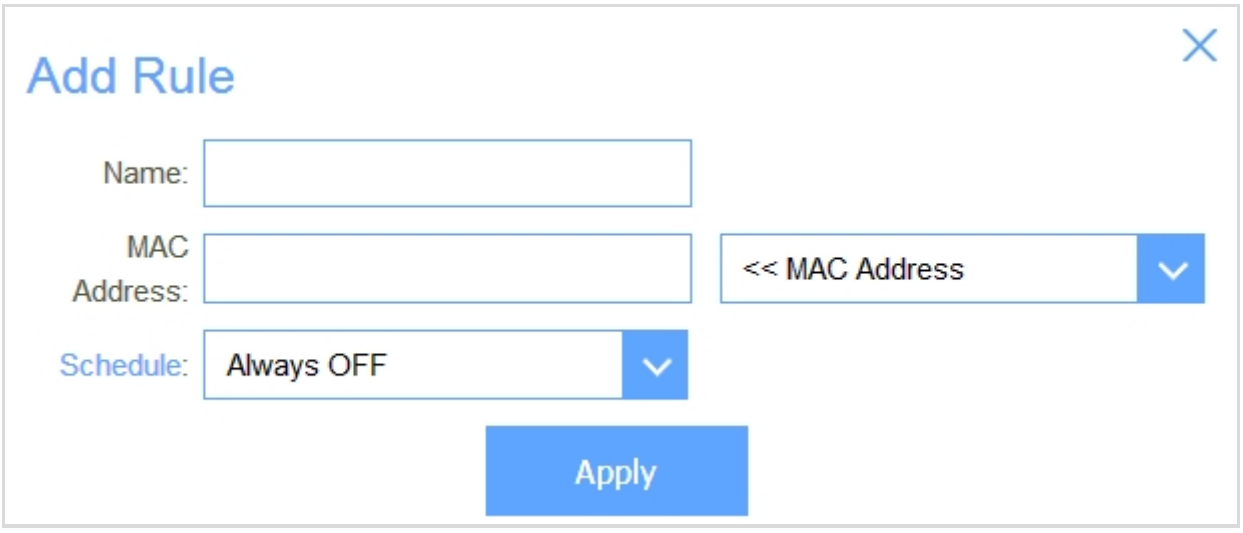


Figure 5-3-8 Add Parental Control Rules

Object	Description
Name	Enter a name for the rule
MAC Address	Enter or select a MAC address
Schedule	Select “Always Enable” or configure the schedule to activate the rule

5.3.3 Port Forwarding

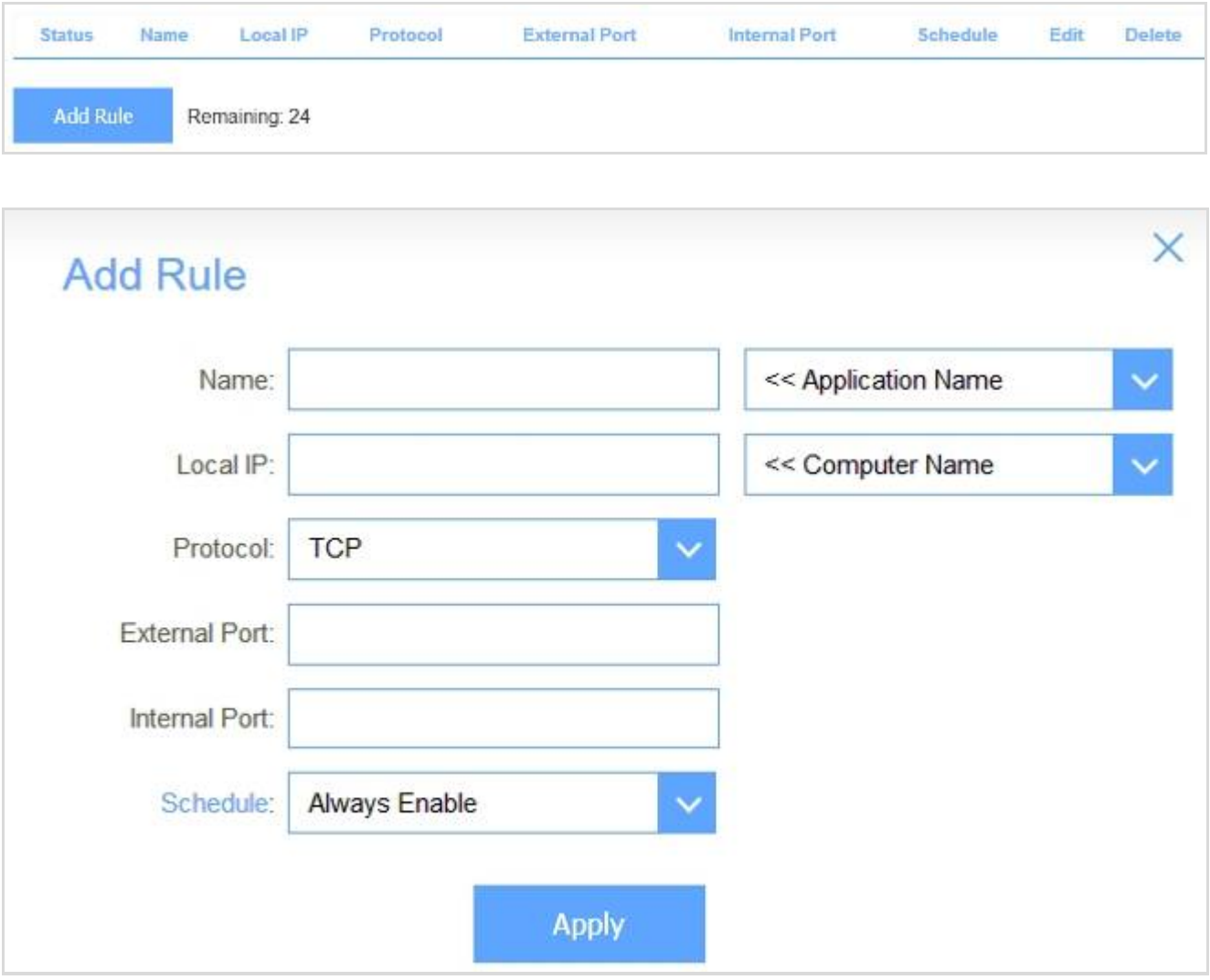


Figure 5-3-9 Port Forwarding

Object	Description
Name	Enter or select an application name
Local IP	Enter or select a IP address
Protocol	Select “TCP”, “UDP”, “Both” or “Other”
External Port	Enter the external port
Internal Port	Enter the internal port
Port Number	Enter the port number
Schedule	Select “Always Enable” or configure the schedule to activate the rule

5.3.4 URL Filter

On this page, you can add rules of keyword to enable LAN users to allow or deny access to some websites.

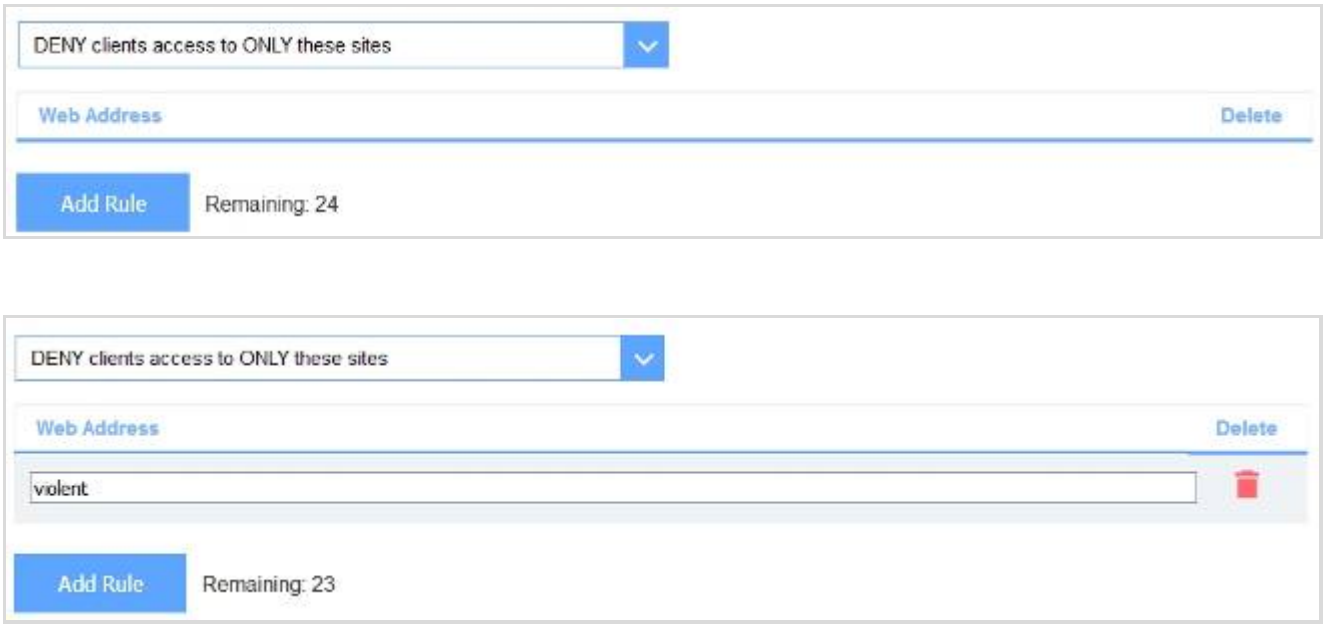


Figure 5-3-10 URL Filter

5.3.5 Static Route

Static Route reduces route selection problems and corresponding data overload and accelerates data packet forwarding.

