



AC1200 MU-MIMO Dual Band Gigabit WiFi Router

AC10 V5.0

User Guide

Version: V1.0

Copyright Statement

© 2022 Shenzhen Tenda Technology Co., Ltd. All rights reserved.

Tenda is a registered trademark legally held by Shenzhen Tenda Technology Co., Ltd. Other brand and product names mentioned herein are trademarks or registered trademarks of their respective holders. Copyright of the whole product as integration, including its accessories and software, belongs to Shenzhen Tenda Technology Co., Ltd. No part of this publication can be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means without the prior written permission of Shenzhen Tenda Technology Co., Ltd.

Disclaimer

Pictures, images and product specifications herein are for references only. To improve internal design, operational function, and/or reliability, Tenda reserves the right to make changes to the products without obligation to notify any person or organization of such revisions or changes. Tenda does not assume any liability that may occur due to the use or application of the product described herein. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information and recommendations in this document do not constitute the warranty of any kind, express or implied.

Preface

Thank you for choosing Tenda! Please read this user guide before you start.

Applicable Model



This user guide is applicable to the AC1200 MU-MIMO dual band gigabit WiFi router AC10V5.0. The contained images and UI screenshots are subject to the actual products.

Conventions

Typographical conventions in this User Guide:

Item	Presentation	Example
Cascading Menus	>	Click Status > Device Status .
Parameter and value	Bold	Set User Name to Tom .
UI control	Bold	On the Policy page, click the OK button.
Variable	Italic	Format: <i>XX:XX:XX:XX:XX:XX</i>
Message	“ ”	The “Success” message appears.

Symbols in this User Guide:

Item	Meaning
 NOTE	This format is used to highlight information of importance or special interest. Ignoring this type of note may result in ineffective configurations, loss of data or damage to the device.
 TIP	This format is used to highlight a procedure that will save time or resources.

For more documents

If you want to get more documents about the device, visit www.tendacn.com and search for the corresponding product model.

The related documents are listed as below.

Document	Description
Datasheet	It introduces the basic information of the router, including product overview, selling points, and specifications.
Quick Installation Guide	It introduces how to set up the device quickly for internet access, the descriptions of LED indicators, ports, and buttons, FAQ, statement information, and so on.
Web User Guide	It introduces how to set up the device functions on the web for more requirements.

Technical Support

If you need more help, contact us by any of the following means. We will be glad to assist you as soon as possible.



Hotline

Global: (86) 755-27657180

(China Time Zone)

United States: 1-800-570-5892

(Toll-Free: 7 x 24 hours)

Canada: 1-888-998-8966

(Toll Free: Mon - Fri 9 am - 6 pm PST)

Hong Kong: 00852-81931998



Email

support@tenda.cn

Revision History

Tenda is constantly searching for ways to improve its products and documentation. The following table indicates any changes that might have been made since the user guide was released.

Version	Description	Date
V1.0	Original publication.	2022-08-10

Content

1	Web UI	1
1.1	Log in to the web UI.....	1
1.2	Log out of the web UI	3
1.3	Web UI layout.....	4
1.4	Common element.....	5
2	Internet status.....	6
2.1	Internet status	6
2.2	Wireless information	10
2.3	System information	11
2.3.1	Basic information	11
2.3.2	WAN status	12
2.3.3	LAN status.....	13
2.3.4	WiFi status	14
2.3.5	IPv6 status	15
2.4	Online device information	16
2.4.1	Add devices to the blacklist.....	17
2.4.2	Remove devices from the blacklist	18
3	Internet settings	19
3.1	Access the internet with a PPPoE account.....	19
3.2	Access the internet through dynamic IP address.....	22
3.3	Access the internet with a set of static IP address information.....	24
4	WiFi settings.....	26
4.1	WiFi name & password	26
4.1.1	Overview.....	26
4.1.2	Unify the 2.4 GHz WiFi name from 5 GHz WiFi name	28
4.1.3	Change the WiFi name and WiFi password.....	28
4.1.4	Hide the WiFi network	30
4.1.5	Connect to a hidden WiFi network	31
4.2	WiFi schedule	32
4.2.1	Overview.....	32
4.2.2	An example of configuring WiFi schedule	33

4.3	Wireless repeating	34
4.3.1	Overview	34
4.3.2	Extend the existing WiFi network	35
4.4	Channel & bandwidth	45
4.5	Transmit power	47
4.6	WPS	48
4.6.1	Connect devices to the WiFi network using the WPS button	48
4.6.2	Connect devices to the WiFi network through the web UI of the router	50
4.6.3	Connect devices to the WiFi network using the PIN code of the router	52
4.7	Beamforming+	54
4.8	AP mode	56
5	Guest network	62
5.1	Overview	62
5.2	An example of configuring the guest network	64
6	Parental control	65
6.1	Overview	65
6.2	Configure the parental control rule	66
6.3	An example of adding parental control rules	67
7	IPv6	69
7.1	DHCPv6	70
7.2	PPPoEv6	72
7.2.1	Overview	72
7.2.2	Access the internet through PPPoEv6	73
7.3	Static IPv6 address	75
7.3.1	Overview	75
7.3.2	Access the internet through PPPoEv6	76
8	Advanced settings	78
8.1	Bandwidth control	78
8.1.1	Overview	78
8.1.2	Set the upload and download speed limit for users	79
8.2	IPTV	80
8.2.1	Overview	80
8.2.2	Watch IPTV programs through the router	81
8.2.3	Watch multicast videos through the router	82
8.3	Tenda WiFi App	84

8.3.1	Overview.....	84
8.3.2	Remote App management	85
8.4	Sleeping mode	88
8.5	LED control	89
8.6	Filter MAC address.....	90
8.6.1	Overview.....	90
8.6.2	Only allow specified device to access the internet.....	91
8.7	Firewall.....	93
8.8	Static route	94
8.8.1	Overview.....	94
8.8.2	Add a static route rule	95
8.9	DDNS	98
8.9.1	Overview.....	98
8.9.2	Enable internet users to access LAN resources using a domain name	99
8.10	Virtual server	102
8.10.1	Overview.....	102
8.10.2	Enable internet users to access LAN resources	103
8.11	DMZ host.....	107
8.11.1	Overview.....	107
8.11.2	Enable internet users to access LAN resources	108
8.12	UPnP.....	111
9	System settings.....	112
9.1	LAN settings.....	112
9.1.1	Overview.....	112
9.1.2	Modify LAN IP address	113
9.2	DHCP reservation.....	115
9.2.1	Overview.....	115
9.2.2	Assign static IP addresses to LAN clients.....	116
9.3	WAN settings	117
9.3.1	Change MTU value	117
9.3.2	Change the WAN speed and duplex mode.....	118
9.3.3	Change the MAC address of the WAN port.....	119
9.3.4	Change the service name and server name	120
9.4	Time settings	121
9.4.1	Sync system time with the internet time	121

9.4.2 Set the time manually	122
9.5 Login password	123
9.6 Reboot and reset	124
9.6.1 Reboot the router	124
9.6.2 Reset the router	124
9.7 Upgrade firmware.....	126
9.7.1 Online upgrade	126
9.7.2 Local upgrade.....	126
9.8 Backup/Restore	128
9.8.1 Backup the configurations of the router	128
9.8.2 Restore previous configurations of the router	129
9.9 Remote management	131
9.9.1 Overview.....	131
9.9.2 Enable Tenda technical support to access and manage the web UI.....	132
9.10 System status.....	134
9.11 System log	135
9.12 Automatic maintenance.....	136
Appendix.....	137
A.1 Configuring the computer to obtain an IPv4 address automatically	137
A.1.1 Windows 10.....	137
A.1.2 Windows 8.....	140
A.1.3 Windows 7.....	142
A.2 Acronyms and Abbreviations	144

1 Web UI

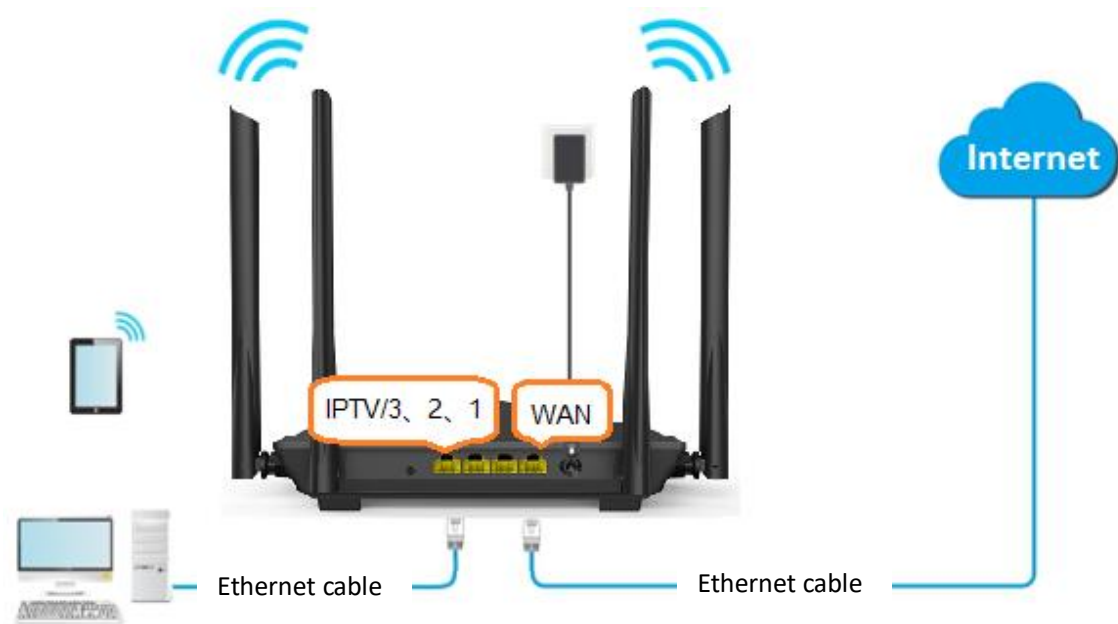
Upon your first use or reset of the router, please set up the router by referring to the router's quick installation guide (visit www.tendacn.com to download). If you want to log in to the web UI of the router, follow the procedures below.

1.1 Log in to the web UI

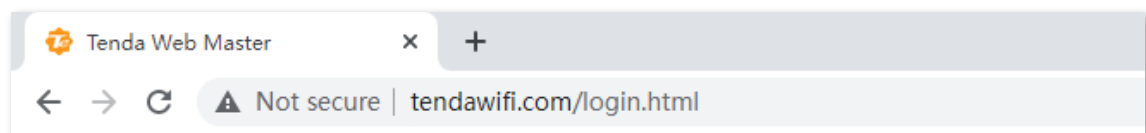
Step 1 Connect your smartphone to the WiFi network of the router, or connect your computer to a LAN port (1, 2 and IPTV/3) of the router.



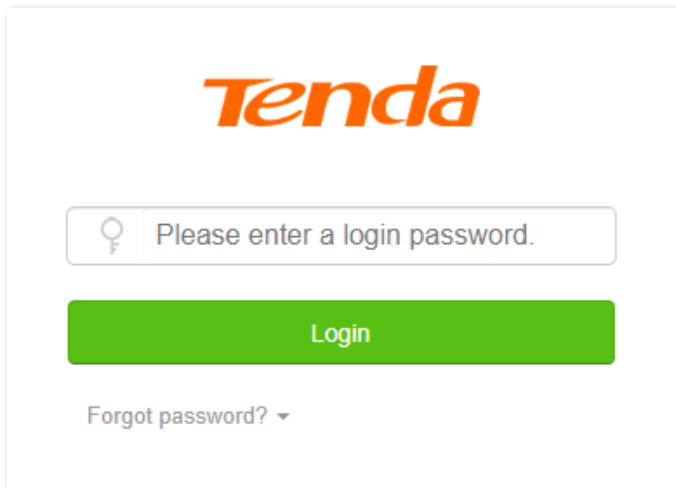
The IPTV/3 port is the LAN port by default. After the IPTV function is enabled, it can only serve as an IPTV port to be connected to a set-top box.



Step 2 Launch a web browser on the device connected to the router and visit **tendawifi.com** to log in to the web UI of the router. A computer is used for the illustration below.



Step 3 Enter the login password, and click **Login**.



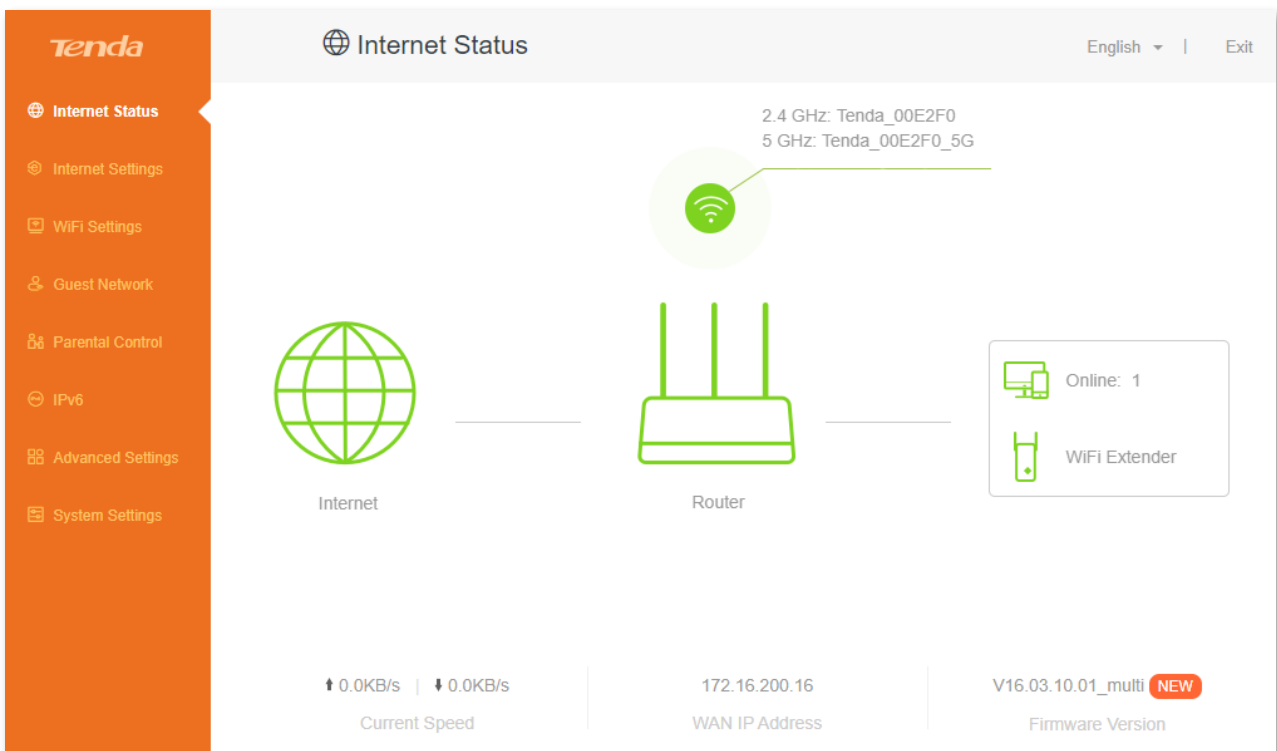
---End



If the above page does not appear, try the following solutions:

- Try to use the default login IP address (192.168.0.1) to log in to the web UI.
- Ensure that the router is powered on properly.
- Ensure that the computer is connected to a LAN port (1, 2 and IPTV/3) of the router, and [Configuring the computer to obtain an IP address automatically](#).
- [Restore the router to factory settings](#) and try again.

The following page appears.

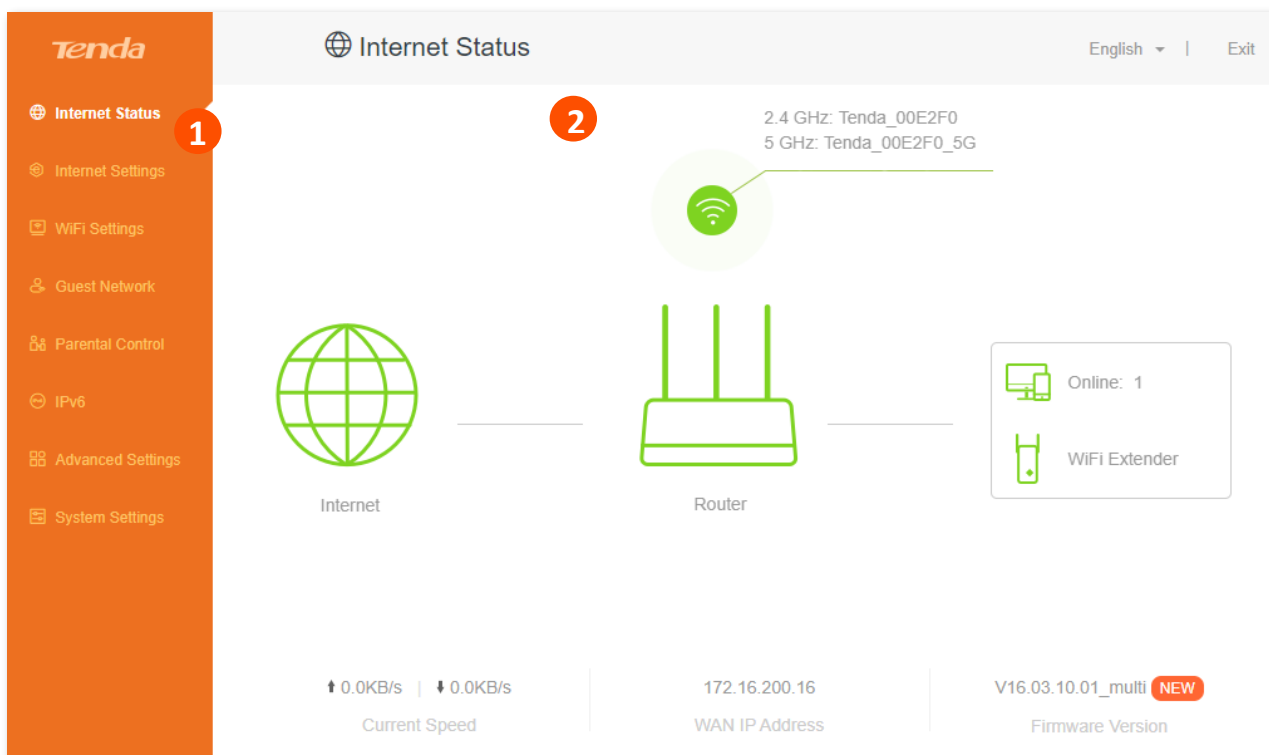


1.2 Log out of the web UI

If you log in to the web UI of the router and perform no operation within 5 minutes, the router logs you out automatically. You can also log out by clicking **Exit** at the top right corner of the web UI.

1.3 Web UI layout

The web UI of the router consists of two sections, including the navigation bar and the configuration area. See the following figure.



The functions and parameters shown in gray indicate that the functions are not supported or cannot be modified.

SN	Name	Description
1	Navigation bar	It is used to display the function menu of the router. Users can select functions in the navigation bar and the configuration page appears in the configuration area.
2	Configuration area	It is used to modify or view your configurations.

1.4 Common element

The common elements used on the web UI are as follows.

Common element	Description
Save	It is used to save the current configurations and enable them to take effect.
Cancel	It is used to cancel the current configurations and restore the previous settings.

2

Internet status

Log in to the web UI of the router and choose **Internet Status** to enter the page. On this page, you can find the following information.

- [Internet status](#)
- [Wireless information](#)
- [System information](#)
- [Online devices information](#)

2.1 Internet status

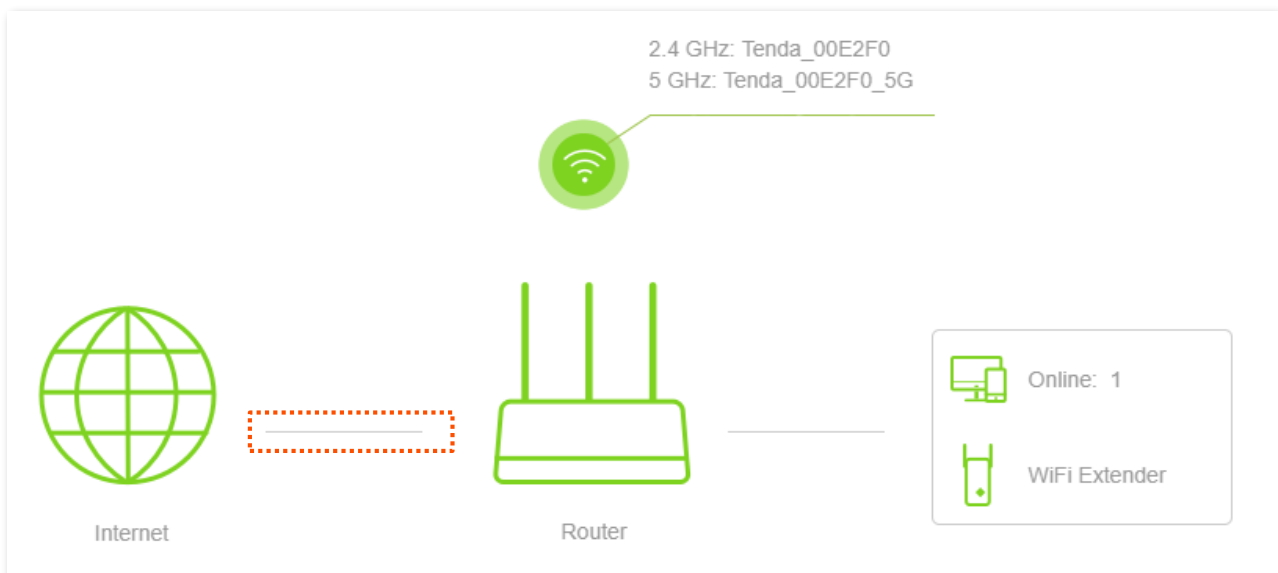
To view internet status:

Step 1 [Log in to the web UI.](#)

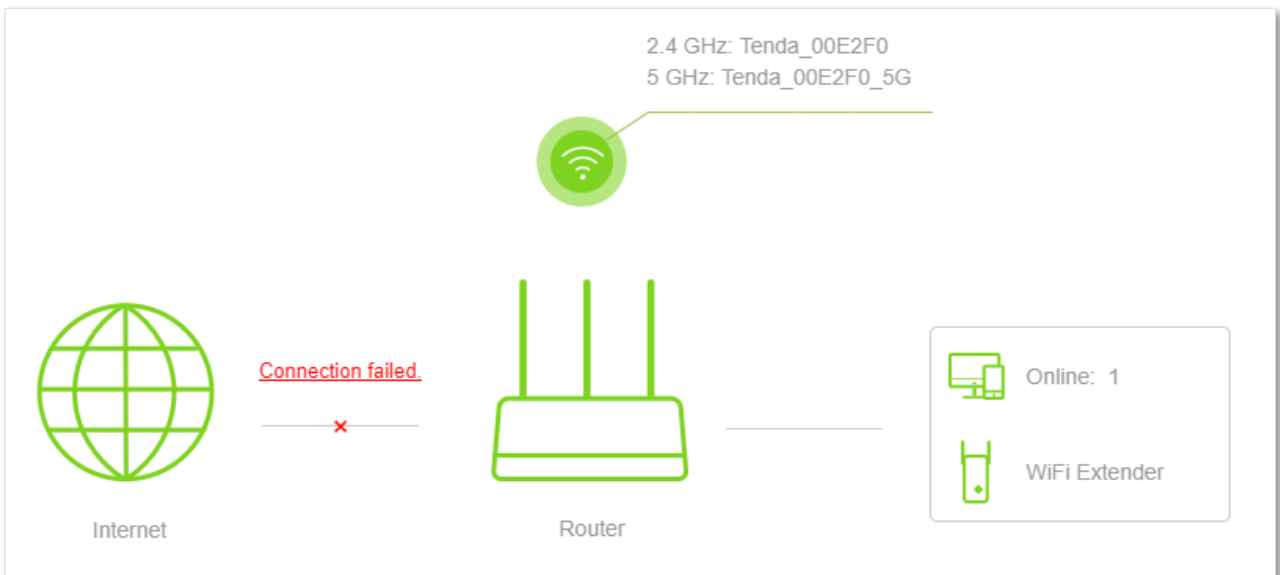
Step 2 Click **Internet Status**.

---End

When the link between the **Internet** and the **Router** is clear as shown below, the router is connected to the internet successfully and you can access the internet via the router.



When a red cross and “[Connection failed.](#)” are shown between the **Internet** and the **Router**, it indicates that the internet connection is abnormal. Please click [Connection failed.](#) to navigate to the **Internet Settings** page and follow the instructions to solve the problem.



When “[Please ensure that the cable between the Internet port of the router and the modem is properly connected.](#)” is shown on the page, ensure that the WAN port of the router and the LAN port of the modem or the Ethernet jack is connected properly. If the problem persists, contact technical support for help.

Internet Settings ✕

Connection Type:

DNS Settings:

Connection Status: [Please ensure that the cable between the Internet port of the router and the modem is properly connected.](#)

When “**The user name and password are incorrect.**” is shown on the page, it indicates that the user name and password you entered are incorrect. Please re-enter the user name and password.



Please consider the following tips when entering the user name and password:

- Pay attention to case sensitivity, such as “Z” and “z”.
- Pay attention to similar letters and numbers, such as “l” and “1”.
- Ensure the completeness of account parameters, such as “0755000513@163.gd”, rather than “0755000513”

If the problem persists, contact your ISP for help.

A screenshot of a web-based "Internet Settings" dialog box. The title bar says "Internet Settings" and has a close button (X) on the right. The form contains four fields: "Connection Type" with a dropdown menu set to "PPPoE"; "ISP User Name" with a text input field containing "Tom"; "ISP Password" with a text input field containing a series of dots; and "DNS Settings" with a dropdown menu set to "Automatic". Below these fields is a "Connection Status" section with a red error message: "Please ensure that the cable between the Internet port of the router and the modem is properly connected." At the bottom center is a green "Connect" button.

When “**No response from the remote server. Please check whether your computer can access the internet directly using your Modem. If no, contact your ISP for help.**” is shown on the page below, try the following methods:

- Ensure that the Ethernet cable is connected properly.
- Ensure that you choose the proper connection type. Contact your ISP for any doubt about the connection type.
- Power off the router for several minutes, then power it on and try again.
- If the problem persists, contact your ISP for help.

Internet Settings ✕

Connection Type:

ISP User Name:

ISP Password:

DNS Settings:

Connection Status: **No response from the remote server. Please check whether your computer can access the internet directly using your Modem. If no, contact your ISP for help.**

When “**Disconnected. Please contact your ISP for help.**” is shown on the page as below, try the following methods:

- Modify the MAC address of the WAN port by referring to [Change the MAC address of the WAN port.](#)
- Use another device to configure the router again.
- Ensure that your internet service does not expire.
- If the problem persists, contact Tenda technical support.

Internet Settings ✕

Connection Type:

DNS Settings:

Connection Status: **Disconnected. Please contact your ISP for help.**

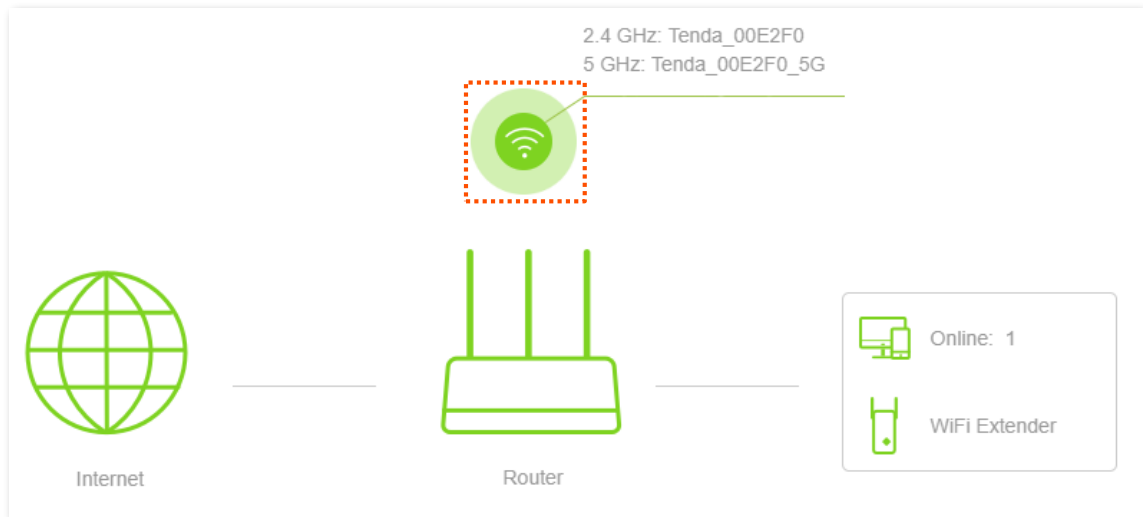
Connection Duration: 35 s

2.2 Wireless information

To view or configure the wireless information:

Step 1 [Log in to the web UI.](#)

Step 2 Click **Internet Status**, and then click .



---End

You can change wireless parameters as required.

WiFi Settings ✕

Unify 2.4 GHz & 5 GHz

2.4 GHz Network

WiFi Name: Hide

Encryption Mode: ▾

WiFi Password:

5 GHz Network

WiFi Name: Hide

Encryption Mode: ▾

WiFi Password:

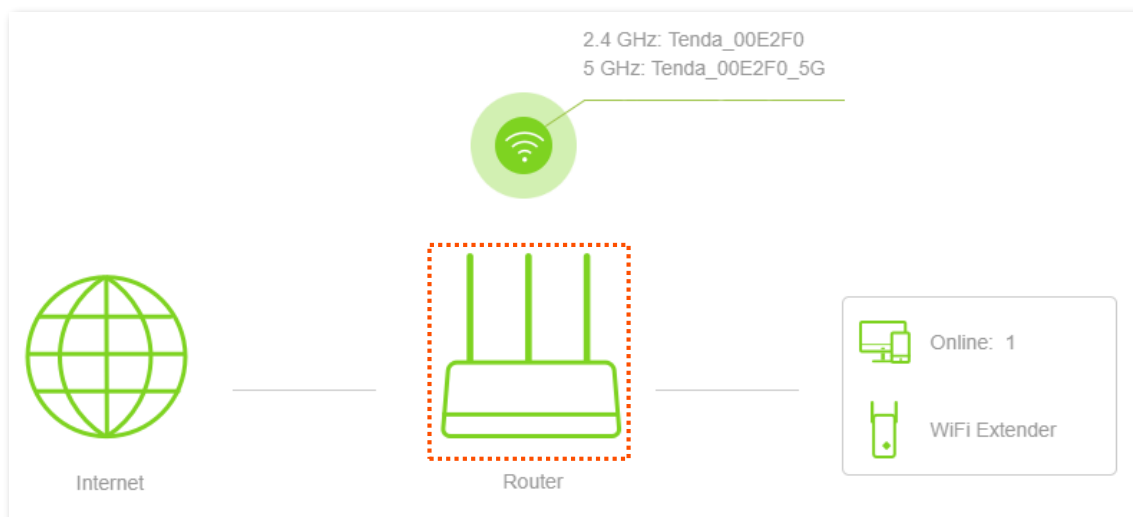
2.3 System information

You can view the basic information, WAN port status, LAN status, WiFi status and IPv6 status here.

To view the wireless information:

Step 1 [Log in to the web UI.](#)

Step 2 Click **Internet Status**, and then click .



---End

2.3.1 Basic information

In this part, you can view such basic information as system time, uptime, firmware version and hardware version of the router.

Information

System Time: 2022-07-14 19:43:40

Uptime: 1 hour(s) 57 min 6 s

Firmware Version: V16.03.10.01_multi

Hardware Version: V4.0

2.3.2 WAN status

In this part, you can view such information as connection type, connection status and connection duration of the WAN port.

WAN Status

Connection Type: PPPoE

Connection Status: Connected

Connection Duration: 6 min 39 s

IP Address: 172.16.200.16

Subnet Mask: 255.255.255.255

Default Gateway: 172.16.200.1

Primary DNS: 114.114.114.114

Secondary DNS: 223.5.5.5

MAC Address: 50:2B:73:00:E2:FC

Parameter description

Parameter	Description
Connection Type	It specifies the internet IPv4 connection type of the WAN port.
Connection Status	It specifies the internet connection status of the WAN port.
Connection Duration	It specifies the duration since the router is connected to the internet.
IP Address	It specifies the WAN IP address of the router.
Subnet Mask	It specifies the WAN subnet mask of the router.
Default Gateway	It specifies the gateway IP address of the router.
Primary DNS	They specify the IP address of primary and secondary DNS servers of the router.
Secondary DNS	
MAC Address	It specifies the MAC address of the WAN port of the router.

2.3.3 LAN status

In this part, you can view such information as the LAN IPv4 address, subnet mask and MAC address of the LAN port.

LAN Status

IP Address: 192.168.0.1

Subnet Mask: 255.255.255.0

MAC Address:

Parameter description

Parameter	Description
IP Address	It specifies the LAN IP address of the router, and also the IP address for logging in to the web UI of the router.
Subnet Mask	It specifies the LAN subnet mask of the router.
MAC Address	It specifies the LAN MAC address of the router.

2.3.4 WiFi status

In this part, you can view such information as the status, visibility, hotspot name and encryption mode of the 2.4 GHz and 5 GHz WiFi network.

WiFi Status

2.4 GHz Network: Visible

Hotspot Name: Tenda_00E2F0

Encryption Mode: WPA2-PSK

WiFi Channel: 1

WiFi Bandwidth: 20

MAC Address: [REDACTED]

5 GHz Network: Visible

Hotspot Name: Tenda_00E2F0_5G

Encryption Mode: WPA2-PSK

WiFi Channel: 157

WiFi Bandwidth: 80

MAC Address: 50:2B:73:00:E2:F8

Parameter description

Parameter	Description
2.4 GHz Network	They specify whether the corresponding WiFi network is enabled or disabled, and the visibility of the WiFi network.
5 GHz Network	
Hotspot Name	It specifies the WiFi name of the respective WiFi network.
Encryption Mode	It specifies the encryption mode of the respective WiFi network.
WiFi Channel	It specifies the channel that the respective WiFi network works in.
WiFi Bandwidth	It specifies the bandwidth of the respective WiFi network.
MAC Address	It specifies the MAC address of the respective WiFi network.

2.3.5 IPv6 status

This part is only displayed when the [IPv6](#) function is enabled. You can view the information of IPv6 connection, including connection type, IPv6 WAN address and IPv6 LAN address.

IPv6 Status

Connection Type: PPPoEv6

IPv6 WAN Address:

IPv6 LAN Address: fe80::522b:73ff:fe00:e2f0/64

Parameter description

Parameter	Description
Connection Type	It specifies the IPv6 connection type of the router.
IPv6 WAN Address	It specifies the WAN IPv6 address of the router. After the IPv6 function is configured, the WAN port of the router obtains a global unicast IPv6 address or a tunnel address, and a link-local address.
IPv6 LAN Address	It specifies the LAN IPv6 address of the router. After the IPv6 function is configured, the LAN port of the router obtains a global unicast IPv6 address or a tunnel address, and a link-local address.

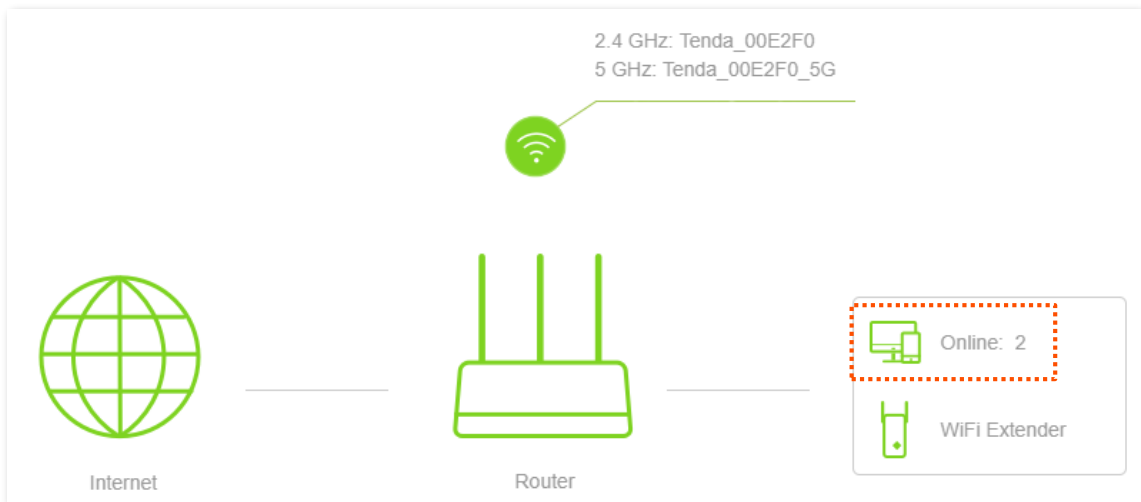
2.4 Online device information

On this page, you can view such information as the upload speed, download speed and access type of devices connected to the router. You can also add devices to the blacklist.

To access the page:





Step 1 [Log in to the web UI.](#)

Step 2 Click **Internet Status**, and then click  Online: .




---End

The figure is shown as below.

Manage Device					
Attached Devices (2) Blacklist					
Device Name	Upload Speed	Download Speed	Access Type	Blacklist	
 MININT-GV6I0BB 192.168.0.194 	0.0KB/s	0.0KB/s	Wired	Local Host	
 a2:7e:6c:f9:91:4e 192.168.0.196 	0.0KB/s	5.0KB/s	2.4G		<input type="button" value="Add"/>

Parameter description

Parameter	Description	
Device Name	It specifies the name and IP address of the client device. The name of the client device is the name recognized by the router. If it is not recognized, it will display Unknown . Click  to modify the device name.	
Upload Speed	It specifies the current upload/download of the client device.	
Download Speed		
Attached Devices	It specifies the connection type of the client device connected to the router. <ul style="list-style-type: none">• Wired: The client device is connected to the router with an Ethernet cable.• 2.4 GHz: The client device is connected to the 2.4 GHz wireless network.• 5 GHz: The client device is connected to the 5 GHz wireless network.	
Blacklist	It specifies the client devices are added to the blacklist.	
Device Name	It specifies the name of the client device automatically recognized by the router.	
Blacklist	MAC Address	It specifies the MAC address of the client device.
	Remove from Blacklist	Click Remove to remove the client device from the blacklist.

2.4.1 Add devices to the blacklist

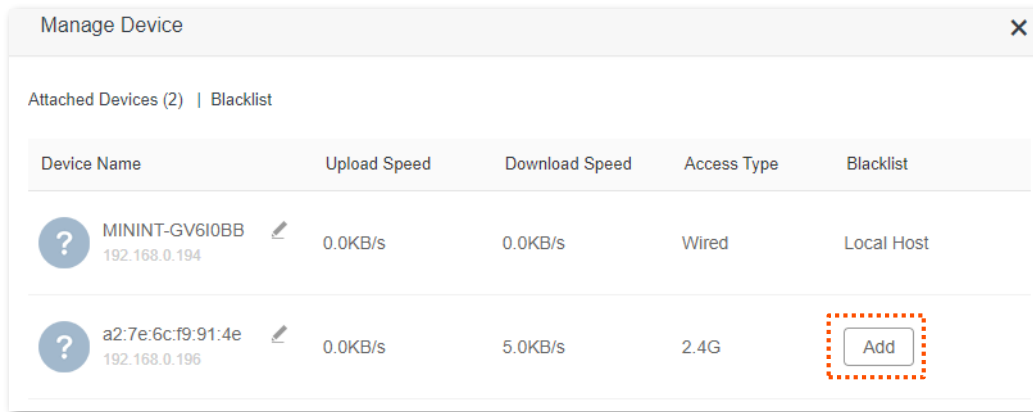
Add devices to the blacklist to block the internet access:

Step 1 [Log in to the web UI.](#)


Step 2 Click **Internet Status**, and then click .

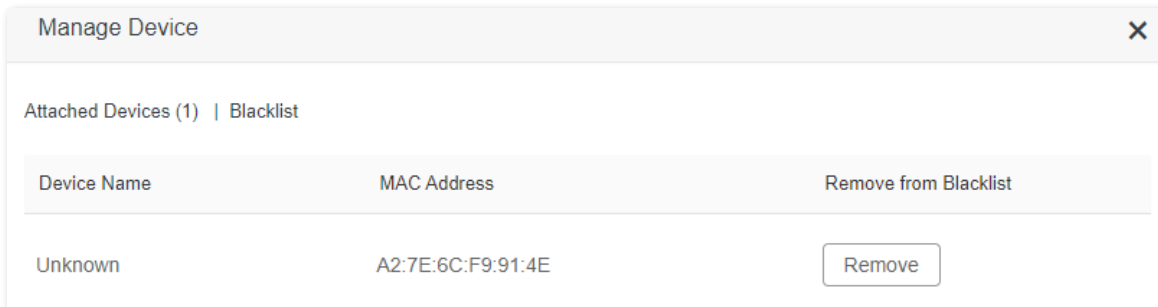
Step 3 Choose **Attached Devices**, and target the device to be added.

Step 4 Click **Add**.



---End

On the **Internet Status** page, click , and then click **Blacklist**, you can view devices that are added to the blacklist.



2.4.2 Remove devices from the blacklist

Devices removed from the blacklist can be reconnected to the router to access the internet.

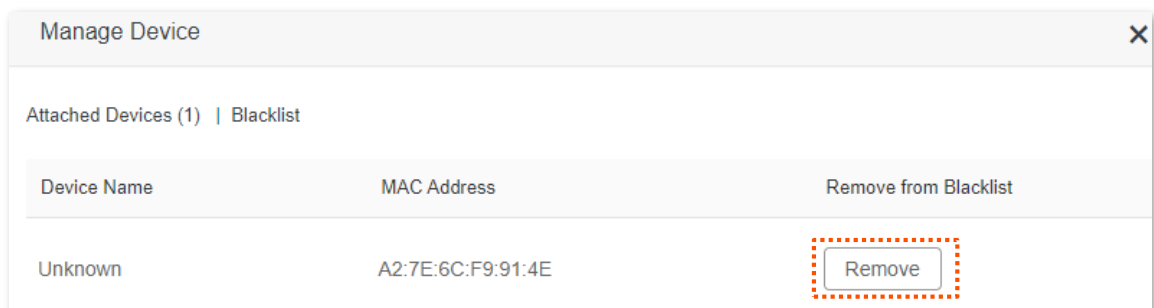
To remove devices from the blacklist as required:

Step 1 [Log in to the web UI.](#)

Step 2 Click **Internet Status**, and then click .

Step 3 Click **Blacklist**, and target the device to be removed from the blacklist.

Step 4 Click **Remove**.



---End

3 Internet settings

By configuring the internet settings, you can achieve shared internet access (IPv4) for multiple users within the LAN.

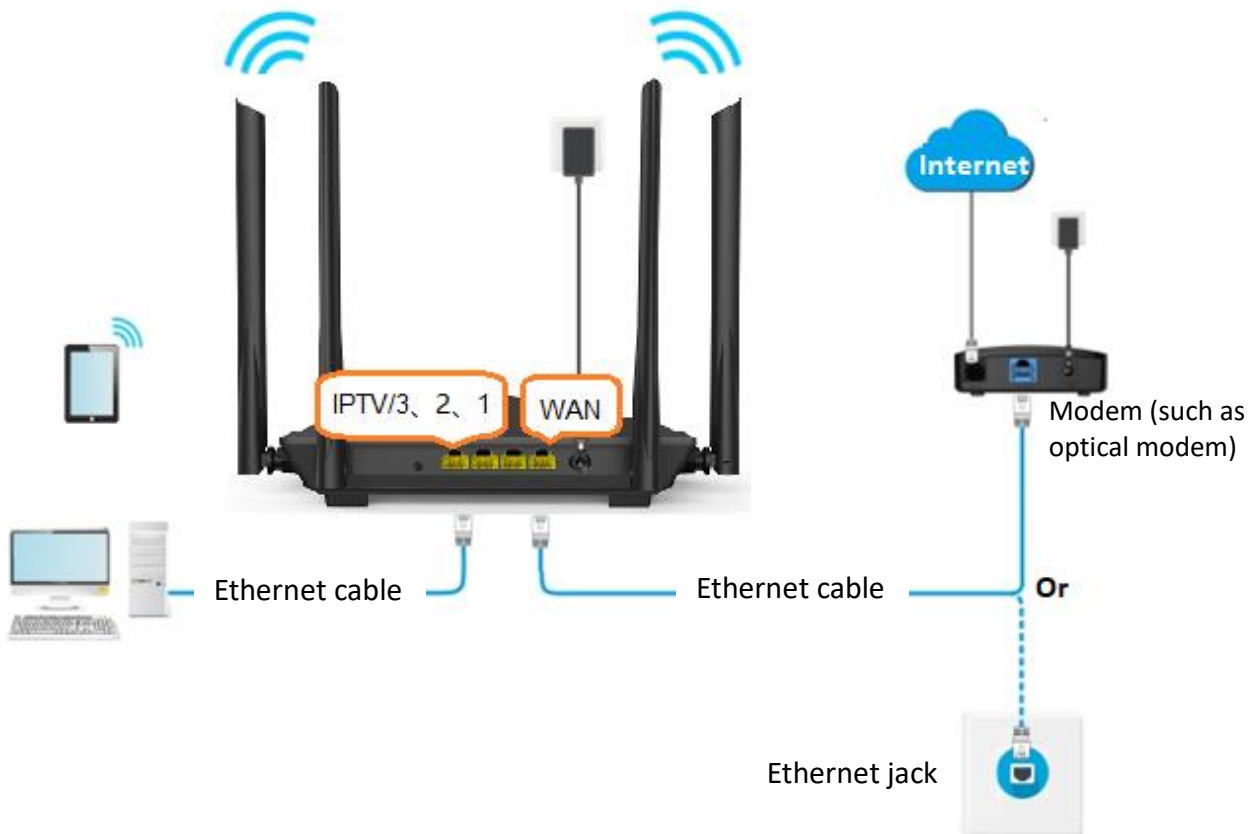
Upon your first use or reset of the router, please set up the router by referring to the router's quick installation guide. You can change the internet settings by following the instructions in this chapter.