5.3.5.1. IPv4

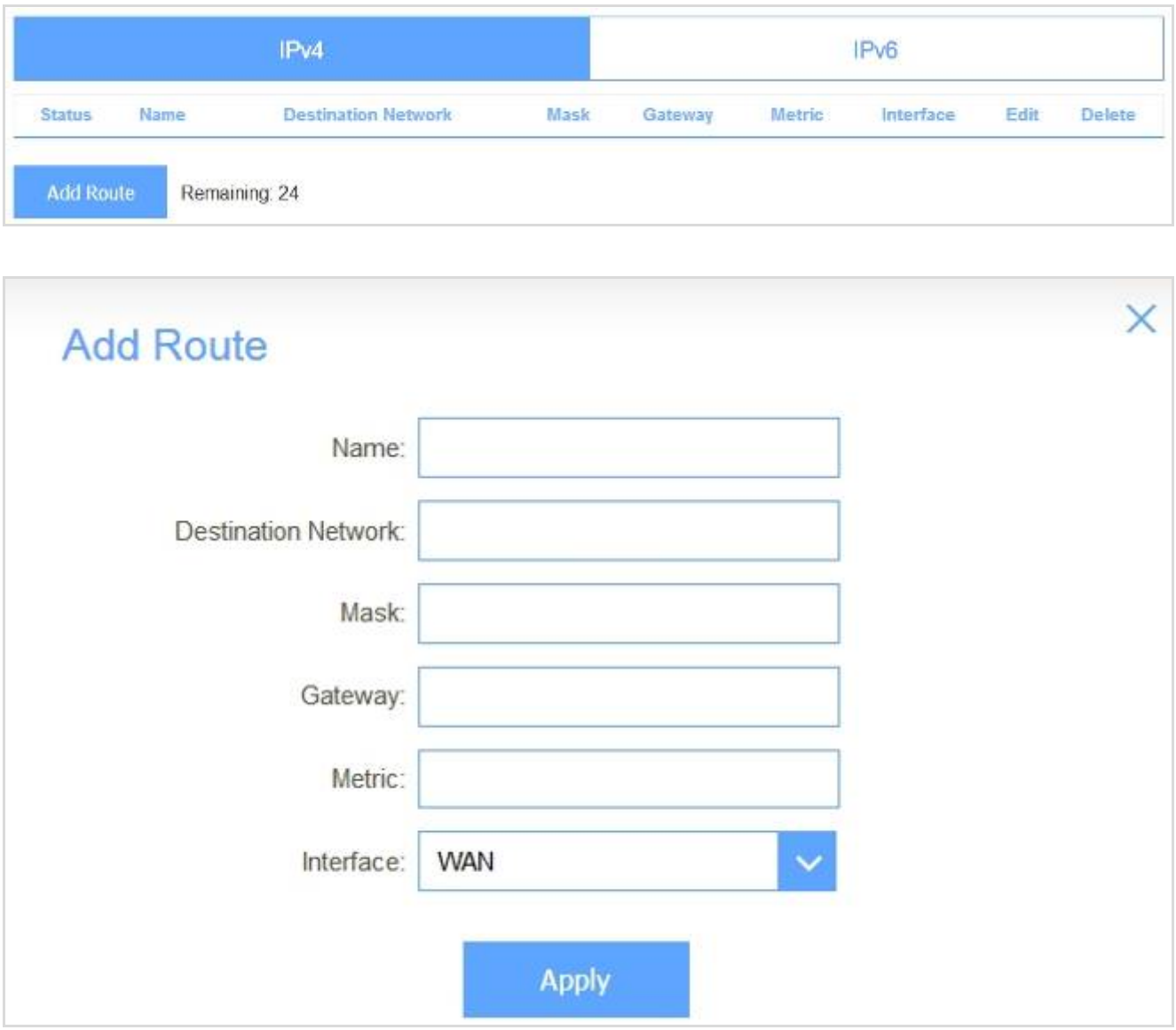


Figure 5-3-11 IPv4 Static Route

Object	Description
Name	Enter a name for the service
Destination Network	Enter the destination network
Mask	Enter the network mask
Gateway	Enter the network gateway
Metric	Enter the routing metric
Interface	Select the interface

5.3.5.2. IPv6

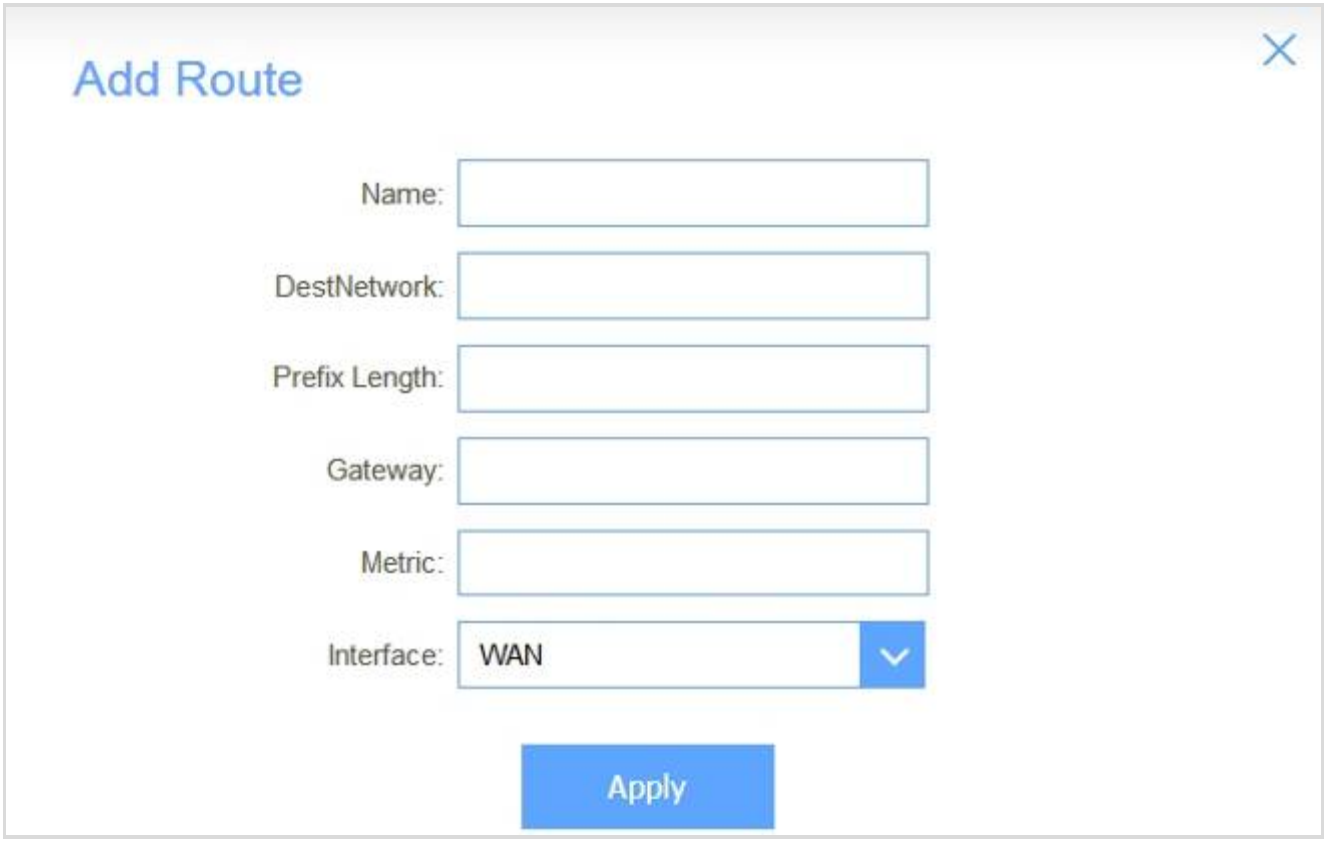


Figure 5-3-12 IPv6 Static Route

Object	Description
Name	Enter a name for the service
Destination Network	Enter the destination network
Prefix Length	Enter the prefix length
Gateway	Enter the network gateway
Metric	Enter the routing metric
Interface	Select “NULL”, “WAN”, “LAN” or ”LAN(DHCP-PD) from the drop-down list

5.3.6 Dynamic DNS

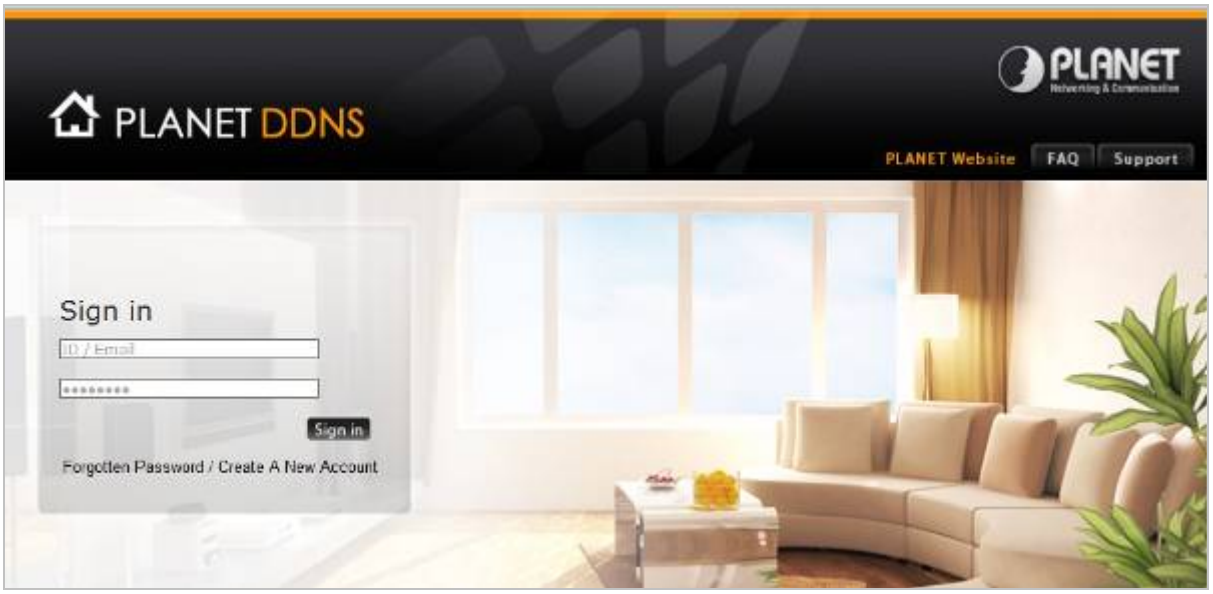
The Wireless Router supports **Dynamic Domain Name Service** (**DDNS**). The dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, and allows access to a specified host from various locations on the Internet. Click a hyperlinked URL in the form of hostname.dyndns.org and allow remote access to a host. Many ISPs assign public IP addresses using DHCP, so locating a specific host on the LAN using the standard DNS is difficult. For example, if you are running a public web server or VPN server on your LAN, DDNS ensures that the host can be located from the Internet even if the public IP address changes. DDNS requires that an account be set up with one of the supported DDNS service providers

Figure 5-3-13 DDNS

Object	Description
Server Address	Select server from the drop-down list
Host Name	Enter the host name
User Name	Enter the user name
Password	Enter the password
Time Out	Enter the time out hours

PLANET DDNS

First of all, please go to http://www.planetddns.com to register a Planet DDNS account, and refer to the FAQ (http://www.planetddns.com/index.php/faq) for how to register a free account.



Select **Features > Dynamic DNS** and enable **Dynamic DNS.**

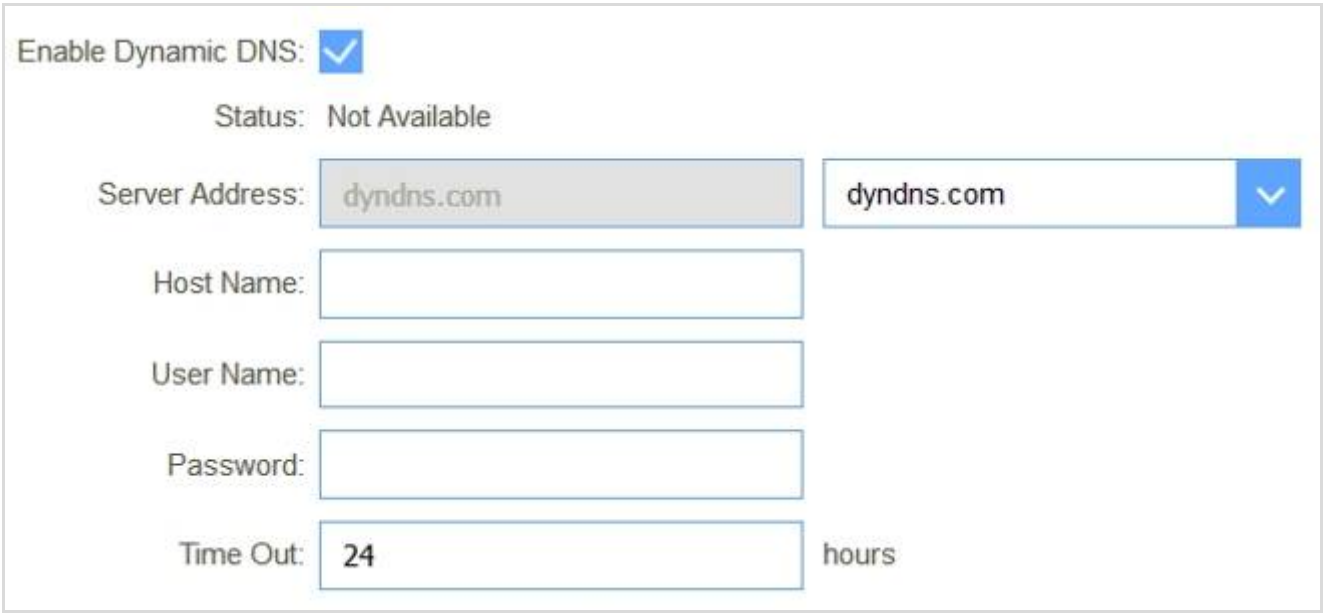


Figure 5-3-14 PLANET DDNS_1

Step 1. Select **PlanetDDNS.com**

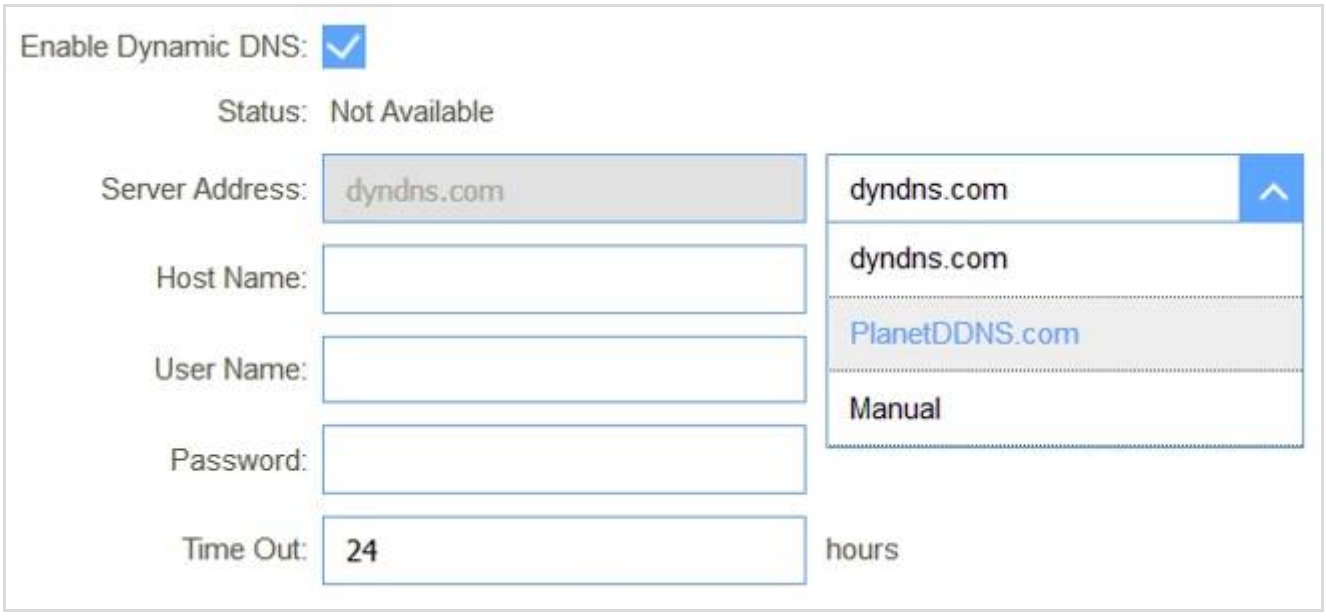


Figure 5-3-15 PLANET DDNS_2

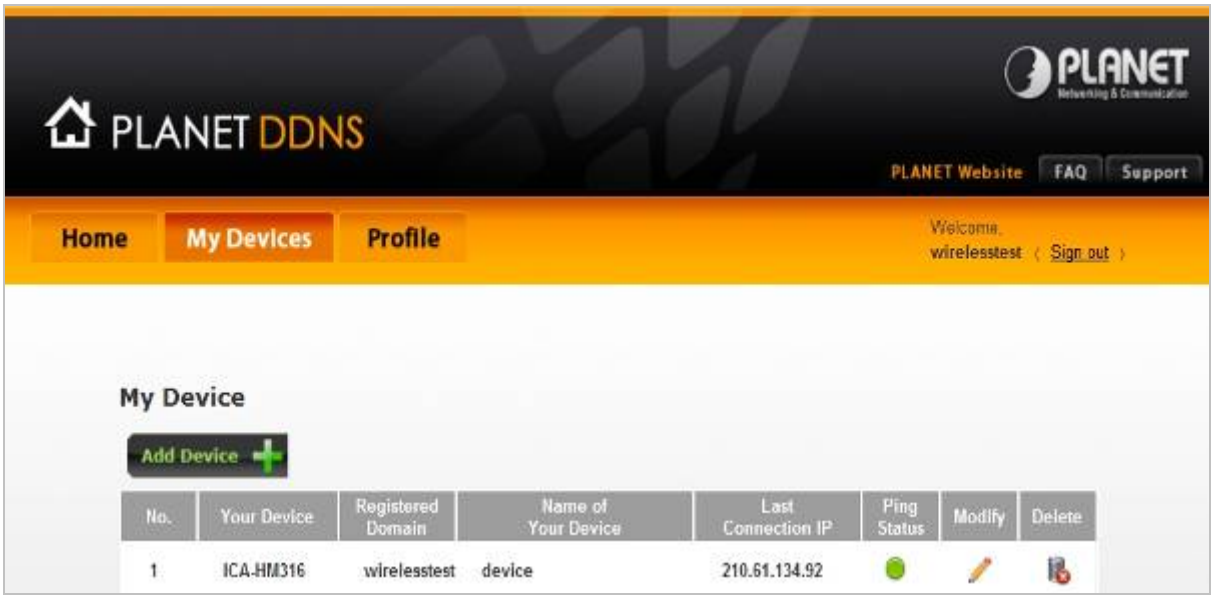
Step 2. Type the User Name for your DDNS account.