Parameters for accessing the internet are provided by your ISP. Contact your ISP for any doubt.

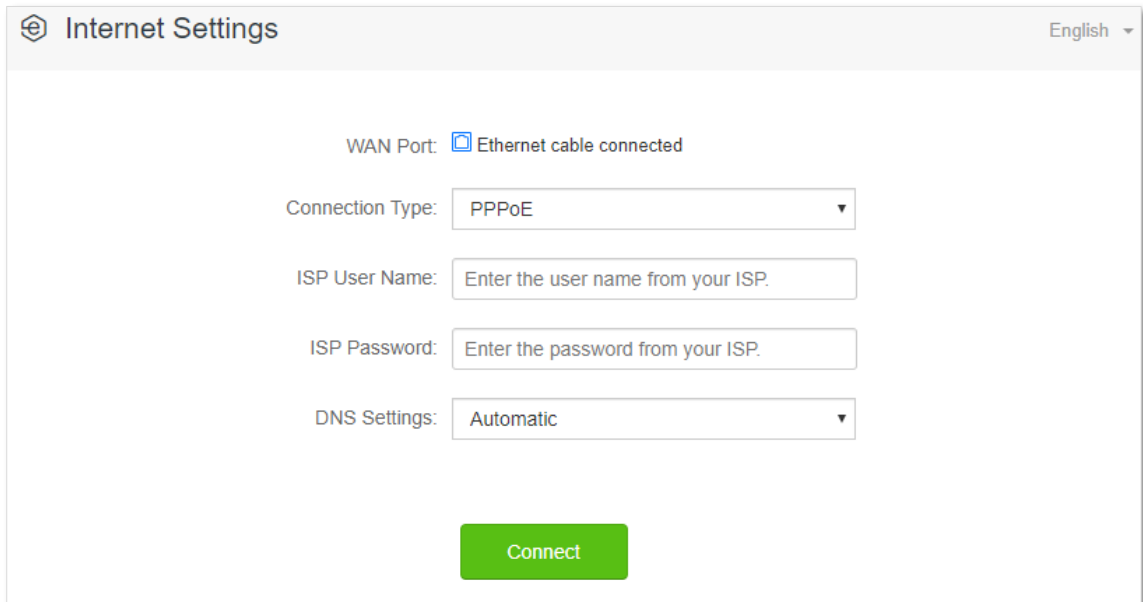
3.1 Access the internet with a PPPoE account

If the ISP provides you with a PPPoE user name and password, you can choose this connection type to access the internet. The application scenario is shown as below.



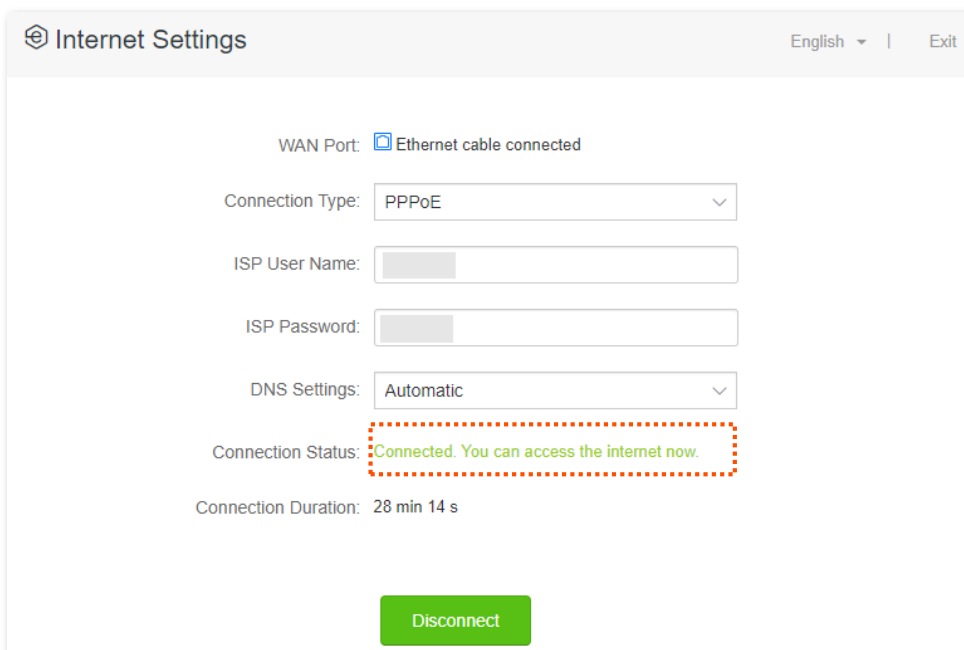
Procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Click **Internet Settings**.
- Step 3** Set **Connection Type** to **PPPoE**.
- Step 4** Enter the **ISP User Name** and **ISP Password**.
- Step 5** Click **Connect**.



---End

Wait a moment until “**Connected. You can access the internet now.**” is shown on the page, and you can access the internet.



If you fail to access the internet, try the following methods:

- If “No response from the remote server. Please check whether your computer can access the internet directly using your Modem. If no, contact your ISP for help.” is shown on the page, you are recommended to choose [Dynamic IP Address](#) to access the internet.
- If the problem persists, refer to [View the internet status](#) to find a solution.

Parameter description

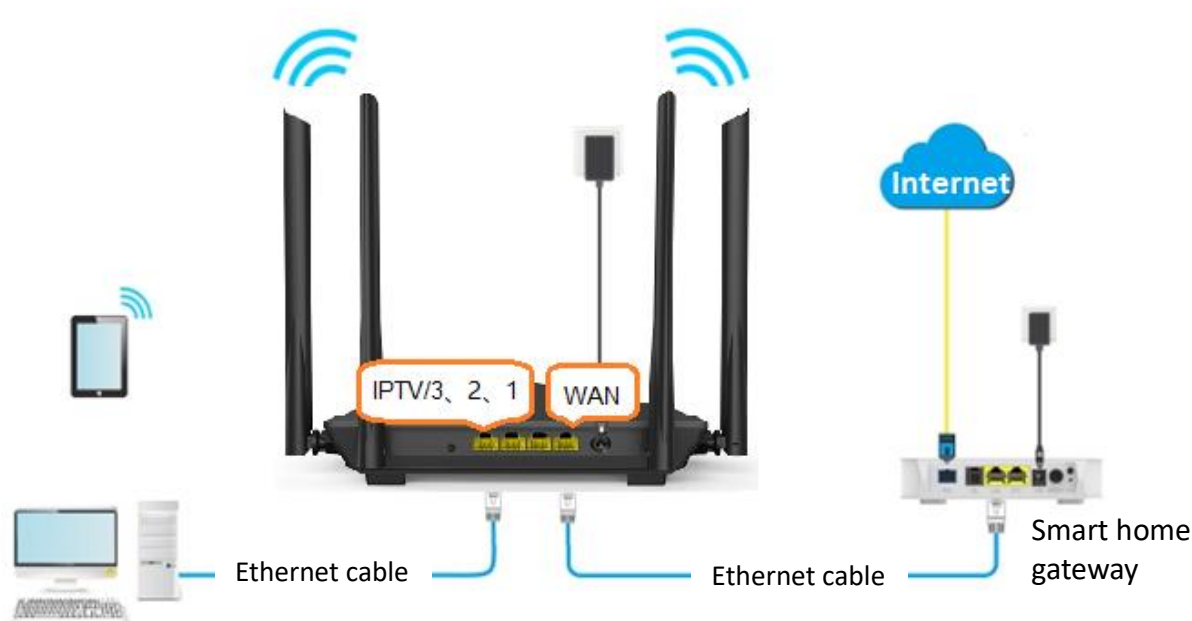
Parameter	Description
ISP User Name	When PPPoE is chosen as the connection type, you need to enter the user name and password provided by your ISP to access the internet.
ISP Password	
DNS Settings	<p>It specifies the obtaining method of the WAN port DNS address, which is Automatic by default.</p> <ul style="list-style-type: none">• Automatic: The router obtains a DNS server address from the DHCP server of the upstream network automatically.• Manual: The DNS server address is configured manually.
Connection Status	<p>It specifies the internet connection status.</p> <ul style="list-style-type: none">• When “Connected. You can access the internet now.” is shown here, the router is connected to the internet successfully.• When other information is shown here, the router fails to connect to the internet. Please take corresponding measures according to the tips provided.
Connection Duration	It specifies the duration since the router is connected to the internet.

3.2 Access the internet through dynamic IP address

Generally, accessing the internet through dynamic IP address is applicable in the following situations:

- Your ISP does not provide PPPoE user name and password, or any information including IP address, subnet mask, default gateway and DNS server.
- You have a router with internet access and want to add a new router as the other one.

The application scenario is shown as below.



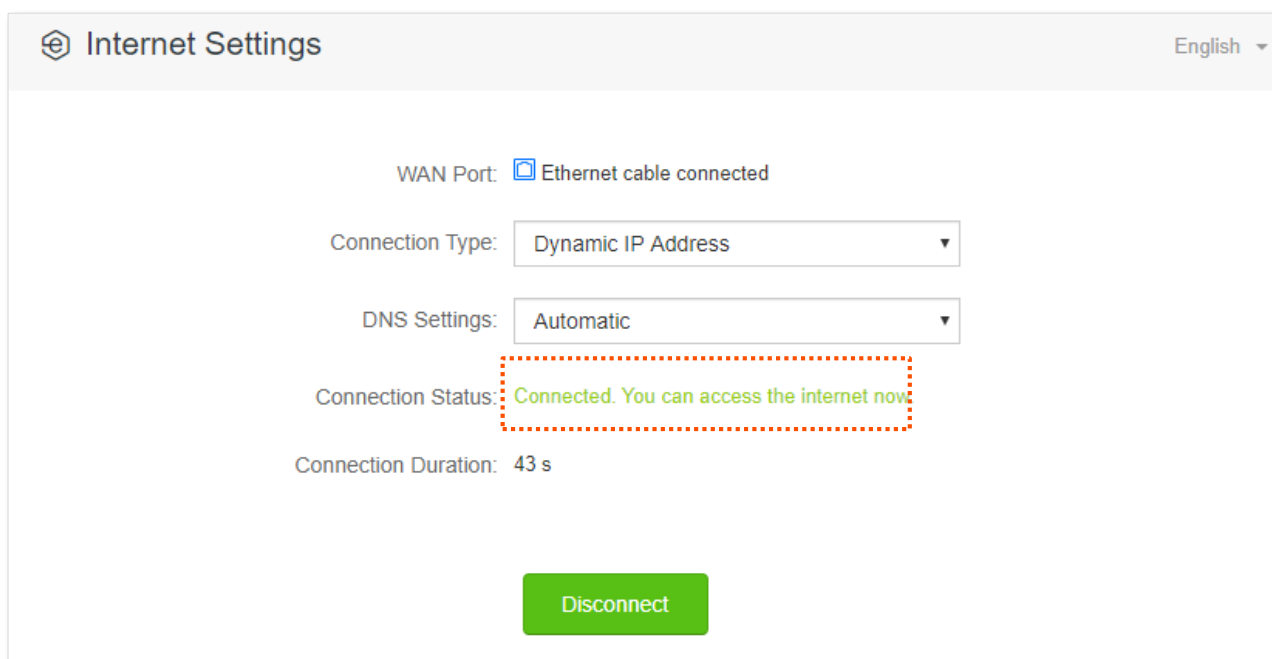
Procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Click **Internet Settings**.
- Step 3** Set **Connection Type** to **Dynamic IP Address**.
- Step 4** Click **Connect**.

The screenshot shows the 'Internet Settings' web interface. At the top right, there is a language dropdown menu set to 'English'. Below the title, it indicates 'WAN Port: Ethernet cable connected'. There are two dropdown menus: 'Connection Type' is set to 'Dynamic IP Address' and 'DNS Settings' is set to 'Automatic'. At the bottom center, there is a green 'Connect' button.

---End

Wait a moment until “**Connected. You can access the internet now.**” is shown on the page, and you can access the internet.



If you fail to access the internet, refer to [View the internet status](#) to find a solution.

Parameter description

Parameter	Description
DNS Settings	<p>It specifies the obtaining method of the WAN DNS address, which is Automatic by default.</p> <ul style="list-style-type: none">• Automatic: Obtain a DNS server address from the DHCP server of the upstream network.• Manual: Configure the DNS server address manually.
Connection Status	<p>It specifies the internet connection status.</p> <ul style="list-style-type: none">• When “Connected. You can access the internet now.” is shown here, the router is connected to the internet successfully.• When other information is shown here, the router fails to connect to the internet. Please take corresponding measures according to the tips provided.
Connection Duration	<p>It specifies the duration since the router is connected to the internet.</p>

3.3 Access the internet with a set of static IP address information

When your ISP provides you with information including IP address, subnet mask, default gateway and DNS server, you can choose this connection type to access the internet.

Procedure:

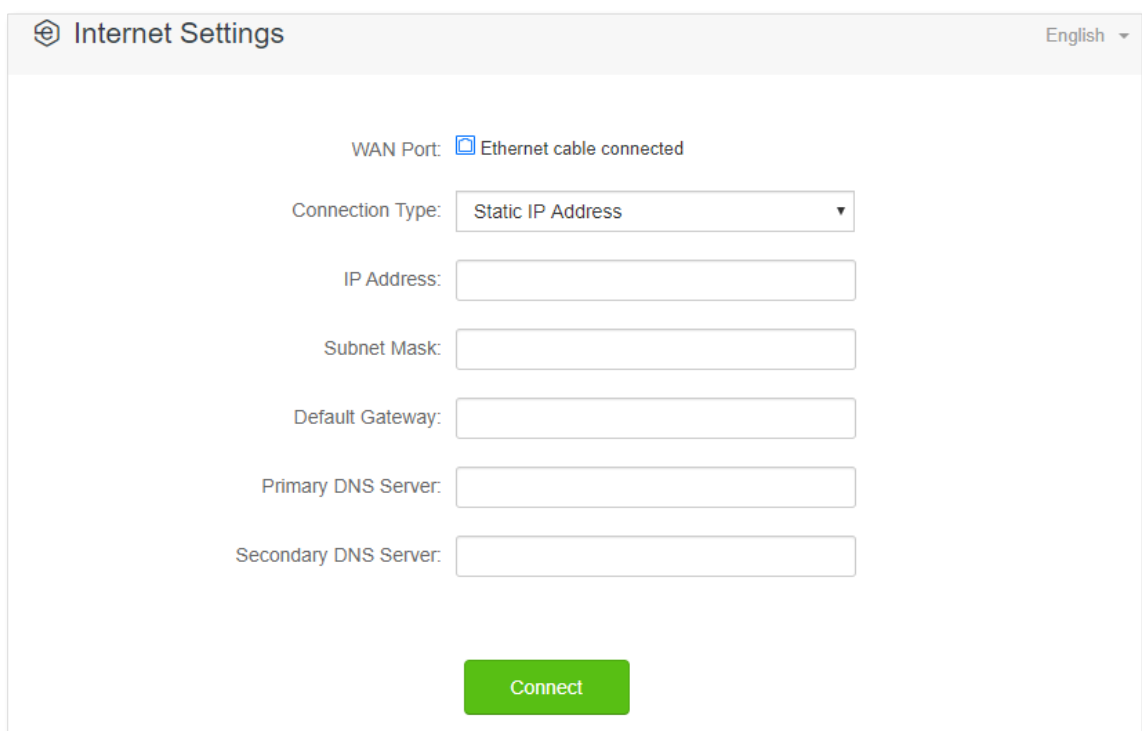
Step 1 [Log in to the web UI.](#)

Step 2 Click **Internet Settings**.

Step 3 Set **Connection Type** to **Static IP Address**.

Step 4 Enter **IP Address, Subnet Mask, Default Gateway** and **Primary/Secondary DNS server**.

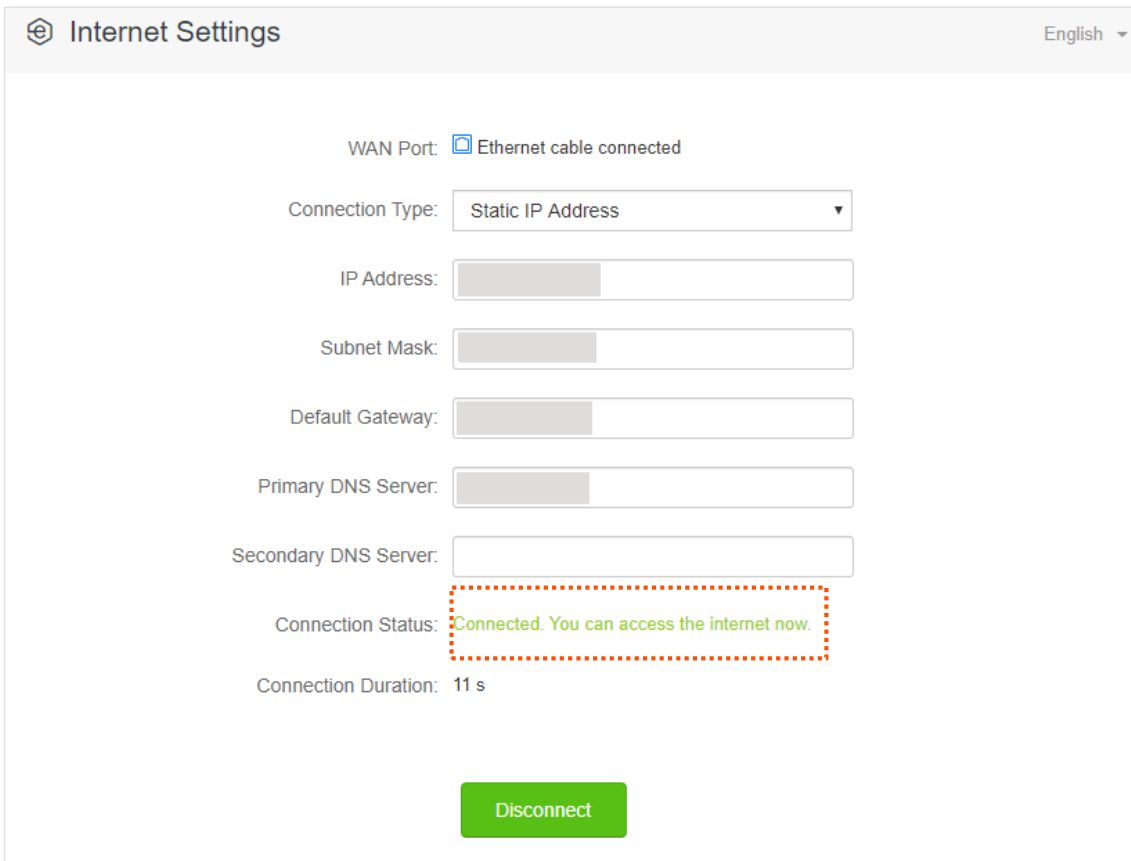
Step 5 Click **Connect**.



The screenshot shows the 'Internet Settings' web interface. At the top left is a home icon and the title 'Internet Settings'. At the top right is a language dropdown menu set to 'English'. Below the title bar, the 'WAN Port' is set to 'Ethernet cable connected' with a checked checkbox. The 'Connection Type' is set to 'Static IP Address' in a dropdown menu. Below this are five input fields: 'IP Address', 'Subnet Mask', 'Default Gateway', 'Primary DNS Server', and 'Secondary DNS Server'. At the bottom center is a green 'Connect' button.


---End

Wait a moment until “**Connected. You can access the internet now.**” is shown on the page, you can access the internet.



If you fail to access the internet, refer to [View the internet status](#) to find a solution.

Parameter description

Parameter	Description
IP Address	
Subnet Mask	When the static IP address is chosen as the connection type, enter the fixed IP address information provided by your ISP.
Default Gateway	 TIP
Primary DNS Server	If your ISP only provides one DNS server, you can leave the Secondary DNS Server blank.
Secondary DNS Server	
Connection Status	It specifies the internet connection status. <ul style="list-style-type: none"> When “Connected. You can access the internet now.” is shown here, the router is connected to the internet successfully. When other information is shown here, the router fails to connect to the internet. Please take corresponding measures according to the tips provided.
Connection Duration	It specifies the duration since the router is connected to the internet.

4

WiFi settings

4.1 WiFi name & password

4.1.1 Overview

To access the configuration page, [log in to the web UI](#), and navigate to **WiFi Settings > WiFi Name & Password**.

On this page, you can configure basic WiFi parameters, such as enabling/disabling the WiFi network, modifying the WiFi name, setting the WiFi password.

WiFi Name & Password ✕

Unify 2.4 GHz & 5 GHz

2.4 GHz Network

WiFi Name: Hide

Encryption Mode: ▾

WiFi Password:


5 GHz Network

WiFi Name: Hide

Encryption Mode: ▾

WiFi Password:

Parameter description

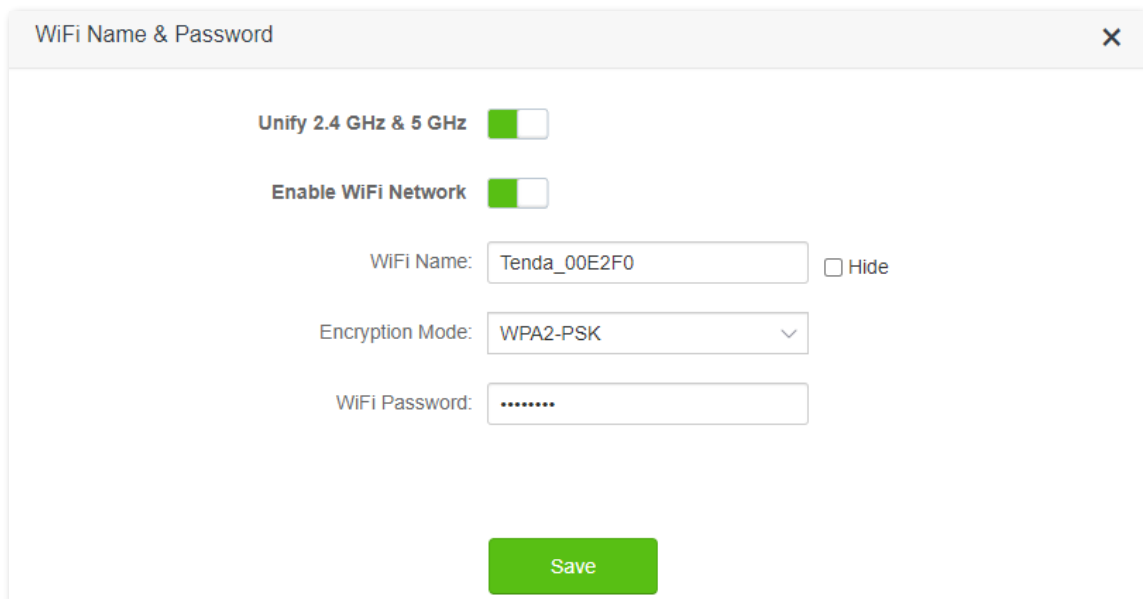
Parameter	Description
Unify 2.4 GHz & 5 GHz	<p>It is used to enable or disable the Unify 2.4 GHz & 5 GHz function, which is disabled by default.</p> <p>When this function is enabled, the 2.4 GHz and 5 GHz WiFi networks share the same SSID and password. Devices connected to the WiFi network will use the network with better connection quality automatically.</p>
Enable WiFi Network	<p>It is used to enable or disable the WiFi networks of the router when the Unify 2.4 GHz & 5GHz function is enabled.</p>
2.4 GHz Network	<p>You can enable or disable the 2.4 GHz network and 5 GHz network separately when the Unify 2.4 GHz & 5 GHz function is disabled.</p> <ul style="list-style-type: none">• If wireless devices such as smartphones are far away from the router or blocked from the router by a wall, it is recommended to connect to the 2.4 GHz WiFi network.
5 GHz Network	<ul style="list-style-type: none">• If the wireless devices are close to the router, it is recommended to connect to the 5 GHz WiFi network.
WiFi Name	<p>It specifies the WiFi network name (SSID) of the corresponding WiFi network.</p>
Hide	<p>It is used to hide the WiFi name of the WiFi network, to improve the security level of the WiFi network.</p> <p>When this function is enabled, the WiFi network is invisible to wireless devices. You need to enter the WiFi name of the network on your wireless devices (such as a smartphone) manually if you want to join the WiFi network.</p>
Encryption Mode	<p>It specifies the encryption modes supported by the router, including:</p> <ul style="list-style-type: none">• None: It indicates that the WiFi network is not encrypted and any clients can access the network without a password. This option is not recommended as it leads to low network security.• WPA2-PSK: The network is encrypted with WPA2-PSK/AES.
WiFi Password	<p>It specifies the password for connecting to the WiFi network. You are strongly recommended to set a WiFi password for security.</p> <p> TIP</p> <p>It is recommended to use the combination of numbers, uppercase letters, lowercase letters and special symbols in the password to enhance the security of the WiFi network.</p>

4.1.2 Unify the 2.4 GHz WiFi name from 5 GHz WiFi name

The router supports both 2.4 GHz and 5 GHz WiFi network. The Unify 2.4 GHz & 5 GHz function is disabled by default, and two WiFi network names are displayed. If you want to unify the WiFi names of the one network, follow the procedures below.

Procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **WiFi Settings > WiFi Name & Password.**
- Step 3** Enable the **Unify 2.4 GHz & 5 GHz.**
- Step 4** Customize the **WiFi Name, Encryption Mode** and **WiFi Password** of WiFi network.
- Step 5** Click **Save.**



WiFi Name & Password

Unify 2.4 GHz & 5 GHz

Enable WiFi Network

WiFi Name: Hide

Encryption Mode: ▼

WiFi Password:

Save

---End

After the configuration is completed, the 2.4 GHz WiFi network and 5 GHz WiFi network of the router have the same WiFi name and password, and when you connect to the WiFi network of the router, it will automatically connect to the WiFi network with the best network quality.

4.1.3 Change the WiFi name and WiFi password

The router supports both 2.4 GHz and 5 GHz WiFi network.

Assume that you want to change the 2.4 GHz WiFi name and password to **John_Doe_2.4GHz** and **Tenda+Wireless24**, and the 5 GHz WiFi name and password to **John_Doe_5GHz** and **Tenda+Wireless5**. Both networks adopt **WPA2-PSK** as the encryption type.

Procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **WiFi Settings > WiFi Name & Password.**
- Step 3** Change the parameters of the 2.4 GHz network.

1. Change the **WiFi Name** of the 2.4 GHz network, which is **John_Doe_2.4GHz** in this example.
2. Choose an **Encryption Mode**, which is **WPA2-PSK** in this example.
3. Change the **WiFi Password** of the 2.4 GHz network, which is **Tenda+Wireless24** in this example.

Step 4 Change the parameters of the 5 GHz network.

1. Change the **WiFi Name** of the 5 GHz network, which is **John_Doe_5GHz** in this example.
2. Choose an **Encryption Mode**, which is **WPA2-PSK** in this example.
3. Change the **WiFi Password** of the 5 GHz network, which is **Tenda+Wireless5** in this example.

Step 5 Click **Save**.

WiFi Name & Password

Unify 2.4 GHz & 5 GHz

2.4 GHz Network

WiFi Name: John_Doe_2.4GHz Hide

Encryption Mode: WPA2-PSK

WiFi Password:

5 GHz Network

WiFi Name: John_Doe_5GHz Hide

Encryption Mode: WPA2-PSK

WiFi Password:

Save

---End

After the configuration is completed, your wireless device, such as your smartphone, needs to be connected to a new WiFi network to access the internet.

4.1.4 Hide the WiFi network

The hidden WiFi networks are invisible to wireless devices, thus improving the security of the networks.

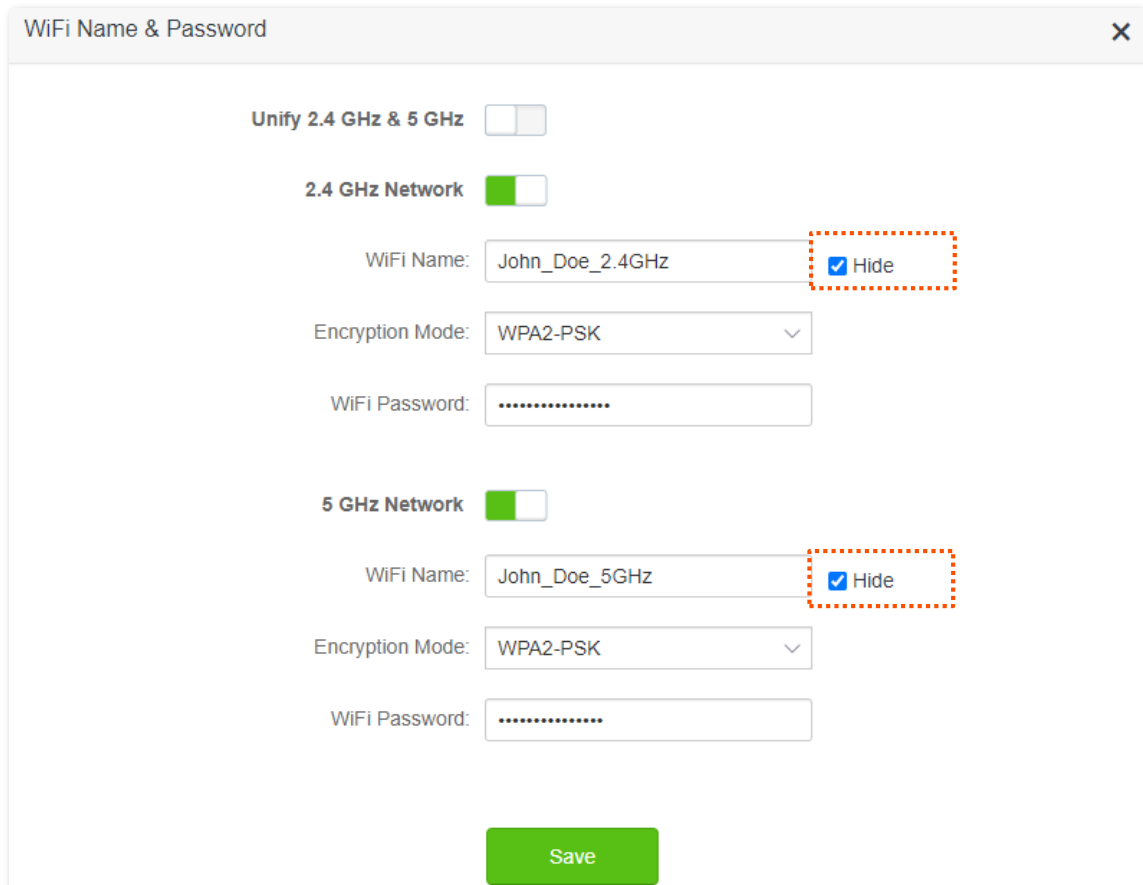
Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Navigate to **WiFi Settings > WiFi Name & Password.**

Step 3 Tick **Hide** of the target network.

Step 4 Click **Save.**



The screenshot shows the 'WiFi Name & Password' configuration window. It features two sections for 2.4 GHz and 5 GHz networks. Each section includes a 'WiFi Name' field, an 'Encryption Mode' dropdown menu, and a 'WiFi Password' field. The 'Hide' checkbox is checked for both networks. A green 'Save' button is located at the bottom.

WiFi Name & Password

Unify 2.4 GHz & 5 GHz

2.4 GHz Network

WiFi Name: John_Doe_2.4GHz Hide

Encryption Mode: WPA2-PSK

WiFi Password:

5 GHz Network

WiFi Name: John_Doe_5GHz Hide

Encryption Mode: WPA2-PSK

WiFi Password:

Save

---End

After the configuration is completed, the corresponding WiFi network is invisible to wireless devices.

4.1.5 Connect to a hidden WiFi network

When a WiFi network is hidden, you need to enter the WiFi name manually and connect to it.

Assume that the **Unify 2.4 GHz & 5 GHz** function is enabled and the parameters are:

- WiFi name: Jone_Doe
- Encryption type: WPA2-PSK
- WiFi password: Tenda+Wireless245



If you do not remember the wireless parameters of the WiFi network, log in to the web UI of the router and navigate to **WiFi Settings > WiFi Name & Password** to find it.

Procedures for connecting to the WiFi network on your wireless device (Example: iPhone).

Step 1 Tap **Settings** on your phone, and find **WLAN**.

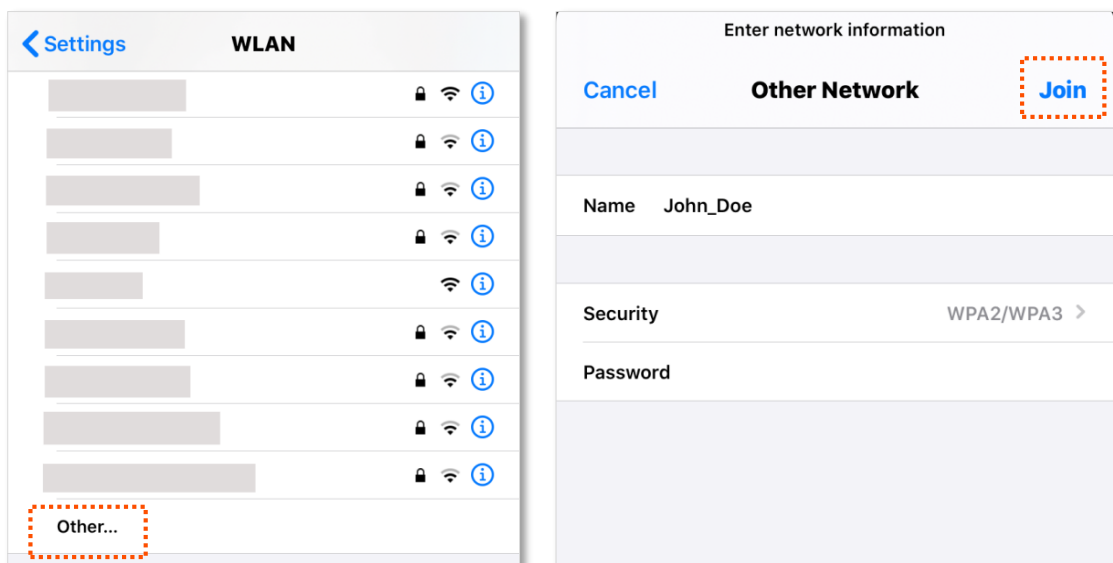
Step 2 Enable the **WLAN**.

Step 3 Scroll the WiFi list to the bottom, and tap **Other...**

Step 4 Enter the WiFi name and password, which are **John_Doe** and **Tenda+Wireless245** in this example.

Step 5 Set security to **WPA2/WPA3** (If WPA2/WPA3 is not available, choose WPA2).

Step 6 Tap **Join**.



---End

After the configuration is completed, you can connect to the hidden WiFi network to access the internet.

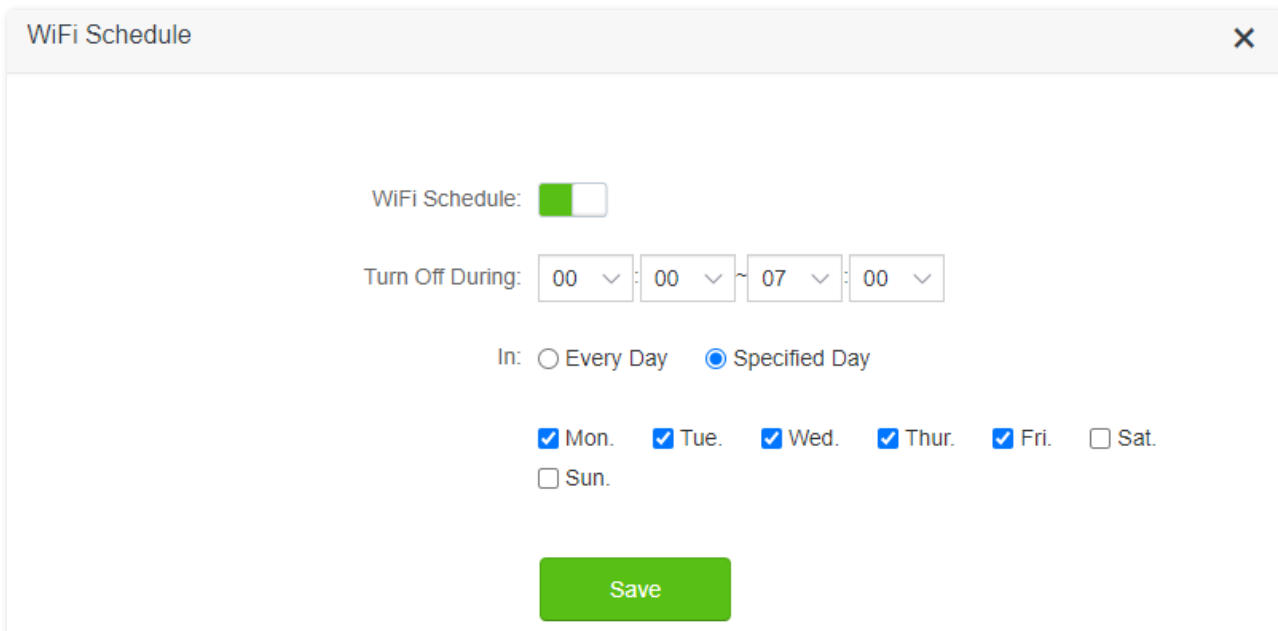
4.2 WiFi schedule

4.2.1 Overview

This WiFi Schedule function allows you to disable the WiFi networks of the router at the specified period.

To access the configuration page, [log in to the web UI](#), and navigate to **WiFi Settings > WiFi Schedule**.

This function is disabled by default. When it is enabled, the page is shown as below.



To make the WiFi schedule work properly, please ensure the system time is synchronized with the internet time. Refer to [Sync the system time with the internet time](#) for configuration.

Parameter description

Parameter	Description
WiFi Schedule	It is used to enable/disable the WiFi schedule function.
Turn Off During	It specifies the period when the WiFi networks are disabled.
In	It specifies the day(s) on which the WiFi networks are disabled during the specified period.

4.2.2 An example of configuring WiFi schedule

Assume that you want to disable the WiFi network from 22:00 to 7:00 every day.

Procedure:

Step 1 [Log in to the web UI.](#)

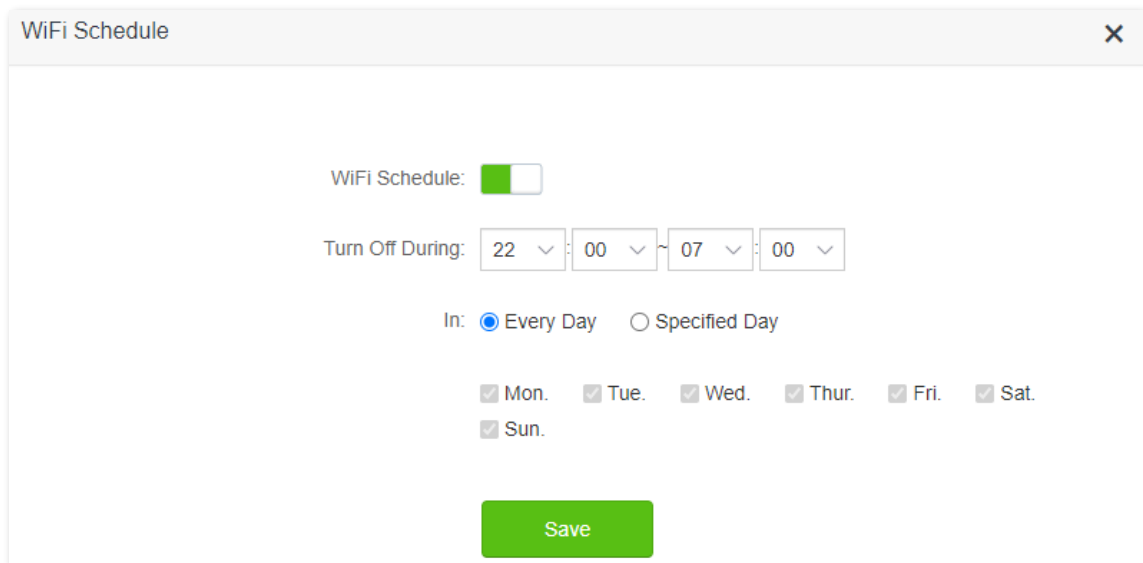
Step 2 Navigate to **WiFi Settings > WiFi Schedule.**

Step 3 Enable the **WiFi Schedule.**

Step 4 Set a period for the WiFi networks to be disabled, which is **22:00~07:00** in this example.

Step 5 Set the days when the functions work, which is **Every Day** in this example.

Step 6 Click **Save.**



The screenshot shows a window titled "WiFi Schedule" with a close button (X) in the top right corner. Inside the window, there is a toggle switch for "WiFi Schedule" which is currently turned on (green). Below this, there is a "Turn Off During:" section with four dropdown menus showing the time range "22 : 00 ~ 07 : 00". Underneath, there are two radio buttons: "Every Day" (selected) and "Specified Day". Below the radio buttons, there are seven checkboxes for the days of the week: Mon., Tue., Wed., Thur., Fri., Sat., and Sun., all of which are checked. At the bottom center of the window is a green "Save" button.

---End

After the configuration is completed. The WiFi networks will be disabled from 10 pm to 7 am every day.

4.3 Wireless repeating

4.3.1 Overview

The wireless repeating function enables you to extend the coverage of an existing network.

To access the configuration page, [log in to the web UI](#), and navigate to **WiFi Settings > Wireless Repeating**.

This function is disabled by default. When it is enabled, the page is shown as below.



- When the wireless repeating function is enabled, some other functions will be unavailable, such as WiFi schedule, guest network, WPS and IPTV.
- When wireless repeating is enabled, do not connect any device to the WAN port of the router.

Wireless Repeating

Wireless Repeating:

Repeating Mode: WISP Client+AP

Upstream WiFi Name: --Select--

Save

Parameter description

Parameter	Description
Wireless Repeating	It is used to enable/disable the wireless repeating function.
Repeating Mode	<p>Two repeating modes are available:</p> <ul style="list-style-type: none">• WISP: Generally used to bridge the hotspot of ISPs.• Client+AP: Able to bridge all kinds of WiFi networks. <p> TIP</p> <ul style="list-style-type: none">• When WISP mode is chosen and the LAN IP of the router is at the same network segment as that of the upstream device, the router will change the LAN IP address to a different network segment to avoid conflict.• After the router is set to WISP mode, you are required to access the internet by referring to the configuring procedures in Internet settings according to the connection type you choose.• After the router is set to Client+AP mode, the LAN IP address of this router may be changed.

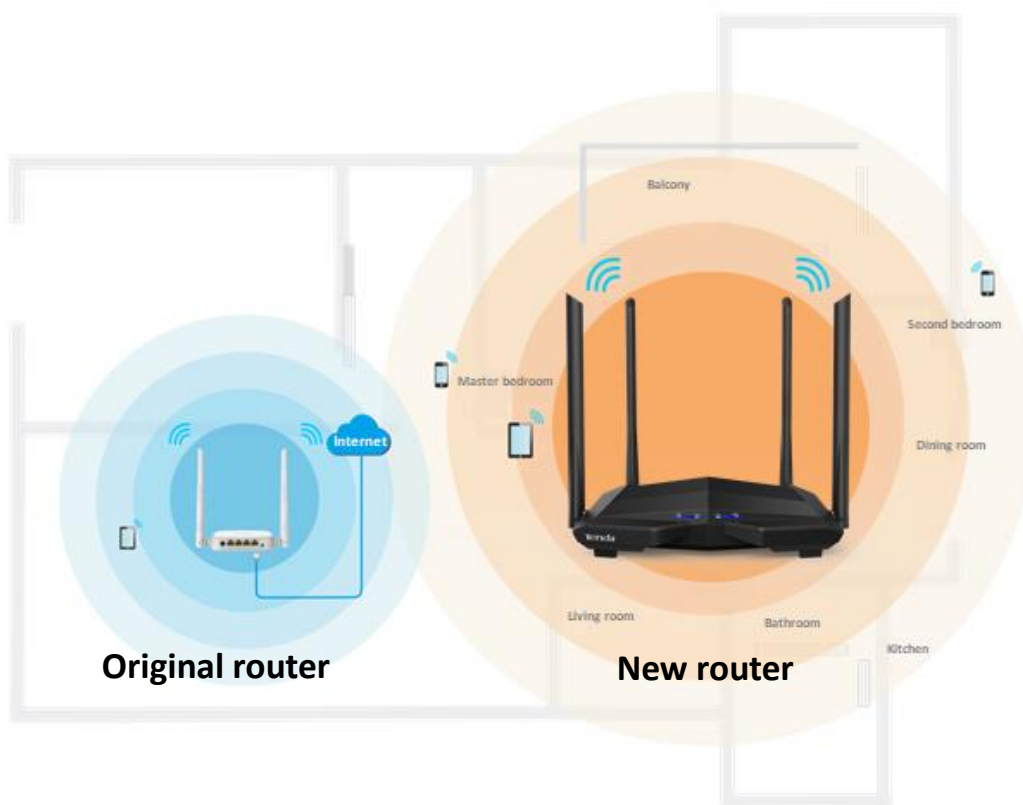
Parameter	Description
Upstream WiFi Name	It specifies the WiFi name that you want to bridge. If you choose Enter a WiFi name manually , you are required to enter the WiFi Name, Frequency Band and Encryption Mode, Encryption Algorithm and Upstream WiFi Password manually.
Upstream WiFi Password	It specifies the WiFi password of the WiFi name that you want to bridge.

4.3.2 Extend the existing WiFi network

When there is already a router with internet access in your home, you can refer to the configurations in this part to extend the WiFi network coverage.