Step 3. Type the Password for your DDNS account.

Figure 5-3-16 PLANET DDNS_3

Save the settings and ensure you have connected the WAN port to the Internet. In a remote device, enter the Domain Name to the internet browser's address bar.

You can go to My Devices page of Planet DDNS website to check if the "Last Connection IP" is displayed. This indicates your DDNS service is working properly.



5.3.7 VPN

Figure 5-3-17 VPN

Object	Description
L2TP over IPSec	Enable or disable VPN function
Username	Enter the user name
Password	Enter the password
PSK	Enter the pre-shared key
Authentication Protocol	Select “MSCHAPv2”, “PAP” or “CHAP” from the drop-down list
MPPE	Select “None”, “RC4-40” or “RC4-128” from the drop-down list

5.4 Management

5.4.1 Time & Schedule

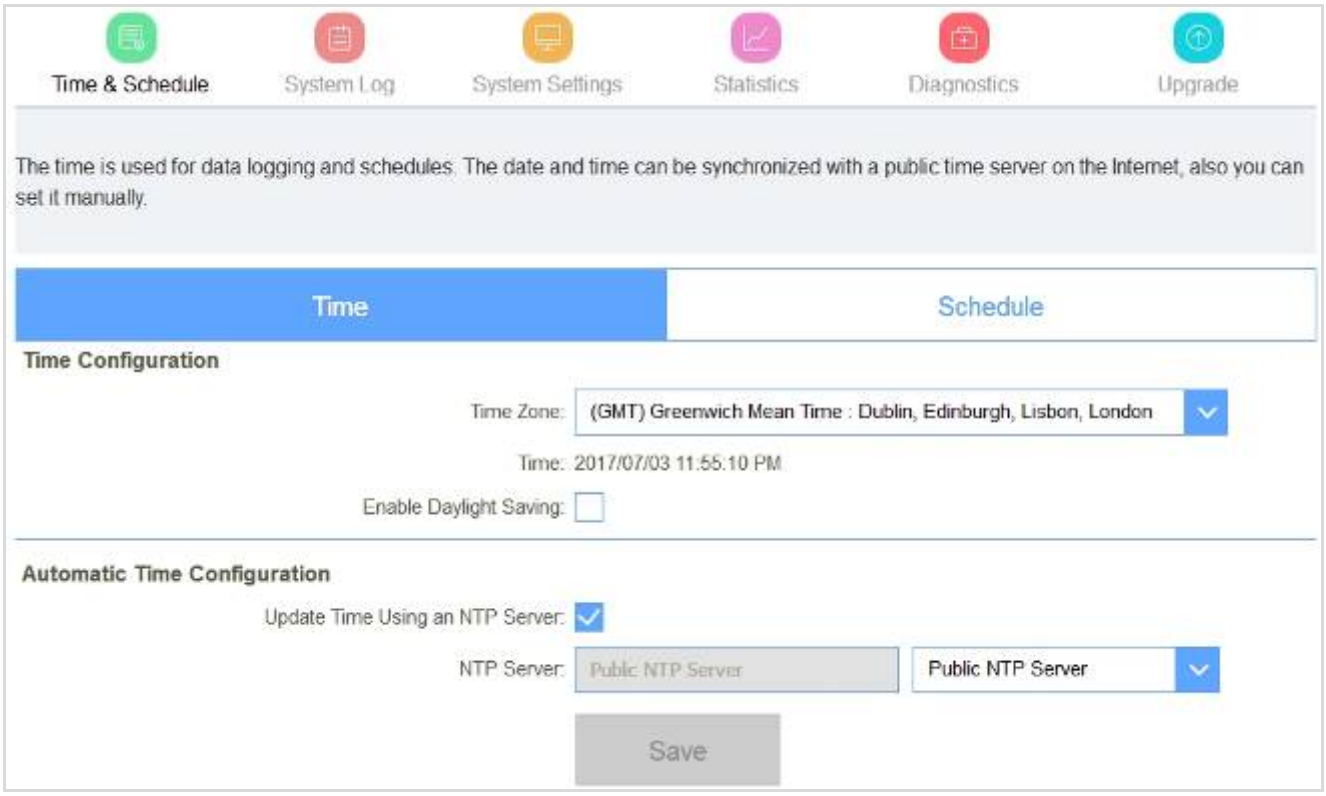


Figure 5-4-1 Time & Schedule

5.4.1.1. Time

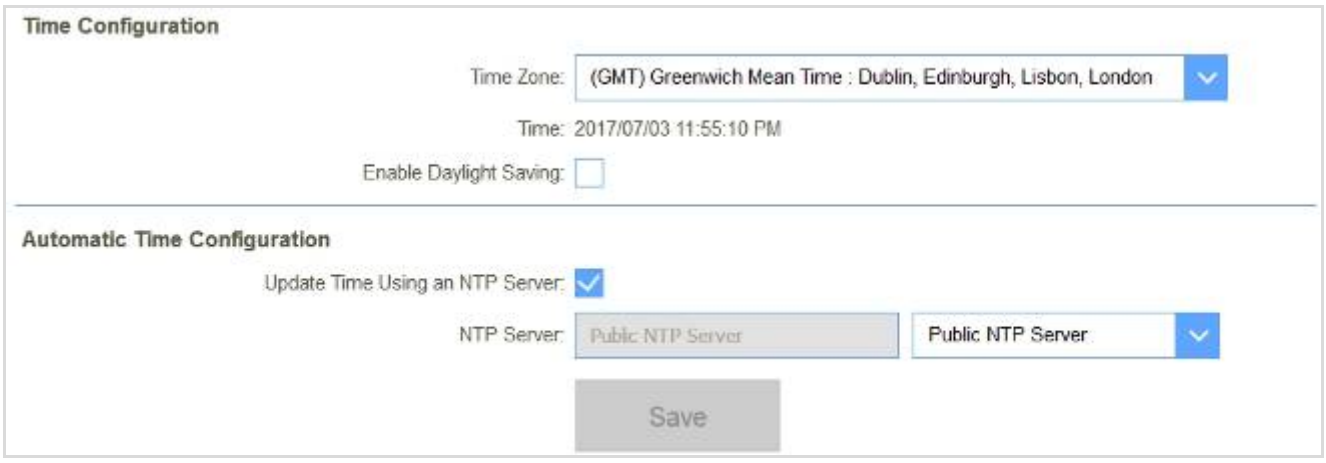


Figure 5-4-2 Time

Object	Description
Time Zone	Select the time zone in your area
Enable Daylight Saving	Enable or disable daylight saving if you need this function
Update Time Using an NTP Server	Check it to enable NTP server if you are on the Internet.
NTP Server	Select the “Public NTP Server” or enter the server manually.

5.4.1.2. Schedule

Press “Add Rule” to add a schedule to your services.

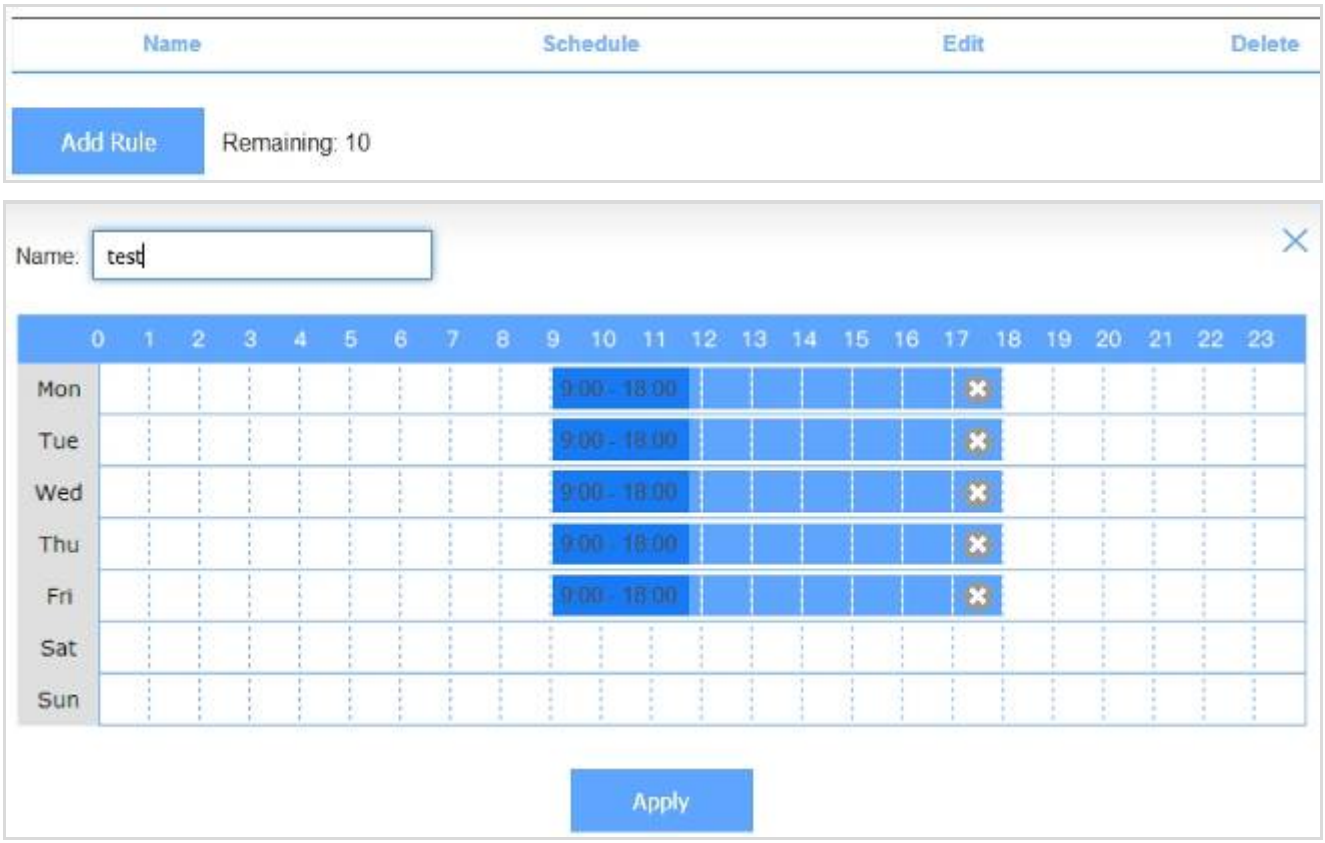


Figure 5-4-3 Schedule

5.4.2 System Log

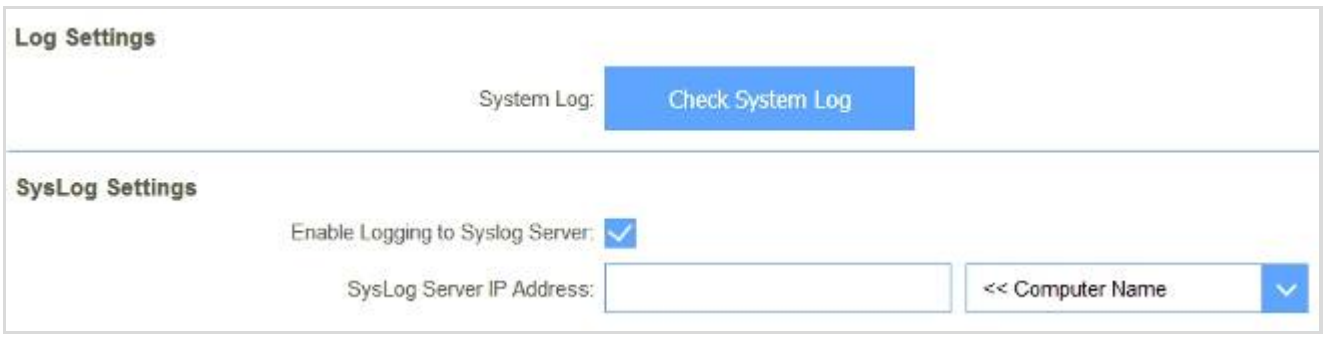


Figure 5-4-4 System Log

Object	Description
Check System Log	Press to open or save the system log
Enable Logging to Syslog Server	Enable or disable “Logging to Syslog Server”
SysLog Server IP Address	Enter the Syslog server IP address

5.4.3 System Settings

5.4.3.1. Administrator

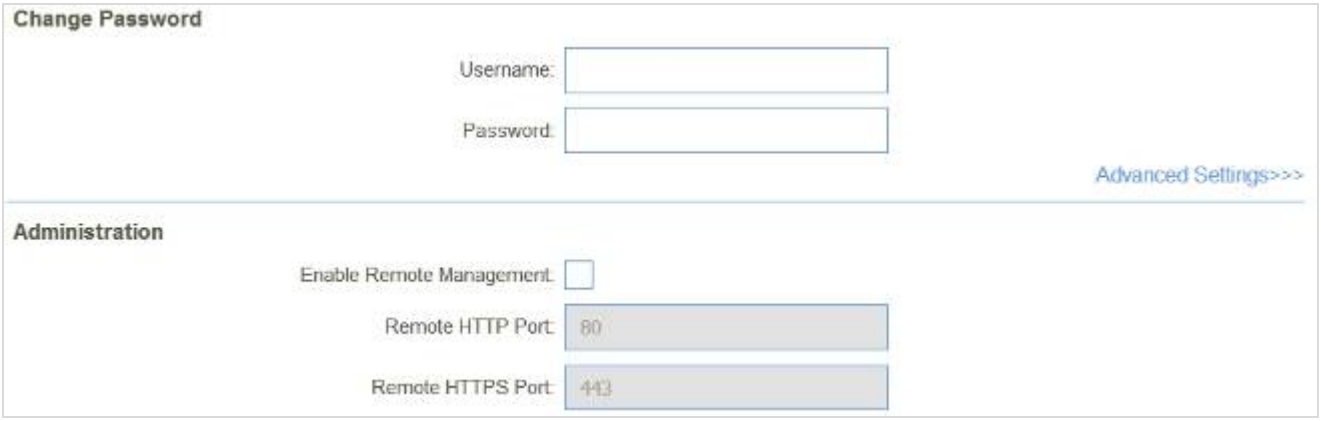


Figure 5-4-5 Administrator

Object	Description
Username	Enter the new username
Password	Enter the new password
Enable Remote Management	Enable or disable remote management
Remote HTTP Port	You can change the remote http port here
Remote HTTPS Port	You can change the remote https port here

5.4.3.2. System

This screen allows you to back up, restore, and erase the router’s current settings. Once you have the router working correctly, you should back up the information to have it available if something goes wrong. When you back up the settings, they are saved as a file on your computer. You can restore the router’s settings from this file.

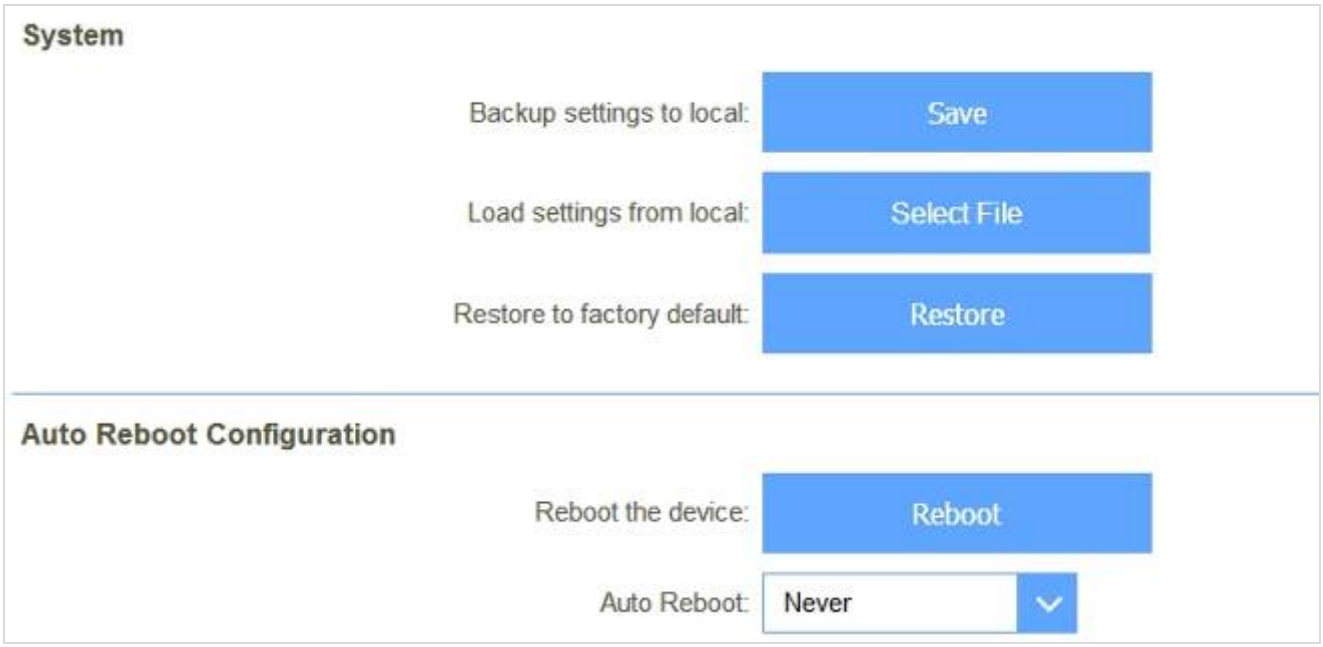


Figure 5-4-6 System

Object	Description
Backup settings to local	Save the setting to local PC
Load settings from local	Load the settings from local PC
Restore to factory default	Restore the device to factory default
Reboot the device	Press the button to reboot the device
Auto Reboot	Select “Daily” or “Weekly” to reboot the device on time

Note

When you load new configuration, the original configuration will be lost. Please back up the current configuration before loading a new one. In this way, if the new configuration file has an error, you can load the backup file.