Assume that your existing WiFi name and password are:

- WiFi name: Home_WiFi
- WiFi password: Tenda+245



Method 1: Set the new router to WISP mode

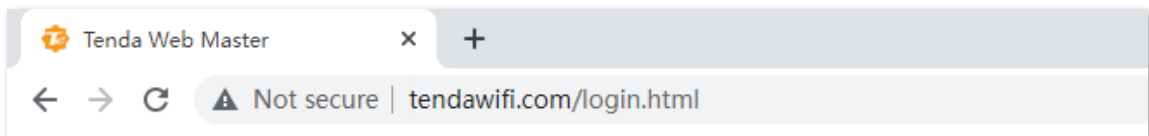
Procedure:



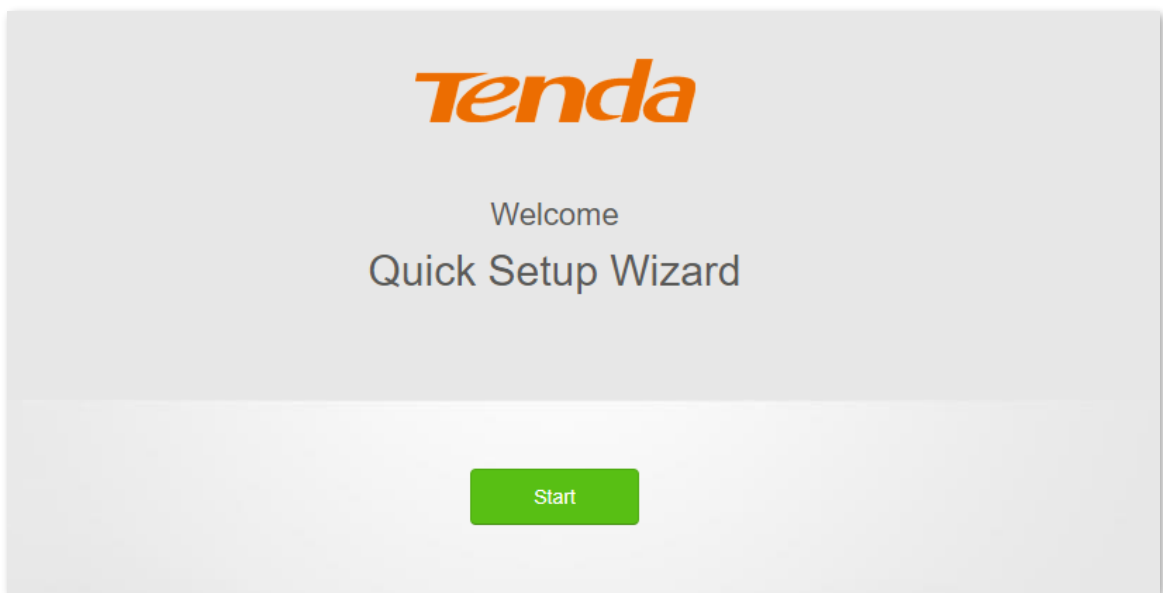
If you have finished the quick setup wizard before, launch a web browser and visit **tendawifi.com** or **192.168.0.1** on a connected device, then start from **Step 2**.

Step 1 [Log in to the web UI.](#)

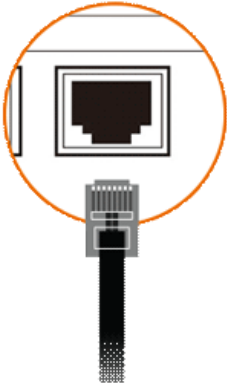
1. Place the new router near the existing router and power it on. Connect your wireless device to the WiFi network of your new router, or connect a computer to a LAN port of the router (1, 2, IPTV/3). Do not connect any device to the WAN port of the new router.
2. [Log in to the web UI.](#)



3. Click **Start**.



4. Click **Skip**.



Connect the Ethernet cable with internet connectivity to the Internet port and then proceed with the configuration.

[Skip](#)

5. Click **Skip**.

Please select your connection type.

As detected, your connection type may be:

Connection Type:

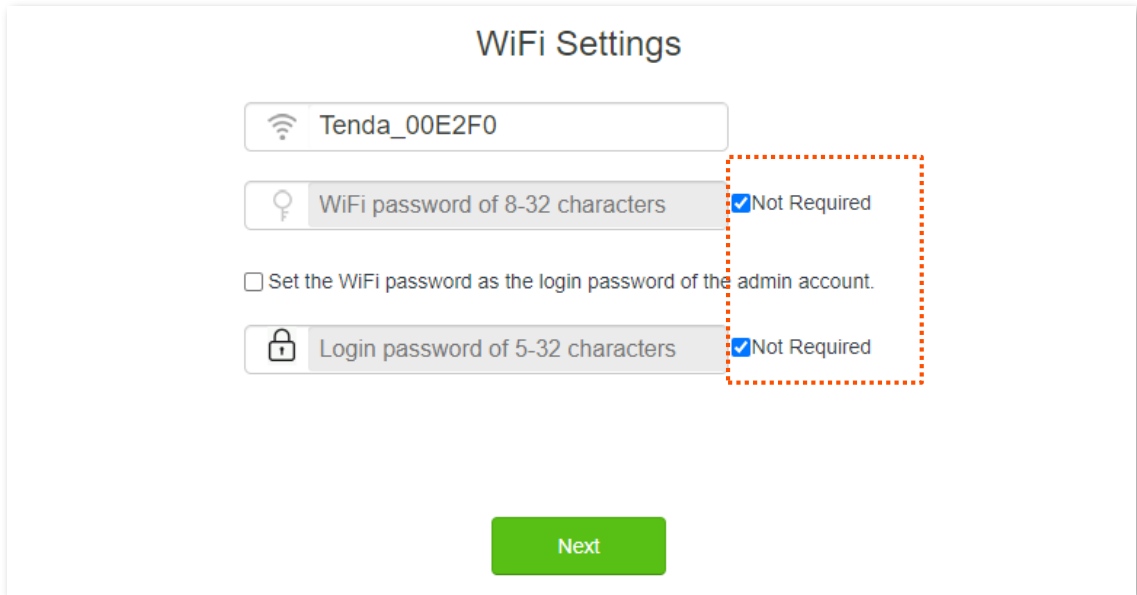
ISP User Name:

ISP Password:

[Import PPPoE user name and password from the original router. Not Applicable to Malaysia.](#)

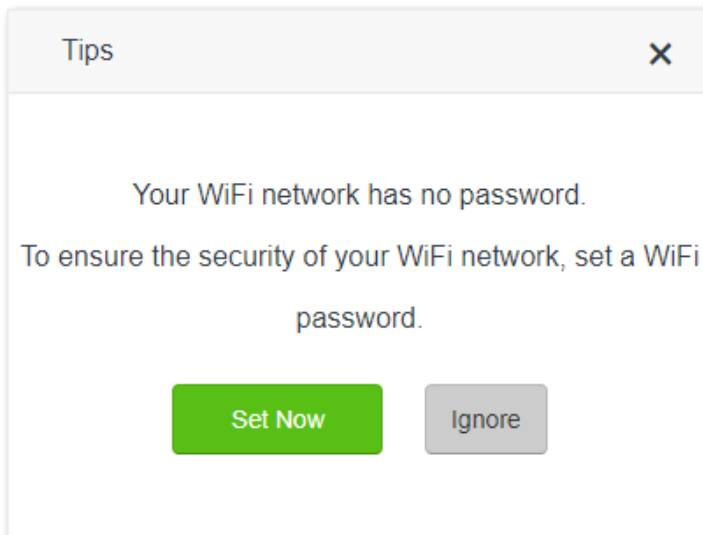
[Skip](#)

6. Do not set login and WiFi password now by ticking **Not Required**, and click **Next**.



The image shows a 'WiFi Settings' configuration window. At the top, the title 'WiFi Settings' is centered. Below it, there are four input fields and a checkbox. The first field is for the WiFi name, containing 'Tenda_00E2F0'. The second field is for the WiFi password, with a key icon and the text 'WiFi password of 8-32 characters'. To its right is a checkbox labeled 'Not Required' which is checked. The third field is for the login password, with a lock icon and the text 'Login password of 5-32 characters'. To its right is another checked 'Not Required' checkbox. A checkbox between the second and third fields is labeled 'Set the WiFi password as the login password of the admin account.' and is unchecked. A green 'Next' button is located at the bottom center. A red dashed box highlights the two 'Not Required' checkboxes.

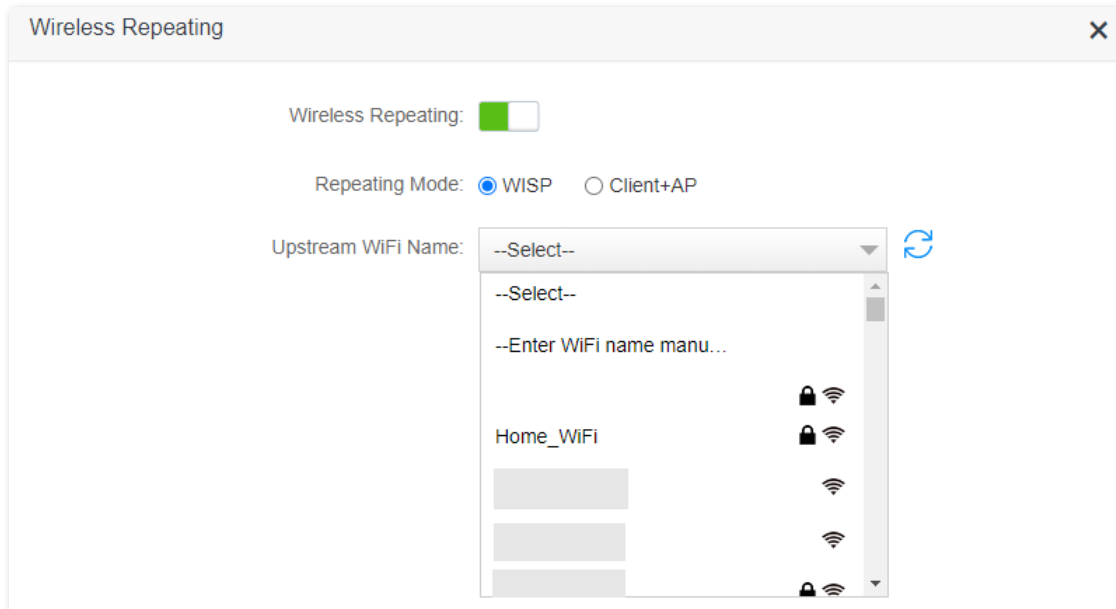
7. Click **Ignore**.



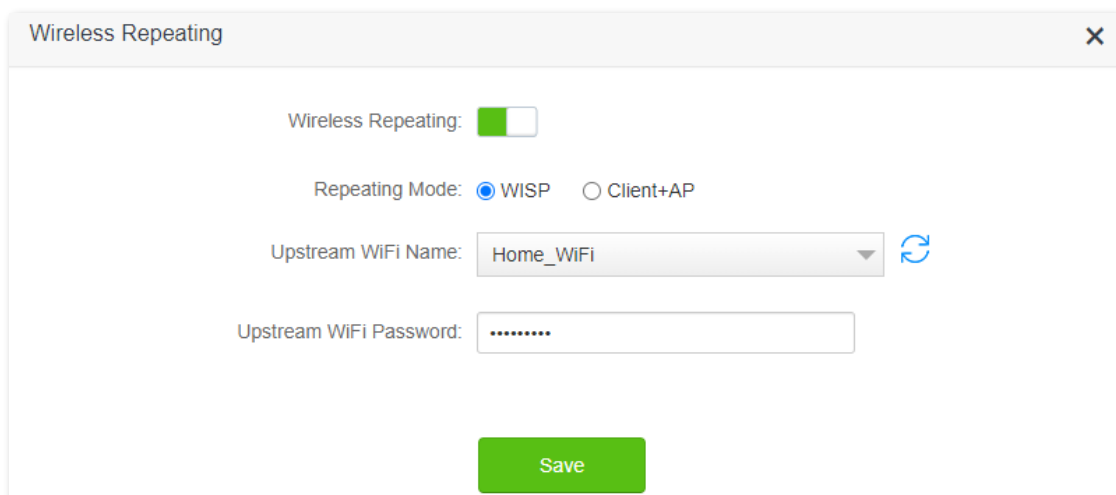
The image shows a 'Tips' dialog box with a close button (X) in the top right corner. The text inside reads: 'Your WiFi network has no password. To ensure the security of your WiFi network, set a WiFi password.' At the bottom, there are two buttons: a green 'Set Now' button and a grey 'Ignore' button.

Step 2 Set the new router to **WISP** mode.

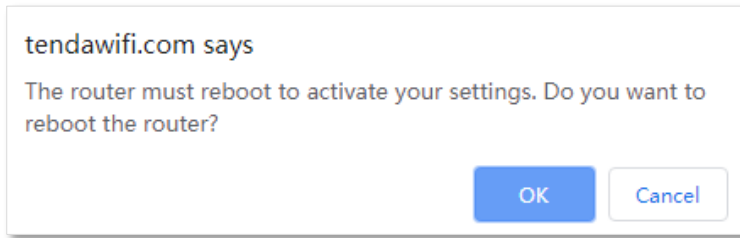
1. Navigate to **WiFi Settings > Wireless Repeating**.
2. Enable the **Wireless Repeating**.
3. Set **Repeating Mode** to **WISP**.
4. Click **Select** to select an existing WiFi network, which is **Home_WiFi** in this example.



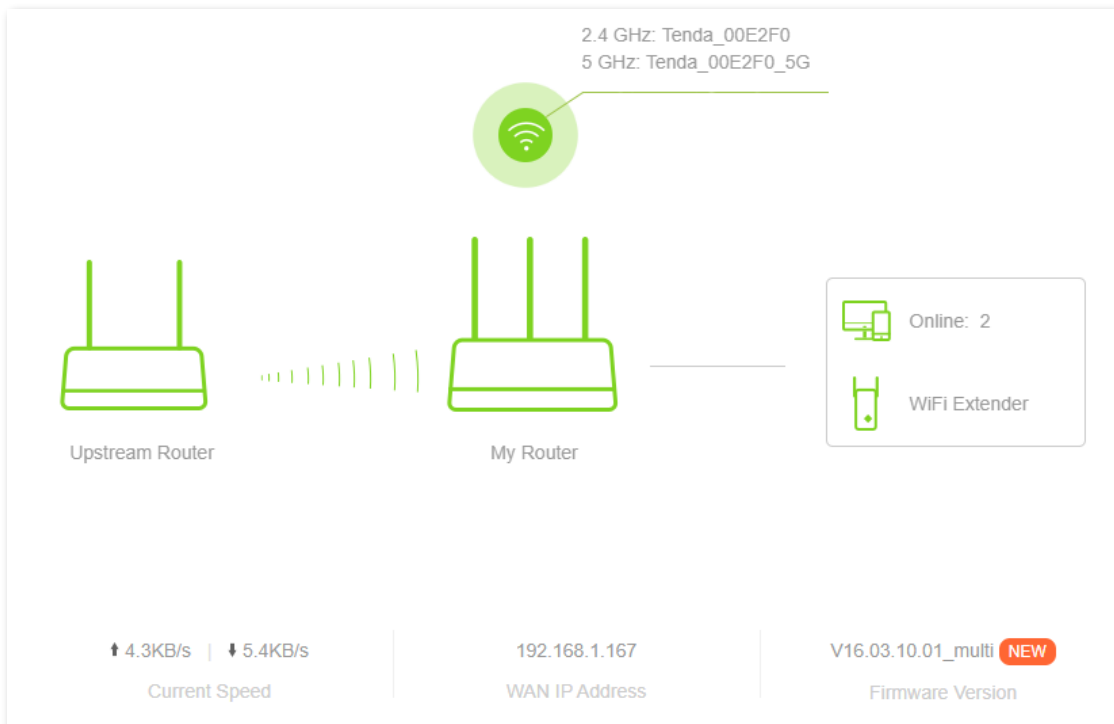
Step 3 Enter the **Upstream WiFi Password**, which is **Tenda+245** in this example, and then click **Save**.



Step 4 Click **OK**, and wait for the router to reboot.



Step 5 Log in to the web UI of the router again, and navigate to **Internet Status** to check if the wireless repeating succeeds.



TIP

If the connection between the **Upstream router** and **My router** failed, try the following solutions:

- Ensure that you have entered the correct WiFi password of the WiFi, and mind case sensitivity.
- Ensure that **My router** is within the wireless coverage of the **Upstream router**.

Step 6 Relocate the new router and power it on by referring to the following suggestions.

- Between the original router and the uncovered area, but within the coverage of the original router.
- Away from the microwave oven, electromagnetic oven, and refrigerator.
- Above the ground with few obstacles.



NOTE

Do not connect any device to the WAN port of the new router after setting the router to WISP mode.

---End

To access the internet, connect your computer to a LAN port of the new router (1, 2, IPTV/3), or connect your smartphone to the WiFi network of the new router.

You can find the WiFi name and password on the **WiFi Settings > WiFi Name & Password** page. If the network is not encrypted, you can also set a WiFi password on this page for security.

The screenshot shows the 'WiFi Name & Password' configuration window. At the top, there is a title bar with the text 'WiFi Name & Password' and a close button (X). Below the title bar, there are two main sections for configuring WiFi networks: '2.4 GHz Network' and '5 GHz Network'. Each section includes a 'Unify 2.4 GHz & 5 GHz' toggle (currently off), a network band toggle (currently on), a 'WiFi Name' text input field (with 'Tenda_00E2F0' for 2.4 GHz and 'Tenda_00E2F0_5G' for 5 GHz), a 'Hide' checkbox, an 'Encryption Mode' dropdown menu (set to 'WPA2-PSK'), and a 'WiFi Password' input field with masked characters. A green 'Save' button is located at the bottom center of the window.



TIP

If you cannot access the internet, try the following solutions:

- Ensure that the existing router is connected to the internet successfully.
- Ensure that your wireless devices are connected to the correct WiFi network of the new router.
- If the computer connected to the router for repeating cannot access the internet, ensure that the computer is configured to [obtain an IP address and DNS server automatically](#).

Method 2: Set the new router to Client+AP mode

Procedure:



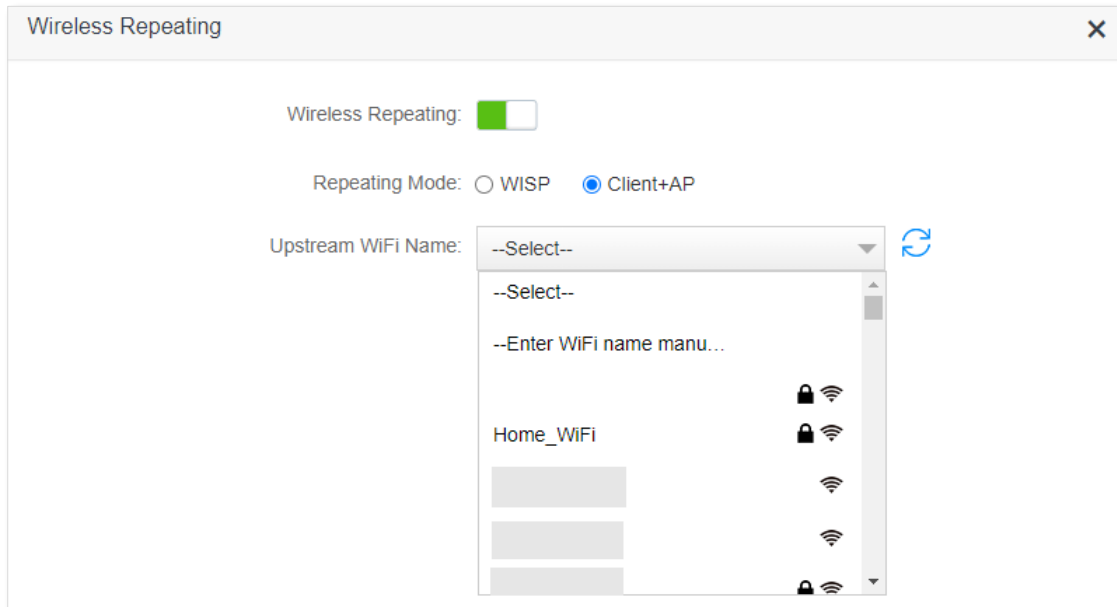
TIP

If you have finished the quick setup wizard before, launch a web browser and visit **tendawifi.com** or **192.168.0.1** on a connected device, and start from **Step 2**.

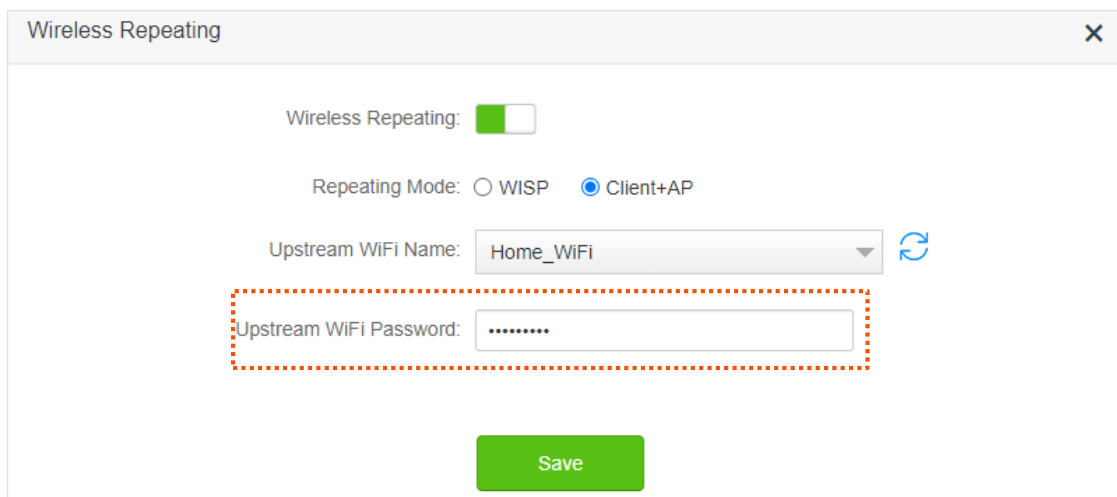
Step 1 [Log in to the web UI](#).

Step 2 Set the new router to **Client+AP** mode.

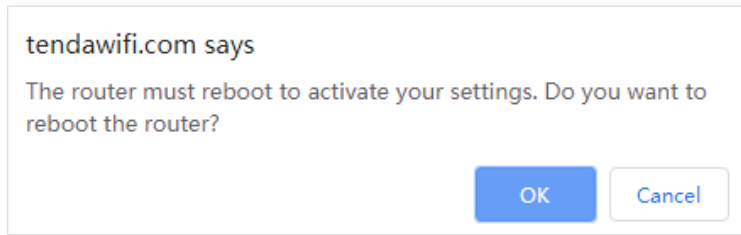
1. Navigate to **WiFi Settings > Wireless Repeating**.
2. Enable the **Wireless Repeating**.
3. Set **Repeating Mode** to **Client+AP**.
4. Click **Select** to select the existing WiFi network, which is **Home_WiFi** in this example.



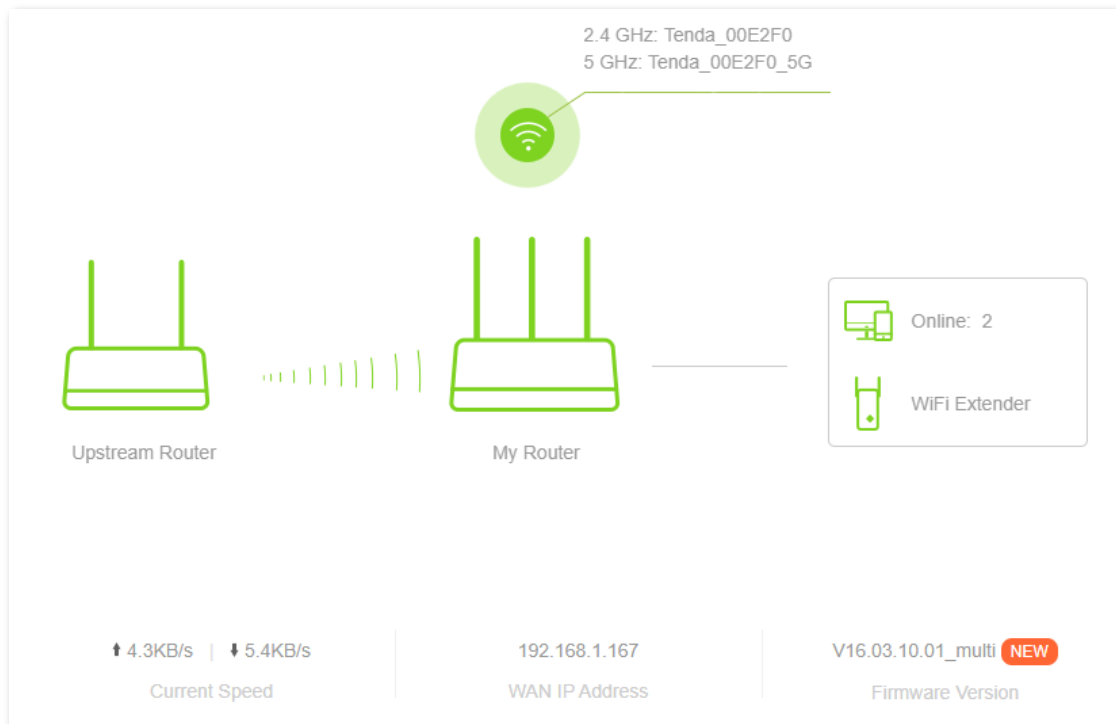
- Step 3** Enter the **Upstream WiFi Password**, which is **Tenda+245** in this example, and then click **Save**.



Step 4 Click **OK**, and wait for the router to reboot.



Step 5 Log in to the web UI of the router again, and navigate to **Internet Status** to check if the wireless repeating succeeds.



If the connection between the **Upstream router** and **My router** failed, try the following solutions:

- Ensure that you have entered the correct WiFi password of the WiFi, and mind case sensitivity.
- Ensure that **My router** is within the wireless coverage of the **Upstream router**.

Step 6 Relocate the new router and power it on by referring to the following suggestions to solve.

- Locate the new router between the original router and the uncovered area but within the coverage of the original router.
- Away from the microwave oven, electromagnetic oven, and refrigerator.
- Above the ground with few obstacles.



After the new router is set to **Client+AP** mode:

- Do not connect any device to the WAN port of the new router.
- The LAN IP address of the router will change. Please log in to the web UI of the router by visiting **tendawifi.com**. If there is another network device with the same login domain name (tendawifi.com) as the router, log in to the upstream router and find the IP address obtained by the new router in the client list. Then you can log in to the web UI of the router by visiting the IP address.

To access the internet, connect your computer to a LAN port of the new router (1, 2, IPTV/3), or connect your smartphone to the WiFi network of the new router.

You can find the WiFi name and password on the **WiFi Settings > WiFi Name & Password** page. If the network is not encrypted, you can also set a WiFi password on this page for security.

WiFi Name & Password

Unify 2.4 GHz & 5 GHz

2.4 GHz Network

WiFi Name: Hide

Encryption Mode:

WiFi Password:

5 GHz Network

WiFi Name: Hide

Encryption Mode:

WiFi Password:

Save



If you cannot access the internet, try the following solutions:

- Ensure that the existing router is connected to the internet successfully.
- Ensure that your wireless devices are connected to the correct WiFi network of the new router.
- If the computer connected to the router cannot access the internet, ensure that the computer is configured to [obtain an IP address and DNS server automatically](#).

4.4 Channel & bandwidth

To access the configuration page, log in to the web UI of the router, and navigate to **WiFi Settings > Channel & Bandwidth**.

In this module, you are allowed to change network mode, WiFi channel, and WiFi bandwidth of 2.4 GHz and 5 GHz WiFi networks.



In order not to influence the wireless performance, it is recommended to maintain the default settings on this page without professional instructions.

Channel & Bandwidth

2.4 GHz Network

Network Mode:

WiFi Channel: Current Channel: 1

WiFi Bandwidth: Current: 20MHz

5 GHz Network

Network Mode:

WiFi Channel: Current Channel: 161

WiFi Bandwidth: Current: 80MHz

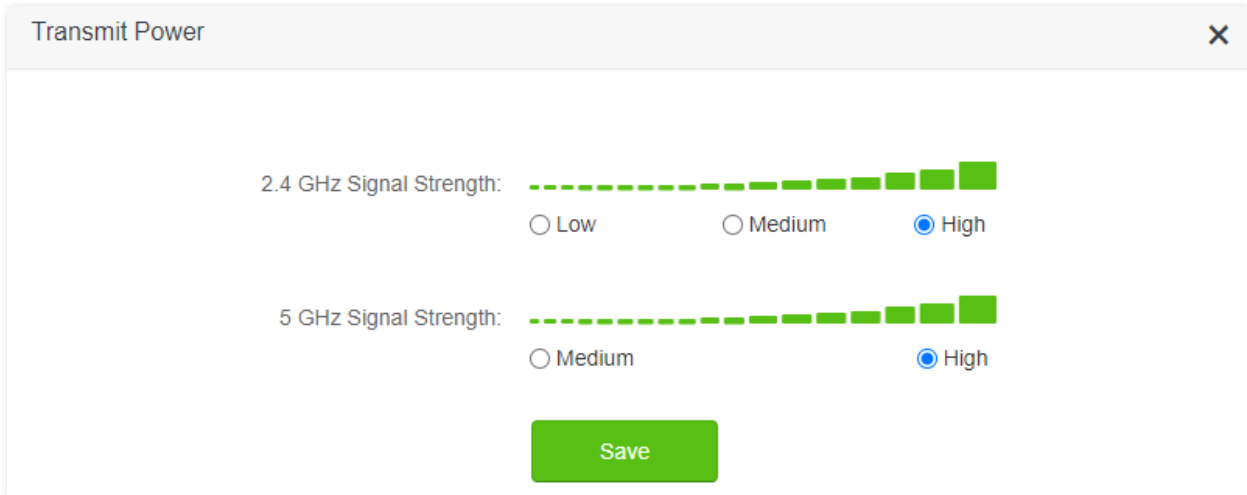
Parameter description

Parameter	Description
	<p>It specifies various protocols adopted for wireless transmission.</p> <p>2.4 GHz WiFi network supports 11n, 11b/g mixed and 11b/g/n mixed modes.</p> <ul style="list-style-type: none">• 11n: It indicates that devices compliant with IEEE 802.11n protocol can connect to the 2.4 GHz WiFi network of the router, enjoying a maximum transmission rate of 11 Mbps.• 11b/g mixed: It indicates that devices compliant with IEEE 802.11b or IEEE 802.11g protocol can connect to the 2.4 GHz WiFi network of the router, enjoying a maximum transmission rate of 54 Mbps.
Network Mode	<ul style="list-style-type: none">• 11b/g/n mixed: It indicates that all devices can connect to the router if they are compliant with IEEE 802.11b or IEEE 802.11g protocol, or work at 2.4 GHz with IEEE 802.11n protocol, therefore enjoying a maximum transmission rate of 300 Mbps. <p>5 GHz WiFi network supports 11ac, 11a/n/ac mixed modes.</p> <ul style="list-style-type: none">• 11ac: It indicates that devices compliant with IEEE 802.11ac protocol can connect to the router, enjoying a maximum transmission rate of 866 Mbps.• 11a/n/ac mixed: It indicates that all devices that are compliant with IEEE 802.11a or IEEE 802.11ac protocol, or work at 5 GHz with IEEE 802.11n protocol can connect to the router, enjoying a maximum transmission rate of 866 Mbps.
WiFi Channel	<p>It specifies the channel in which the WiFi network works.</p> <p>By default, the wireless channel is Auto, which indicates that the router selects a channel for the WiFi network automatically. You are recommended to choose a channel with less interference for better wireless transmission efficiency. You can use a third-party tool to scan the WiFi signals nearby to understand the channel usage situations.</p>
WiFi Bandwidth	<p>It specifies the bandwidth of the wireless channel of a WiFi network. Please change the default settings only when necessary.</p> <ul style="list-style-type: none">• 20: It indicates that the channel bandwidth used by the router is 20 MHz.• 40: It indicates that the channel bandwidth used by the router is 40 MHz.• 20/40: It specifies that a router can switch its channel bandwidth between 20 MHz and 40 MHz based on the ambient environment. This option is available only at 2.4 GHz.• 80: It indicates that the channel bandwidth used by the router is 80 MHz. This option is available only at 5 GHz.• 20/40/80: It specifies that a router can switch its channel bandwidth between 20 MHz, 40 MHz, and 80 MHz based on the ambient environment. This option is available only at 5 GHz.

4.5 Transmit power

To access the configuration page, [log in to the web UI](#), and navigate to **WiFi Settings > Transmit Power**.

In this module, you can adjust the wall-penetration capability and wireless coverage of the router by setting the transmit power.




The screenshot shows a configuration window titled "Transmit Power" with a close button (X) in the top right corner. It contains two sections for signal strength settings:

- 2.4 GHz Signal Strength:** A progress bar with three segments. Below it are three radio buttons: "Low" (unselected), "Medium" (unselected), and "High" (selected).
- 5 GHz Signal Strength:** A progress bar with three segments. Below it are two radio buttons: "Medium" (unselected) and "High" (selected).

A green "Save" button is located at the bottom center of the window.

Parameter description

Parameter	Description
Signal Strength	<p>It specifies the mode of signal strength. The default mode is High.</p> <ul style="list-style-type: none">• High: It is typically used to meet wireless coverage requirements in large or multi-barrier environments.• Medium: It is typically used to meet wireless coverage requirements in medium-area or less-obstacle environments.• Low: It is typically used to meet wireless coverage requirements in a small area or barrier-free environments. <p> TIP</p> <p>It is recommended to choose the Low mode if the network experience is satisfactory enough under this mode.</p>

4.6 WPS

The WPS function enables wireless devices, such as smartphones, to connect to the WiFi networks of the router quickly and easily.

To access the configuration page, [log in to the web UI](#), and navigate to **WiFi Settings > WPS**.



This function is only applicable to WPS-enabled wireless devices.

4.6.1 Connect devices to the WiFi network using the WPS button

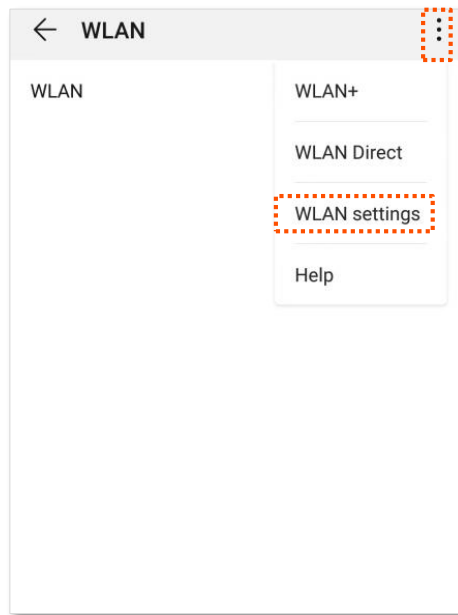
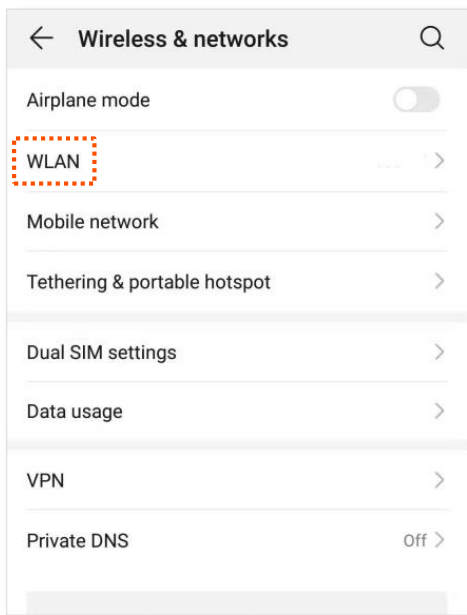
Procedure:

Step 1 Find the **WPS/RST** button on the rear panel of the router, and hold it down for 1 to 3 seconds. The WiFi indicator blinks slow.

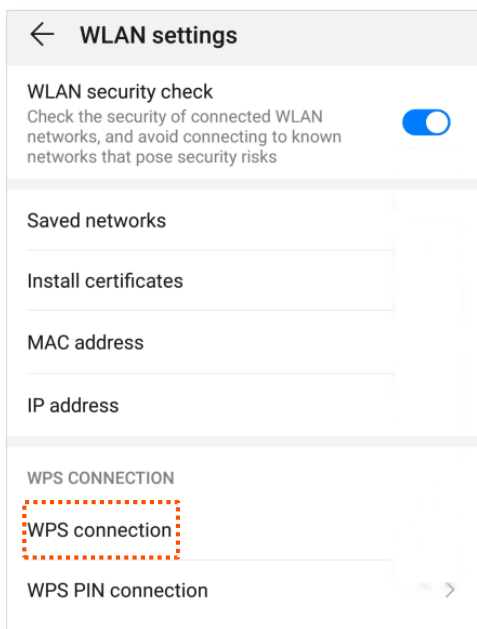


Step 2 Configure the WPS function on your wireless devices within 2 minutes. Configurations on various devices may differ (Example: HUAWEI P10).

1. Find **WLAN** settings on the phone.
2. Tap **:**, and select **WLAN settings**.

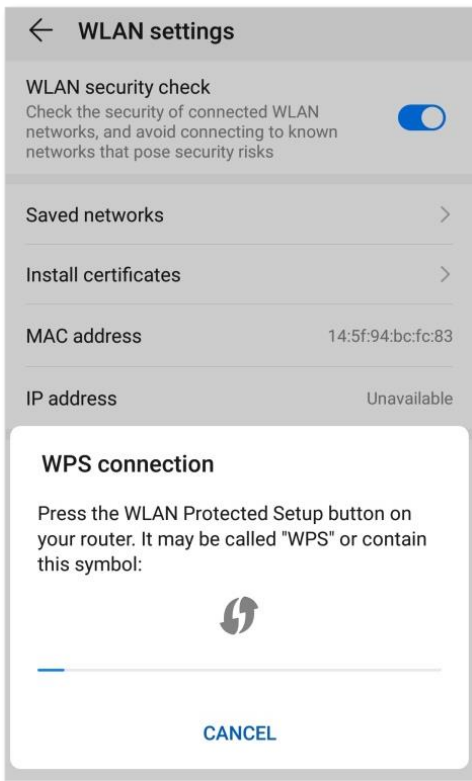


3. Select WPS connection.



---End

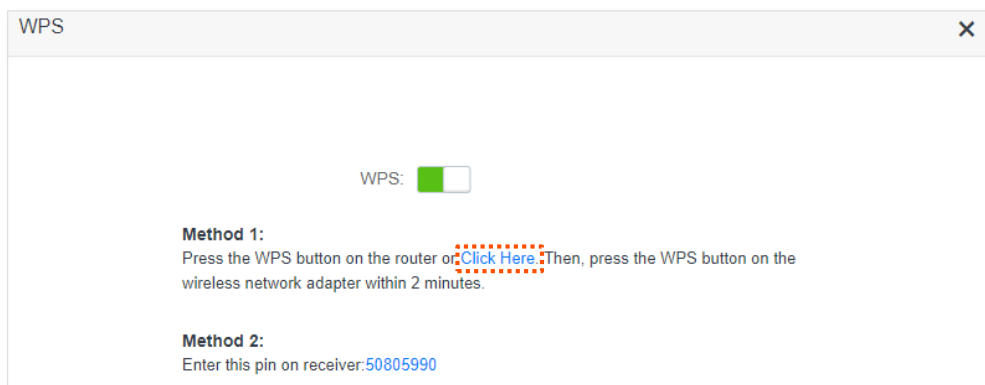
Wait a moment until the WPS negotiation is completed, and the phone is connected to the WiFi network.



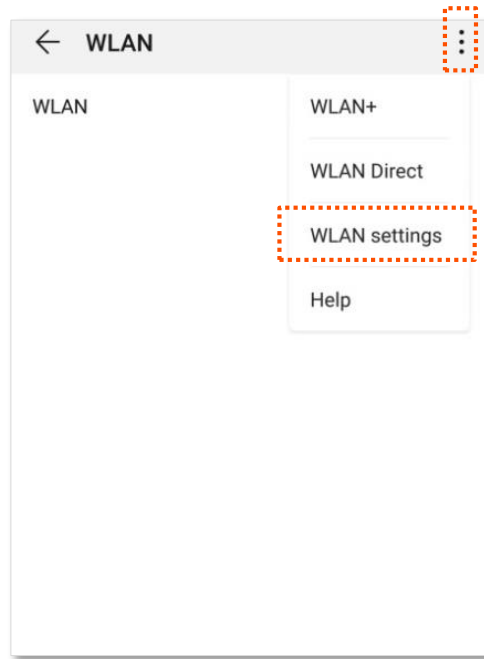
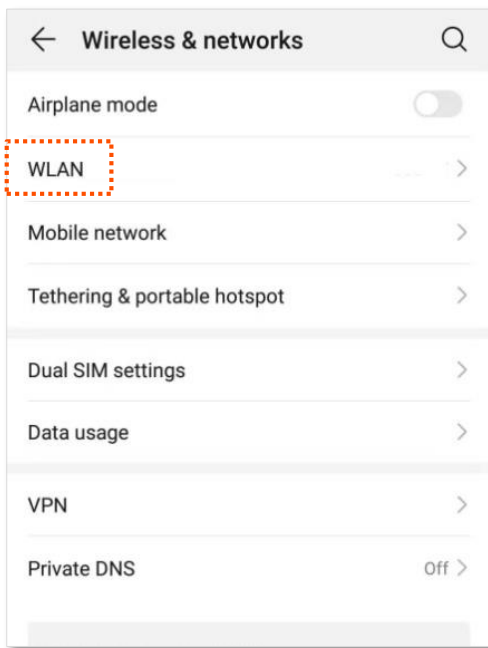
4.6.2 Connect devices to the WiFi network through the web UI of the router

Procedure:

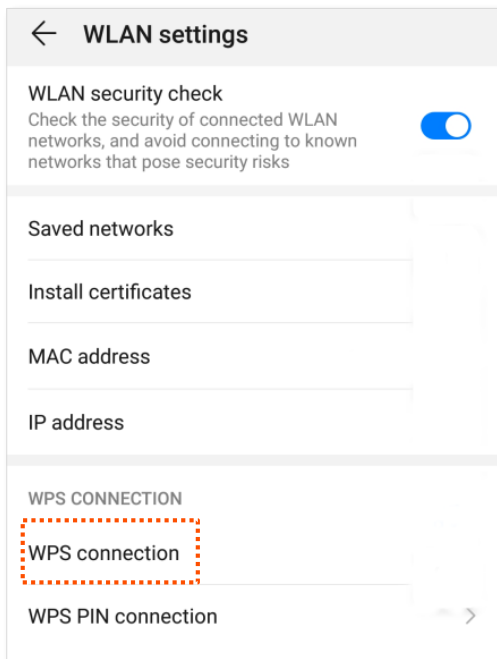
- Step 1** [Log in to the web UI](#).
- Step 2** Navigate to **WiFi Settings > WPS**.
- Step 3** Click [Click Here](#) under **Method 1**.



- Step 4** Configure the WPS function on your wireless devices within 2 minutes. Configurations on various devices may differ (Example: HUAWEI P10).
 1. Find **WLAN** settings on the phone.
 2. Tap **⋮**, and select **WLAN settings**.

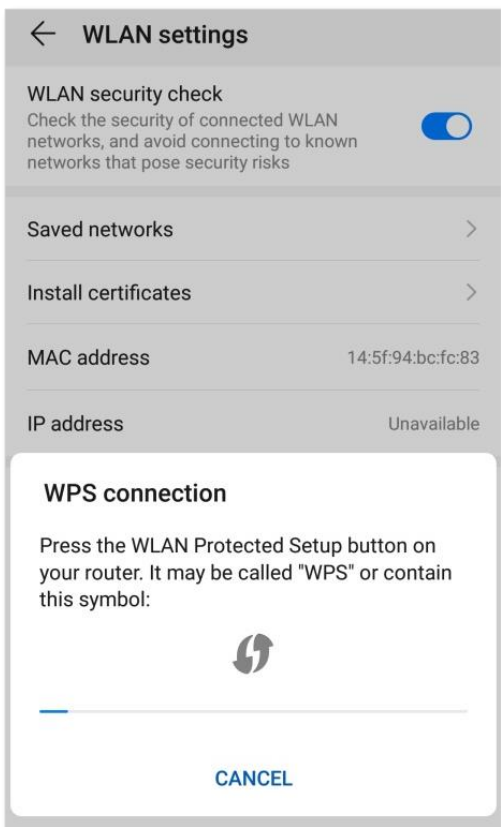


3. Select WPS connection.



---End

Wait a moment until the WPS negotiation is completed, and the phone is connected to the WiFi network.



4.6.3 Connect devices to the WiFi network using the PIN code of the router

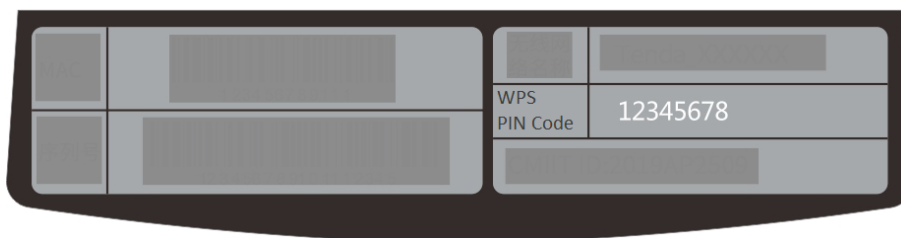


The router only supports WPS connection by entering the PIN-code on wireless devices, which is usually used on WiFi network adapters. Please refer to the user guide of the WiFi network adapter for configuration details.

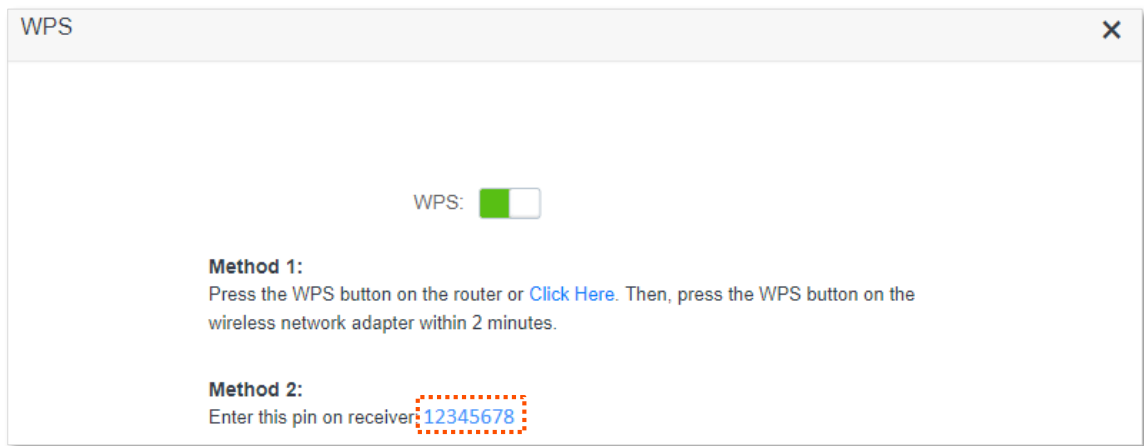
Procedure:

Step 1 Find the PIN code of the router. (The following PIN code is only an example. The actual product prevails.)

You can find the PIN-code on the label on the bottom panel of the router.



You can also [log in to the web UI](#), and navigate to **WiFi Settings > WPS**. The PIN code is shown under **Method 2**.



Step 2 Enter the PIN-code on the wireless device that supports WPS connection using the PIN code within 2 minutes.

---End

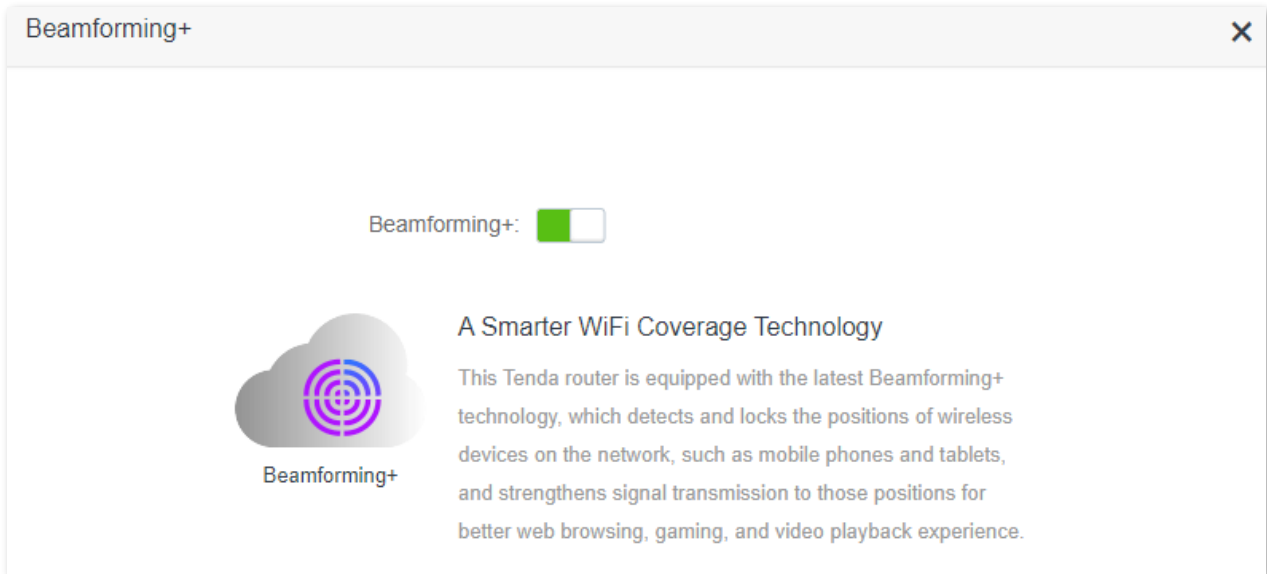
Wait a moment until the WPS negotiation is completed, and the wireless device is connected to the WiFi network.

4.7 Beamforming+

Beamforming+ is a radio wave technology written into the IEEE 802.11ac standard. Traditionally, the router broadcasts the data in all directions when broadcasting a WiFi signal. With beamforming, the router transmits radio signals in the direction of the client, thus creating stronger, faster and more reliable wireless communication.

To access the configuration page, [log in to the web UI](#), and navigate to **WiFi Settings > Beamforming+**.

This function is enabled by default.



The following figure shows the wireless transmission when Beamforming+ is enabled.



The following figure shows the wireless transmission when Beamforming+ is disabled.



4.8 AP mode

When you have a smart home gateway and it has been successfully connected to the internet, which only provides wired internet access, you can set the router to work in AP mode to provide wireless coverage.



When the router is set to AP mode:

- Every physical port can be used as a LAN port.
- The LAN IP address of the router will be changed. Please log in to the web UI of the router by visiting **tendawifi.com**.
- Functions, such as bandwidth control and the virtual server will be unavailable. Refer to the web UI for available functions.

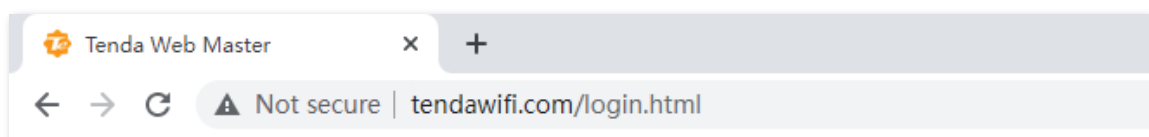
Procedure:

Step 1 Power on the router. Connect a computer to a LAN port (1, 2 and IPTV/3) of the router, or connect your smartphone to the WiFi network of the router.



Step 2 [Log in to the web UI.](#)

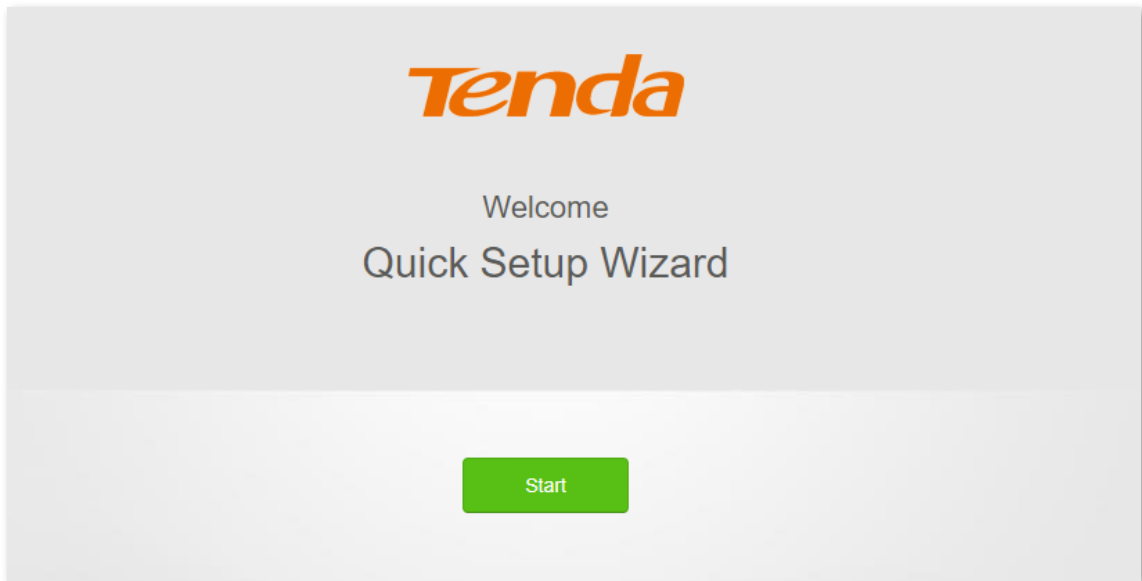
1. [Log in to the web UI.](#)



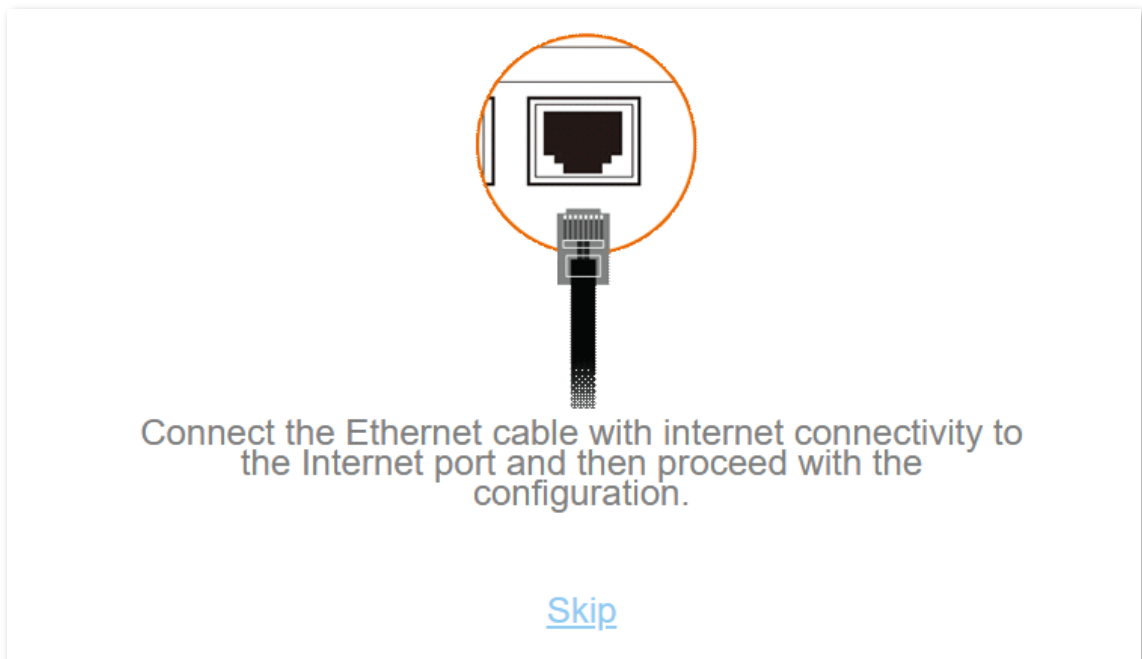


If you have finished the quick setup wizard before, launch a web browser and visit **tendawifi.com** or **192.168.0.1** on a connected device, then start from [Step 3](#).

2. Click **Start**.



3. Click **Skip**.



4. Click **Skip**.

Please select your connection type.

As detected, your connection type may be:

Connection Type:

ISP User Name:

ISP Password:

Import PPPoE user name and password from the original router. Not Applicable to Malaysia.

[Skip](#)

5. Do not set login and WiFi password now by ticking **No Password**, and click **Next**.

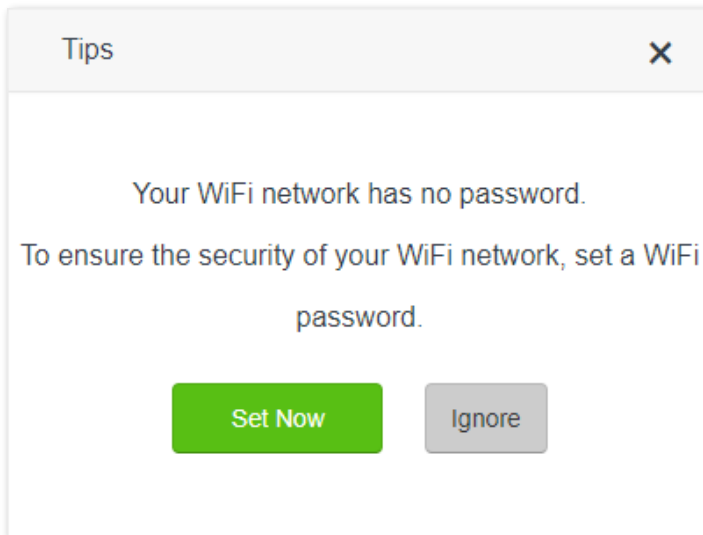
WiFi Settings

Not Required

Set the WiFi password as the login password of the admin account.

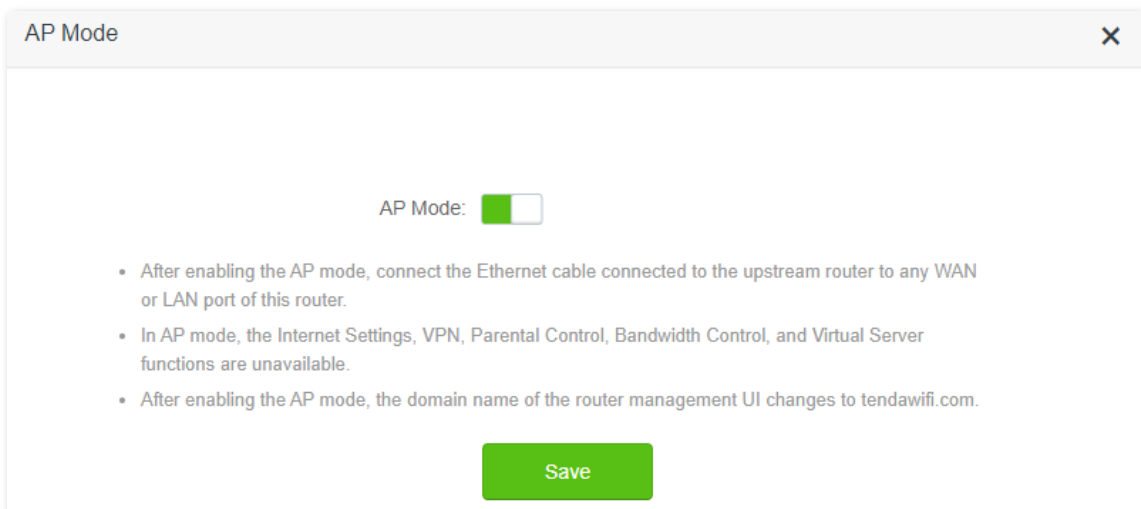
Not Required

6. Click **Ignore**.

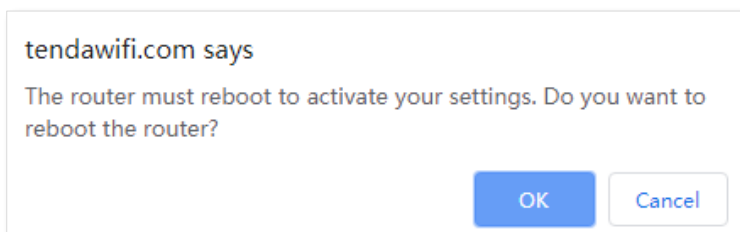


Step 3 Set the router to **AP Mode**.

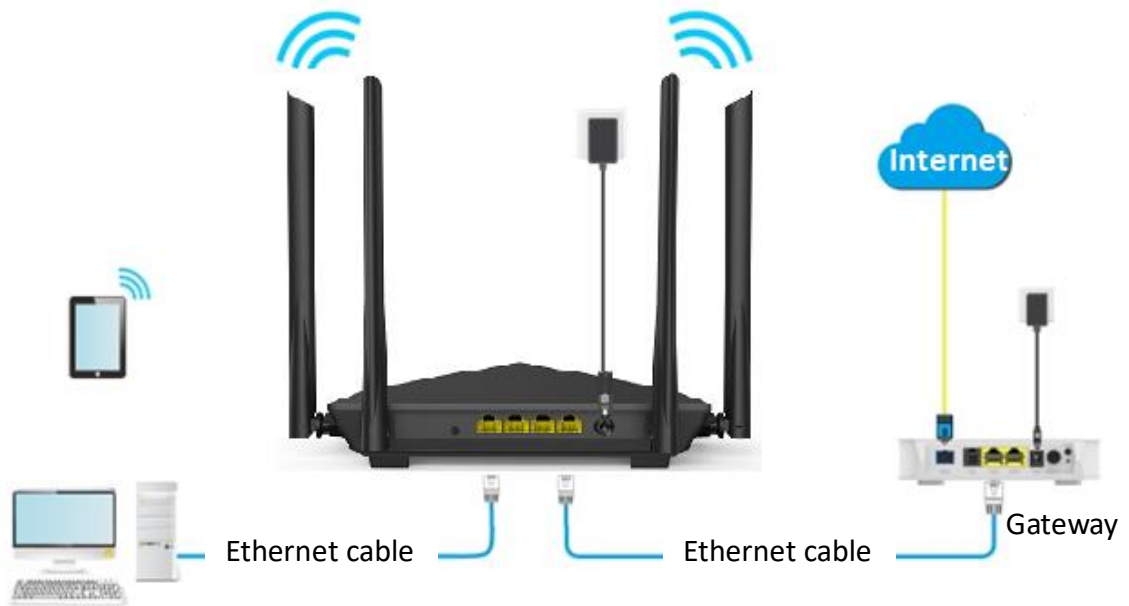
1. Navigate to **WiFi Settings > AP Mode**.
2. Enable the **AP Mode**.
3. Click **Save**.



4. Click **OK**, and wait for the router to reboot.



Step 4 Connect the upstream device, such as a gateway, to any port of the router.



---End

Log in to the web UI of the router again, and navigate to **Internet Status** to check if the AP mode is configured successfully.

The screenshot shows the 'Internet Status' page in a web UI. At the top, there is a globe icon and the text 'Internet Status', and a language dropdown set to 'English'. Below this, the wireless network information is displayed: '2.4 GHz: Tenda_00E2F0' and '5 GHz: Tenda_00E2F0_5G'. A green Wi-Fi icon is shown with a line pointing to this information. The network topology is visualized with two router icons: 'Upstream Router' on the left and 'Router' on the right, connected by a horizontal line. To the right of the 'Router' icon, a box shows 'Online: 3' with a laptop icon and 'WiFi Extender' with a mobile phone icon. At the bottom, three status boxes are shown: 'Current Speed' with '↑ 0.1KB/s | ↓ 0.0KB/s', 'WAN IP Address' with '172.16.200.16', and 'Firmware Version' with 'V16.03.10.01_multi' and a red 'NEW' badge.



If there is another network device with the same login domain name (**tendawifi.com**) with the router, log in to the upstream router and find the IP address obtained by the new router in the client list. Then you can log in to the web UI of the router by visiting the IP address.

To access the internet, connect your computer to a physical port, or connect your smartphone to the WiFi network.

You can find the WiFi name and password on the **WiFi Settings > WiFi Name & Password** page. If the network is not encrypted, you can also set a WiFi password on this page for security.

WiFi Name & Password

Unify 2.4 GHz & 5 GHz

2.4 GHz Network

WiFi Name: Hide

Encryption Mode: ▼

WiFi Password:

5 GHz Network

WiFi Name: Hide

Encryption Mode: ▼

WiFi Password:



If you cannot access the internet, try the following solutions:

- Ensure that the existing router is connected to the internet successfully.
- Ensure that your wireless devices are connected to the correct WiFi network of the new router.
- If the computer connected to the router cannot access the internet, ensure that the computer is configured to [obtain an IP address and DNS server automatically](#).

5

Guest network

5.1 Overview

In this module, you can enable/disable the guest network function and change the WiFi name and password of the guest network.

A guest network can be set up with a shared bandwidth limit for visitors to access the internet, and isolated from the main network. It protects the security of the main network and ensures the bandwidth of your main network.

To access the configuration page, [log in to the web UI](#), and navigate to the **Guest Network**.

This function is disabled by default. When it is enabled, the page is shown as below.

Guest Network English ▾

Guest Network:

2.4 GHz WiFi Name:



5 GHz WiFi Name:

Guest Network Password:

Validity: ▾

Shared Bandwidth for Guests: ▾ Mbps

Parameter description

Parameter	Description
Guest Network	It is used to enable or disable the guest network function.
2.4 GHz WiFi Name	It specifies the WiFi name of the router's guest network. By default, Tenda_VIP is for the 2.4 GHz WiFi network and Tenda_VIP_5G for the 5 GHz WiFi network.
5 GHz WiFi Name	 TIP You can change the SSIDs (WiFi names) as required. To distinguish the guest network from the main network, you are recommended to set different WiFi network names.
Guest Network Password	It specifies the password for the router's two guest networks.  TIP It is recommended to use the combination of numbers, uppercase letters, lowercase letters and special symbols in the password to enhance the security of the WiFi network.
Validity	It specifies the validity of the guest networks. The guest network function will be disabled automatically out of the validity period.
Shared Bandwidth for Guests	It allows you to specify the maximum upload and download speed for all devices connected to the guest networks. By default, the bandwidth is not limited.

5.2 An example of configuring the guest network

Scenario: A group of friends is going to visit your home and stay for about 8 hours.

Goal: Prevent the use of the WiFi network by guests from affecting the network speed of your computer for work purposes.

Solution: You can configure the guest network function and let your guests use the guest networks.

Assume that the parameters you are going to set for the guest WiFi network:

- WiFi names for 2.4 GHz and 5 GHz networks: John_Doe and John_Doe_5G.
- WiFi password for 2.4 GHz and 5 GHz networks: Tenda+245.
- The shared bandwidth for guests: 2 Mbps.

Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Click **Guest Network**, and enable the **Guest Network**.

Step 3 Set the **2.4 GHz WiFi Name**, which is **John_Doe** in this example.

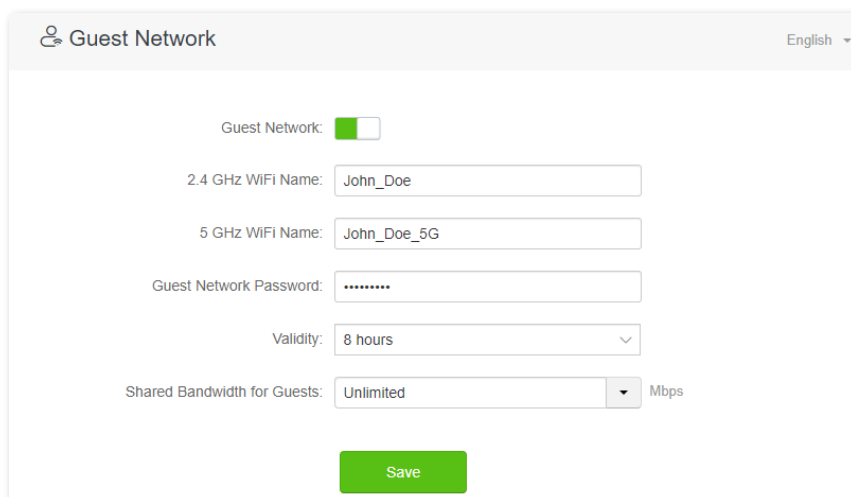
Step 4 Set the **5 GHz WiFi Name**, which is **John_Doe_5G** in this example.

Step 5 Set **Guest Network Password**, which is **Tenda+245** in this example.

Step 6 Select a validity time from the **Validity** drop-down box, which is **8 hours** in this example.

Step 7 Set the bandwidth in the **Shared Bandwidth for Guests** drop-down box, which is **2** in this example.

Step 8 Click **Save**.



The screenshot shows the 'Guest Network' configuration page. At the top, there is a header with a home icon, the text 'Guest Network', and a language dropdown set to 'English'. Below the header, there is a toggle switch for 'Guest Network' which is turned on. The configuration fields are as follows: '2.4 GHz WiFi Name' is 'John_Doe', '5 GHz WiFi Name' is 'John_Doe_5G', 'Guest Network Password' is masked with dots, 'Validity' is set to '8 hours', and 'Shared Bandwidth for Guests' is set to 'Unlimited' with a unit of 'Mbps'. A green 'Save' button is located at the bottom center of the form.

---End

During the 8 hours after the configuration, guests can connect their wireless devices, such as smartphone, to **John_Doe** or **John_Doe_5G** to access the internet and enjoy the shared bandwidth of 2 Mbps.

6

Parental control

6.1 Overview

To access the configuration page, [log in to the web UI](#), and navigate to the **Parental Control** page. On the parental control page, you can view the information of online devices and configure their internet access options.

Device Name	MAC Address	Uptime	Operation
MININT-DBPIBV1 192.168.0.148	6c:4b:90:3e:ad:af	11 min 34 s	
MININT-GV6I0BB 192.168.0.194	6c:4b:90:41:e2:ad	12 min 46 s	

Parameter description

Parameter	Description
Device Name	It specifies the name of the online device.
MAC Address	It specifies the MAC address of the online device.
Uptime	It specifies the online duration of the device.
Operation	Click to configure the parental control rule for the device. After you have configured the parental control rule for the device, there should be a or button, which is used to enable or disable the configured rule.
+New	Click <input type="button" value="+New"/> to add parental control rules for devices that are not connected to the router at the time.

6.2 Configure the parental control rule

Click  or **+New** to edit or add a parental control rule. **+New** is used for illustration here.

Parameter description

Parameter	Description
Device Name	It specifies the name of the device that the parental control rule applies.
MAC Address	It specifies the MAC address of the device that the parental control rule applies.
Internet Accessible At	It specifies the period during which the device can access the internet.
In	It specifies the days when the rule takes effect.
Website Access Limit	It is used to enable or disable the website access limit function.
Access Control Mode	<p>When the website access limit function is enabled, there are two access control modes available.</p> <ul style="list-style-type: none"> • Blacklist: The device is blocked from accessing the websites specified in the rule during the specified period, but can access other websites. The device cannot access the internet out of the specified period. • Whitelist: The device is allowed to access the websites specified in the rule during the specified period, but cannot access other websites. The device cannot access any website out of the specified period.
Blocked Websites	It specifies the websites that the device is blocked from accessing or allowed to access during the specified period.
Unblocked Websites	

6.3 An example of adding parental control rules

Scenario: The final exam for your daughter is approaching and you want to configure her internet access through the router.

Goal: Websites, such as Facebook, Twitter, Youtube and Instagram, are inaccessible from 8:00 to 22:00 on weekends using the computer in her room, and no internet access is available from 22:00 to 8:00.

Solution: You can configure the parental control function to reach the goal.

Procedure:

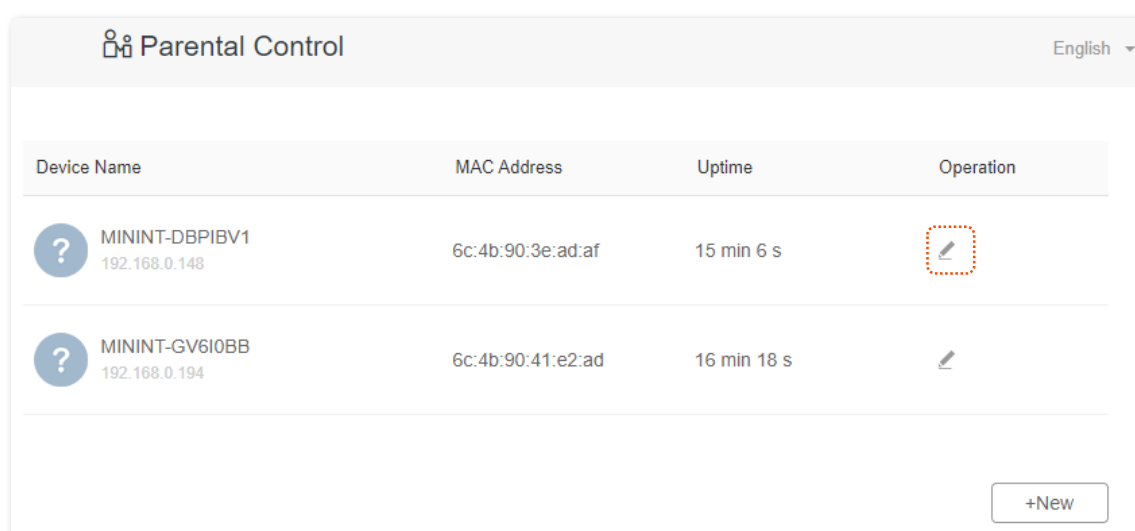
Step 1 [Log in to the web UI.](#)





Step 2 Click **Parental Control**.

Step 3 Find the device to which the rule applies, and click .




If the device to which the rule applies is not online at the time, you can click **+New** to add a parental control rule for the device.



Device Name	MAC Address	Uptime	Operation
 MININT-DBPIBV1 192.168.0.148	6c:4b:90:3e:ad:af	15 min 6 s	
 MININT-GV6I0BB 192.168.0.194	6c:4b:90:41:e2:ad	16 min 18 s	

Step 4 Set parental control rules as required, and then click **Save**.

1. Click  to set the name of the client device, which is **Daughter's desktop** in this example.
2. Specify the period when the target websites cannot be accessed, which is **8:00 ~ 22:00** in this example.
3. Select **Specified Day**, and tick the days when the rule is applied, which are **Sun.** and **Sat.** in this example.
4. Enable the **Website Access Limit**.
5. Set **Access Control Mode** to **Blacklist**.
6. Set **Blocked Websites**, which are **facebook, twitter, youtube, instagram** in this example.

Parental Control ✕

Device Name:

Internet Accessible At: ~

In: Every Day Specified Day

Sun. Mon. Tue. Wed.
 Thur. Fri. Sat.

Website Access Limit:

Access Control Mode: Blacklist Whitelist

Blocked Websites:

Enter website keywords separated by a comma. For example, eHow,google indicates that the eHow and Google websites are inaccessible.

Step 5 Refer to **Step 3** to **Step 4** to configure the parental control function for the daughter's smartphone.

---End

After the configuration is completed, your daughter can access any websites except for Facebook, Twitter, Youtube and Instagram from 8:00 to 22:00 on weekends, and she cannot access the internet at all.

7 IPv6

This router supports IPv4 and IPv6 dual-stack protocols. In the IPv6 part, you can connect to the IPv6 network of ISPs.

The router can access the IPv6 network of ISPs through three connection types. Choose the connection type by referring to the following chart.

Scenario	Connection Type
<ul style="list-style-type: none">• The ISP does not provide any PPPoEv6 user name and password.• The ISP does not provide information about the IPv6 address.• You have a router that can access the IPv6 network.	DHCPv6
IPv6 service is included in the PPPoE user name and password.	PPPoEv6
The ISP provides you with a set of information including IPv6 address, subnet mask, default gateway and DNS server, and so on.	Static IPv6 address



TIP

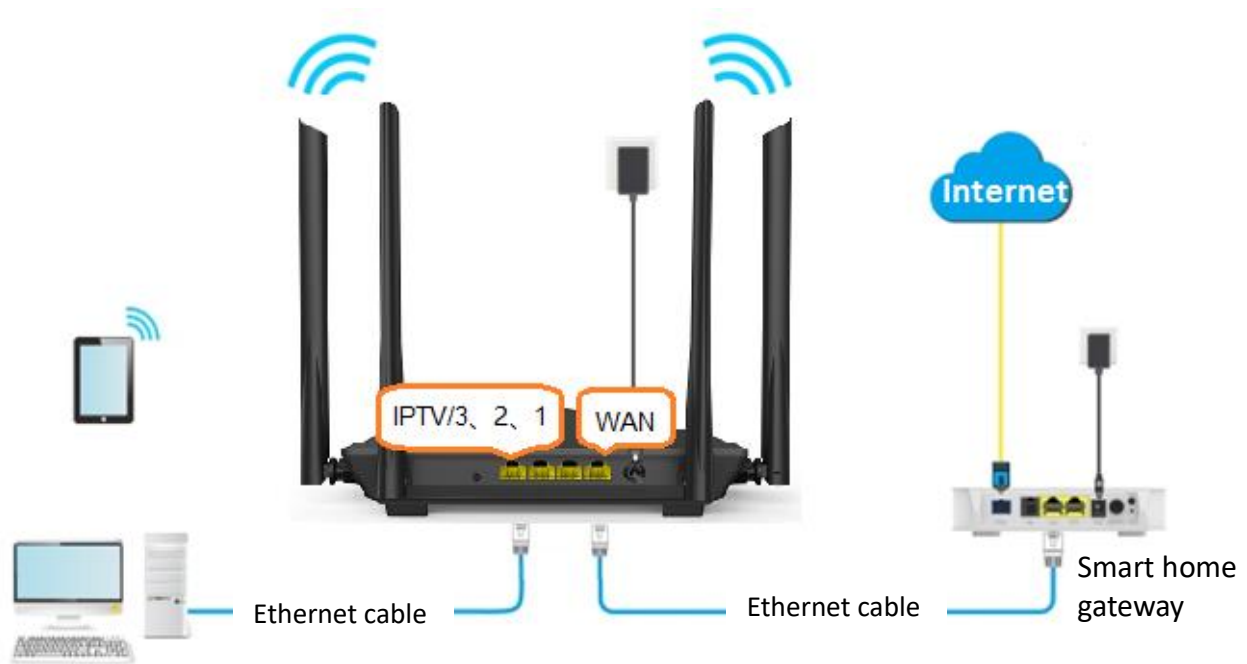
Before configuring the IPv6 function, please ensure that you are within the coverage of the IPv6 network and already subscribe to the IPv6 internet service. Contact your ISP for any doubt about it.

7.1 DHCPv6

DHCPv6 enables the router to obtain an IPv6 address from the DHCPv6 server to access the internet, which is applicable in the following scenarios.

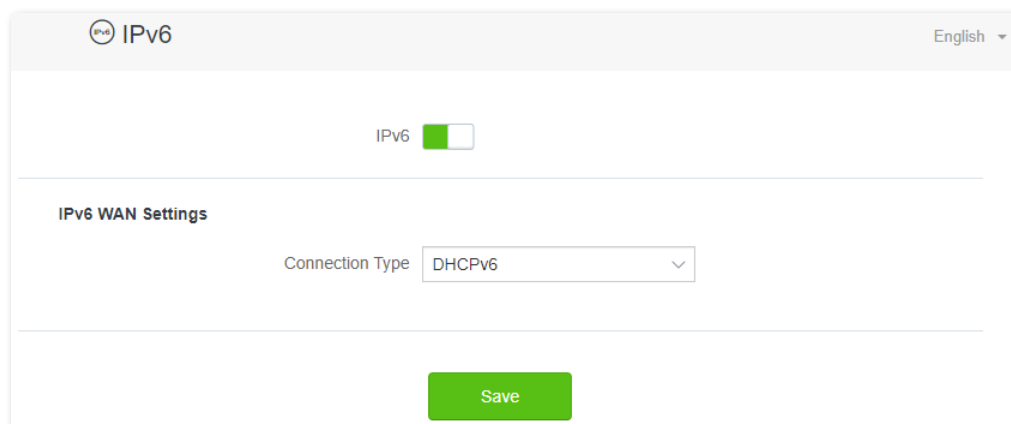
- The ISP does not provide any PPPoEv6 user name and password.
- The ISP does not provide information about the IPv6 address.
- You have a router that can access the IPv6 network.

The application scenario is shown as below.



Procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Click **IPv6**, and enable the **IPv6**.
- Step 3** Set the **Connection Type** to **DHCPv6**.
- Step 4** Click **Save** at the bottom of the page.

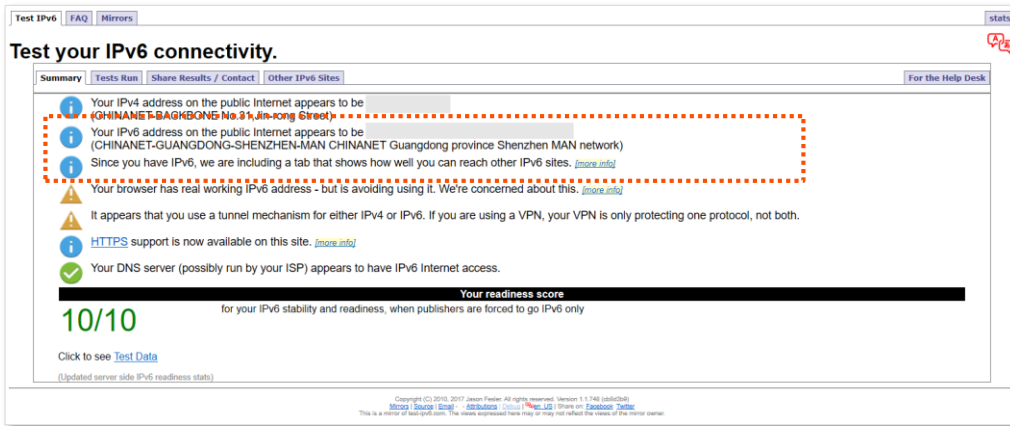


---End

IPv6 network test:

Launch a web browser on a smartphone or a computer that is connected to the router, and visit **test-ipv6.com**. The website will test your IPv6 connection status.

When “You have IPv6” is shown on the page, it indicates that the configuration succeeds and you can access IPv6 services.



If the IPv6 network test fails, try the following solutions:

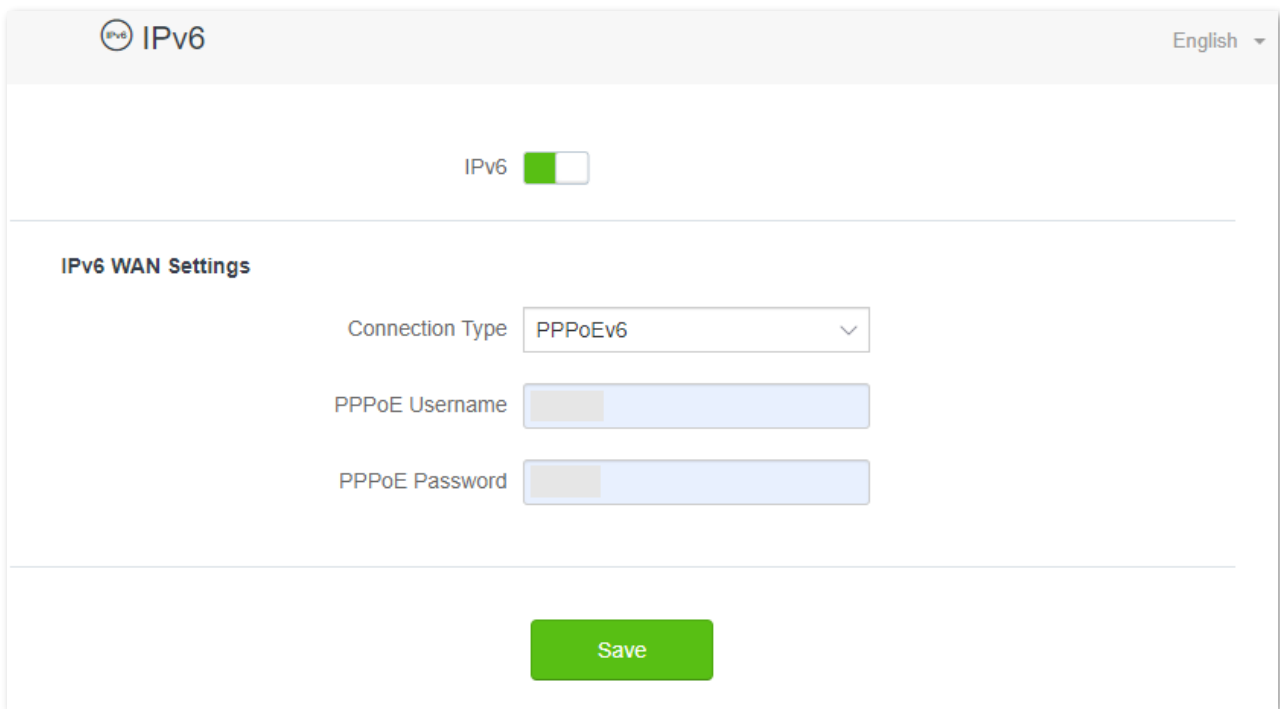
- Navigate to the **System Settings > System Status**, and move to the [IPv6 status](#) part. Ensure that the IPv6 WAN address is a global unicast address.
- Ensure that devices connected to the router obtain their IPv6 address through DHCPv6.
- Consult your ISP for help.

7.2 PPPoEv6

7.2.1 Overview

If your ISP provides you with the PPPoE user name and password with IPv6 service, you can choose PPPoEv6 to access the internet.

[Log in to the web UI](#), and navigate to the **IPv6**. When the connection type is set to **PPPoEv6**, the page is shown as below.

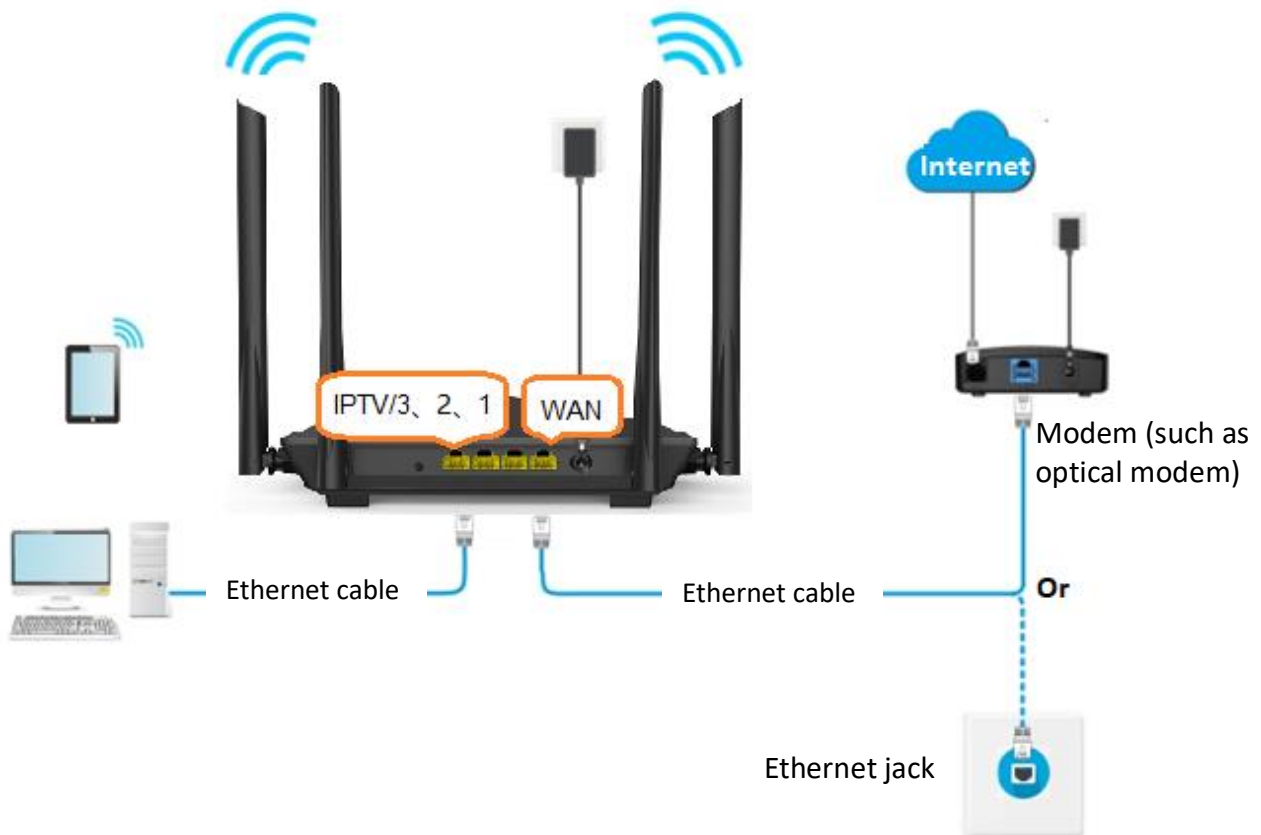


Parameter description

Parameter	Description
PPPoE Username	It specifies the PPPoE user name and password provided by your ISP.
PPPoE Password	IPv4 and IPv6 services share the same PPPoE account.

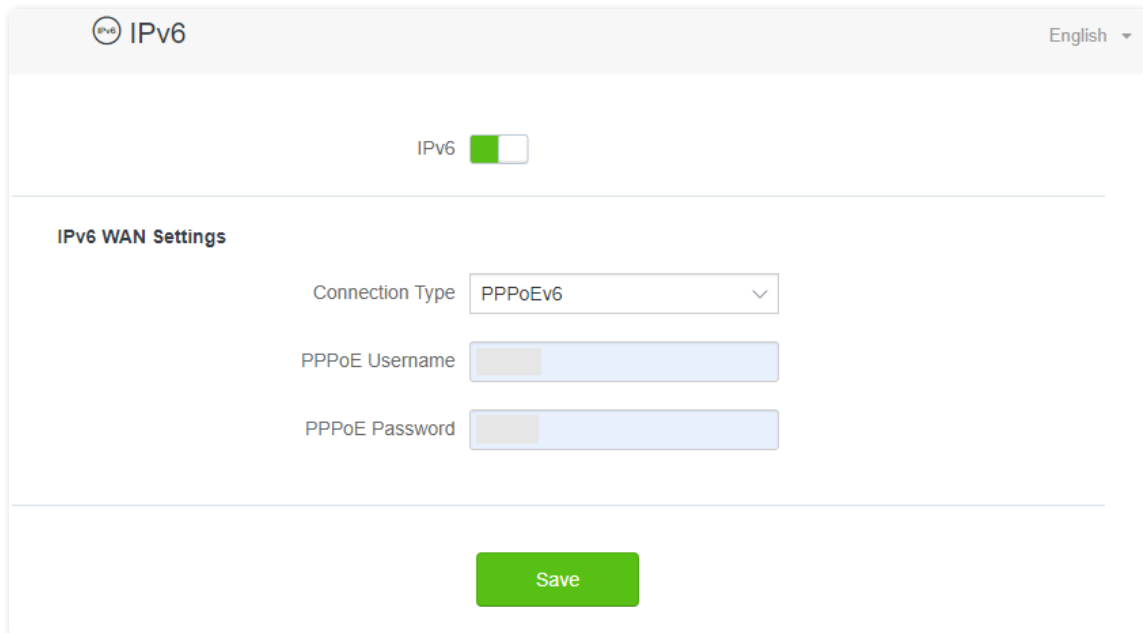
7.2.2 Access the internet through PPPoEv6

If the PPPoE account provided by your ISP includes IPv6 service, you can choose PPPoEv6 to access the IPv6 service. The application scenario is shown as below.



Procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Click **IPv6**, and enable the **IPv6**.
- Step 3** Set the **Connection Type** to **PPPoEv6**.
- Step 4** Enter the **PPPoE Username** and **PPPoE Password**.
- Step 5** Click **Save** at the bottom of the page.

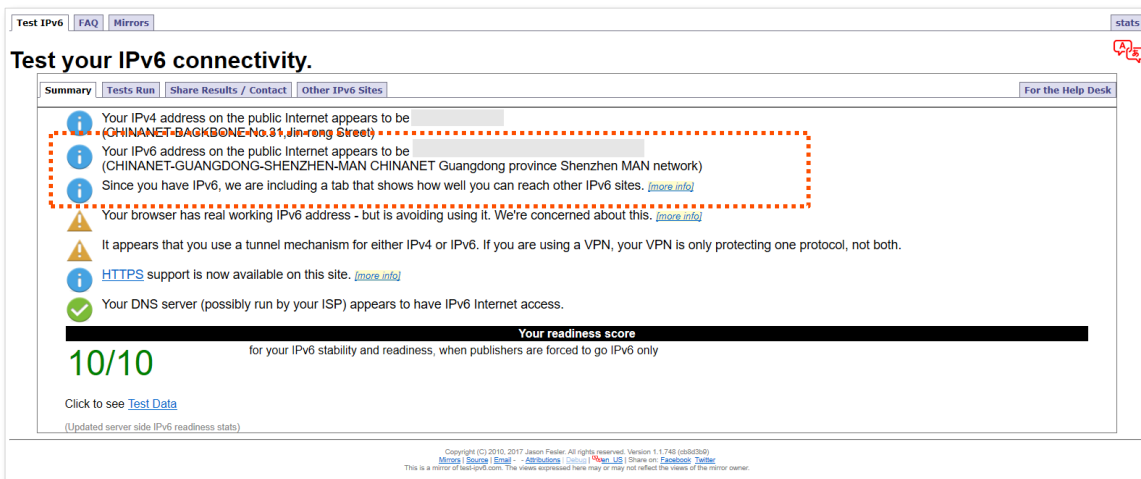


---End

IPv6 network test:

Launch a web browser on a smartphone or a computer that is connected to the router, and visit test-ipv6.com. The website will test your IPv6 connection status.

When “You have IPv6” is shown on the page, it indicates that the configurations succeed and you can access IPv6 services.



If the IPv6 network test fails, try the following solutions:

- Navigate to the **System Settings > System Status**, and move to the [IPv6 status](#) part. Ensure that the IPv6 WAN address is a global unicast address.
- Ensure that devices connected to the router obtain their IPv6 address through DHCPv6.
- Consult your ISP for help.

7.3 Static IPv6 address

7.3.1 Overview

When your ISP provides you with information including IPv6 address, subnet prefix length, default gateway and DNS server, you can choose this connection type to access the internet with IPv6.

[Log in to the web UI](#), and navigate to the **IPv6**. When the connection type is set to **Static IPv6 Address**, the page is shown as below.

IPv6 English

IPv6

IPv6 WAN Settings

Connection Type


IPv6 Address /

Default IPv6 Gateway

Primary IPv6 DNS

Secondary IPv6 DNS

Parameter description

Parameter	Description
IPv6 Address	
Default IPv6 Gateway	It specifies the fixed IP address information provided by your ISP.
Primary IPv6 DNS	 TIP
Secondary IPv6 DNS	If your ISP only provides one DNS address, leave the secondary IPv6 DNS blank.

7.3.2 Access the internet through PPPoEv6

Procedure:

Step 1 [Log in to the web UI.](#)

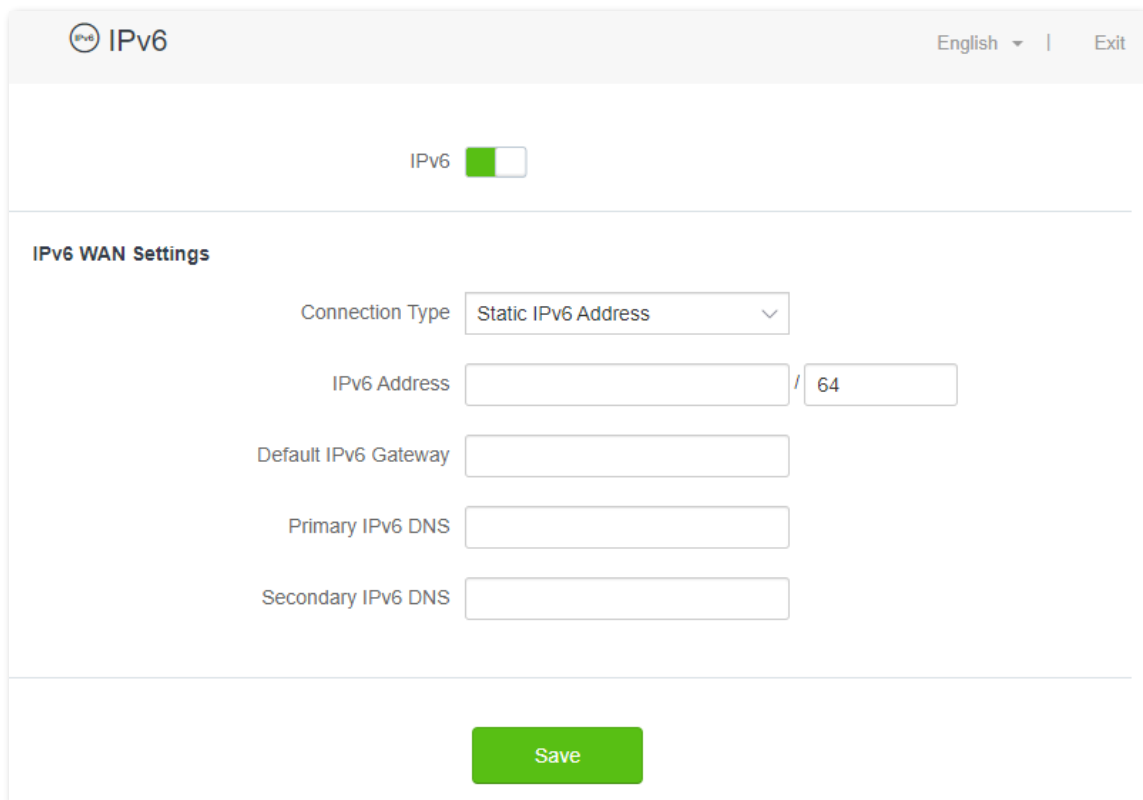
Step 2 Click **IPv6**, and enable the **IPv6**.

Step 3 Set the **Connection Type** to **Static IPv6 Address**.

Step 4 Enter the required parameters under **IPv6 WAN Settings**.

Step 5 Enter the IPv6 LAN prefix length provided by your ISP in **IPv6 LAN Prefix Length**.

Step 6 Click **Save** at the bottom of the page.



The screenshot shows a web interface for IPv6 configuration. At the top left, there is a header with an IPv6 icon and the text "IPv6". At the top right, there are language and exit options: "English" with a dropdown arrow and "Exit". Below the header, there is a toggle switch for "IPv6" which is currently turned on (green). Underneath, the "IPv6 WAN Settings" section is visible. It contains the following fields:

- Connection Type:** A dropdown menu set to "Static IPv6 Address".
- IPv6 Address:** An input field followed by a slash and a separate input field containing the number "64".
- Default IPv6 Gateway:** An empty input field.
- Primary IPv6 DNS:** An empty input field.
- Secondary IPv6 DNS:** An empty input field.

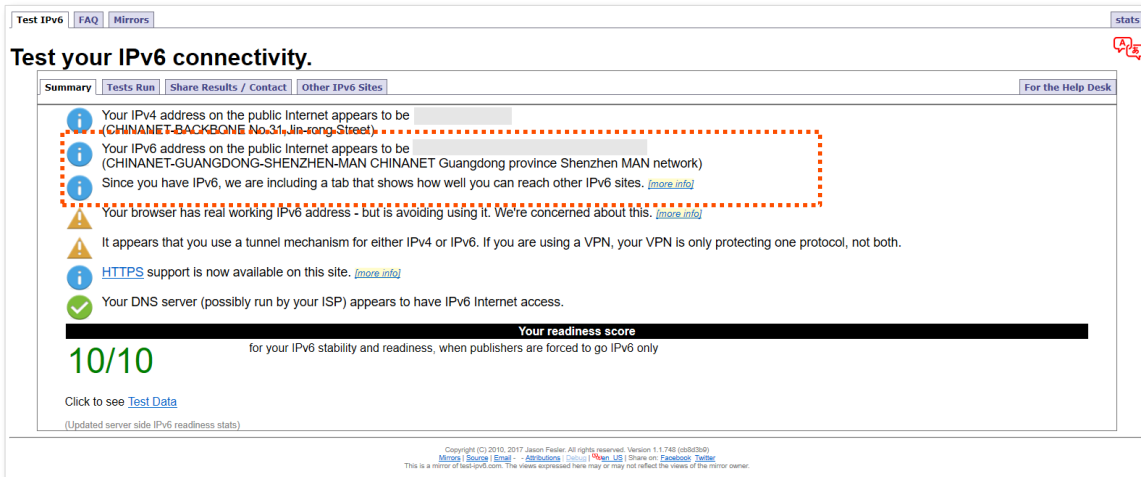
At the bottom center of the form, there is a green "Save" button.

---End

IPv6 network test:

Launch a web browser on a smartphone or a computer that is connected to the router, and visit **test-ipv6.com**. The website will test your IPv6 connection status.

When “You have IPv6” is shown on the page, it indicates that the configurations succeed and you can access IPv6 services.



The screenshot shows the 'Test your IPv6 connectivity' page on test-ipv6.com. The page has a navigation bar with 'Test IPv6', 'FAQ', and 'Mirrors'. Below the title, there are tabs for 'Summary', 'Tests Run', 'Share Results / Contact', and 'Other IPv6 Sites'. The main content area displays several status messages:

- Your IPv4 address on the public Internet appears to be [redacted] (CHINANET-BACKBONE No.31, Jie-long Street).
- Your IPv6 address on the public Internet appears to be (CHINANET-GUANGDONG-SHENZHEN-MAN CHINANET Guangdong province Shenzhen MAN network).
- Since you have IPv6, we are including a tab that shows how well you can reach other IPv6 sites. [\[more info\]](#)
- Your browser has real working IPv6 address - but is avoiding using it. We're concerned about this. [\[more info\]](#)
- It appears that you use a tunnel mechanism for either IPv4 or IPv6. If you are using a VPN, your VPN is only protecting one protocol, not both.
- [HTTPS](#) support is now available on this site. [\[more info\]](#)
- Your DNS server (possibly run by your ISP) appears to have IPv6 Internet access.

A progress bar shows a 'Your readiness score' of 10/10, with the text 'for your IPv6 stability and readiness, when publishers are forced to go IPv6 only'. Below the score, there is a link to 'Test Data' and a note '(Updated server side IPv6 readiness stats)'. The footer contains copyright information and social media links.

If the IPv6 network test fails, try the following solutions:

- Ensure that you have entered the correct WAN IPv6 address.
- Ensure that devices connected to the router obtain their IPv6 address through DHCPv6.
- Consult your ISP for help.

8

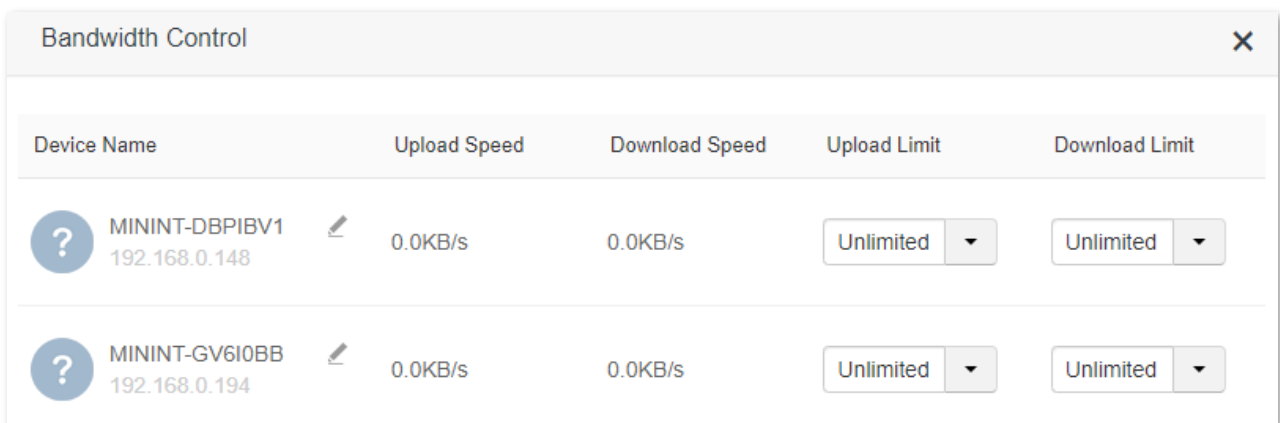
Advanced settings









8.1 Bandwidth control

8.1.1 Overview


By configuring this function, you can limit the upload and download speed of devices connected to the router and allocate the bandwidth reasonably.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > Bandwidth Control**.



Device Name	Upload Speed	Download Speed	Upload Limit	Download Limit
 MININT-DBPIBV1 192.168.0.148 	0.0KB/s	0.0KB/s	Unlimited 	Unlimited 
 MININT-GV6I0BB 192.168.0.194 	0.0KB/s	0.0KB/s	Unlimited 	Unlimited 

Parameter description

Parameter	Description
Device Name	It specifies the name and IP address of the device. You can click  to change the name of the device.
Upload Speed	It specifies the current upload and download speed of the device.
Download Limit	
Upload Limit	It specifies the upload and download speed limit for the device. You can click the drop-down box to choose a number or set it manually.
Download Limit	

8.1.2 Set the upload and download speed limit for users

Scenario: You want to allocate bandwidth equally among connected and enable all connected devices to enjoy smooth 720p videos.

Solution: Configure the bandwidth control function to meet the requirement.

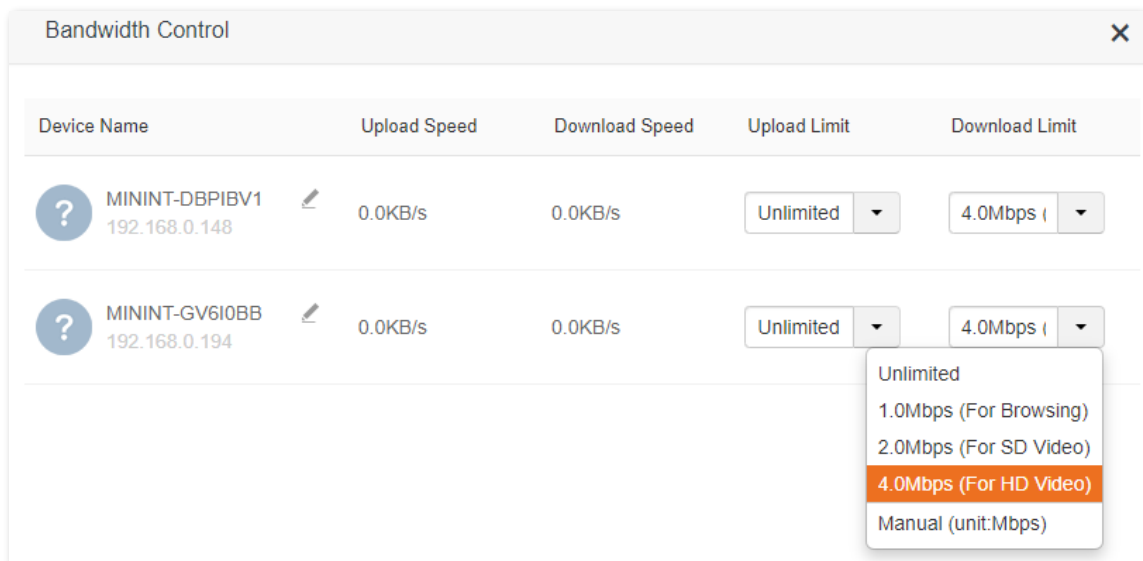
Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Navigate to **Advanced Settings > Bandwidth Control.**

Step 3 Target the devices to be controlled, and set the **Download Limit** to **4.0Mbps (For HD Video).**

Step 4 Click **Save** at the bottom of the page.



The screenshot shows a web interface titled "Bandwidth Control" with a table of device settings. The table has five columns: Device Name, Upload Speed, Download Speed, Upload Limit, and Download Limit. Two devices are listed:

Device Name	Upload Speed	Download Speed	Upload Limit	Download Limit
MININT-DBPIBV1 192.168.0.148	0.0KB/s	0.0KB/s	Unlimited	4.0Mbps
MININT-GV6I0BB 192.168.0.194	0.0KB/s	0.0KB/s	Unlimited	4.0Mbps

A dropdown menu is open for the "Download Limit" of the second device, showing the following options: Unlimited, 1.0Mbps (For Browsing), 2.0Mbps (For SD Video), 4.0Mbps (For HD Video) (highlighted), and Manual (unit:Mbps).

---End

After the configuration is completed, the highest speed for the device is 4 Mbps (or 512 KB/s) and satisfies the requirement of 720p videos.

8.2 IPTV

8.2.1 Overview

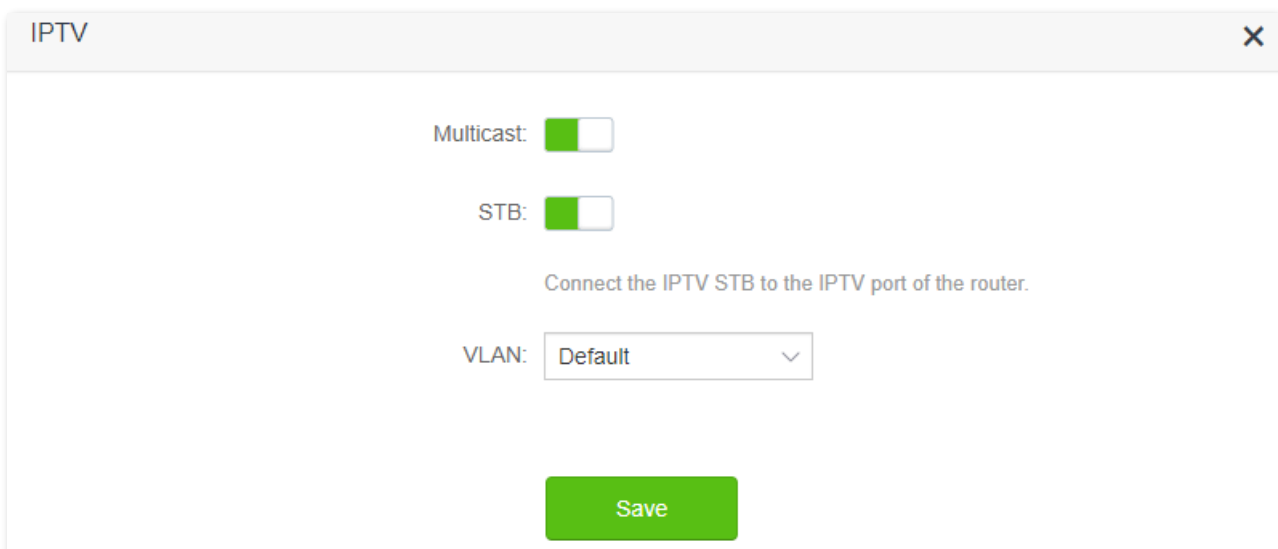
Internet Protocol Television (IPTV) is the technology integrating internet, multimedia, telecommunication and many other technologies, providing interactive services, including digital TV, to family users by internet broadband lines.

You can set the multicast and Set Top Box (STB) functions here.

- **Multicast:** If you want to watch multicast videos from the WAN side of the router on your computer, you can enable the multicast function of the router.
- **STB:** If the IPTV service is included in your broadband service, you are enabled to enjoy both internet access through the router and rich IPTV contents with a set top box.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > IPTV**.

This function is disabled by default. When it is enabled, the page is shown as below.



Parameter description

Parameter	Description
Multicast	It is used to enable and disable the multicast function of the router.
STB	It is used to enable and disable the STB function of the router. When this function is enabled, the port IPTV/3 port can be used only as an IPTV port and be connected to an IPTV set top box.

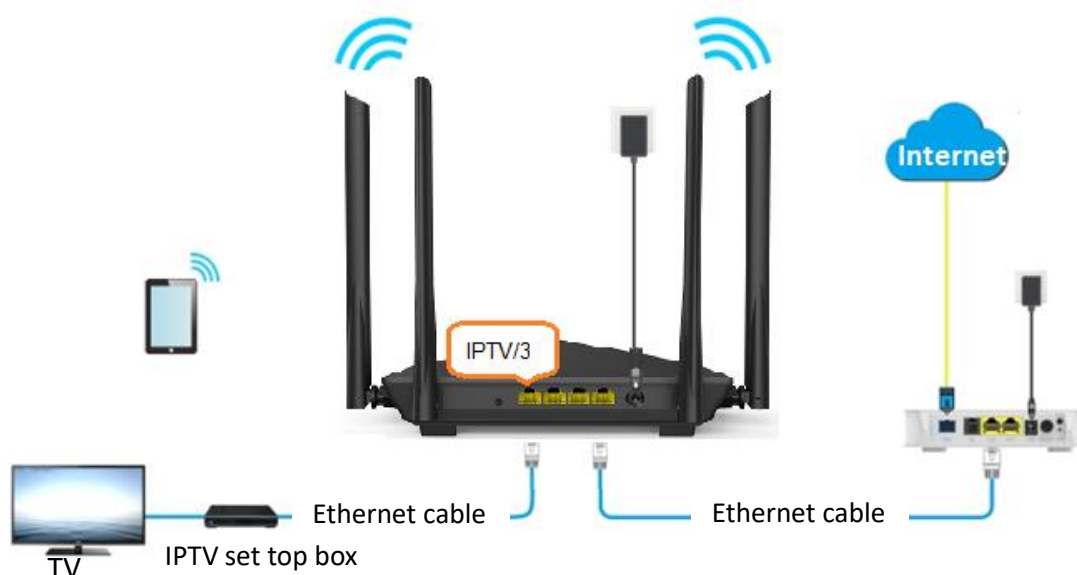
Parameter	Description
	It specifies the VLAN ID of your IPTV service.
	<ul style="list-style-type: none"> If your ISP does not provide any VLAN ID information when the IPTV service is available, please keep Default.
VLAN	<ul style="list-style-type: none"> If you have obtained a VLAN ID from your ISP when the IPTV service is available, please select Custom VLAN and enter the VLAN value. If you purchased the IPTV service in Shanghai, select Shanghai VLAN and the desired VLAN ID.

8.2.2 Watch IPTV programs through the router

Scenario: The IPTV service is included in your broadband service. You have obtained the IPTV account and password from your ISP, but no VLAN information.

Goal: Be able to watch IPTV programs through the router.

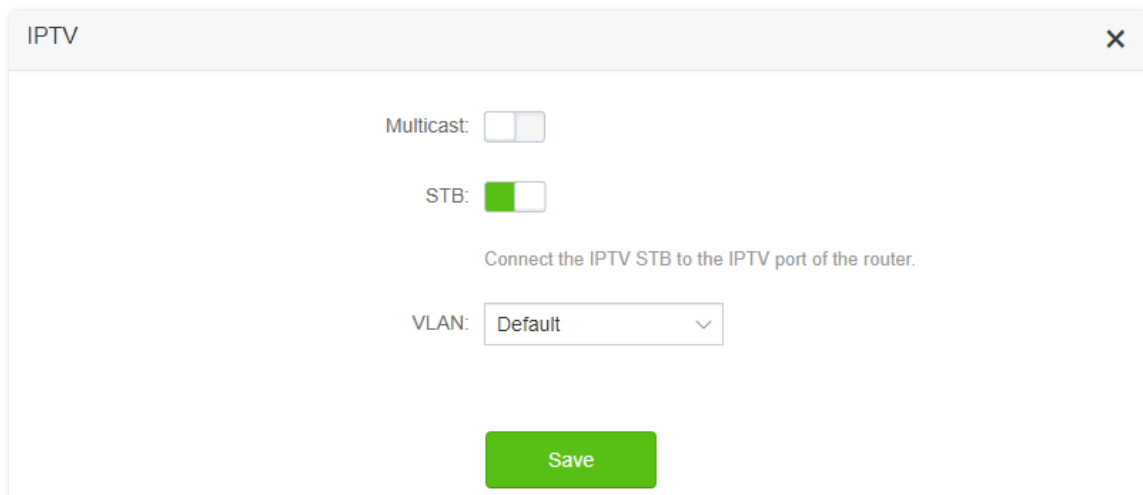
Solution: You can configure the IPTV function to reach the goal.



Procedure:

Step 1 Set your router.

1. [Log in to the web UI](#). A computer is used for illustration here.
2. Navigate to **Advanced Settings > IPTV**.
3. Enable the **STB**.
4. Click **Save**.



Step 2 Configure the set top box.

Use the IPTV user name and password to dial up on the set top box.

---End

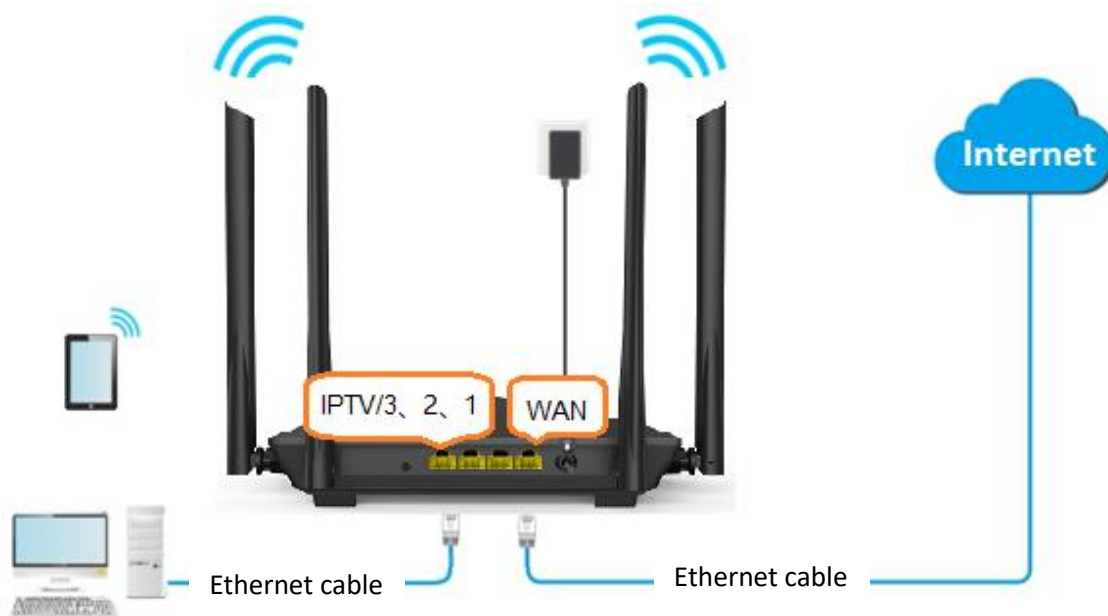
When configuration is completed, you can watch IPTV programs on your TV.

8.2.3 Watch multicast videos through the router

Scenario: You have the address of multicast videos.

Goal: You can watch multicast videos.

Solution: You can configure the multicast function to reach the goal.



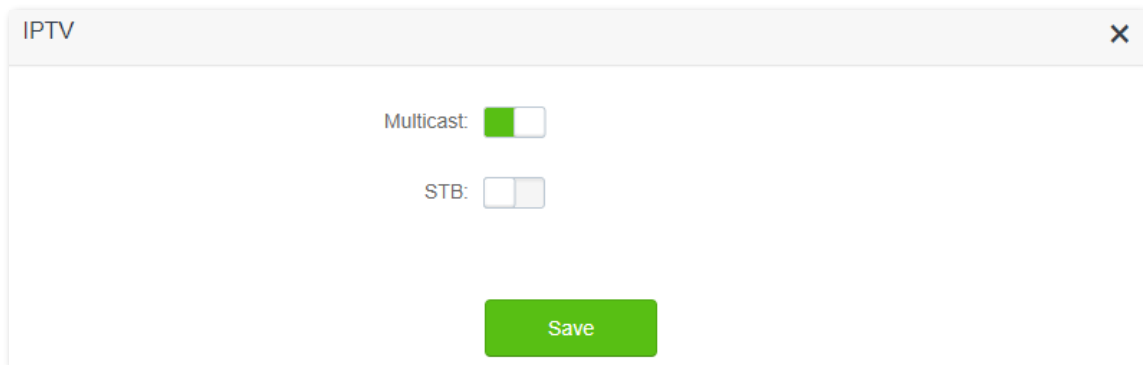
Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Navigate to **Advanced Settings > IPTV.**

Step 3 Enable the **Multicast.**

Step 4 Click **Save.**



---End

After the configuration is completed, you can watch multicast videos on your computer.

8.3 Tenda WiFi App

8.3.1 Overview

The router supports management through the Tenda WiFi App. With the App, you can:

- Manage your router within the LAN or through the internet.
- Remotely manage your router through the internet (The figure is shown as below.).



You can enable/disable the **Manage with Tenda WiFi App** function here.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > Tenda WiFi App**.


This function is disabled by default. When it is enabled, the page is shown as below.

Tenda WiFi App ✕

Manage with Tenda WiFi App:

ID: 575568390

Cloud Account:



Scan to download Tenda WiFi App.

8.3.2 Remote App management

To remotely manage the router with Tenda WiFi App, follow the steps below (Example: iPhone).

Procedure:

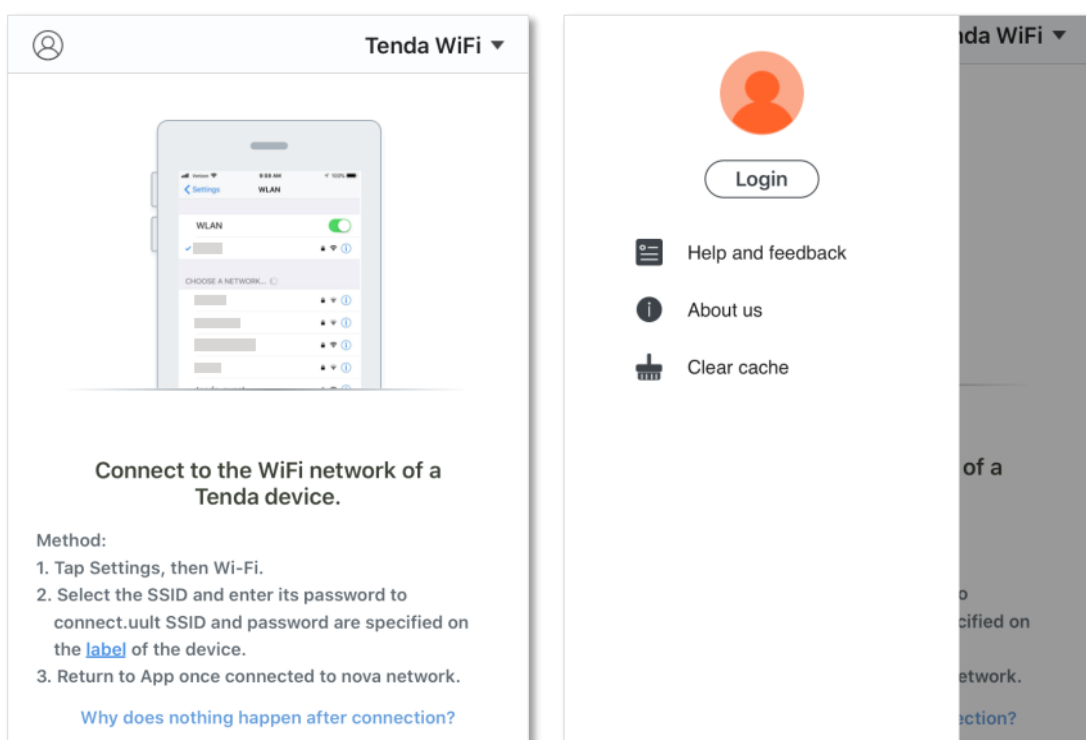
Step 1 Go to the App Store and search for the **Tenda WiFi** App. Download and install it on your phone.



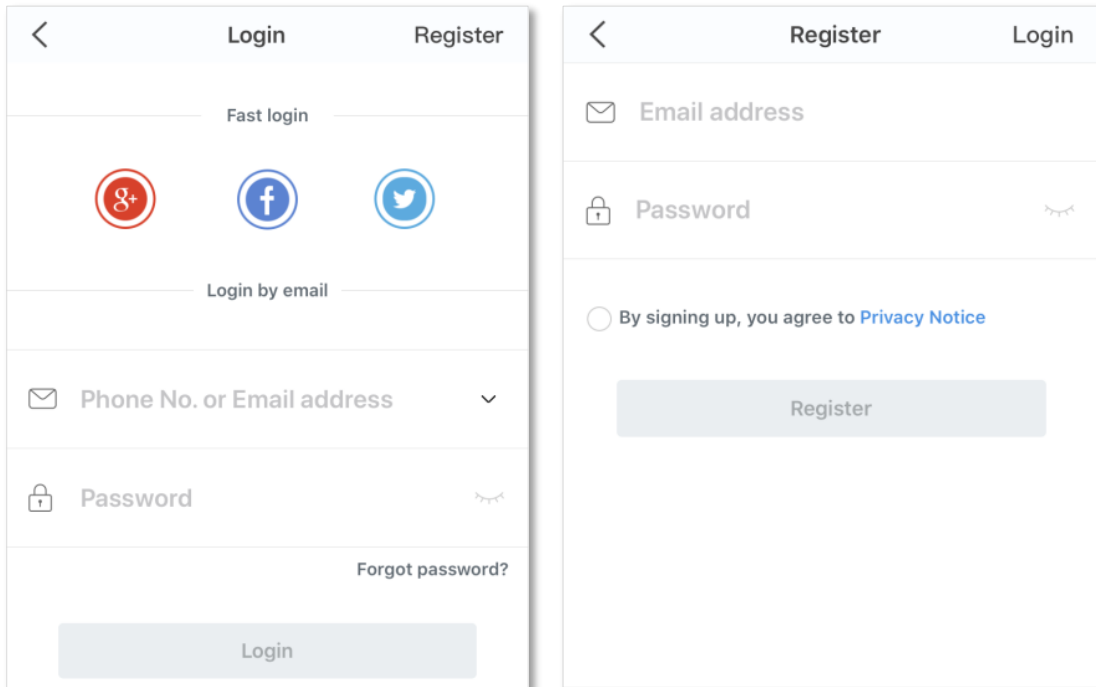
If you already have a Tenda WiFi App account or want to use the fast login approach, skip to **Step 3** and proceed with the settings.

Step 2 (Optional) Register an account in the Tenda WiFi App.

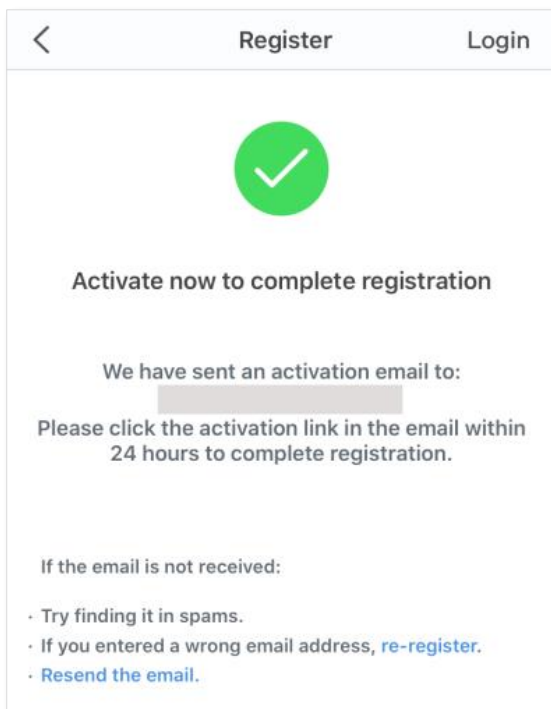
1. Open the Tenda WiFi App, tap the  at the top left corner and tap **Login**.



2. Tap **Register** at the top right corner, and register with an email account.



3. Check the Email sent to your email account and follow the instruction to finish the Email account confirmation process.
4. Click **Login** at the top right corner of the registration page.

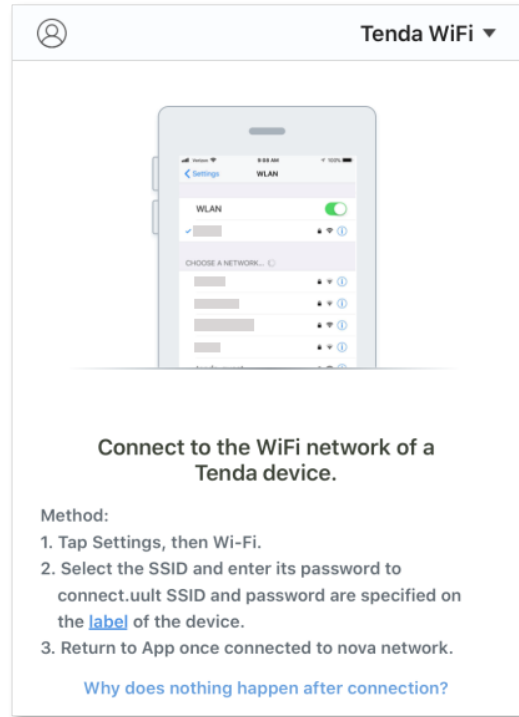
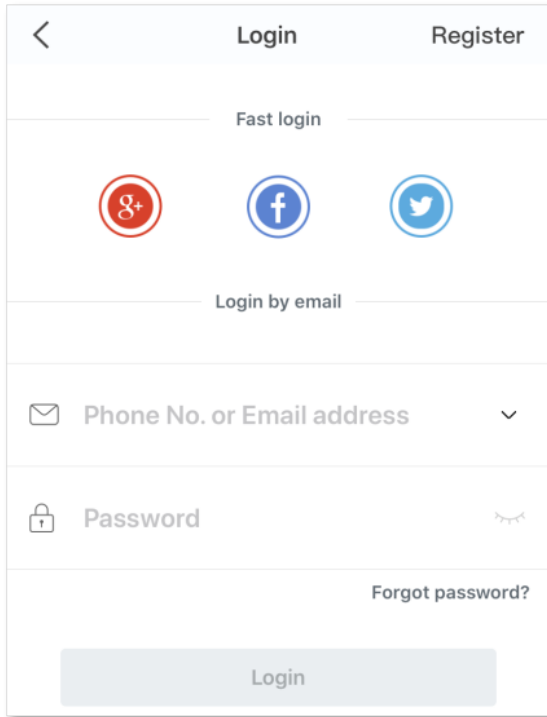


Step 3 Log in with the confirmed account.

Follow the instructions on the home page of the Tenda WiFi App to add the router.

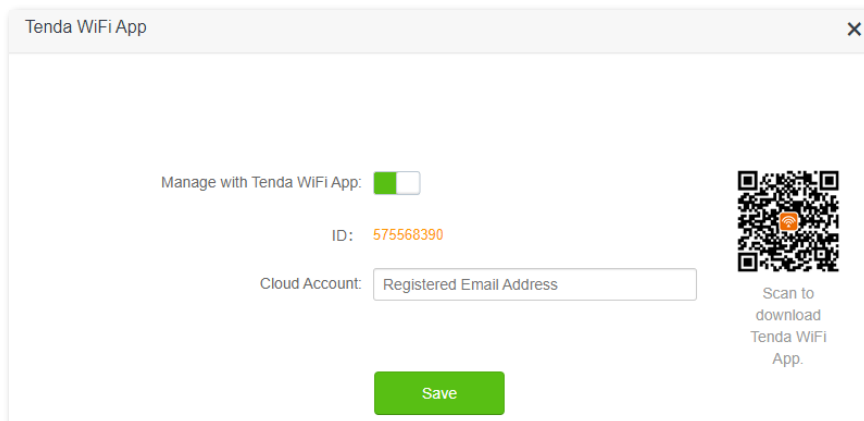


You can also choose to log in with your Google, Facebook and Twitter account without registering a Tenda WiFi App account. Choose an option in **Fast login**.



Step 4 Bind your router with your smartphone.

1. [Log in to the web UI.](#)
2. Navigate to **Advanced Settings > Tenda WiFi App.**
3. Enable the **Manage with Tenda WiFi App.**
4. Enter an account registered in the Tenda WiFi App in **Cloud Account.**
5. Click **Save.**



---End

After the configuration is completed, you can manage your router with Tenda WiFi App on your phone anywhere and anytime through the internet.

8.4 Sleeping mode

When the sleeping mode function is enabled, the router turns off its LED indicators and disables the WiFi network during the specified period.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > Sleeping Mode**.

This function is disabled by default. When it is enabled, the page is shown as below.

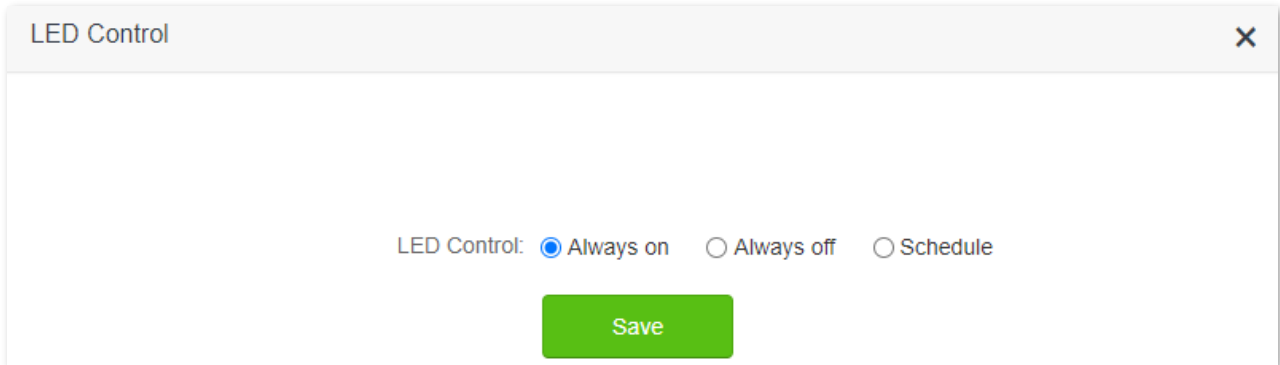
Parameter description

Parameter	Description
Sleeping Mode	It is used to enable or disable the function. When the router is under sleeping mode and you want to use the WiFi network, use the Tenda WiFi App to wake up the router.
Sleeping Time	It specifies the period during which the router is under sleeping mode.
Delay	It is used to enable or disable the Delay function. <ul style="list-style-type: none">• Ticked: The function is enabled. During the sleeping time, if there is any user connected to the router and the traffic over the router's WAN port exceeds 3 KB/s within 30 minutes, the router will delay entering the sleeping mode. If there is no user connected to the router and the traffic over the router's WAN port is slower than 3 KB/s within 3 minutes, the router will enter sleeping mode.• Unticked: The function is disabled. The router enters the sleeping mode during the sleeping time.

8.5 LED control

With the LED control function, you can control the status of the LED indicators.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > LED Control**.



LED Control

LED Control: Always on Always off Schedule

Save

Parameter description

Parameter	Description
Always on	All LED indicators stay in their normal status.
Always off	All LED indicators are turned off.
Schedule	LED indicators are only turned off during the specified period.

8.6 Filter MAC address

8.6.1 Overview

This function enables you to add devices to the whitelist or blacklist to enable or disable specified users to access the internet through the router.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > Filter MAC address**.


Filter MAC Address ✕

MAC Address Filter Mode: Blacklist (To disallow listed devices to access the internet)
 Whitelist (To allow only the listed devices to access the internet)

Blacklisted Device	MAC Address	Operation
<input type="text"/>	<input type="text"/>	<input type="button" value="+New"/>

The blacklist is empty.

Parameter description

Parameter	Description
MAC Address Filter Mode	<p>It specifies the MAC address filter mode.</p> <ul style="list-style-type: none">• Blacklist: Wireless devices listed are unable to connect to the WiFi network of the router, and wired devices listed are unable to access the internet.• Whitelist: Wireless devices listed can connect to the WiFi network of the router, and wired devices listed can access the internet.
Blacklisted Device	It specifies the name or remark for the device.
Whitelisted Device	
MAC Address	It specifies the MAC addresses of devices added to the list.
Operation	<ul style="list-style-type: none">• <input type="button" value="+New"/> : It is used to add new devices to the blacklist or whitelist.•  : It is used to remove devices from the blacklist or whitelist.
Add all online devices to the whitelist	It is only available when you set the whitelist for the first time. By clicking it, you can add all currently connected devices to the whitelist.

8.6.2 Only allow specified device to access the internet

Scenario: The WiFi in your home is misused by unknown users sometimes.

Goal: Only allow certain devices of family members to access the internet.

Solution: You can configure the MAC address filter function to reach the goal.

Assume that:

Device	MAC address	Status
Your own phone	8C:EC:4B:B3:04:92	Connected
Wife's phone	94:C6:91:29:C2:12	Disconnected
Daughter's phone	98:9C:57:19:D0:1B	Disconnected

Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Navigate to **Advanced Settings > Filter MAC Address.**

Step 3 Set the **MAC Address Filter Mode** to **Whitelist.**

Step 4 (Optional) Enter the device name in the **Whitelist Device** field, which is **Wife's phone** in this example.

Step 5 Enter the **MAC Address** of the device, which is **94:C6:91:29:C2:12** in this example.