Note

DO NOT shut down your router when loading a configuration file. Otherwise, the router may be damaged.

5.4.4 Statistics

On this page, you can check the GUI statistics.

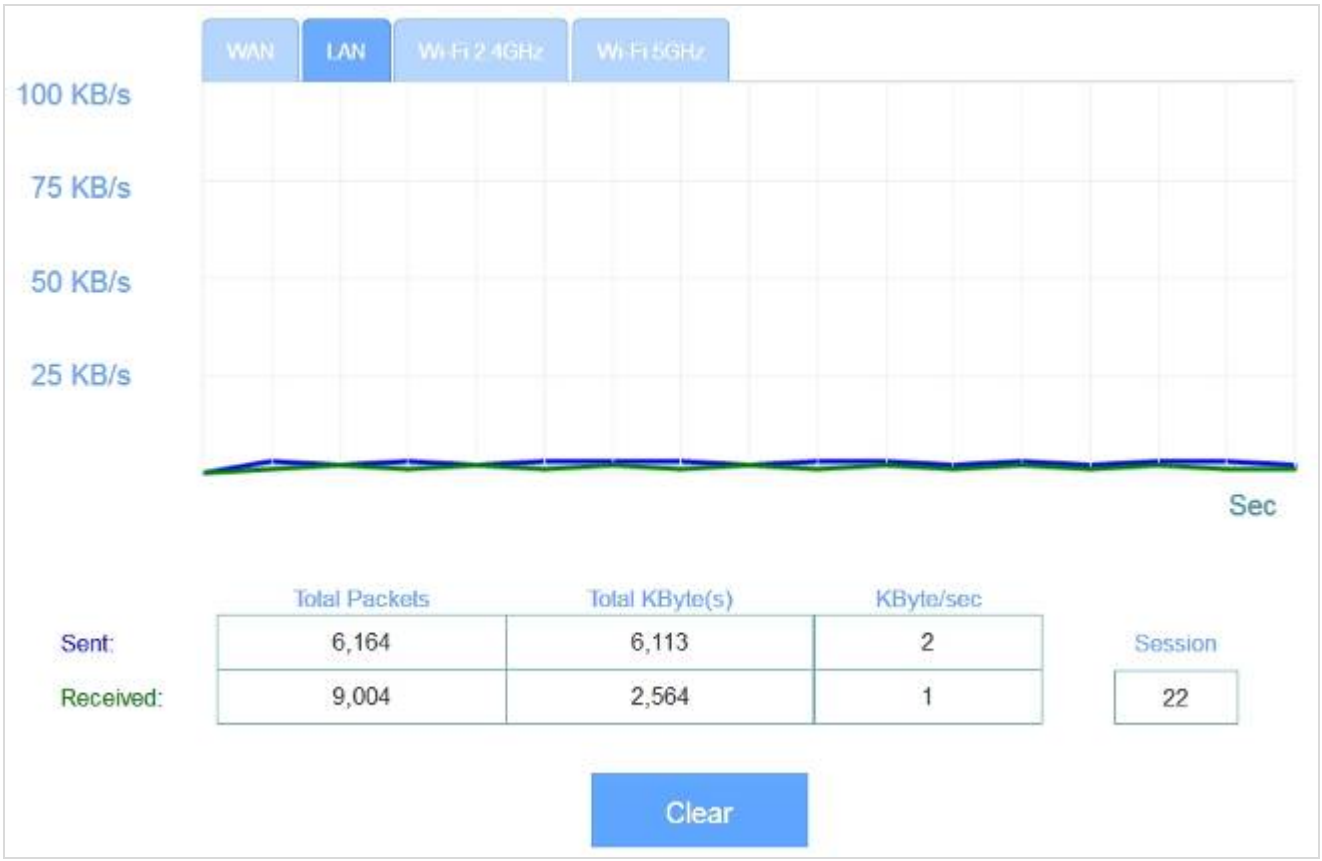


Figure 5-4-7 Statistics

5.4.5 Diagnostics

On the page, you can ping or trace route for IP connection.

Figure 5-4-8 Diagnostics

5.4.6 Upgrade

You install new versions of the router's software using this page. From time to time, we may release new versions of the Router's firmware. Firmware updates contain improvements and fixes the current problems. On this page, you can check the firmware version and upgrade firmware.

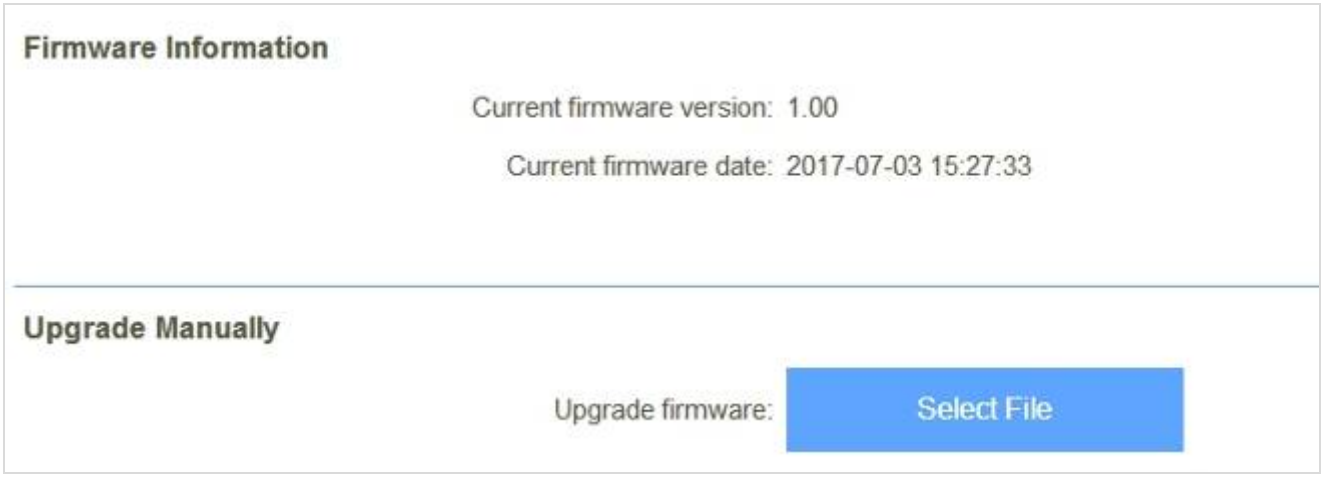


Figure 5-4-9 Upgrade

Note

DO NOT turns off the power or press the Reset button when updating the firmware. Otherwise, the router may be damaged.

Chapter 6. Quick Connection to a Wireless Network

6.1 Windows XP (Wireless Zero Configuration)

Step 1: Right-click on the **wireless network icon** displayed in the system tray

Figure 6-1

Step 2: Select [**View Available Wireless Networks**]

Step 3: Highlight and select the wireless network (SSID) to connect

(1) Select SSID (Take PLANET for example)