Step 6 Click **+New.**

Filter MAC Address

MAC Address Filter Mode: Blacklist (To disallow listed devices to access the internet) Whitelist (To allow only the listed devices to access the internet)

Whitelisted Device	MAC Address	Operation
<input type="text" value="Wife's phone"/>	<input type="text" value="94:C6:91:29:C2:12"/>	<input type="button" value="+New"/>
MININT-GV6I0BB	6C:4B:90:41:E2:AD	Local Host

Step 7 Repeat **Step 4** to **Step 6** to add **Daughter's phone (98:9C:57:19:D0:1B)** to the whitelist.

Step 8 Click **Save**.

Filter MAC Address ✕

MAC Address Filter Mode: Blacklist (To disallow listed devices to access the internet)
 Whitelist (To allow only the listed devices to access the internet)

Whitelisted Device	MAC Address	Operation
<input type="text"/>	<input type="text"/>	<input type="button" value="+New"/>
MININT-GV6I0BB	6C:4B:90:41:E2:AD	Local Host
Wife's phone	94:C6:91:29:C2:12	<input type="button" value="🗑️"/>
Daughter's phone	98:9C:57:19:D0:1B	<input type="button" value="🗑️"/>
HONOR	8C:EC:4B:B3:04:92	<input type="button" value="🗑️"/>

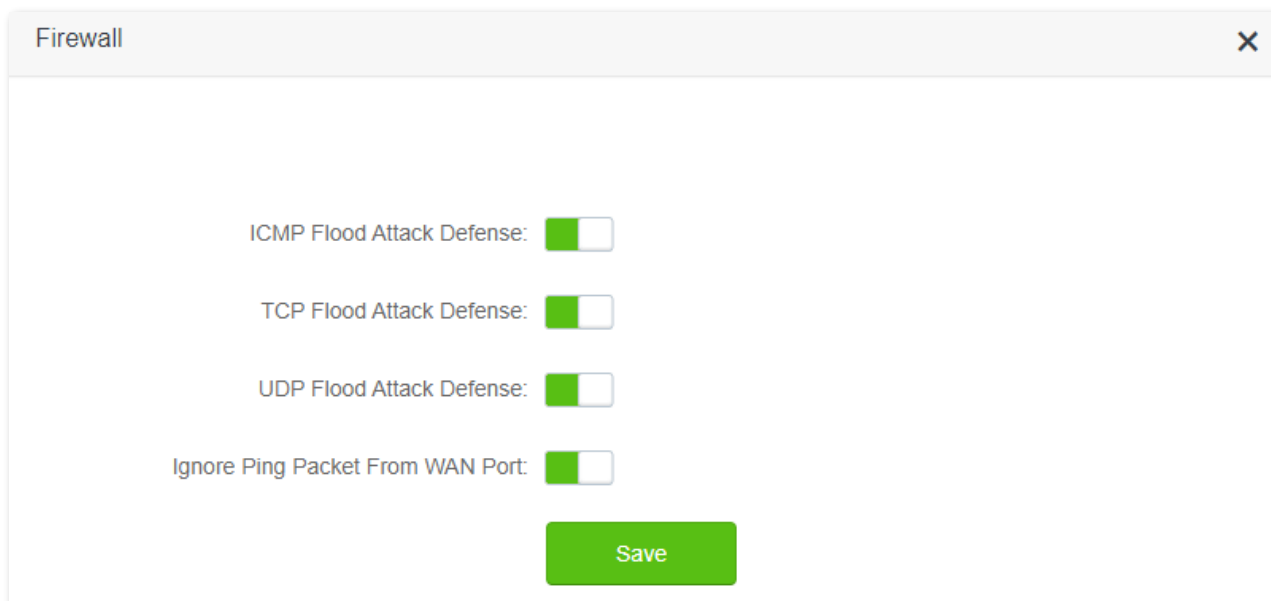
---End

After the configuration is completed, only the three devices added can access the internet through the router.

8.7 Firewall

The firewall function helps the router detect and defend the ICMP flood attack, TCP flood attack and UDP flood attack, and ignore Ping packets from the WAN port. It is recommended to keep the default settings.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > Firewall**.



Firewall

ICMP Flood Attack Defense:

TCP Flood Attack Defense:

UDP Flood Attack Defense:

Ignore Ping Packet From WAN Port:

Save

Parameter description

Parameter	Description
ICMP Flood Attack Defense	<p>It is used to enable or disable the ICMP flood attack defense.</p> <p>The ICMP flood attack means that to implement attacks on the target host, the attacker sends a large number of ICMP Echo messages to the target host, which causes the target host to spend a lot of time and resources on processing ICMP Echo messages, but cannot process normal requests or responses.</p>
TCP Flood Attack Defense	<p>It is used to enable or disable the TCP flood attack defense.</p> <p>The TCP flood attack means that to implement attacks on the target host, the attacker quickly initiates a large number of TCP connection requests in a short period, and then suspends them in a semi-connected state, thereby occupying a large number of server resources until the server denies any services.</p>
UDP Flood Attack Defense	<p>It is used to enable or disable the UDP flood attack defense.</p> <p>The UDP flood attack is implemented similarly to the ICMP flood attack, during which the attacker sends a large number of UDP packets to the target host, causing the target host to be busy processing these UDP packets, but unable to process normal packet requests or responses.</p>
Ignore Ping Packet From WAN Port	<p>It is used to enable or disable the Ignore Ping packet from the WAN Port function.</p> <p>When it is enabled, the router automatically ignores the ping to its WAN from hosts from the internet and prevents itself from being exposed, while preventing external ping attacks.</p>

8.8 Static route

8.8.1 Overview


Routing is the act of choosing an optimal path to transfer data from a source address to a destination address. A static route is a special route that is manually configured and has the advantages of simplicity, efficiency, and reliability. Proper static routing can reduce routing problems and overload of routing data flow and improve the forwarding speed of data packets.

A static route is set by specifying the target network, subnet mask, default gateway, and interface. The target network and subnet mask are used to determine a target network or host. After the static route is established, all data whose destination address is the destination network of the static route are directly forwarded to the gateway address through the static route interface.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > Static Route**.

Static Route ✕				
Destination Network	Subnet Mask	Gateway	WAN	Operation
<input type="text"/>	<input type="text"/>	<input type="text"/>	WAN1	<input type="button" value="+New"/>
0.0.0.0	0.0.0.0	172.16.200.1	WAN1	System
172.16.200.1	255.255.255.255	0.0.0.0	WAN1	System
192.168.0.0	255.255.255.0	0.0.0.0	br0	System
224.0.0.0	240.0.0.0	0.0.0.0	br0	System

Parameter description

Parameter	Description
Destination Network	<p>It specifies the IP address of the destination network.</p> <p>When the Destination Network and Subnet Mask are both 0.0.0.0, it indicates that this is the default route.</p> <p> TIP</p> <p>When the route of packets cannot be found in the routing table, the router will forward the packets using the default route.</p>
Subnet Mask	<p>It specifies the subnet mask of the destination network.</p>

Parameter	Description
Gateway	It specifies the ingress IP address of the next-hop route after the data packet exits from the interface of the router. 0.0.0.0 indicates that the destination network is directly connected to the router.
WAN	It specifies the interface that the packet exits from.
Operation	It is used to add or delete static route rules.

8.8.2 Add a static route rule

Scenario: You have an AC10 and another two routers. Router1 is connected to the internet and its DHCP server is enabled. Router2 is connected to an intranet and its DHCP server is disabled.

Goal: You can access both the internet and intranet at the same time.

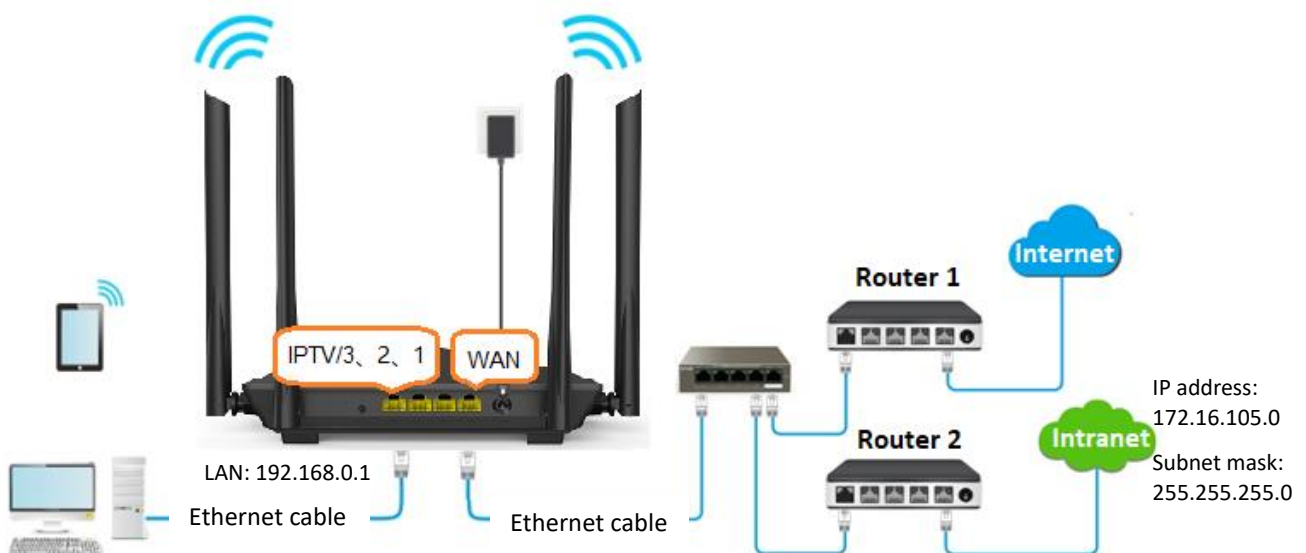
Solution: You can configure the static route function to reach the goal.

Assume the LAN IP addresses of these devices are:

- AC10: 192.168.0.1
- Router1: 192.168.10.10
- Router2: 192.168.10.20

The information about the intranet:

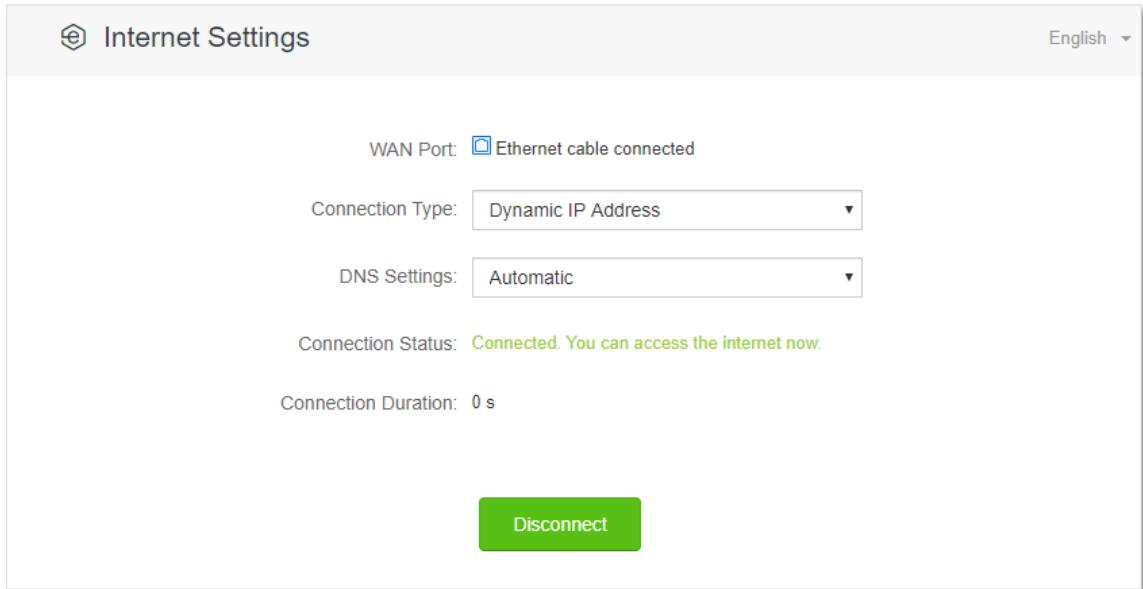
- IP address: 172.16.105.0
- Subnet mask: 255.255.255.0



Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Refer to [Access the internet with a dynamic IP address](#) to configure the internet access for AC10.




Step 3 Add a static route rule.

1. Navigate to **Advanced Settings > Static Route**.
2. Enter the IP address of the destination network, which is **172.16.105.0** in this example.
3. Enter the subnet mask of the destination network, which is **255.255.255.0** in this example.
4. Enter the ingress IP address of the next-hop route, which is **192.168.10.20** in this example.
5. Click **+New**.

Destination Network	Subnet Mask	Gateway	WAN	Operation
172.16.105.0	255.255.255.0	192.168.10.20	WAN1	+New
0.0.0.0	0.0.0.0	172.16.200.1	WAN1	System

---End

Added successfully.

Static Route ✕				
Destination Network	Subnet Mask	Gateway	WAN	Operation
<input type="text"/>	<input type="text"/>	<input type="text"/>	WAN1	<input type="button" value="+New"/>
0.0.0.0	0.0.0.0	172.16.200.1	WAN1	System
172.16.200.1	255.255.255.255	0.0.0.0	WAN1	System
192.168.0.0	255.255.255.0	0.0.0.0	br0	System
224.0.0.0	240.0.0.0	0.0.0.0	br0	System
172.16.105.0	255.255.255.0	192.168.10.20	WAN1	

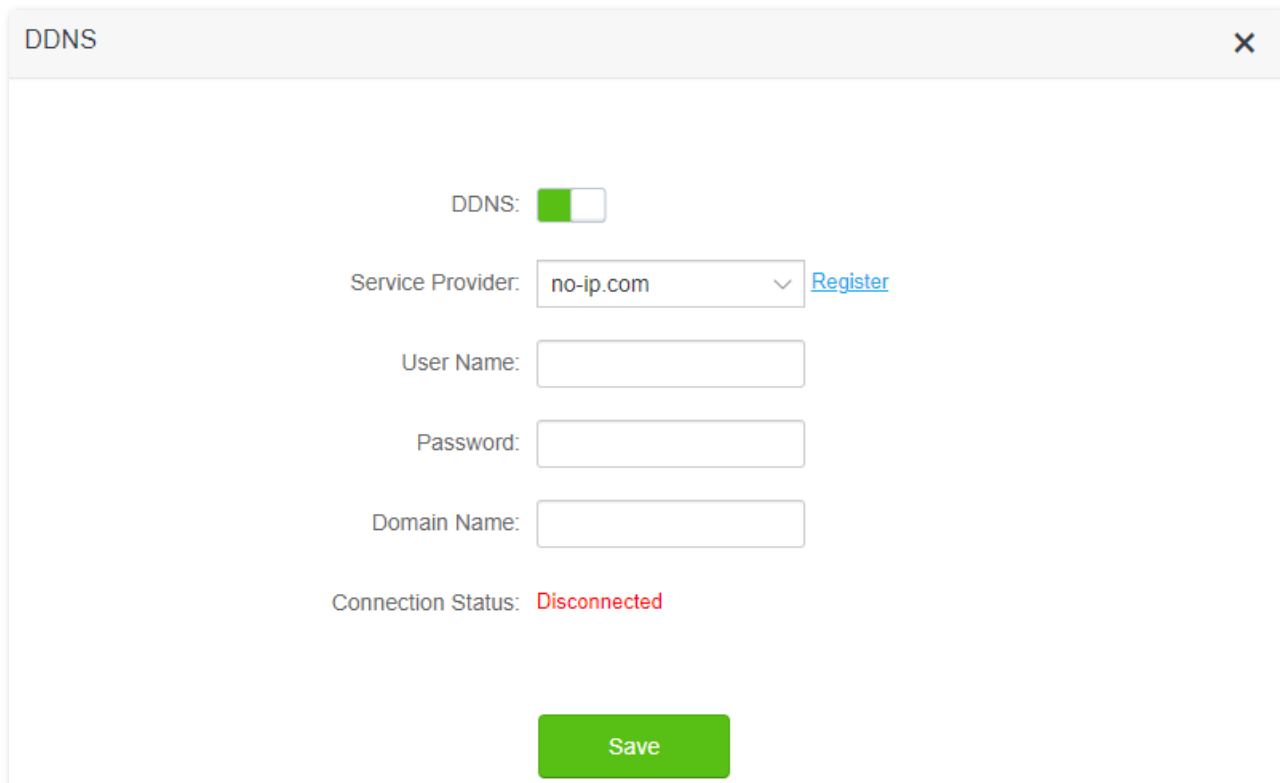
After the configuration is completed, you can access both the internet and intranet through AC10 at the same time.

8.9 DDNS

8.9.1 Overview

DDNS normally interworks with the virtual server, DMZ host, and remote management, so that the internet users can be free from the influence of dynamic WAN IP address and access the internal server or the router's web UI with a fixed domain name.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > DDNS**. This function is disabled by default. When it is enabled, the page is shown as below.



DDNS

DDNS:

Service Provider: no-ip.com [Register](#)

User Name:

Password:

Domain Name:

Connection Status: **Disconnected**

Save

Parameter description

Parameter	Description
DDNS	It is used to enable or disable the DDNS function.
Service Provider	It specifies the DDNS service provider.
User Name	It specifies the user name and password registered on a DDNS service provider's website for logging in to the DDNS service.
Password	
Domain Name	It specifies the domain name registered on the DDNS service provider's website. If this field is invisible after choosing the service provider, it is not required.
Connection Status	It specifies the current connection status of the DDNS service.

8.9.2 Enable internet users to access LAN resources using a domain name

Scenario: You have set up an FTP server within your LAN.

Goal: Open the FTP server to internet users and enable family members who are not at home to access the resources of the FTP server from the internet with a domain name.

Solution: You can configure the DDNS plus virtual server functions to reach the goal.

Assume that the information of the FTP server includes:

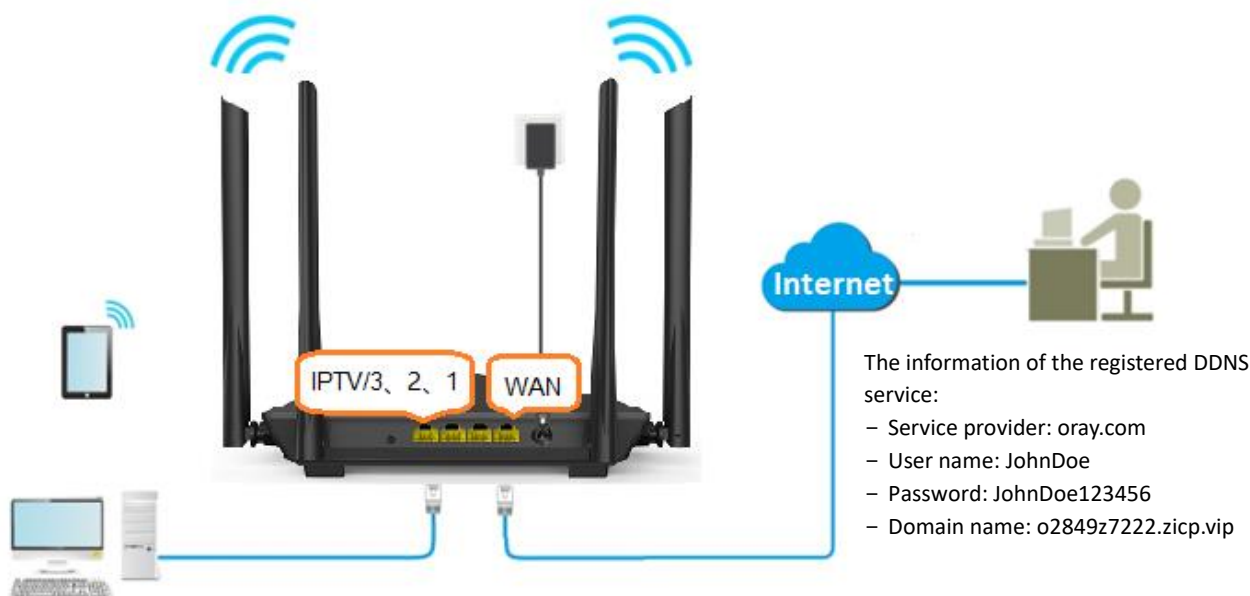
- IP address: 192.168.0.101
- MAC address of the host: D4:61:DA:1B:CD:89
- Service port: 21

The information of the registered DDNS service:

- Service provider: oray.com
- User name: JohnDoe
- Password: JohnDoe123456
- Domain name: o2849z7222.zicp.vip



Please ensure that the router obtains an IP address from the public network. This function may not work on a host with an IP address of a private network or an intranet IP address assigned by ISPs that start with 100. Common IPv4 addresses are classified into class A, class B and class C. Private IP addresses of class A range from 10.0.0.0 to 10.255.255.255; Private IP addresses of class B range from 172.16.0.0-172.31.255.255; Private IP addresses of class C range from 192.168.0.0-192.168.255.255.



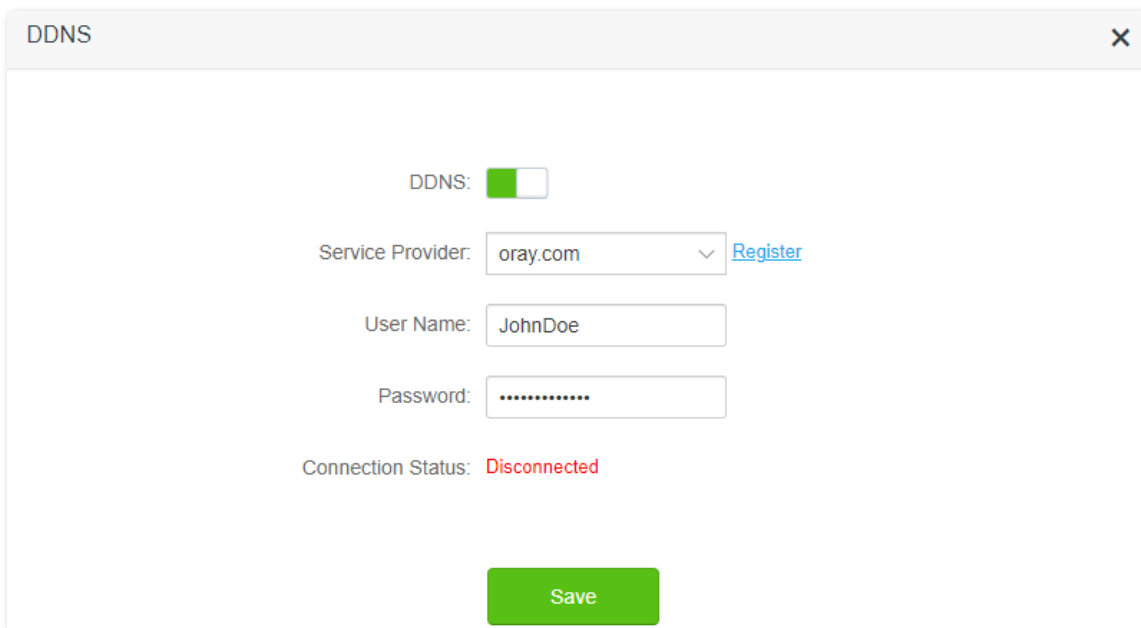
FTP server IP address: 192.168.0.101
MAC address of the host: D4:61:DA:1B:CD:89
Service port: 21

Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Configure the DDNS function.

1. Navigate to **Advanced Settings > DDNS**.
2. Enable the **DDNS**.
3. Select a **Service Provider**, which is **oray.com** in this example.
4. Enter the **User Name** and **Password**, which are **JohnDoe** and **JohnDoe123456** in this example.
5. Click **Save**.



DDNS

DDNS:

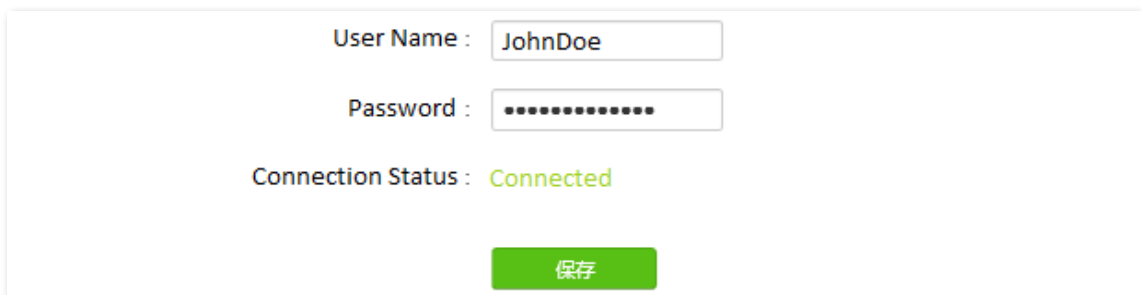
Service Provider: [Register](#)

User Name:

Password:

Connection Status: **Disconnected**

Wait a moment, when the **Connection Status** turns **Connected**, the configurations succeed.



User Name :

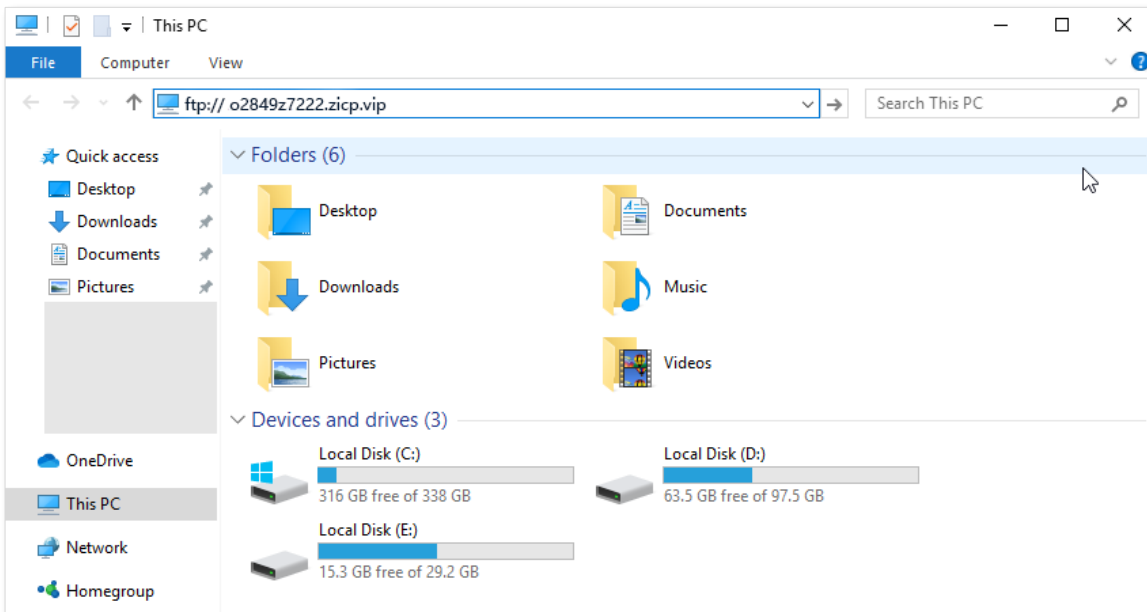
Password :

Connection Status : **Connected**

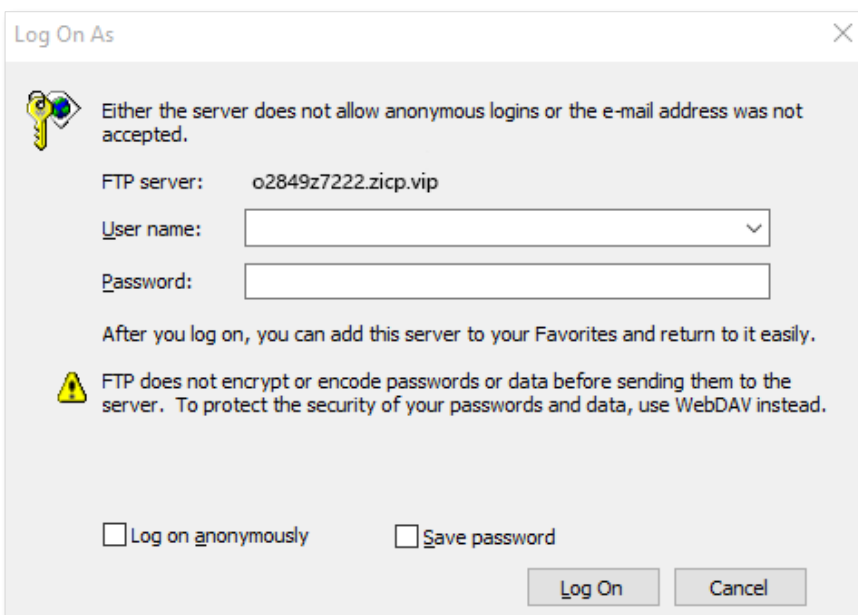
Step 3 Configure the virtual server function (refer to [Virtual server](#))

---End

When configuration is completed, users from the internet can access the FTP server by visiting *"Intranet service application layer protocol name://the domain name"*. If the WAN port number is not the same as the default intranet service port number, the visiting address should be: *"Intranet service application layer protocol name://the domain name:WAN port number"*. In this example, the address is **ftp://o2849z7222.zicp.vip**.



Enter the user name and password to access the resources on the FTP server.



After the configurations, if internet users still cannot access the FTP server, try the following methods:

- Ensure that the LAN port number configured in the virtual server function is the same as the service port number set on the server.
- Close the firewall, antivirus software and security guards on the host of the FTP server and try again.

8.10 Virtual server

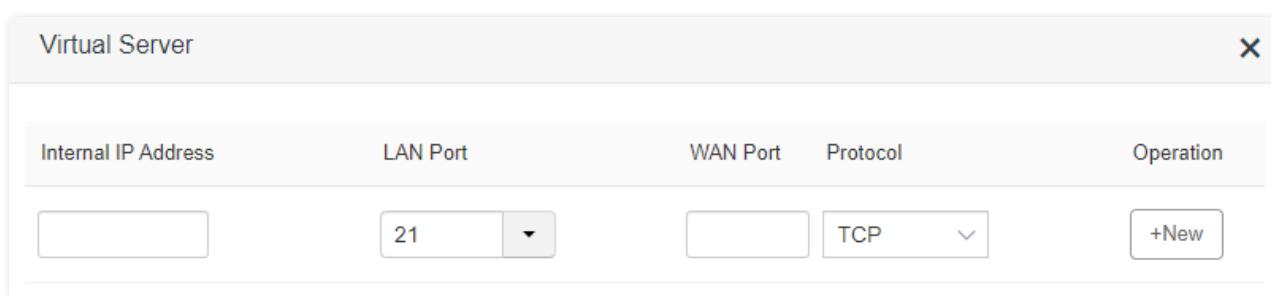
8.10.1 Overview

By default, internet users cannot actively access the LAN of the router.



The virtual server function opens a port of the router and binds the LAN server to the port using the server's IP address and intranet service port. All access requests to the WAN port of the router will be directed to the server. Therefore, the server within the LAN can be accessed by internet users and the LAN can be free from attacks from the internet.

For example, the virtual server function enables internet users to access web servers or FTP servers within the LAN.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > Virtual Server**.



Parameter description

Parameter	Description
Internal IP Address	It specifies the IP address of the server within the LAN of the router.
LAN Port	It specifies the service port number of the server under the LAN of the router. You can either choose a service port number in the drop-down box or enter a service port number manually.
WAN Port	It specifies the port of the router which is opened and accessible to internet users.
Protocol	It specifies the transport layer protocol of the service. If you are not sure about this parameter, TCP&UDP is recommended.
Operation	Available operations include: <ul style="list-style-type: none">• : It is used to add a new virtual server rule.• : It is used to delete existing virtual server rules.

8.10.2 Enable internet users to access LAN resources

Scenario: You have set up an FTP server within your LAN.

Goal: Open the FTP server to internet users and enable family members who are not at home to access the resources of the FTP server from the internet.

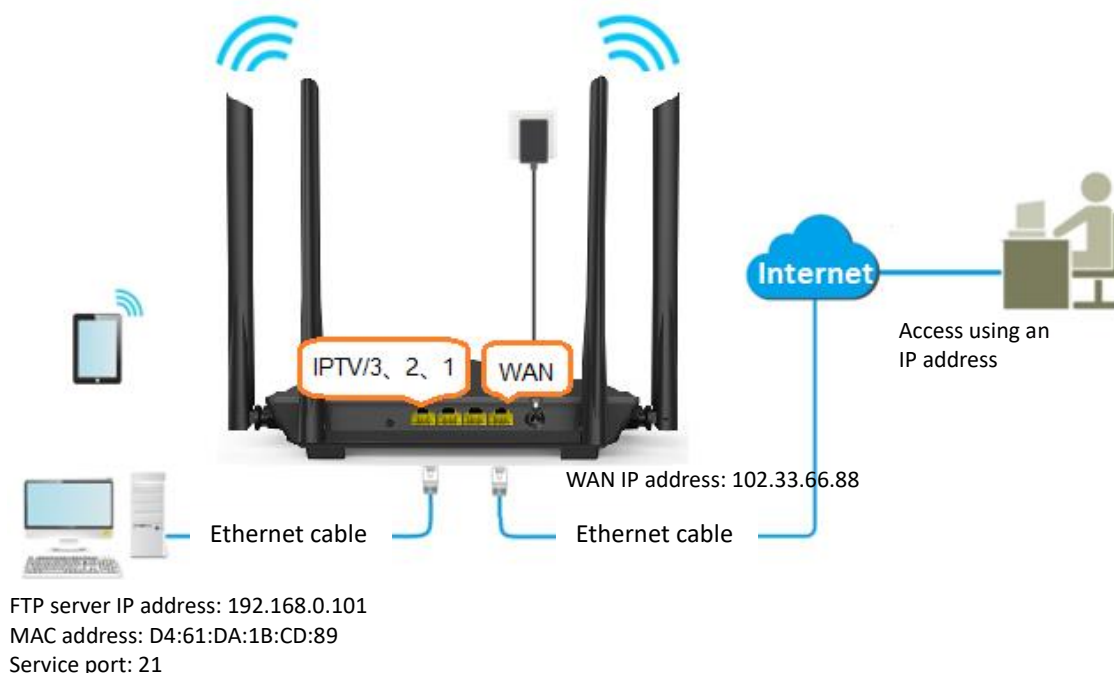
Solution: You can configure the virtual server function to reach the goal.

Assume that the information of the FTP server includes:

- IP address: 192.168.0.101
- MAC address: D4:61:DA:1B:CD:89
- Service port: 21
- The WAN IP address of the router: 102.33.66.88.



- Please ensure that the router obtains an IP address from the public network. This function may not work on a host with an IP address of a private network or an intranet IP address assigned by ISPs that start with 100. Common IPv4 addresses are classified into class A, class B and class C. Private IP addresses of class A range from 10.0.0.0 to 10.255.255.255; Private IP addresses of class B range from 172.16.0.0-172.31.255.255; Private IP addresses of class C range from 192.168.0.0-192.168.255.255.
- ISPs may block unreported web services to be accessed with the default port number 80. Therefore, when the default LAN port number is 80, please change it to an uncommon port number (1024-65535) manually, such as 9999.
- The LAN port number can be different from the WAN port number.



Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Add a virtual server rule.

1. Navigate to **Advanced Settings > Virtual Server.**
2. Enter the **Internal IP Address**, which is **192.168.0.101** in this example.
3. Select a **LAN Port** in the drop-down box, which is **21** in this example.
4. Select a protocol, which is **TCP&UDP** in this example.
5. Click **+New**.

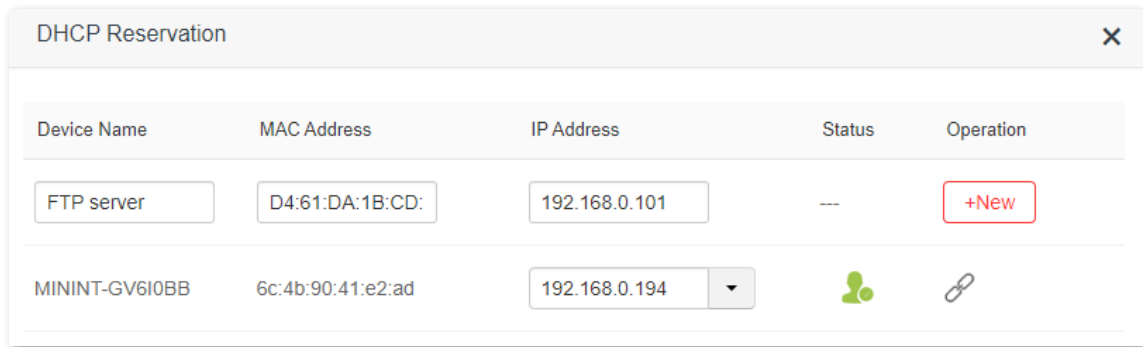
Internal IP Address	LAN Port	WAN Port	Protocol	Operation
<input type="text" value="192.168.0.101"/>	<input type="text" value="21"/> ▼	<input type="text" value="21"/>	<input type="text" value="TCP&UDP"/> ▼	<input type="button" value="+New"/>

Added successfully.

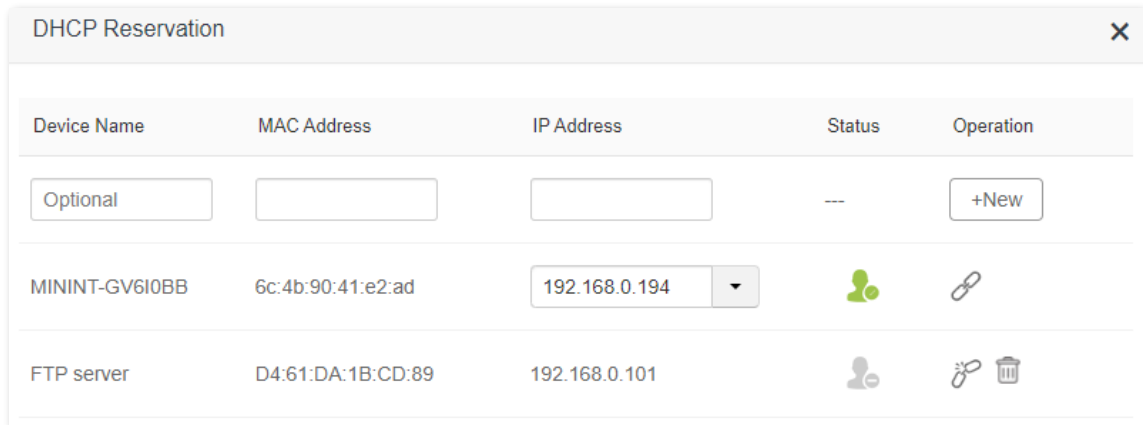
Internal IP Address	LAN Port	WAN Port	Protocol	Operation
<input type="text"/>	<input type="text" value="21"/> ▼	<input type="text"/>	<input type="text" value="TCP&UDP"/> ▼	<input type="button" value="+New"/>
192.168.0.101	21	21	TCP&UDP	

Step 3 Assign a fixed IP address to the host where the server locates.

1. Navigate to **System Settings > DHCP Reservation.**
2. (Optional) Specifies a **Device Name** for the host of the server, which is **FTP server** in this example.
3. Enter the **MAC Address** of the host of the server, which is **D4:61:DA:1B:CD:89** in this example.
4. Enter the **IP Address** of the host of the server, which is **192.168.0.101** in this example.
5. Click **+New**.

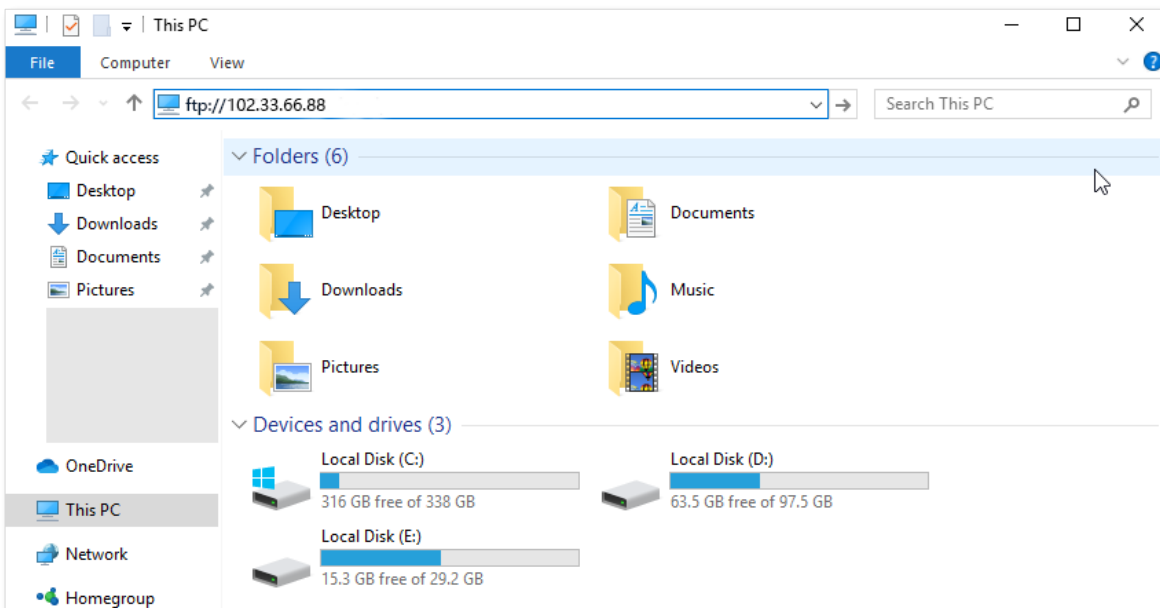


Added successfully. The figure is shown as below.

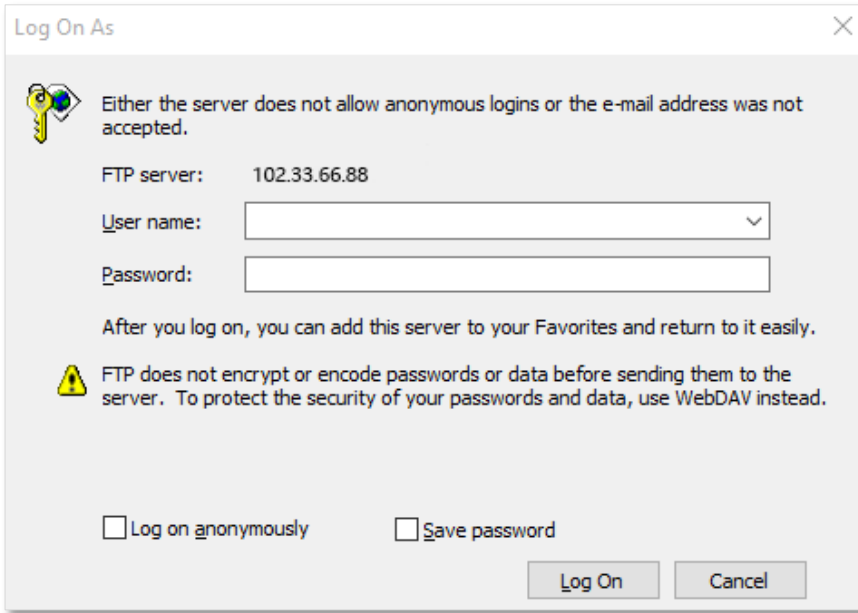


---End

After the configuration is completed, users from the internet can access the FTP server by visiting *"Intranet service application layer protocol name://WAN IP address of the router"*. If the WAN port number is not the same as the default intranet service port number, the visiting address should be: *"Intranet service application layer protocol name://WAN IP address of the router:WAN port number"*. In this example, the address is **"ftp://102.33.66.88"**. You can find the WAN IP address of the router in [WAN status](#).



Enter the user name and password to access the resources on the FTP server.



Log On As


Either the server does not allow anonymous logins or the e-mail address was not accepted.

FTP server: 102.33.66.88

User name:

Password:

After you log on, you can add this server to your Favorites and return to it easily.

 FTP does not encrypt or encode passwords or data before sending them to the server. To protect the security of your passwords and data, use WebDAV instead.

Log on anonymously Save password

If you want to access the server within a LAN using a domain name, refer to the solution [DDNS + Virtual server](#).



After the configurations, if internet users still cannot access the FTP server, try the following methods:

- Ensure that the LAN port number configured in the virtual server function is the same as the service port number set on the server.
 - Close the firewall, antivirus software and security guards on the host of the FTP server and try again.
-

8.11 DMZ host

8.11.1 Overview

A DMZ host on a LAN is free from restrictions in communicating with the internet. It is useful for getting a better and smoother experience in video conferences and online games. You can also set the host of a server within the LAN as a DMZ host when in need of accessing the server from the internet.



- A DMZ host is not protected by the firewall of the router. A hacker may leverage the DMZ host to attack your LAN. Therefore, enable the DMZ function only when necessary.
- Hackers may leverage the DMZ host to attack the local network. Do not use the DMZ host function randomly.
- Security software, antivirus software, and the built-in OS firewall of the computer may cause DMZ function failures. Disable them when using the DMZ function. If the DMZ function is not required, you are recommended to disable it and enable your firewall, security, and antivirus software.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > DMZ Host**.

This function is disabled by default. When it is enabled, the page is shown as below.



Parameter description

Parameter	Description
DMZ Host	It is used to enable or disable the DMZ host function.
DMZ Host IP Address	It specifies the IP address of the host that is to be set as the DMZ host.

8.11.2 Enable internet users to access LAN resources

Scenario: You have set up an FTP server within your LAN.

Goal: Open the FTP server to internet users and enable family members who are not at home to access the resources of the FTP server from the internet.

Solution: You can configure the DMZ host function to reach the goal.

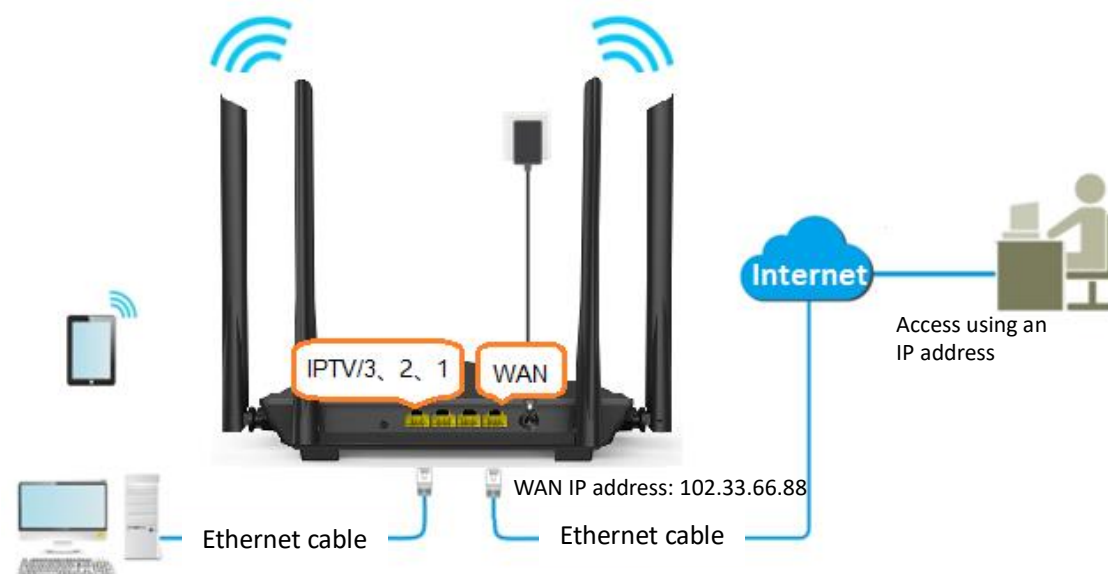
Assume that the information of the FTP server includes:

- IP address: 192.168.0.101
- MAC address: D4:61:DA:1B:CD:89
- Service port: 21
- The WAN IP address of the router: 102.33.66.88.



TIP

Please ensure that the router obtains an IP address from the public network. This function may not work on a host with an IP address of a private network or an intranet IP address assigned by ISPs that start with 100. Common IPv4 addresses are classified into class A, class B and class C. Private IP addresses of class A range from 10.0.0.0 to 10.255.255.255; Private IP addresses of class B range from 172.16.0.0-172.31.255.255; Private IP addresses of class C range from 192.168.0.0-192.168.255.255.



FTP server IP address: 192.168.0.101

MAC address: D4:61:DA:1B:CD:89

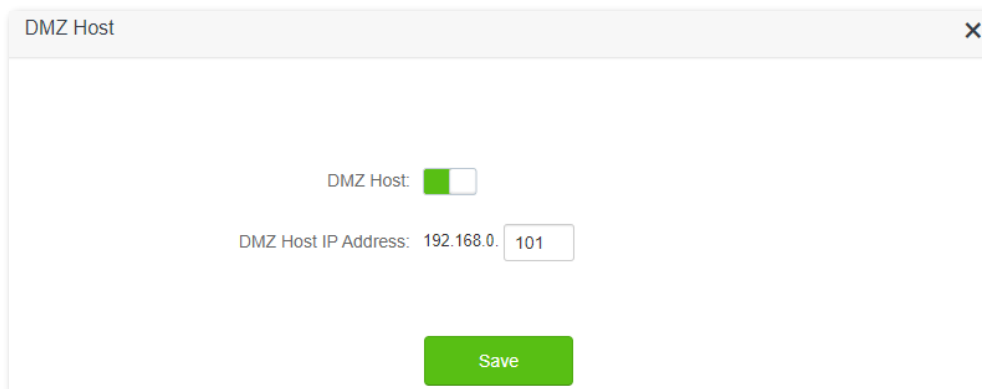
Service port: 21

Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Set the server host as the DMZ host.

1. Navigate to **Advanced Settings > DMZ Host.**
2. Enable the **DMZ Host.**
3. Enter the IP address of the host, which is **192.168.0.101** in this example.
4. Click **Save.**

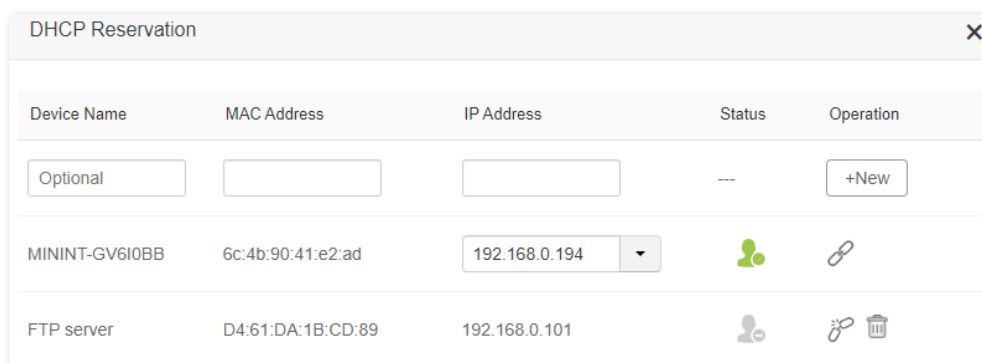


Step 3 Assign a fixed IP address to the host where the server locates.

1. Navigate to **System Settings > DHCP Reservation**.
2. (Optional) Specifies a **Device Name** for the server host, which is **FTP server** in this example.
3. Enter the **MAC Address** of the host of the server, which is **D4:61:DA:1B:CD:89** in this example.
4. Enter the reserved **IP Address** for the server host, which is **192.168.0.101** in this example.
5. Click **+New**.



Added successfully. The figure is shown as below.



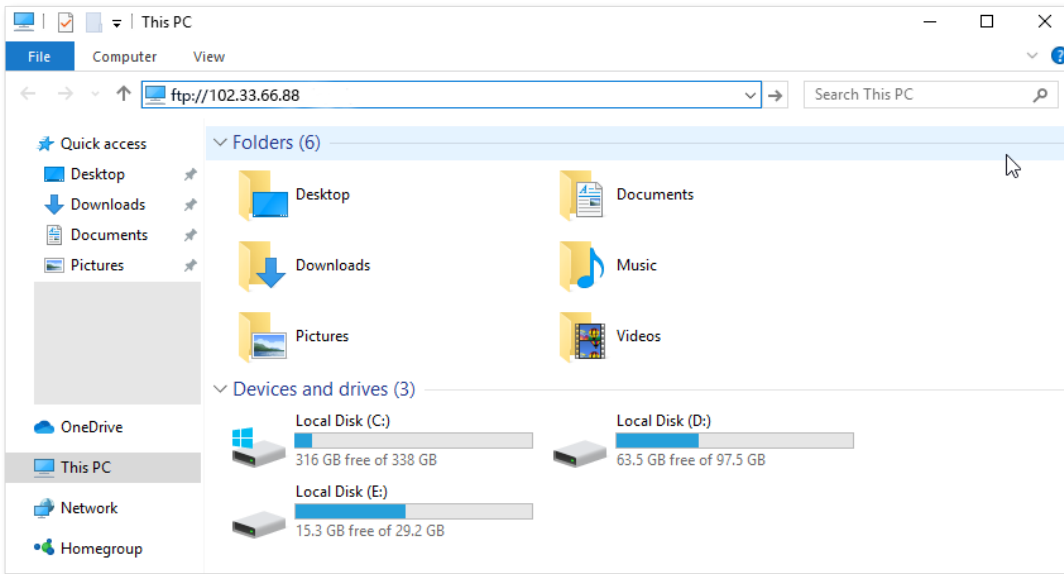
----End

When the configurations are completed, users from the internet can access the DMZ host by visiting *"Intranet service application layer protocol name://WAN IP address of the router"*. If the intranet service port number is not the default number, the visiting address should be: *"Intranet service application layer protocol name://WAN IP address of the router:intranet service port number"*.

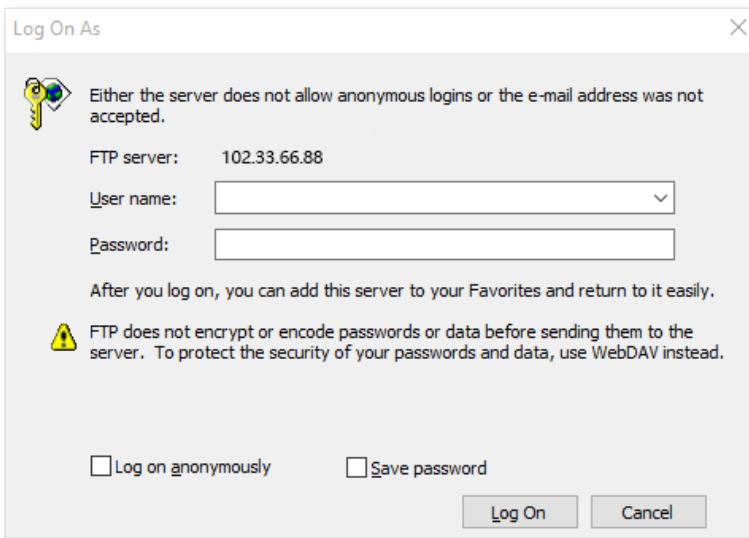
In this example, the address is **"ftp://102.33.66.88"**. You can find the WAN IP address of the router in [WAN status](#).



When the default intranet service port number is 80, please change the service port number to an uncommon one (1024-65535), such as 9999.



Enter the user name and password to access the resources on the FTP server.



If you want to access the server within a LAN using a domain name, refer to the solution [DMZ host](#) + [DDNS](#).



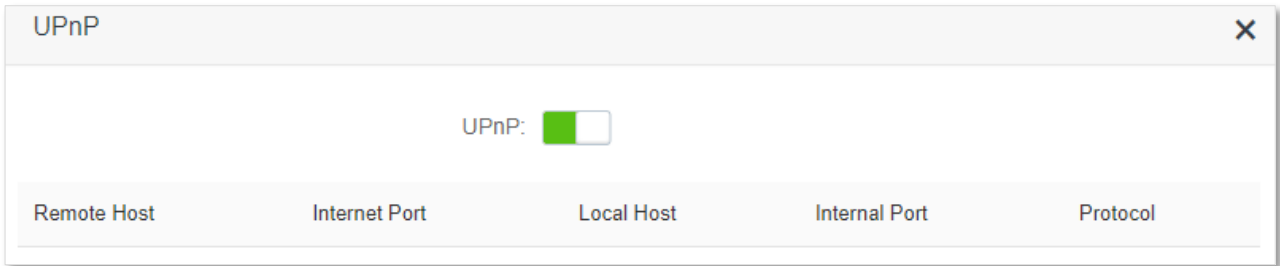
After the configurations, if internet users still cannot access the FTP server, close the firewall, antivirus software and security guards on the host of the FTP server and try again.

8.12 UPnP

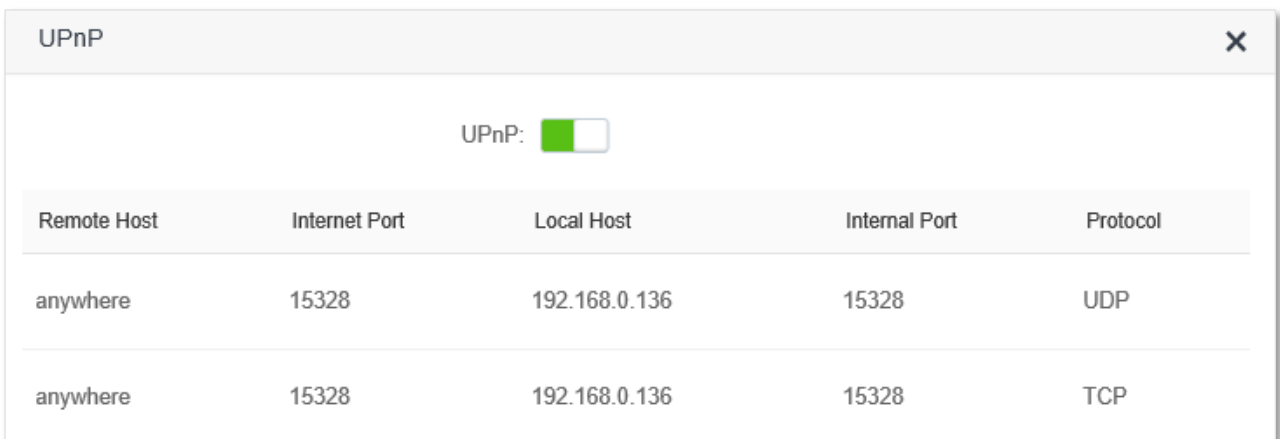
Universal Plug and Play (UPnP). This function enables the router open port automatically for UPnP-based programs. It is generally used for P2P programs, such as BitComet and AnyChat, and helps increase the download speed.

To access the configuration page, [log in to the web UI](#), and navigate to **Advanced Settings > UPnP**.

This function is enabled by default.



When any program that supports the UPnP function is launched, you can find the port conversion information on this page when the program sends any requests.



9

System settings

9.1 LAN settings

9.1.1 Overview

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > LAN Settings**.

On this page, you can:

- **Change the LAN IP address and subnet mask of the router.**
- **Change the DHCP server parameters of the router.**

The DHCP server can automatically assign the IP address, subnet mask, gateway and other information to clients within the LAN. If you disable this function, you need to manually configure the IP address information on the client to access the Internet. Do not disable the DHCP server function unless necessary

- **Configure the DNS information assigned to clients.**

LAN Settings

LAN IP Address:

Subnet Mask:


DHCP Server:

IP Address Range: 192.168.0. ~

Lease Time:

DNS Settings:

Parameter description

Parameter	Description
LAN IP Address	It specifies the LAN IP address of the router, which is also the management IP address for logging in to the web UI of the router.
Subnet Mask	It specifies the subnet mask of the LAN port, used to identify the IP address range of the local area network.
DHCP Server	IP Address Range It specifies the range of IP addresses that can be assigned to devices connected to the router. The default range is 192.168.0.100 to 192.168.0.200.
	Lease Time It specifies the valid duration of the IP address that is assigned to a client. When the lease time reaches half, the client will send a DHCP Request to the DHCP server for renewal. If the renewal succeeds, the lease is renewed based on the time of the renewal application; if the renewal fails, the renewal process is repeated at 7/8 of the lease period. If it succeeds, the lease is renewed based on the time of the renewal application. If it still fails, the client needs to reapply for IP address information after the lease expires. It is recommended to keep the default value.
DNS Settings	Primary DNS Server  TIP It specifies the primary DNS address of the router, which is assigned to the clients. You can change it as required. Make sure that the primary DNS server is the IP address of the correct DNS server or DNS proxy. Otherwise, you may fail to access the internet.
	Secondary DNS Server It specifies the secondary DNS address of the router used to assign to the clients. It is an optional field and is left blank by default.

9.1.2 Modify LAN IP address

The LAN IP address is the LAN port's IP address of this router, it is also the management IP address of the router. The user in the local area network can use this IP address to log in to the web UI of the router. By default, the LAN port's IP address of this router is 192.168.0.1, and the subnet mask is 255.255.255.0.

LAN Settings ✕

LAN IP Address:

Subnet Mask:



In case of IP address conflict, for example, if the WAN port IP obtained by the router and its LAN port IP is in the same network segment, the LAN port IP segment will be automatically incremented by 1, for example, 192.168.0.1 will be changed to 192.168.1.1.

Generally, you do not need to modify the LAN IP address of the router. When there are other network management devices on the LAN, the IP address needs to be set to 192.168.0.X. You can modify the IP address of the LAN port and 192.168.0.X are not in the same network segment.

Assume that you want to modify the router login address to 192.168.0.111 and keep the default subnet mask.

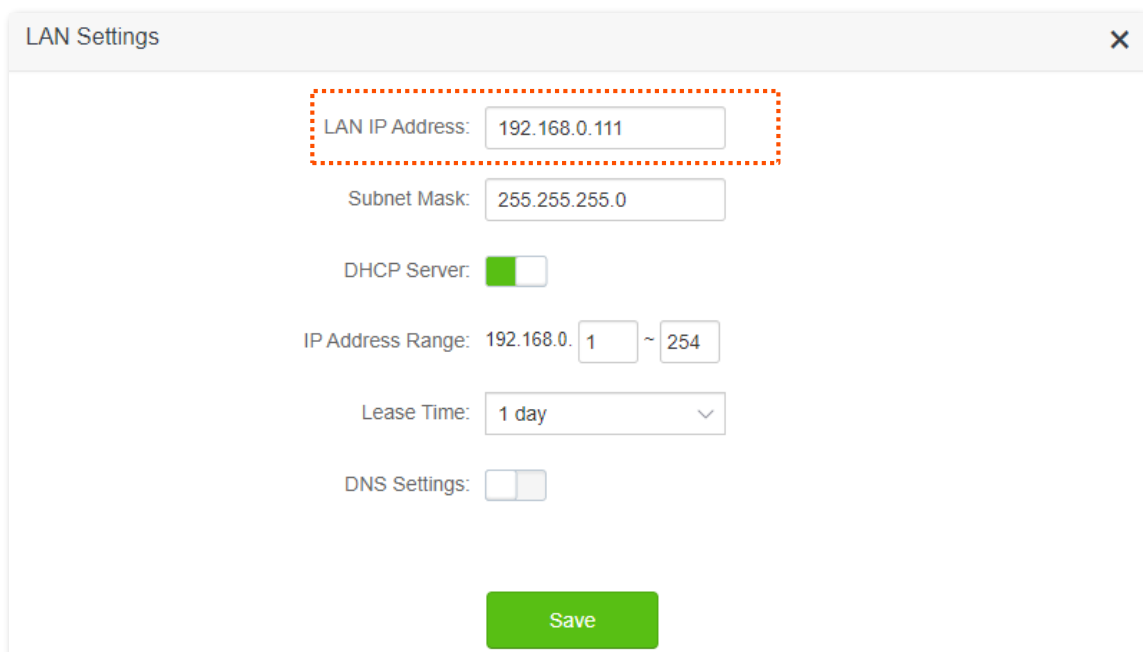
Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Navigate to **System Management > LAN Settings.**

Step 3 Modify the LAN IP address, which is **192.168.0.111** in this example.

Step 4 Click **Save.**



LAN Settings

LAN IP Address: 192.168.0.111

Subnet Mask: 255.255.255.0

DHCP Server:

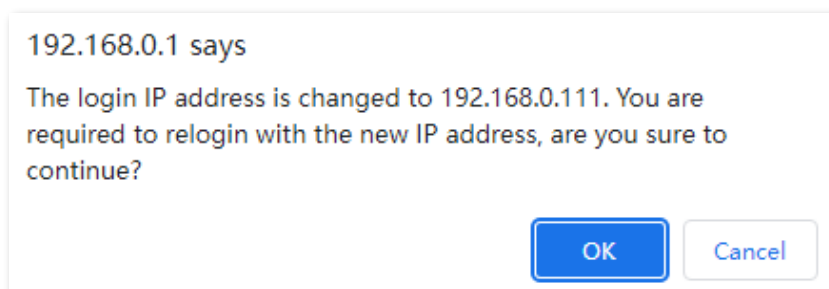
IP Address Range: 192.168.0.1 ~ 254

Lease Time: 1 day

DNS Settings:

Save

Step 5 Click **OK** in the pop-up window.



192.168.0.1 says

The login IP address is changed to 192.168.0.111. You are required to relogin with the new IP address, are you sure to continue?

OK Cancel

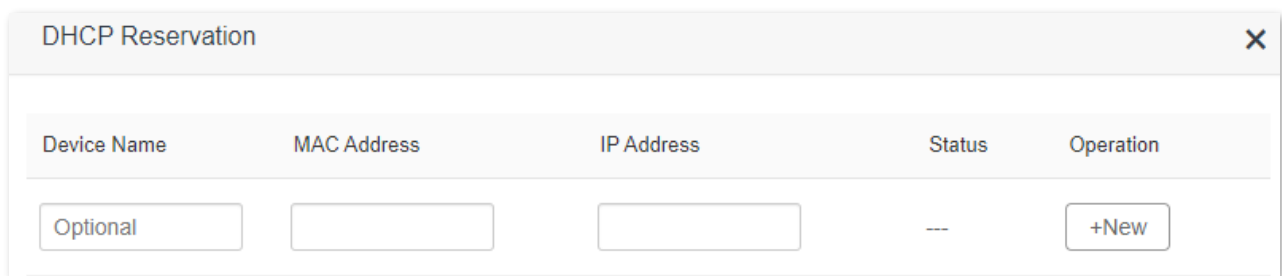
---End

9.2 DHCP reservation

9.2.1 Overview





Through the DHCP reservation function, specified clients can always obtain the same IP address when connecting to the router, ensuring that the router's "Virtual server", "DDNS", "DMZ host" and other functions can function normally. This function takes effect only when the DHCP server function of the router is enabled.

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > DHCP Reservation**.



Device Name	MAC Address	IP Address	Status	Operation
Optional	<input type="text"/>	<input type="text"/>	---	+New

Parameter description

Parameter	Description
Device Name	It specifies the device name of the client.
MAC Address	It specifies the MAC address of the client.
IP Address	It specifies the IP address reserved for the client.
Status	It specifies whether the client is online or not.
Operation	The available options include: <ul style="list-style-type: none">: It is used to add a new DHCP reservation rule.: It is used to bind the MAC address to the reserved IP address.: It is used to unbind the MAC address from the reserved IP address.: It is used to delete the DHCP reservation rule.

9.2.2 Assign static IP addresses to LAN clients

Scenario: You have set up an FTP server within your LAN.

Goal: Assign a fixed IP address to the host of the FTP server and prevent the failure of access to the FTP server owing to the change of IP address.

Solution: You can configure the DHCP reservation function to reach the goal.

Assume that the information of the FTP server includes:

- The fixed IP address for the server: 192.168.0.101
- MAC address of the FTP server host: D4:61:DA:1B:CD:89

Procedure:

Step 1 [Log in to the web UI.](#)

Step 2 Navigate to **System Settings > DHCP Reservation.**

Step 3 (Optional) Enter the **Device Name** for the host, which is **FTP server** in this example.

Step 4 Enter the **MAC Address** of the host, which is **D4:61:DA:1B:CD:89** in this example.

Step 5 Enter the **IP Address** reserved for the host, which is **192.168.0.101** in this example.

Step 6 Click **+New**.

Device Name	MAC Address	IP Address	Status	Operation
FTP server	D4:61:DA:1B:CD:	192.168.0.101	---	+New

---End

After the configuration is completed, the page is shown below and the FTP server host always gets the same IP address when connecting to the router, which is 192.168.0.101 in this example.

Device Name	MAC Address	IP Address	Status	Operation
Optional			---	+New
MININT-GV6I0BB	6c:4b:90:41:e2:ad	192.168.0.194		
FTP server	D4:61:DA:1B:CD:89	192.168.0.101		

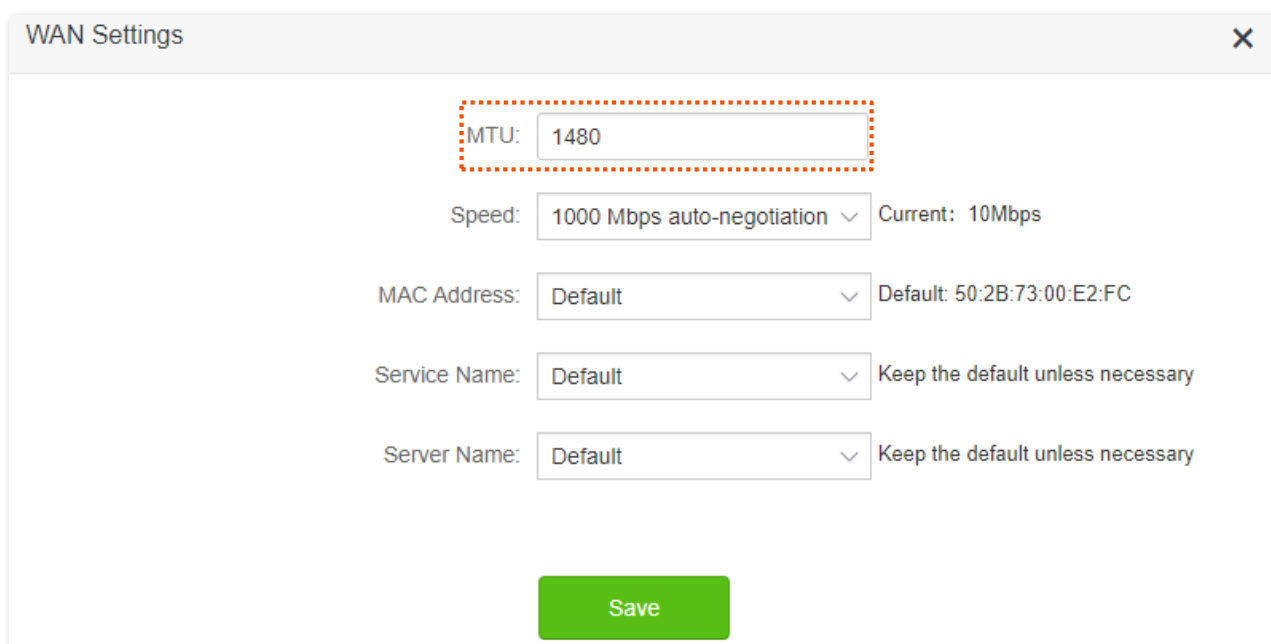
9.3 WAN settings

In the WAN settings module, you can check and modify MTU value, WAN speed, duplex mode, MAC address, service name and server name.

9.3.1 Change MTU value

The Maximum Transmission Unit (MTU) is the largest data packet transmitted by a network device. When the connection type is PPPoE, the default MTU value is 1480. When the connection type is the dynamic IP address or static IP address, the default MTU value is 1500. Do not change the value unless necessary. If you need to, please refer to the following instructions.

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > WAN Settings**.



The screenshot shows the WAN Settings configuration page. The MTU field is highlighted with a red dashed box and contains the value 1480. Other fields include Speed (1000 Mbps auto-negotiation), MAC Address (Default), Service Name (Default), and Server Name (Default). A green Save button is at the bottom.

Generally, the default value is recommended. Try to change the MTU value when:

- You cannot access some specific websites or encrypted websites (such as E-banking or Paypal websites).
- You cannot receive and send Emails or access an FTP or POP server.

You can try reducing the value of MTU gradually from 1500 until the problem is resolved (The recommended range is 1400 to 1500).

MTU application description

MTU	Application
1500	It is commonly used for non-ADSL and non-VPN dial-up connections.
1492, 1480	It is used for ADSL dial-up connections.
1472	It is the maximum value for the ping command. A packet with a larger size is fragmented.
1468	It is used for DHCP connections.

MTU	Application
1436	It is used for VPN or PPTP connections.

9.3.2 Change the WAN speed and duplex mode

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > WAN Settings**.

When the Ethernet cable is intact and connected to the WAN port properly, but **Ethernet cable disconnected** is still shown on the **Internet Settings** page, you can try to change the **Speed** to **10 Mbps FDX** or **10 Mbps HDX** to solve the problem. Otherwise, keep the default settings.

The screenshot shows the WAN Settings configuration interface. The 'Speed' dropdown menu is expanded, highlighting '1000 Mbps auto-negotiation'. Other visible settings include MTU set to 1480, MAC Address set to 50:2B:73:00:E2:FC, and a green 'Save' button at the bottom.

MTU parameter description

MTU	Description
1000 Mbps auto-negotiation	It indicates that the speed and duplex mode are determined through the negotiation with the peer port.
10 Mbps FDX	10 Mbps Full Duplex. It indicates that the WAN port is working at the speed of 10 Mbps, and the port can receive and send data packets at the same time.
10 Mbps HDX	10 Mbps Half Duplex. It indicates that the WAN port is working at the speed of 10 Mbps, but the port can only receive or send data packets alternately.
100 Mbps FDX	100 Mbps Full Duplex. It indicates that the WAN port is working at the speed of 100 Mbps, and the port can receive and send data packets at the same time.
100 Mbps HDX	100 Mbps Half Duplex. It indicates that the WAN port is working at the speed of 100 Mbps, but the port can only receive or send data packets alternately.

9.3.3 Change the MAC address of the WAN port

If you still cannot access the internet after completing [Internet settings](#), it could be the result of the ISP's configuration to bind the internet account information with a fixed MAC address. In this case, you can clone and change the MAC address of the router to solve the problem.

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > WAN Settings**.

The screenshot shows the WAN Settings configuration page. The fields are as follows:

- MTU: 1480
- Speed: 1000 Mbps auto-negotiation (Current: 10Mbps)
- MAC Address: Default (Default: 50:2B:73:00:E2:FC)
- Service Name: Clone local MAC address (Keep the default unless necessary)
- Server Name: Default (Keep the default unless necessary)

A green Save button is located at the bottom of the page.

- **Default:** Keep the factory setting of the MAC address.
- **Clone local MAC address:** Set the MAC address of the router to the same as that of the device which is configuring the router.
- **Set MAC address:** Manually set a MAC address.



Please ensure the cloned MAC address is that of the computer or the router which is already able to access the internet.

Procedure:

Step 1 [Log in to the web UI](#).

Step 2 Navigate to **System Settings > WAN Settings**.

Step 3 Click the drop-down box of **MAC Address**, select **Clone local MAC address**, or **Set MAC address** and enter the desired MAC address.

Step 4 Click **Save**.

---End

9.3.4 Change the service name and server name

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > WAN Settings**.

Only when the connection type is PPPoE, you may need to change the service name and server name of the broadband service.

If you obtain the service name and server name from your ISP when purchasing the broadband service, you can change them on this page after completing the internet settings. Otherwise, keep the default settings.

WAN Settings

MTU:

Speed: Current: 10Mbps

MAC Address: Default: 50:2B:73:00:E2:FC

Service Name: Keep the default unless necessary

Server Name: Keep the default unless necessary

9.4 Time settings

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > Time Settings**.

You can change the time settings on this page. The functioning of functions based on time requires an accurate system time. The system time of the router can be synchronized with the internet or set manually. By default, it is synchronized with the internet.

9.4.1 Sync system time with the internet time

Under this mode, the router will automatically sync its time with the internet time when it is connected to the internet. You can also choose the time zone to be synchronized.

Time Settings ✕

System Time: Sync with internet time Manual

Select Time Zone:

Current Time: 2022-07-15 16:37:14 (synchronized with internet time)

9.4.2 Set the time manually

When the system time is set to **Manual**, you can enter the desired time or sync the system time of the router with the device that is configuring the router. Besides, you need to correct it every time after you reboot the router in order to ensure the accuracy of system time.

Time Settings ✕

System Time: Sync with internet time Manual

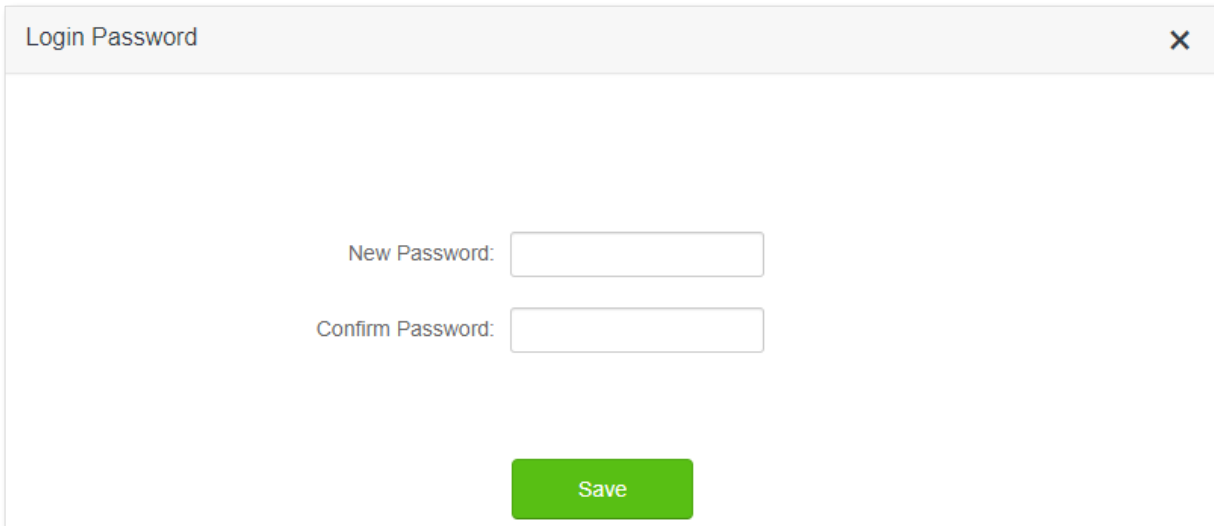
Date & Time Year Month Day hrs min sec

9.5 Login password

To ensure network security, a login password is recommended. A login password consisting of more types of characters, such as uppercase letters and lowercase letters, brings higher security.

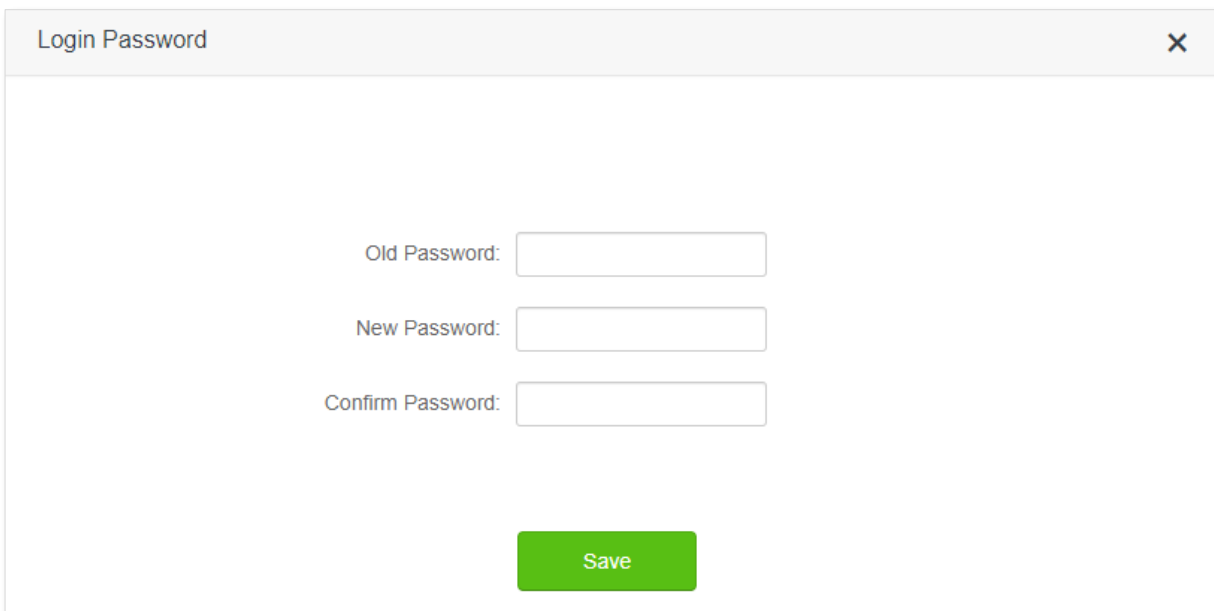
To access the login password configuration page, [log in to the web UI](#), and navigate to **System Settings > Login Password**.

When you use the router for the first time, no password is required to log in to the web UI of the router and you can set a login password on this page.



The screenshot shows a web browser window titled "Login Password" with a close button (X) in the top right corner. The main content area contains two text input fields: "New Password:" and "Confirm Password:". Below these fields is a green "Save" button.

If you have already set a login password, you can change the password on this page and the old password is required.



The screenshot shows a web browser window titled "Login Password" with a close button (X) in the top right corner. The main content area contains three text input fields: "Old Password:", "New Password:", and "Confirm Password:". Below these fields is a green "Save" button.



If you forget your login password and cannot log in to the web UI of the router, refer to [Reset the router](#) to restore the router to factory settings and log in to the web UI without a password.

9.6 Reboot and reset

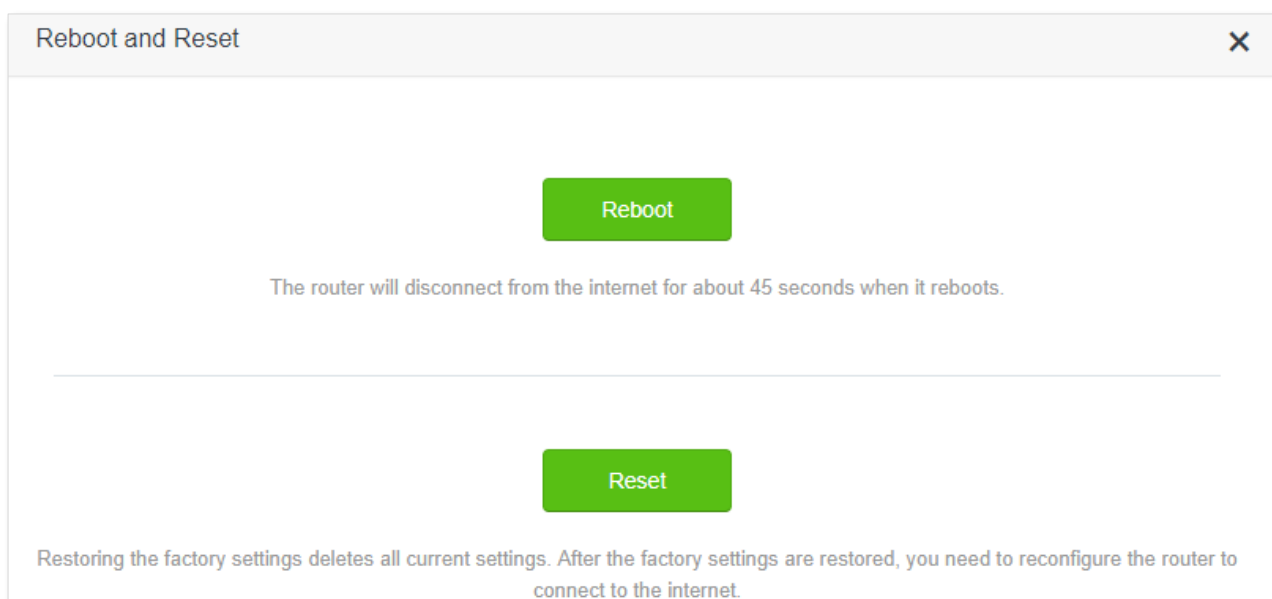
9.6.1 Reboot the router

If any parameter fails to take effect or the router does not work properly, you can try rebooting the router.



Rebooting the router will disconnect all connections to the router. Reboot the router during leisure times.

To reboot the router, [log in to the web UI](#), and navigate to **System Settings > Reboot and Reset**. Click **Reboot** to reboot the router.



Wait for a moment until the ongoing process finishes.

9.6.2 Reset the router

If you are uncertain about why the internet is inaccessible through the router or you forget the login password of the router, you can reset the router.



- Resetting the router is not recommended unless you cannot find a solution for the current problem anyway. You need to reconfigure the router after it is reset.
- Ensure that the power supply of the router is normal when the router is reset. Otherwise, the router could be damaged.
- The default login IP address is 192.168.0.1 after resetting, and no password is required.

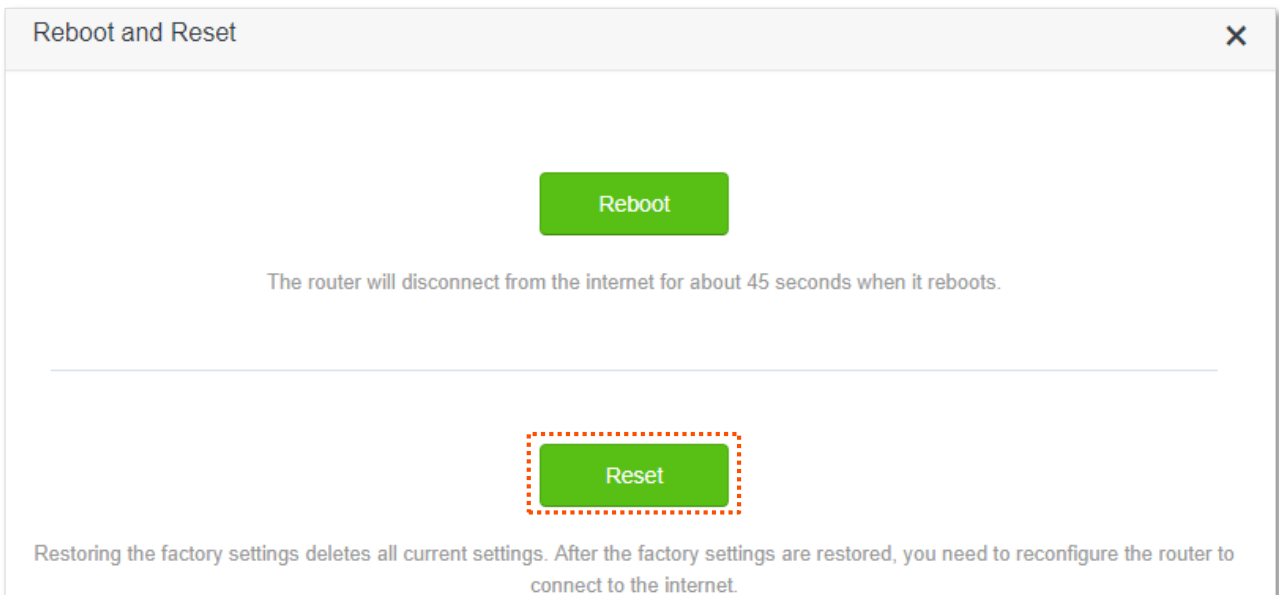
Reset the router using the reset button

When the SYS LED indicator blinks, hold down the button for about 8 seconds, and then release it when all the LED indicators light up. The router is restored to factory settings.



Reset the router on the web UI

To reset the router, [log in to the web UI](#), navigate to **System Settings > Reboot and Reset**, and click **Reset**.



Wait for a moment until the ongoing process finishes.

9.7 Upgrade firmware

This function enables the router to obtain the latest functions and more stable performance. The router supports online firmware upgrade and local firmware upgrade.

9.7.1 Online upgrade

When the router is connected to the internet, it auto-detects whether there is a new firmware and displays the detected information on the page. You can choose whether to upgrade to the latest firmware.

Procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **System Settings > Firmware upgrade.**
- Step 3** Wait until a new firmware version is detected.
- Step 4** Click **Update.**

---End

Wait for a moment until the ongoing process finishes. Log in to the web UI of the router again. Navigate to **System Settings > System Status** and check whether the upgrade is successful based on the **Firmware Version.**



TIP

For better performance of the new firmware of the router, you are recommended to reset the router to factory default settings and re-configure the router when the upgrading is completed.

9.7.2 Local upgrade



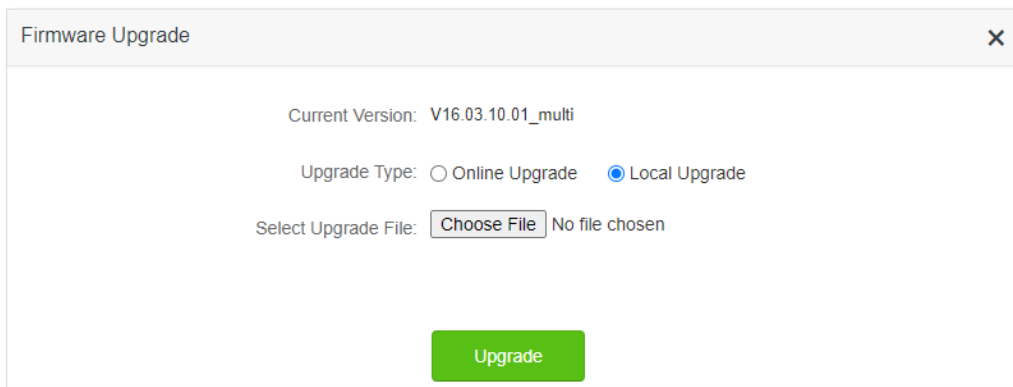
NOTE

To prevent the router from being damaged:

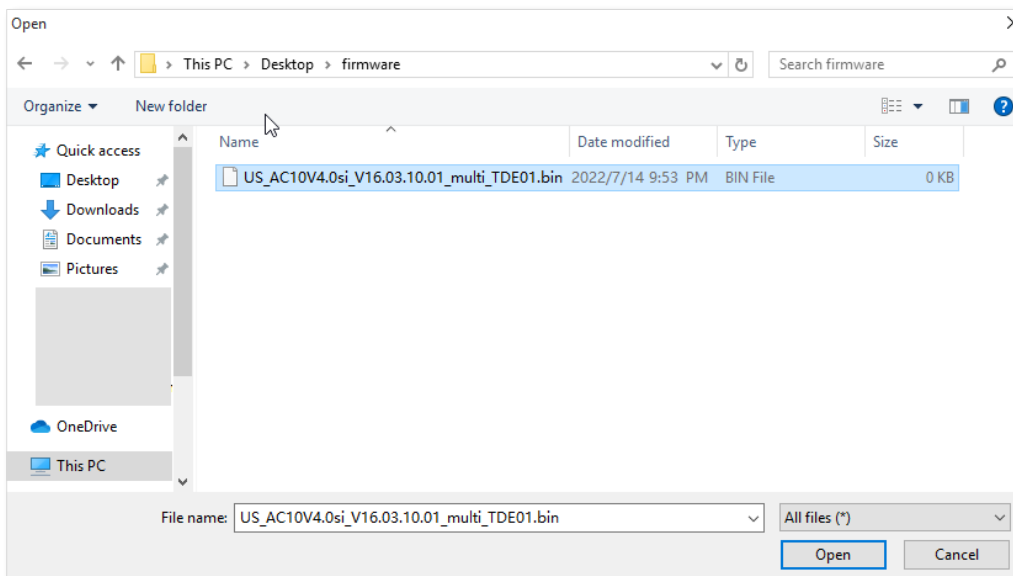
- Ensure that the firmware applies to the router.
- It is recommended to upgrade the firmware by connecting a LAN port to a computer and performing the upgrade on the web UI.
- When you are upgrading the firmware, do not power off the router.

Procedure:

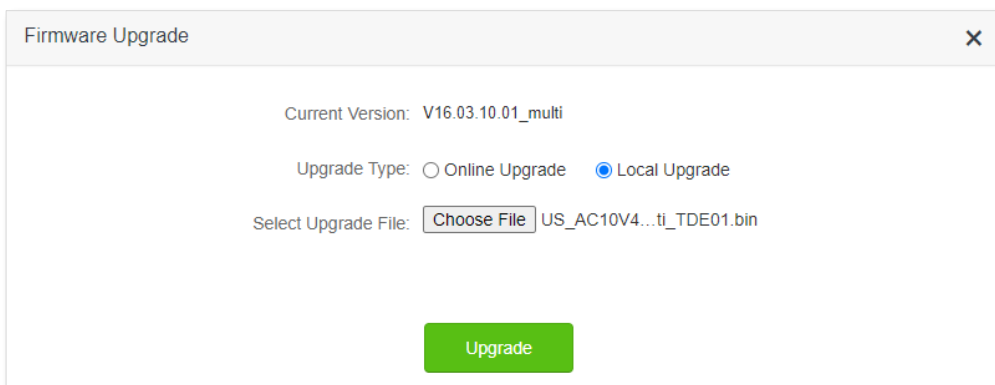
- Step 1** Go to www.tendacn.com. Download an applicable firmware of the router to your local computer and unzip it.
- Step 2** [Log in to the web UI.](#)
- Step 3** Navigate to **System Settings > Firmware Upgrade.**
- Step 4** Select **Local Upgrade.**
- Step 5** Click **Choose File.**



Step 6 Target the firmware file downloaded previously (extension: bin), and click **Open**.



Step 7 Click **Upgrade**.



---End

Wait for a moment until the ongoing process finishes. Log in to the web UI of the router again. Navigate to **System Settings > System Status** and check whether the upgrade is successful based on the **Firmware Version**.



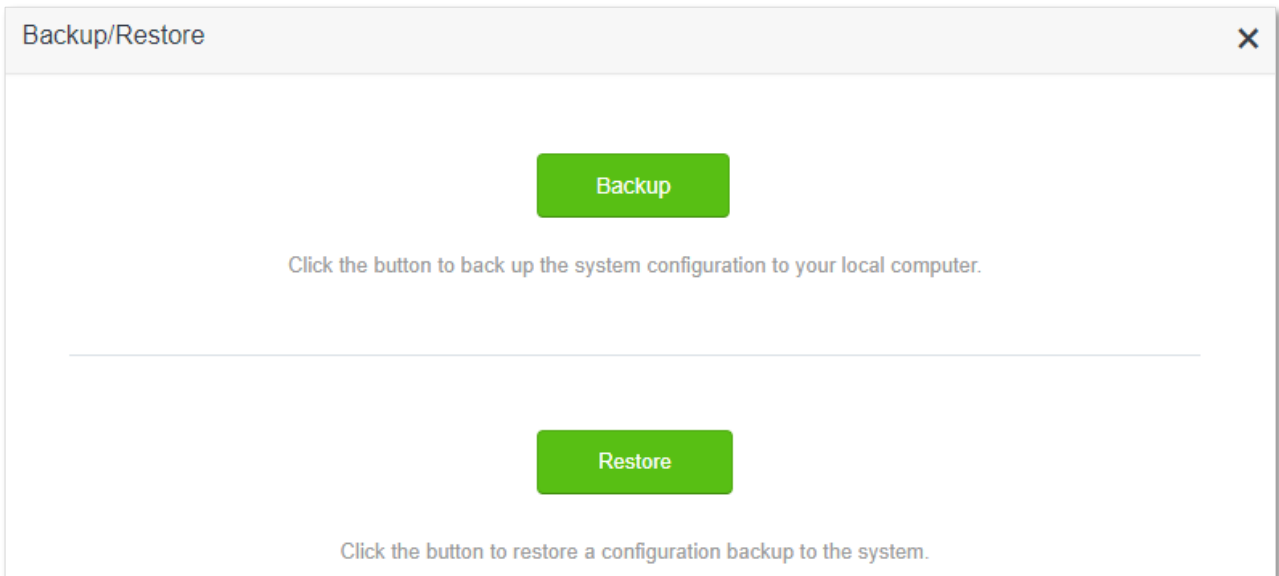
For better performance of the new firmware, you are recommended to reset the router to factory default settings and re-configure the router when the upgrading is completed.

9.8 Backup/Restore

In this module, you can back up the current configurations of the router to your computer. You are recommended to back up the configuration after the settings of the router are significantly changed, or the router works in a good condition.

After you restore the router to factory settings or upgrade it, you can use this function to restore the configurations that have been backed up.

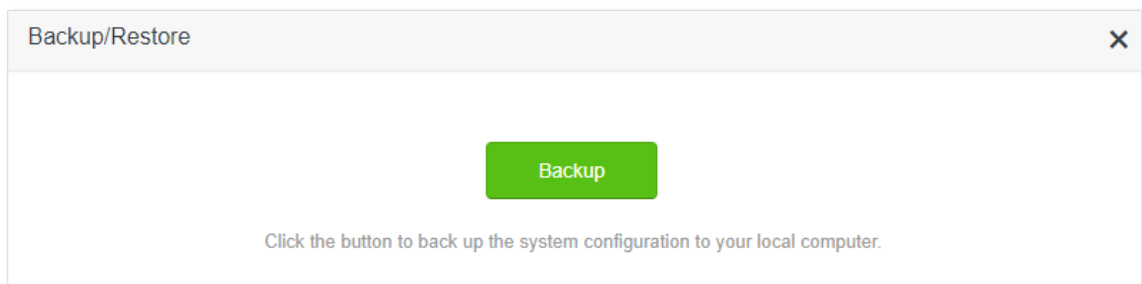
To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > Backup/Restore**.



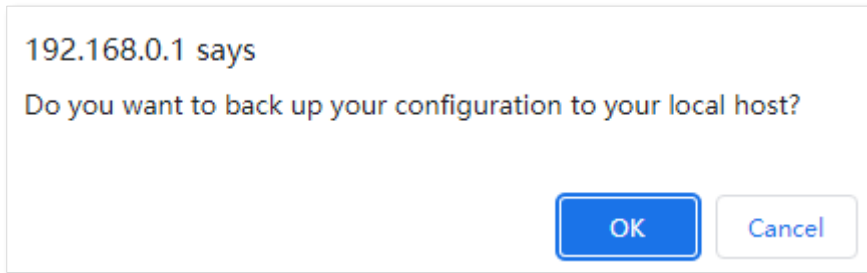
9.8.1 Backup the configurations of the router

Procedure:

- Step 1** [Log in to the web UI](#).
- Step 2** Navigate to **System Settings > Backup/Restore**.
- Step 3** Click **Backup**.



Step 4 Click **OK** in the pop-up window.



---End

A file named **RouterCfm.cfg** will be downloaded to your local host.



If a message like "RouterCfm.cfg is blocked because this type of file may damage your device." appears on the page, select **Keep**.

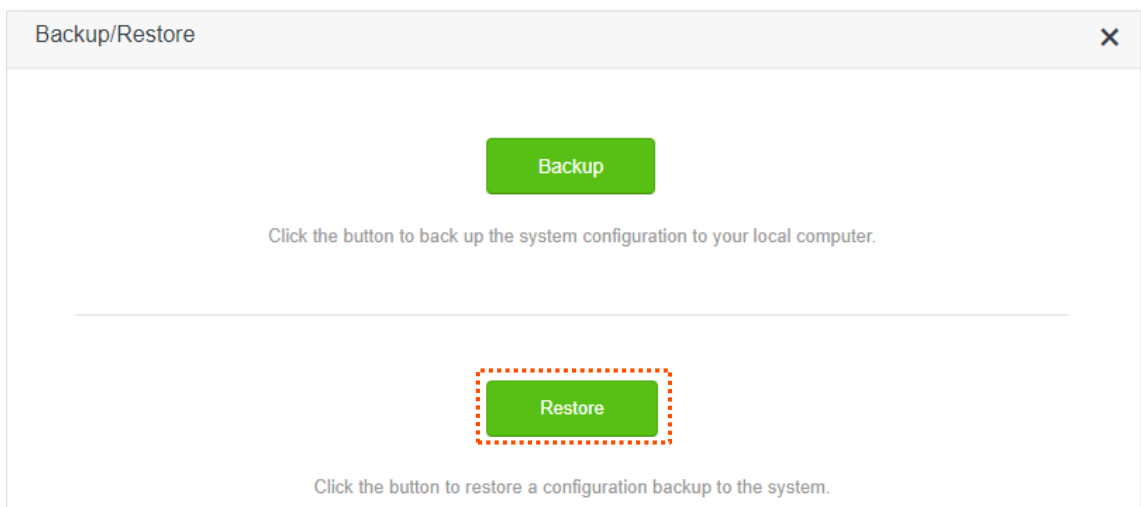
9.8.2 Restore previous configurations of the router

Procedure:

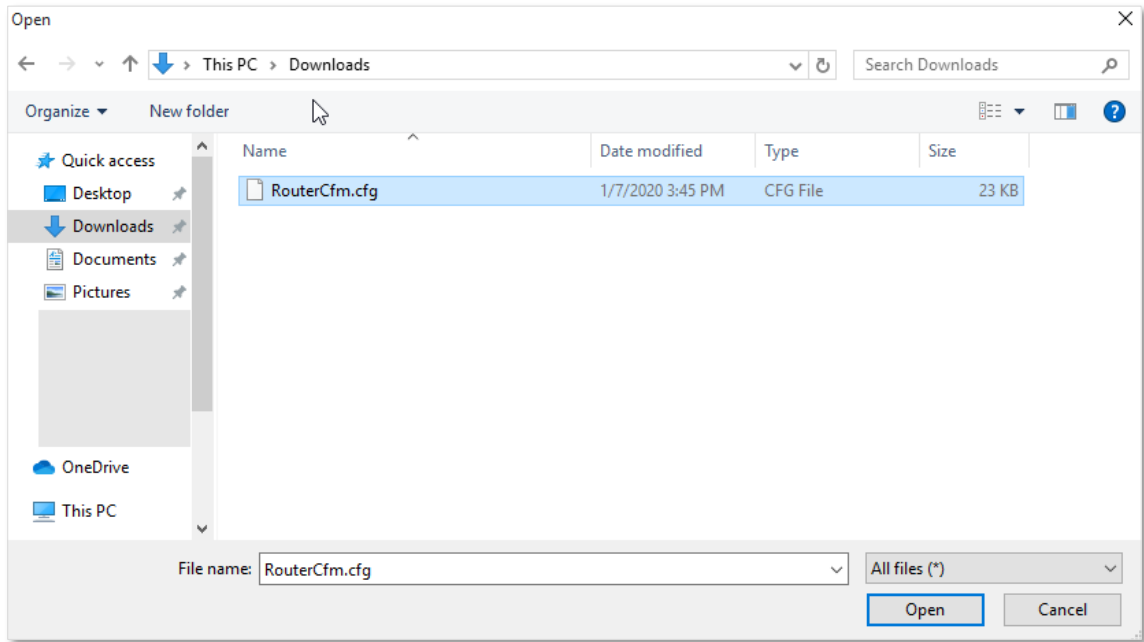
Step 1 [Log in to the web UI.](#)

Step 2 Navigate to **System Settings > Backup/Restore**.

Step 3 Click **Restore**.



Step 4 Select the configuration file to be restored (extension: .cfg), and click **Open**.



---End

Wait for a moment until the ongoing process finishes, and the router restores previous settings.

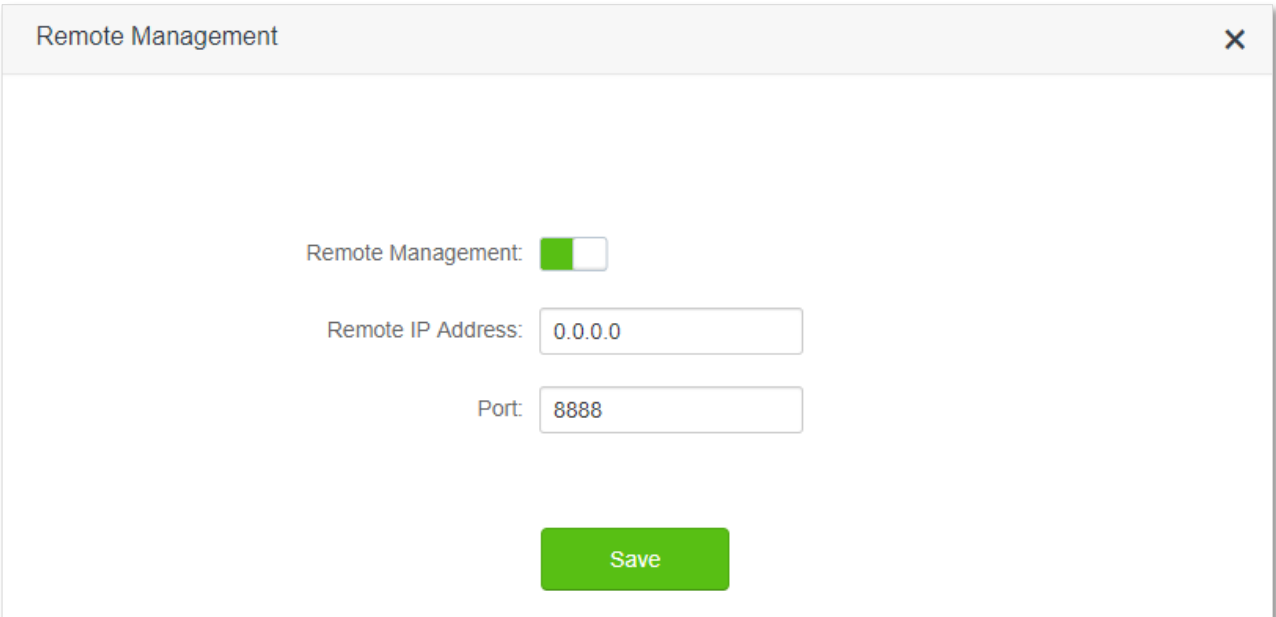
9.9 Remote management

9.9.1 Overview

Generally, the web UI of the router can only be accessed on devices that are connected to the router by a LAN port or wireless connection. When you encounter a network fault, you can ask for remote technical assistance, which improves efficiency and reduces costs and efforts.


To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > Remote Management**.

This function is disabled by default. When it is enabled, the page is shown as below.



Parameter description

Parameter	Description
Remote Management	It is used to enable or disable the remote management function of the router.
Remote IP Address	<p>It specifies the IP address of the host which can access the web UI of the router remotely.</p> <ul style="list-style-type: none">• 0.0.0.0: It indicates that hosts with any IP address from the internet can access the web UI of the router. It is not recommended for security.• Other specified IP address: Only the host with the specified IP address can access the web UI of the router remotely. If the host is under a LAN, ensure that the IP address is the IP address of the gateway of the host (a public IP address).

Parameter	Description
Port	<p>It specifies the port number of the router which is opened for remote management. Change it as required.</p> <p> TIP</p> <ul style="list-style-type: none"> The port number from 1 to 1024 has been occupied by familiar services. It is strongly recommended to enter a port number from 1025 to 65535 to prevent confliction Remote management can be achieved by visiting “http://the WAN IP address of the router:port number”. If the DDNS host function is enabled, the web UI can also be accessed through “http://the domain name of the router’s WAN port:port number”.

9.9.2 Enable Tenda technical support to access and manage the web UI

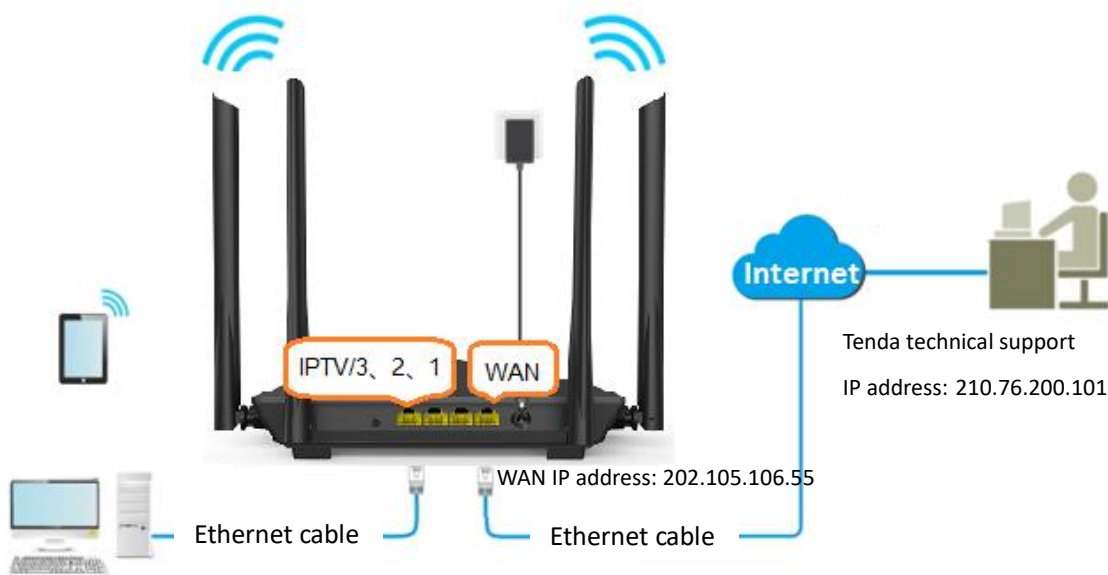
Scenario: You encounter a problem in configuring the router, and the router can access internet access.

Goal: Ask the Tenda technical support to help you configure the router remotely.

Solution: You can configure the remote management function to reach the goal.

Assume that:

- The IP address of Tenda technical support: 210.76.200.101
- The WAN port IP address of the router: 202.105.106.55



Procedure:

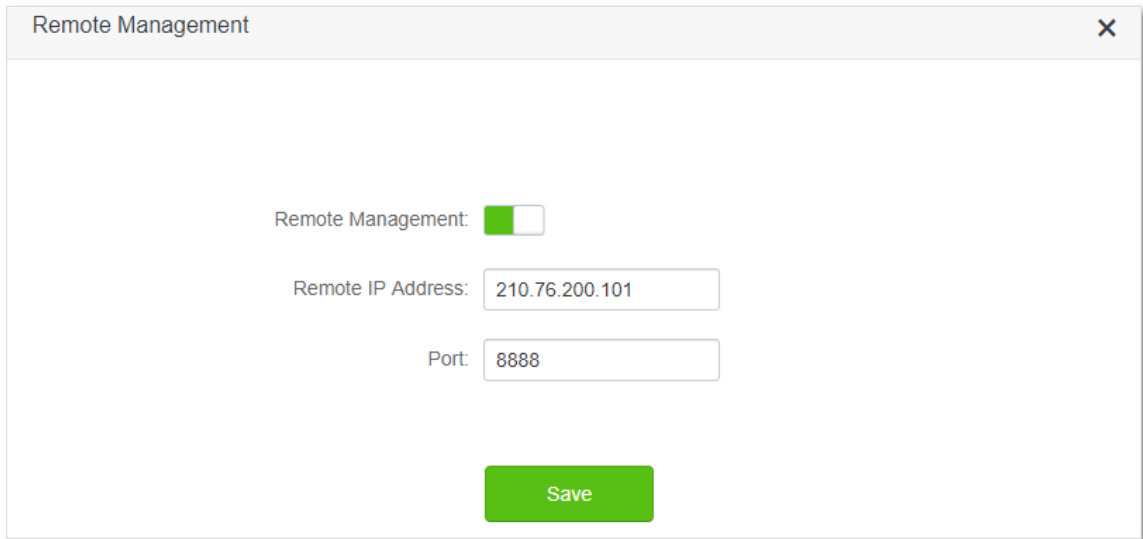
Step 1 [Log in to the web UI.](#)

Step 2 Navigate to **System Settings > Remote Management.**

Step 3 Enable the **Remote Management.**

Step 4 Enter the IP address that is allowed to access the web UI remotely, which is **210.76.200.101** in this example.

Step 5 Click **Save**.



The image shows a window titled "Remote Management" with a close button (X) in the top right corner. Inside the window, there are three configuration fields: "Remote Management" with a green toggle switch, "Remote IP Address" with a text box containing "210.76.200.101", and "Port" with a text box containing "8888". At the bottom center of the window is a green "Save" button.

---End

When the configurations are completed, the Tenda technical support (IP address: 210.76.200.101) can access and manage the web UI of the router by visiting "http://202.105.106.55:8888" on the computer.

9.10 System status

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > System Status**.

On this page, you can find the basic information about the router, WAN status, LAN status, WiFi status and IPv6 status. Refer to [System information](#) for details.

9.11 System log

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > System Log**.

This function logs all key events that occur after the router is started. If you encounter a network fault, you can turn to system logs for fault rectification.

If necessary, you can also export the system logs to your local computer by clicking **Export**.

System Log ✕

Note: If the router is not connected to the internet, the default logging time is 2000-X-X XX:XX:XX.

Number	Time	Type	Log Content
1	2022-07-15 16:57:20	system	WiFi Configuration end
2	2022-07-15 16:57:20	system	5G: enable=1 ssid=Tenda_00E2F0_5G bandwidth=a...
3	2022-07-15 16:57:20	system	2.4G: enable=1 ssid=Tenda_00E2F0 bandwidth=aut...
4	2022-07-15 16:57:20	system	WiFi Configuration Start
5	2022-07-15 16:57:20	system	WiFi Basic Set
6	2022-07-15 16:57:06	system	WiFi Configuration end
7	2022-07-15 16:57:06	system	5G: enable=1 ssid=Tenda_00E2F0 bandwidth=auto c...
8	2022-07-15 16:57:06	system	2.4G: enable=1 ssid=Tenda_00E2F0 bandwidth=aut...
9	2022-07-15 16:57:06	system	WiFi Configuration Start
10	2022-07-15 16:57:06	system	WiFi Basic Set

Export << < > >>



- Reboot the router will clear all previous system logs.
- Operations such as power on the router, firmware upgrade, restore settings, and reset after a power failure will cause the router to reboot.

9.12 Automatic maintenance

Automatic maintenance enables you to make the router restart regularly. It helps improve the stability and service life of the router.

To access the configuration page, [log in to the web UI](#), and navigate to **System Settings > Automatic Maintenance**.

This function is enabled by default.


Automatic Maintenance ✕

System Reboot Schedule:

Reboot At: :

Delay: Delay rebooting the router when it is exchanging data with a device at a speed higher than 3 KB/s.

Parameter description


Parameter	Description
System Reboot Schedule	It is used to enable or disable the automatic reboot function.
Reboot At	It specifies the time when the router reboots automatically every day.
Delay	<p>It is used to enable or disable the delay function.</p> <ul style="list-style-type: none">• Ticked: The function is enabled. When the time for rebooting approaches, if there is any user connected to the router and the traffic over the router's WAN port exceeds 3 KB/s within 30 minutes, the router will delay rebooting. If there is any user connected to the router and the traffic over the WAN port does not exceed 3 KB/s within 30 minutes, or there is no user connected to the router and the traffic over the router's WAN port is slower than 3 KB/s within 3 minutes, the router will reboot automatically.• Unticked: The function is disabled. The router reboots during the sleeping time. <p> TIP</p> <p>When the system reboot schedule function is enabled, the router detects the traffic over the WAN port continuously within 2 hours after the specified reboot time and reboots when the traffic requirement for rebooting is met.</p>

Appendix

A.1 Configuring the computer to obtain an IPv4 address automatically

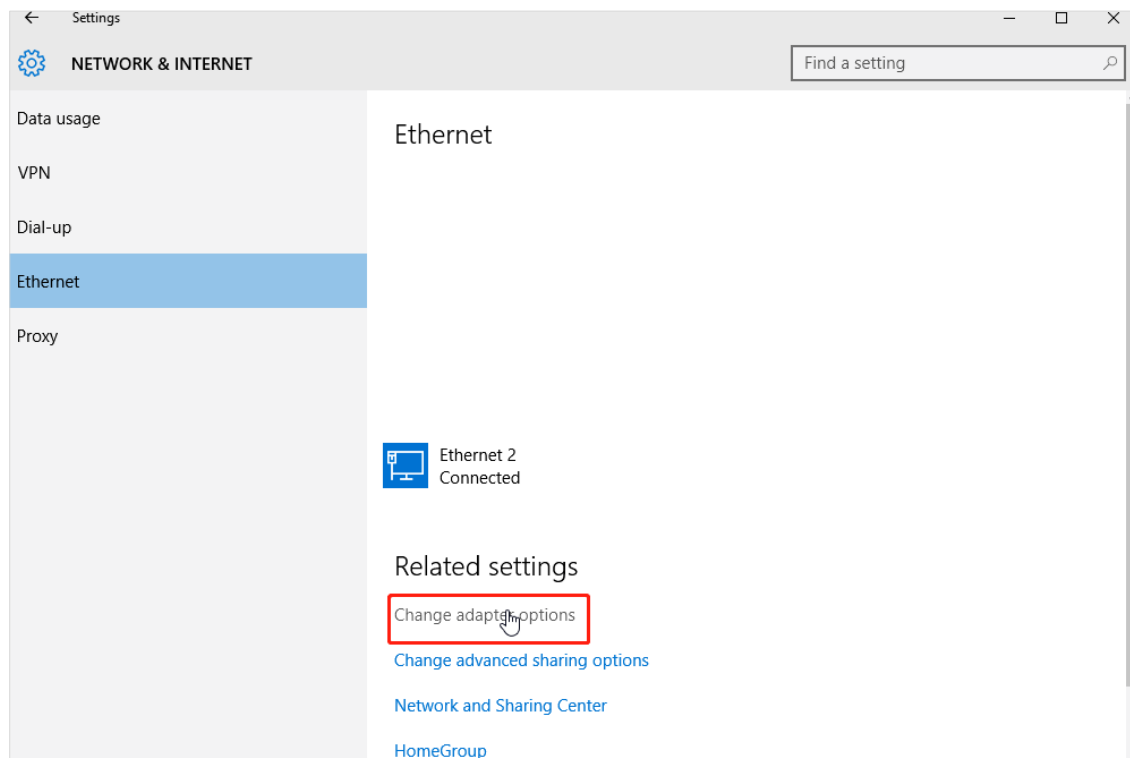
Perform the configuration procedures corresponding to [Windows 10](#), [Windows 8](#) and [Windows 7](#) as required. A computer installed with a wired network adapter is used as an example to describe the procedures. The procedures for configuring computers installed with a WiFi network adapter are similar.

A.1.1 Windows 10

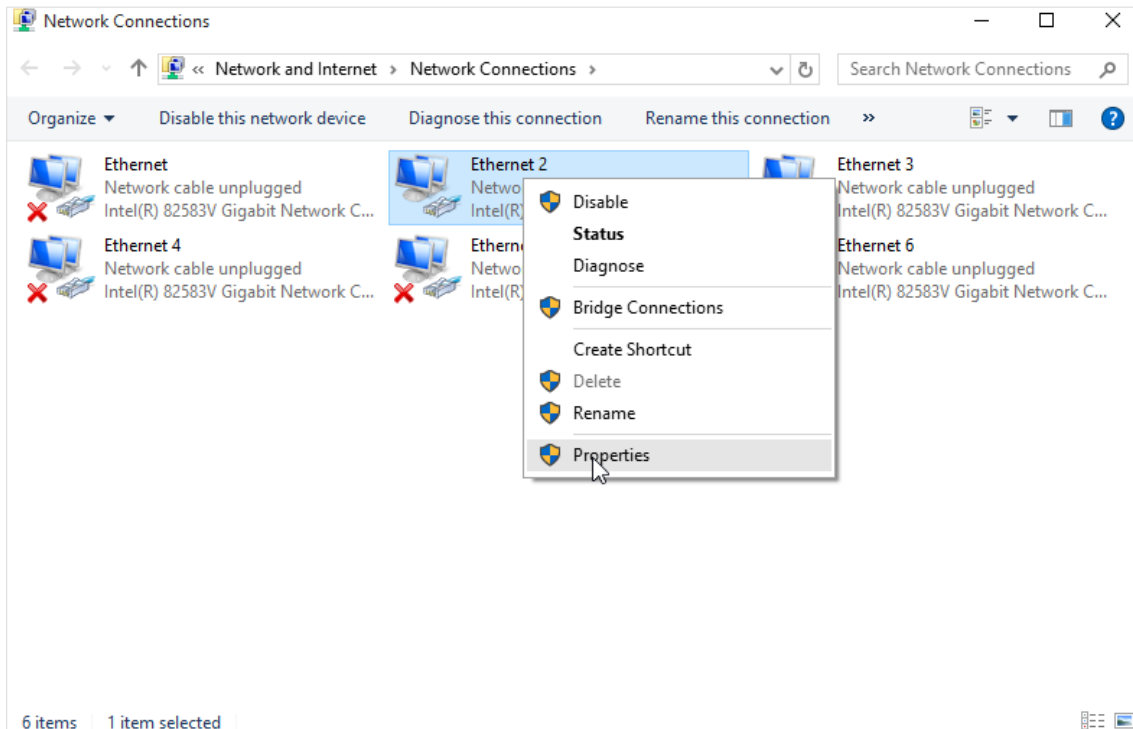
Step 1 Click  in the bottom right corner of the desktop and choose **Network settings**.



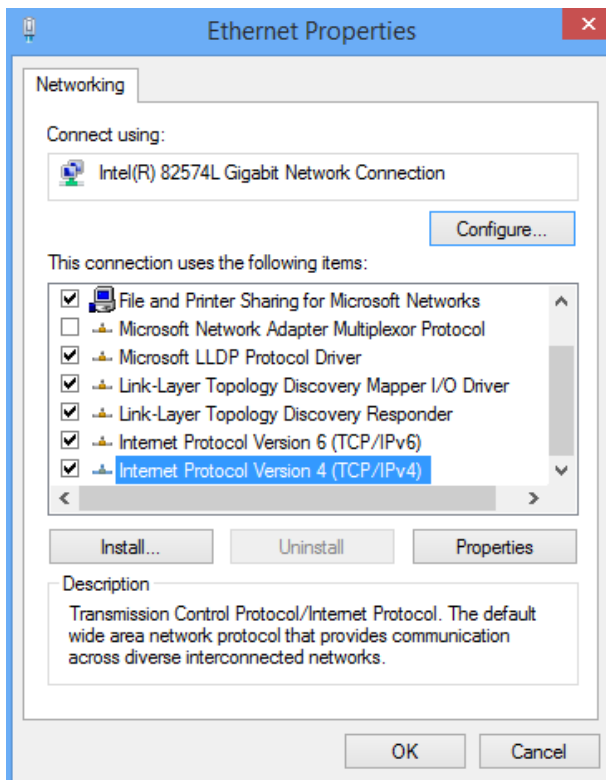
Step 2 Click **Change adapter options**.



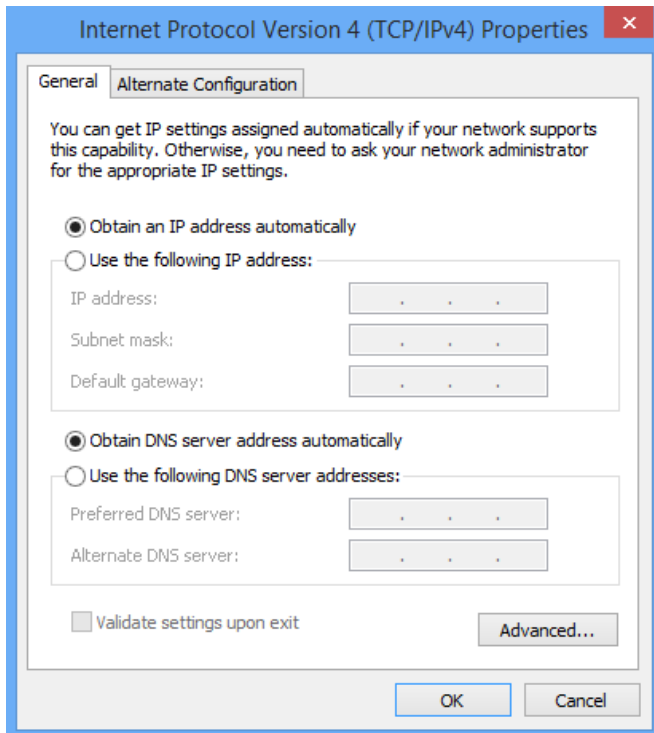
Step 3 Right-click on the connection which is being connected, and then click **Properties**.



Step 4 Double-click **Internet Protocol Version 4 (TCP/IPv4)**.




Step 5 Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, and click **OK**.

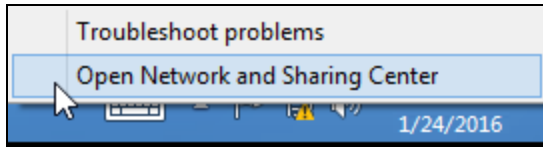


Step 6 Click **OK** in the **Ethernet Properties** window.

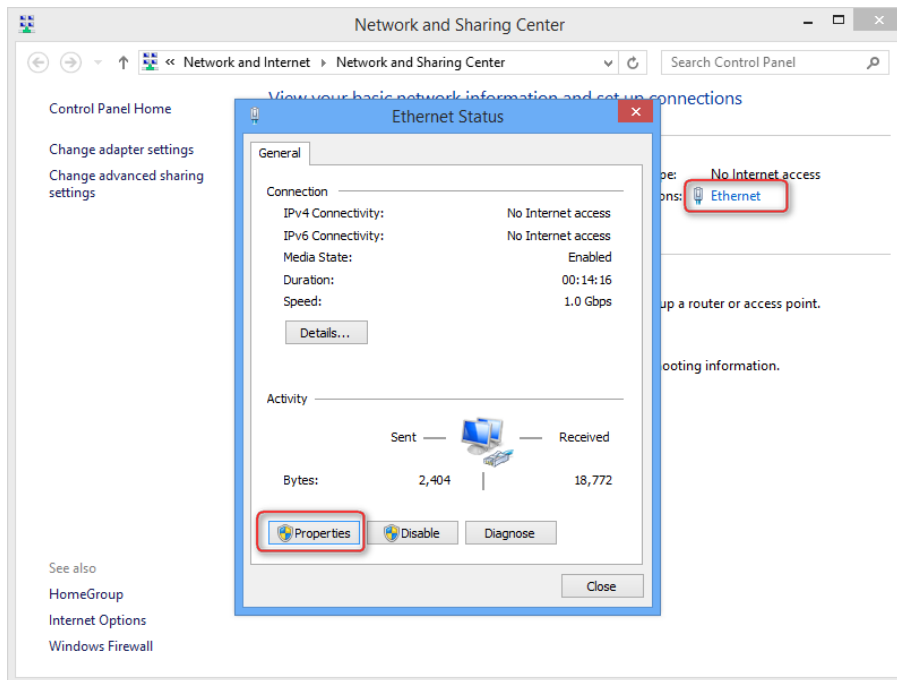
---End

A.1.2 Windows 8

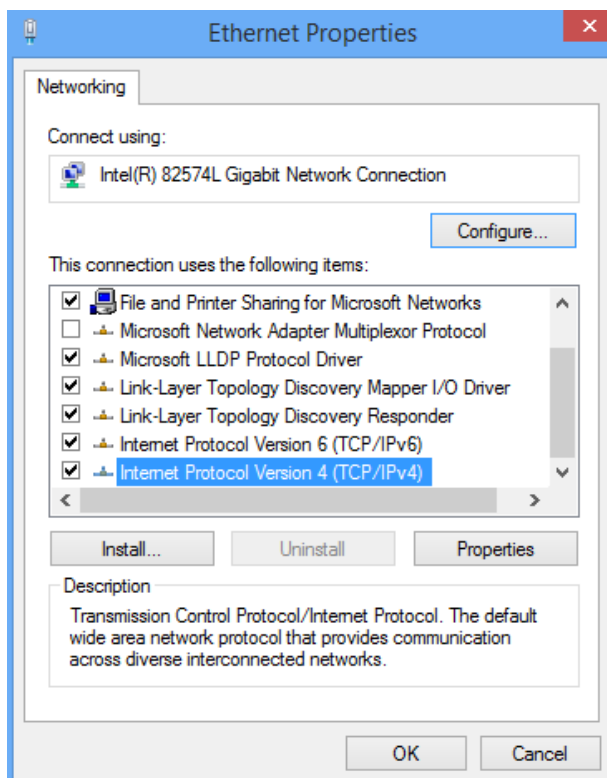
Step 1 Right-click  in the bottom right corner of the desktop and choose **Open Network and Sharing Center**.



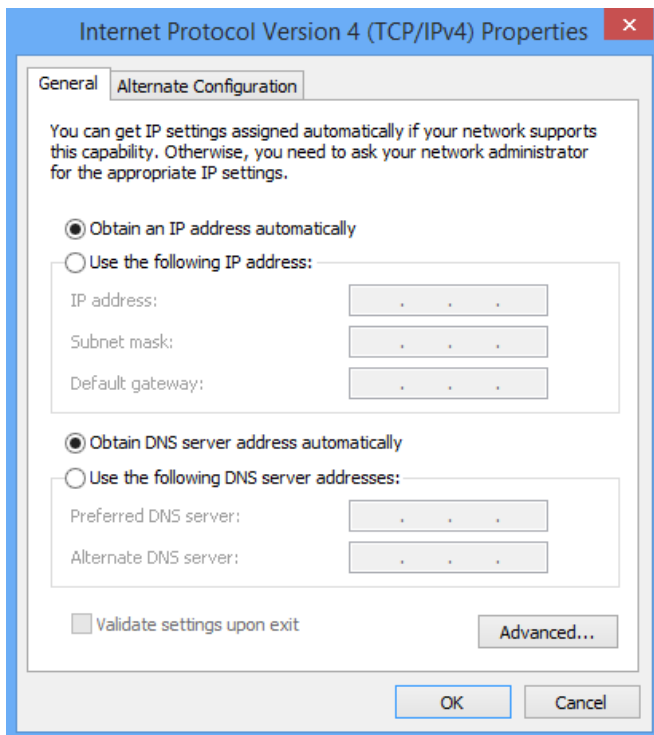
Step 2 Click **Ethernet** and then **Properties**.



Step 3 Double-click **Internet Protocol Version 4 (TCP/IPv4)**.




Step 4 Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, and click **OK**.

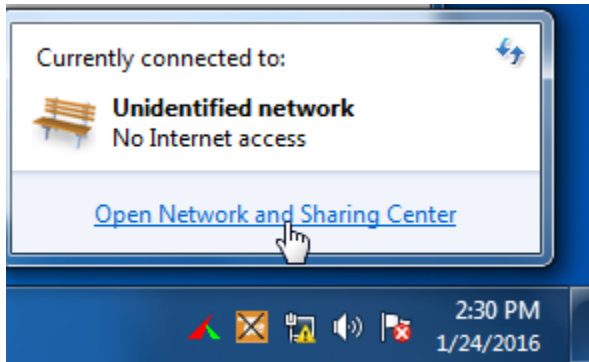


Step 5 Click **OK** in the **Ethernet Properties** window.

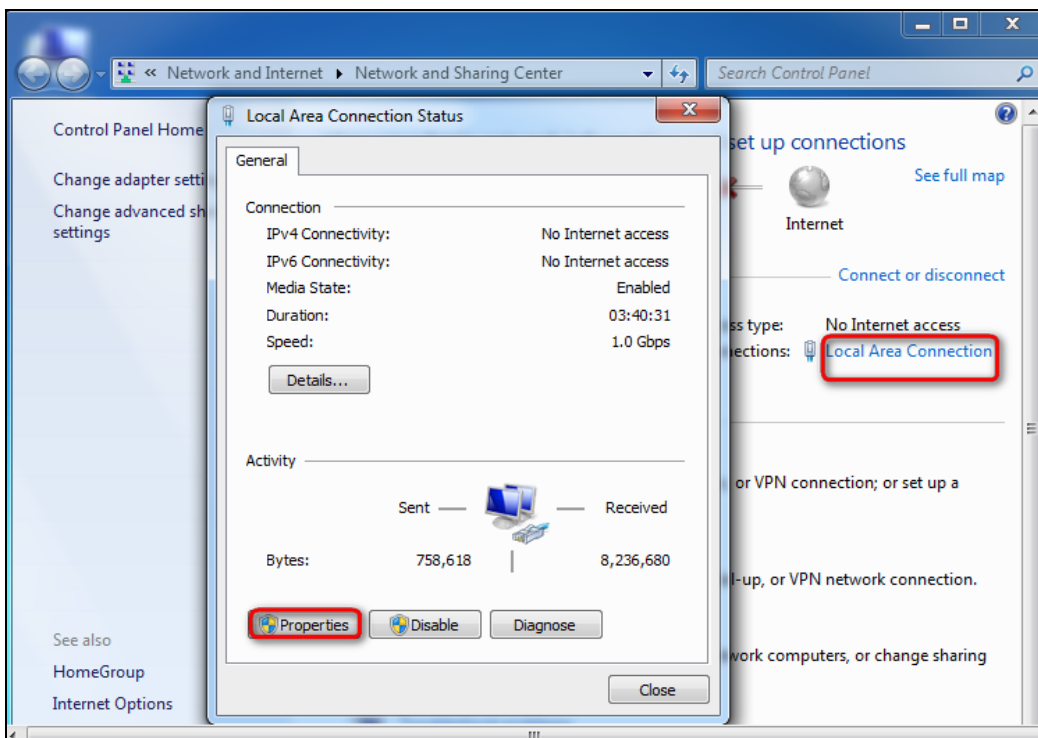
---End

A.1.3 Windows 7

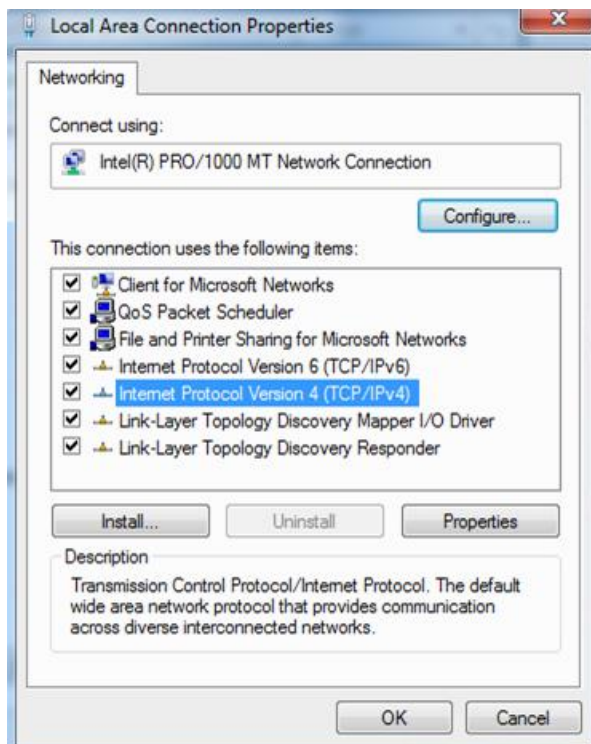
Step 1 Click  in the bottom right corner of the desktop and choose **Open Network and Sharing Center**.



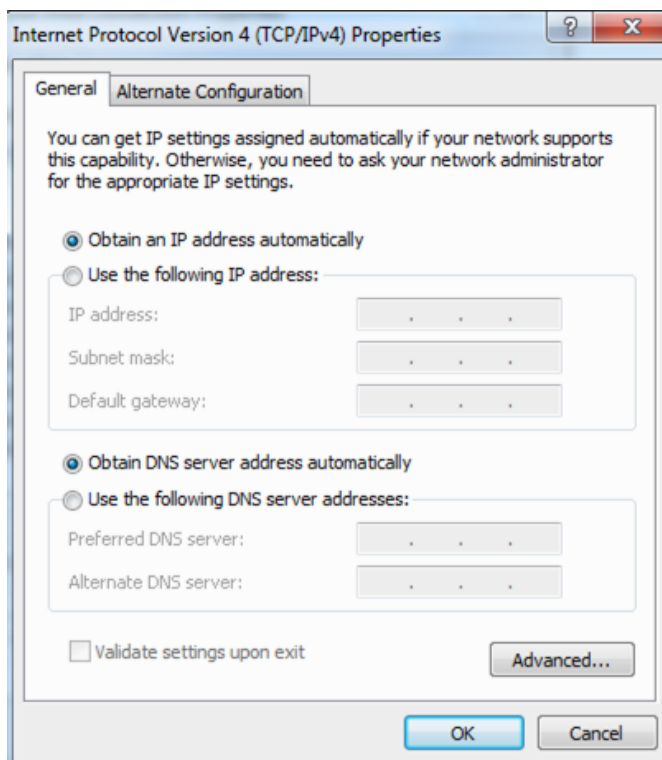
Step 2 Click **Local Area Connection** and then **Properties**.



Step 3 Double-click **Internet Protocol Version 4 (TCP/IPv4)**.



Step 4 Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, and click **OK**.



Step 5 Click **OK** in the **Local Area Connection Properties** window.

---End

A.2 Acronyms and Abbreviations

Acronym or Abbreviation	Full Spelling
AES	Advanced Encryption Standard
AP	Access Point
DDNS	Dynamic Domain Name System
DHCP	Dynamic Host Configuration Protocol
DHCPv6	Dynamic Host Configuration Protocol for IPv6
DMZ	Demilitarized Zone
DNS	Domain Name System
GMT	Greenwich Mean Time
ICMP	Internet Control Message Protocol
IP	Internet Protocol
IPTV	Internet Protocol Television
IPv4	Internet Protocol Version 4
IPv6	Internet Protocol Version 6
ISP	Internet Service Provider
LAN	Local Area Network
MAC	Medium Access Control
MIMO	Multiple Input Multiple Output
MTU	Maximum Transmission Unit
PPPoE	Point-to-Point Protocol over Ethernet
PPTP	Point to Point Tunneling Protocol
SSID	Service Set Identifier
TCP	Transmission Control Protocol
UDP	User Datagram Protocol
UPnP	Universal Plug and Play
WAN	Wide Area Network
WISP	Wireless Internet Service Provider
WPA-PSK	WPA-Preshared Key