(2) Click the [**Connect**] button

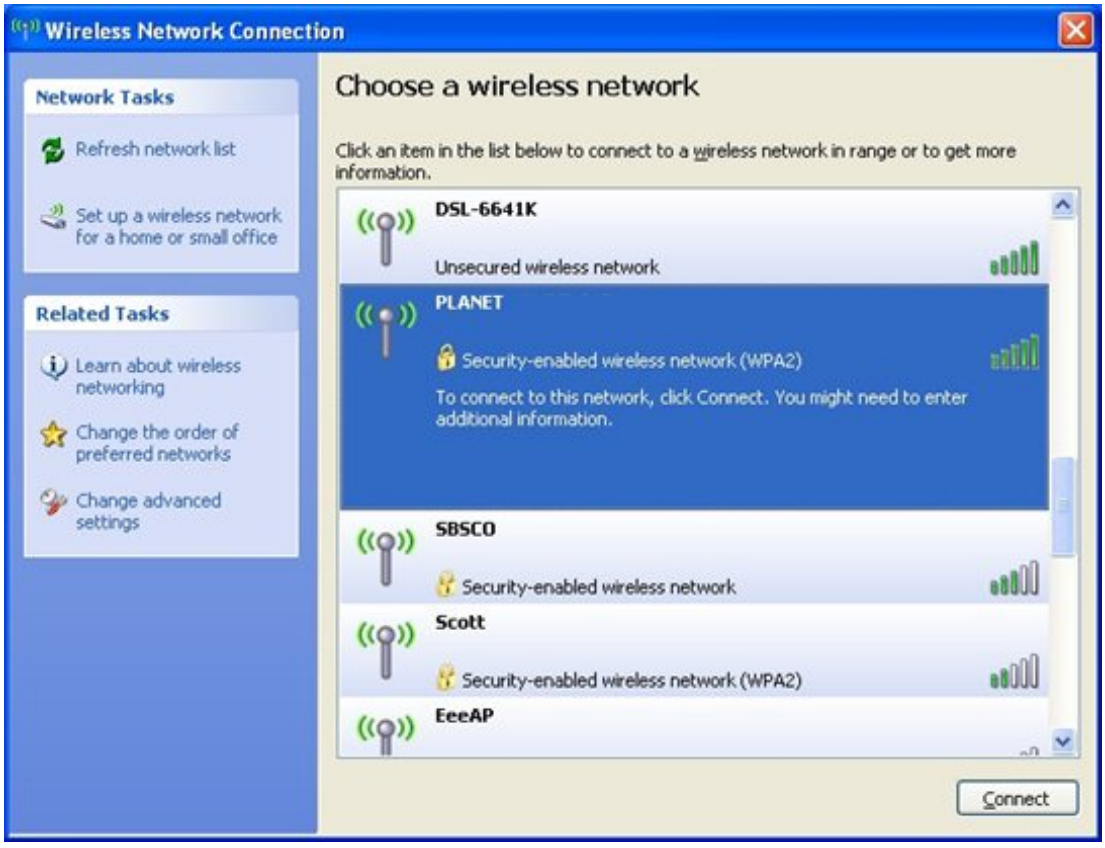


Figure 6-2 Wireless Network Connection

Step 4: Enter the **encryption key** of the Wireless Router

(1) The Wireless Network Connection box will appear

(2) Enter the encryption key that is configured in section 5.2.2.1

(3) Click the [Connect] button

Figure 6-3

Step 5: Check if "**Connected**" is displayed

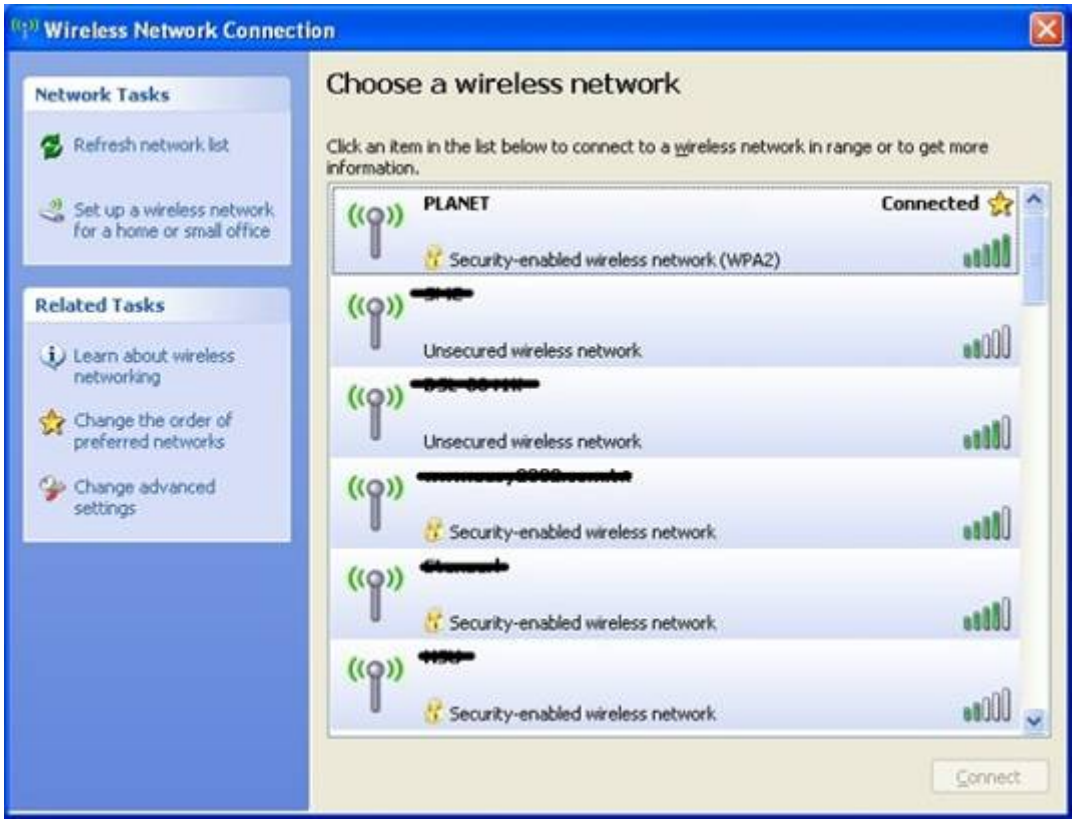


Figure 6-4

Note

Some laptops are equipped with a "Wireless ON/OFF" switch for the internal wireless LAN. Make sure the hardware wireless switch is switched to the "ON" position.

6.2 Windows 7 (WLAN AutoConfig)

WLAN AutoConfig service is built in Windows 7 that can be used to detect and connect to wireless network. This built-in wireless network connection tool is similar to wireless zero configuration tool in Windows XP.

Step 1: Right-click on the **network icon** displayed in the system tray

Figure 6-5

Step 2: Highlight and select the wireless network (SSID) to connect

(1) Select SSID (Take default_2.4G for example)

(2) Click the [**Connect**] button

Figure 6-6

Note

If you want to be connected to this Wireless Router, check [**Connect automatically**].

Step 4: Enter the **encryption key** of the Wireless Router

(1) **Connect to a Network** box will appear

(2) Enter the encryption key that is configured in section 5.2.2.1

(3) Click the [OK] button

Figure 6-7 Connect to a Network

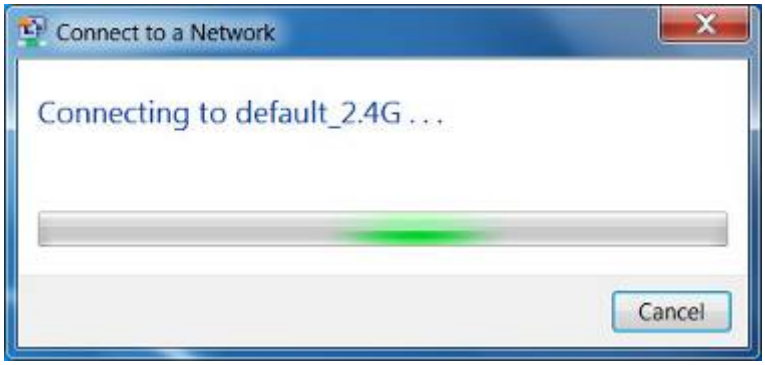


Figure 6-8 Connecting

Step 5: Check if "**Connected**" is displayed

Figure 6-9

6.3 Mac OS X 10.x

Step 1: Right-click on the **network icon** displayed in the system tray

The AirPort Network Connection menu will appear

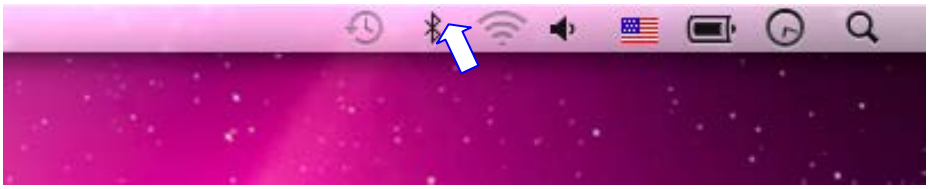


Figure 6-10

Step 2: Highlight and select the wireless network (SSID) to connect

(1) Select and SSID (Take PLANET for example)

(2) Double-click on the selected SSID

Figure 6-11

Step 4: Enter the **encryption key** of the Wireless Router

(1) Enter the encryption key that is configured in section 5.2.2.1

(2) Click the [OK] button

Figure 6-12

Note

If you want to connect this Wireless Router in the future, check [**Remember this network**].

Step 5: Check if the AirPort is connected to the selected wireless network.

If “Yes”, then there will be a “check” symbol in the front of the SSID.

Figure 6-13

6.4 iPhone / iPod Touch / iPad

Step 1: Tap the [**Settings**] icon displayed in the home screen

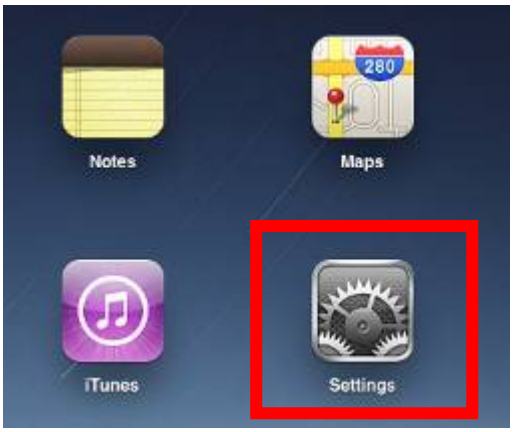


Figure 6-14

Step 2: Check Wi-Fi setting and select the available wireless network

(1) Tap [**General**] \ [**Network**]

(2) Tap [**Wi-Fi**]

If this is the first time to connect to the Wireless Router, it should show “Not Connected”.

Figure 6-15

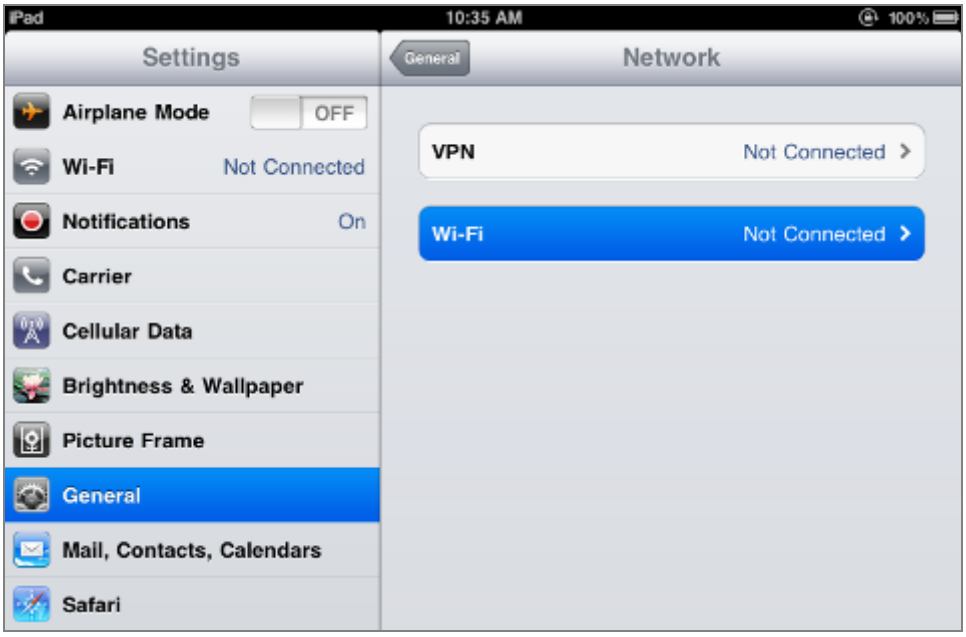


Figure 6-16

Step 3: Tap the target wireless network (SSID) in "**Choose a Network…**"

(1) Turn on Wi-Fi by tapping "**Wi-Fi**"

(2) Select SSID Take PLANET for example)

Figure 6-17

Step 4: Enter the **encryption key** of the Wireless Router

(1) The password input screen will be displayed

(2) Enter the encryption key that is configured in section 5.2.2.1

(3) Tap the [**Join**] button

Figure 6-18

Step 5: Check if the device is connected to the selected wireless network.

If “Yes”, then there will be a “check” symbol in the front of the SSID.

Figure 6-19

Appendix A: Specifications

Product	WDRT-1202AC 1200Mbps 802.11ac Dual Band Wireless Gigabit Router	
Hardware Specifications		
Interface	WAN Port:	1 x 10/100/1000 Mbps auto MDI/MDI-X RJ45 port
	LAN Port:	4 x 10/100/1000 Mbps auto MDI/MDI-X RJ45 port (LAN1~4)
	USB Port:	1 x USB 2.0, Type A, 5V 500mA
Antenna	Gain:	2.4GHz: 2 x 5dBi external antenna 5GHz: 2 x 5dBi external antenna
Button	1 x reset button 1 x WPS/Wi-Fi button	
LED Indicators	PWR x 1 WLAN (2.4GHz & 5GHz) x 2 WAN x 1 WPS x 1	
Material	Plastic	
Dimensions (W x D x H)	250 x 185 x 38 mm (W x D x H)	
Weight	322g	
Power Requirement	12V DC, 1.5A	
Power Consumption	10W	
Wireless Interface Specifications		
Standard	IEEE 802.11ac 5GHz IEEE 802.11a/n 5GHz IEEE 802.11b/g/n 2.4GHz	
Frequency Band	Simultaneous 2.4GHz and 5GHz	
Modulation Type	802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK)	
Data Rates	2.4GHz up to 300Mbps 5GHz up to 867Mbps	
Channel	2.4GHz FCC (America): 2.412~2.462GHz (11 Channels) ETSI (Europe): 2.412~2.472GHz (13 Channels)	
	5GHz 5.180-5.240GHz, 5.745-5.825GHz (up to 9 channels) * The actual channels in application will vary depending on the regulation in different regions and countries.	
Channel Width	802.11ac: 20/40/80MHz 802.11n: 20/40MHz	
Max. RF Power / EIRP	2.4GHz: < 20dBm	

	5GHz: < 20dBm
Receive Sensitivity	2.4GHz 11b (11Mbps): -85dBm 11g (54Mbps): -70dBm 11n (20M) mode: -70dBm 11n (40M) mode: -68dBm
	5GHz 11a: -74dBm 11n (20M) mode: -70dBm 11n (40M) mode: -67dBm 11ac (20M) mode: -67dBm 11ac (40M) mode: -61dBm 11ac (80M) mode: -57dBm
Transmit Power Control	Low, Medium, High
Wireless Management Features	
Encryption Security	WPA/WPA2 personal mixed mode
Wireless Security	Wireless MAC address filtering
	Supports WPS (Wi-Fi Protected Setup)
Wireless Advanced	Supports dual-SSID (2.4G and 5G)
	Supports guest network
Max. Supported Clients	2.4GHz wireless: 32 5GHz wireless: 32
Router Features	
Internet Connection Type	Shares data and Internet access for users, supporting the following Internet accesses: ■ DHCP ■ Static IP ■ PPPoE ■ PPTP ■ L2TP ■ DS Lite
Firewall	NAT firewall, SPI firewall
	Built-in NAT server which supports Port Forwarding and DMZ
	Built-in firewall with URL filtering, and MAC address filtering
LAN	Built-in DHCP server supporting static IP address distribution
	Supports packet statistics
USB Sharing	Samba DLNA media server
System Management	Web-based (HTTP) management interface
	Remote management (WAN Access Control)
	Supports UPnP, PLANET DDNS
	SNTP synchronization
	System log

Standards Conformance	
IEEE Standards	IEEE 802.11ac (2T2R, up to 867Mbps) IEEE 802.11n (2T2R, up to 300Mbps) IEEE 802.11a IEEE 802.11g IEEE 802.11b IEEE 802.11i IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T
Other Protocols and Standards	CSMA/CA, CSMA/CD, TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP
Regulatory	CE, RoHS, WEEE
Environment	
Temperature	Operating: 0 ~ 40 degrees C Storage: -40 ~ 70 degrees C
Humidity	Operating: 10 ~ 90% (non-condensing) Storage: 5 ~ 95% (non-condensing)

EC Declaration of Conformity

English	Hereby, **PLANET Technology Corporation,** declares that this **802.11ac Wireless Broadband Router** is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.	**Lietuviškai**	Šiuo **PLANET Technology Corporation,**, skelbia, kad **802.11ac Wireless Broadband Router** tenkina visus svarbiausius 2014/53/EU direktyvos reikalavimus ir kitas svarbias nuostatas.
Česky	Společnost **PLANET Technology Corporation,** tímto prohlašuje, že tato **802.11ac Wireless Broadband Router** splňuje základní požadavky a další příslušná ustanovení směrnice 2014/53/EU.	**Magyar**	A gyártó **PLANET Technology Corporation**, kijelenti, hogy ez a **802.11ac Wireless Broadband Router** megfelel az 2014/53/EU irányelv alapkövetelményeinek és a kapcsolódó rendelkezéseknek.
Dansk	**PLANET Technology Corporation,** erklærer herved, at følgende udstyr **802.11ac Wireless Broadband Router** overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU	**Malti**	Hawnhekk, **PLANET Technology Corporation,** jiddikjara li dan **802.11ac Wireless Broadband Router** jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2014/53/EU
Deutsch	Hiermit erklärt **PLANET Technology Corporation,** dass sich dieses Gerät **802.11ac Wireless Broadband Router** in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 2014/53/EU befindet". (BMWi)	**Nederlands**	Hierbij verklaart , **PLANET Technology orporation,** dat **802.11ac Wireless Broadband Router** in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU
Eestikeeles	Käesolevaga kinnitab **PLANET Technology Corporation,** et see **802.11ac Wireless Broadband Router** vastab Euroopa Nõukogu direktiivi 2014/53/EU põhinõuetele ja muudele olulistele tingimustele.	**Polski**	Niniejszym firma **PLANET Technology Corporation,** oświadcza, że **802.11ac Wireless Broadband Router** spełnia wszystkie istotne wymogi i klauzule zawarte w dokumencie „Directive 2014/53/EU.
Ελληνικά	*ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ* , **PLANET Technology Corporation,** *ΔΗΛΩΝΕΙ ΟΤΙ ΑΥΤΟ***802.11ac Wireless Broadband Router** *ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ* ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU	**Português**	**PLANET Technology Corporation**, declara que este **802.11ac Wireless Broadband Router** está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU.
Español	Por medio de la presente, **PLANET Technology Corporation,** declara que **802.11ac Wireless Broadband Router** cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU	**Slovensky**	Výrobca **PLANET Technology Corporation,** týmto deklaruje, že táto **802.11ac Wireless Broadband Router** je v súlade so základnými požiadavkami a ďalšími relevantnými predpismi smernice 2014/53/EU.
Français	Par la présente, **PLANET Technology Corporation,** déclare que les appareils du **802.11ac Wireless Broadband Router** sont conformes aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU	**Slovensko**	**PLANET Technology Corporation**, **s tem potrjuje,** da je ta **802.11ac Wireless Broadband Router** skladen/a z osnovnimi zahtevami in ustreznimi določili Direktive 2014/53/EU.
Italiano	Con la presente , **PLANET Technology Corporation,** dichiara che questo **802.11ac Wireless Broadband Router** conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU.	**Suomi**	**PLANET Technology Corporation,** vakuuttaa täten että **802.11ac Wireless Broadband Router** tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Latviski	Ar šo **PLANET Technology Corporation,** apliecina, ka šī **802.11ac Wireless Broadband Router** atbilst Direktīvas 2014/53/EU pamatprasībām un citiem atbilstošiem noteikumiem.	**Svenska**	Härmed intygar, **PLANET Technology Corporation,** att denna **802.11ac Wireless Broadband Router** står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU.