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Tenda



AC1200 Dual-band Wi-Fi 4G+ LTE Router

User Guide

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Preface

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

Conventions

This user guide is applicable to 4G09. The contained images and UI screenshots are subject to the actual products.

Product model	Description
4G09	AC1200 Dual-band Wi-Fi 4G+ LTE Router

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
	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 device.
	This format is used to highlight a procedure that will save time or resources.

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



Email

support@tenda.cn

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

Hong Kong: 00852-81931998

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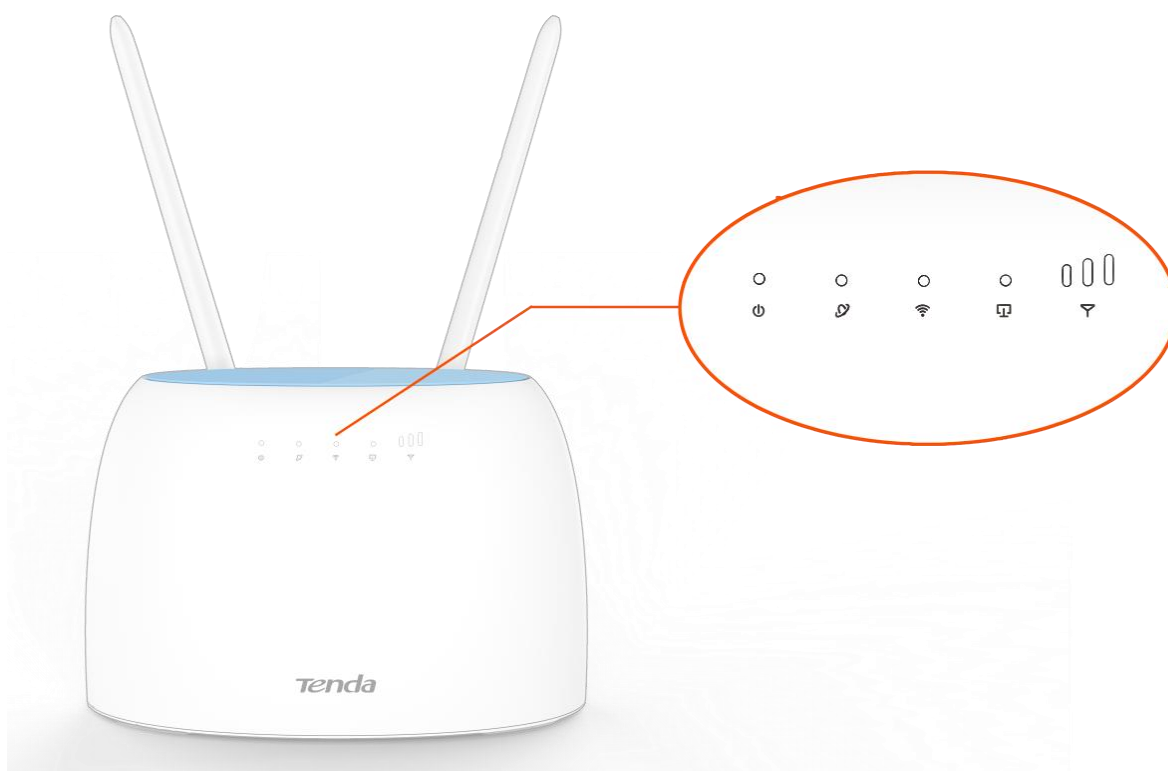
1

Get to know your device

1.1 Introduction

The AC1200 Dual-band Wi-Fi 4G+ LTE Router, powered by 4G+ CAT6 technology, works at both 2.4 GHz and 5 GHz and supports a much higher broadband access of 300 Mbps. It supports instant internet access with a Mini SIM card and simultaneous communication with multiple devices. The MU-MIMO and Beamforming technologies enable the router to provide a wider coverage and a higher capacity, and the full GE ports ensure a fast and reliable internet access.

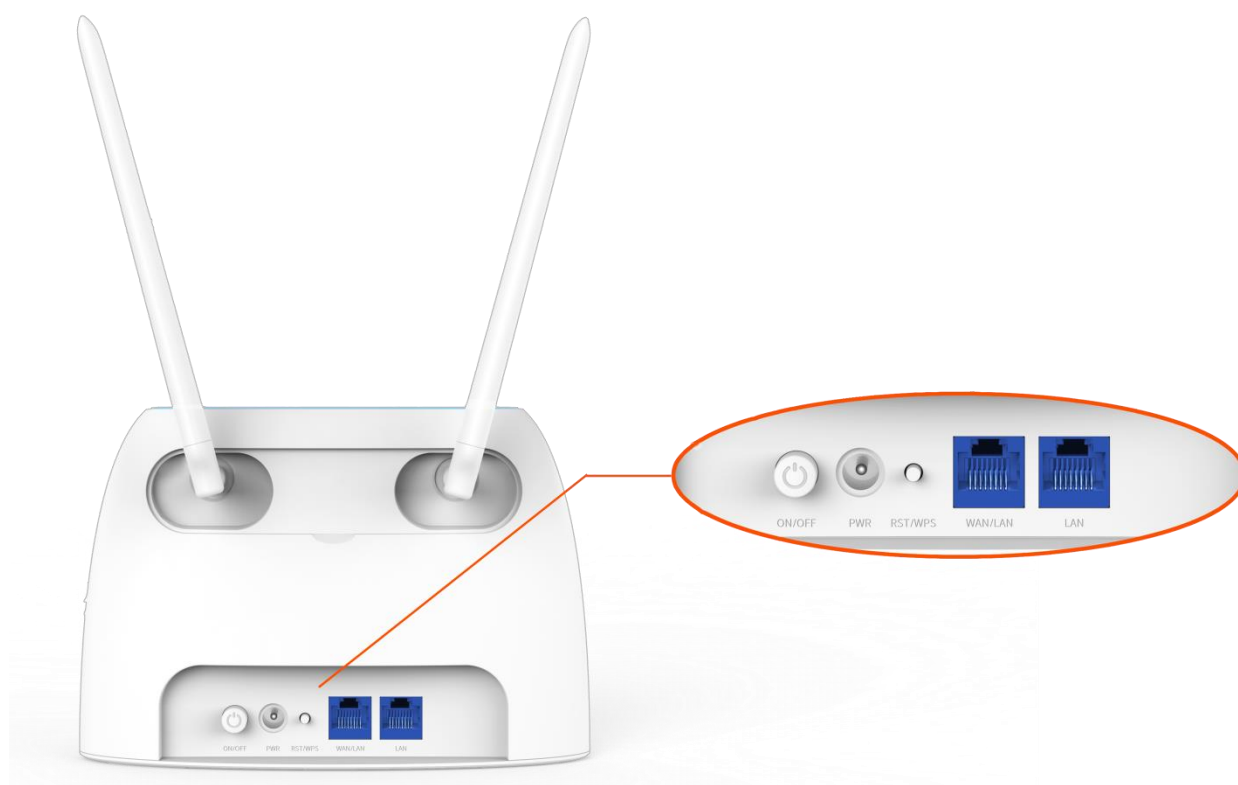
1.2 LED indicator



LED indicator	Status	Description
 (Power indicator)	Solid on	The router is powered on properly.
	Off	The router is powered off or not powered on properly.
 (Internet indicator)	Solid on	The router is connected to the internet.
	Off	The router fails to connect to the internet.
 (Wi-Fi indicator)	Solid on	The Wi-Fi network is enabled.

LED indicator		Status	Description
		Blinking	The router is performing WPS negotiation.
		Off	The Wi-Fi network is disabled.
 (LAN indicator)		Solid on	At least one device is connected to a LAN port of the router.
		Off	No device is connected to any port of the router.
 (Signal strength indicator)		3 bars	Excellent signal.
		2 bars	Good signal.
		1 bars	Fair signal.
		Off	No 4G/3G signal.

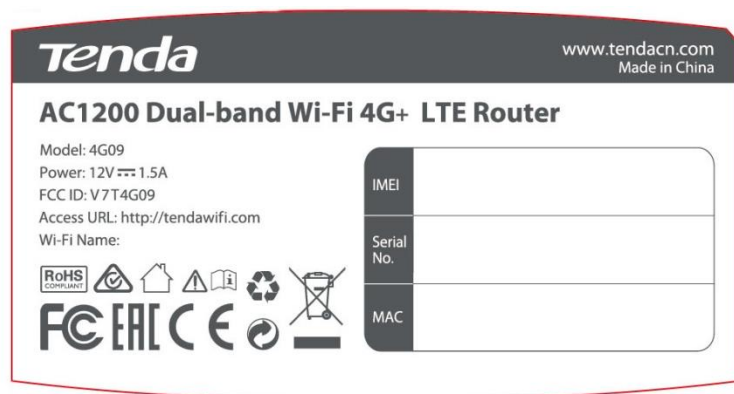
1.3 Ports and buttons



Port/Button	Description
ON/OFF	It is used to power on or power off the router.
PWR	Power jack. It is used to connect to the included power adapter.
RST/WPS	It serves as both reset and WPS button. • Press the button and release it, the  (Wi-Fi) indicator blinks. The router gets ready for WPS negotiation. Configure WPS-enabled wireless devices within 2 minutes to start WPS negotiation with the router. • When the router is working properly, hold down the button for about 8 seconds and release it when all indicators light off and then light up. The router is restored to factory settings.
WAN/LAN	It is a gigabit Ethernet port, which can serve as a WAN port or a LAN port. By default, it is a LAN port. • When the router is under 3G/4G router mode, it serves as a LAN port. • When the router is under wireless router mode, it serves as a WAN port. • When the wireless repeating function is enabled, do not connect any device to this port. • When the AP mode is enabled, it serves as a LAN port.
LAN	It is a LAN port used to be connected to wired devices, such as a computer. When the IPTV function is enabled under the wireless router mode, it serves as the IPTV port to be connected to the set top box.

1.4 Label

The bottom label shows the Wi-Fi Name, Access URL, IMEI, Serial No. and MAC address of the router. See the following figure.



Wi-Fi Name: It specifies the default Wi-Fi name of the router.

Access URL: It is the default address used to log in to the web UI of the router.

IMEI: It is the unique mobile device identification code of the router.

Serial No.: It is required if you need technical assistance to repair your router.

MAC: It specifies the MAC address of the router.

2 Web UI

2.1 Log in to the web UI

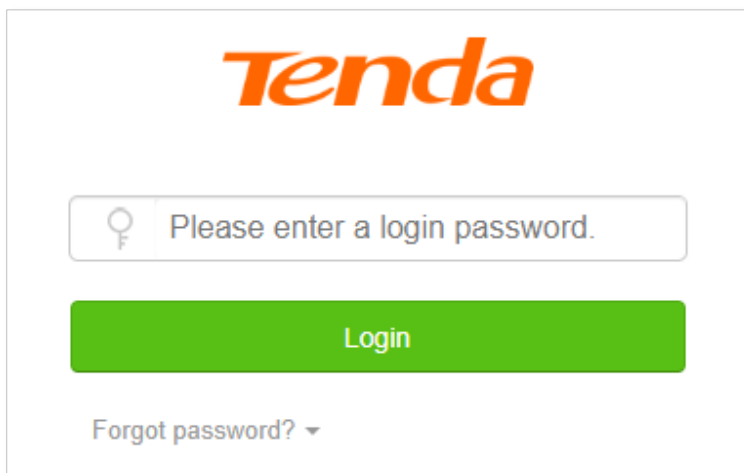
Step 1 Connect your smartphone to the Wi-Fi network, or connect your computer to a LAN port of the router (By default, the WAN/LAN and LAN port are both LAN ports).



Step 2 Start a web browser on the device connected to the router, and visit **tendawifi.com**.



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



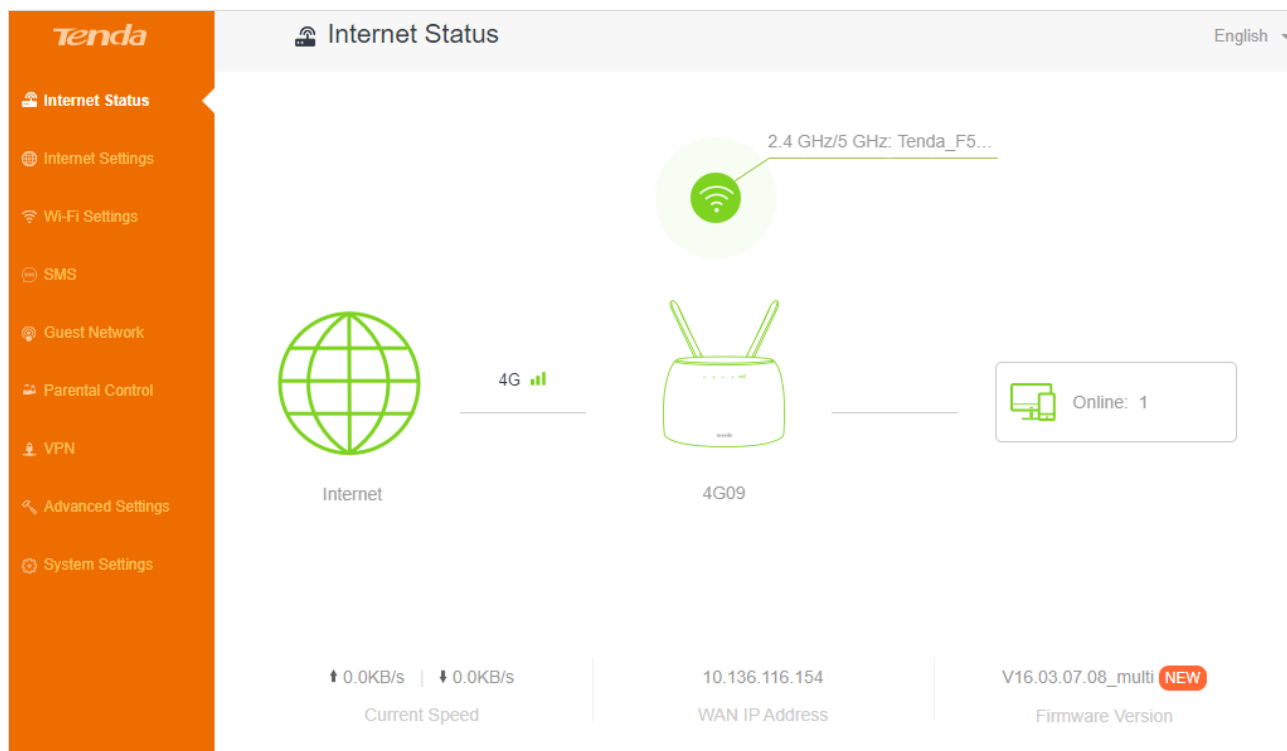
---End



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

- Ensure that the router is powered on properly.
- Ensure that the computer is connected to a LAN port 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.

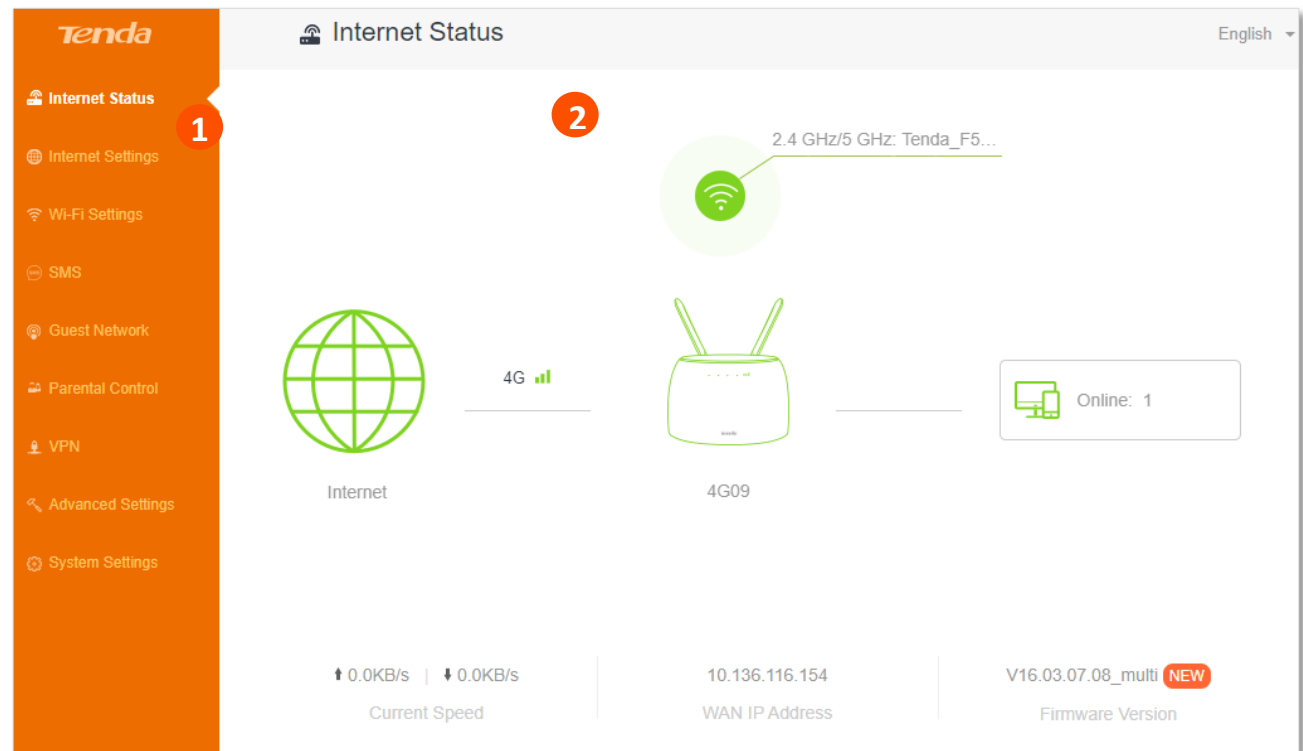


2.2 Log out of the web UI

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 **Logout** at the top right corner of the web UI.

2.3 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.



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.

3

Internet status

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

- [View the internet status](#)
- [View wireless information](#)
- [View system information](#)
- [View online devices information](#)

3.1 Internet status



The router supports both 3G/4G router mode and wireless router mode, and function may differ under different modes. Refer to [Operating mode](#) to set the operating mode of the router.

3.1.1 Under 3G/4G router mode

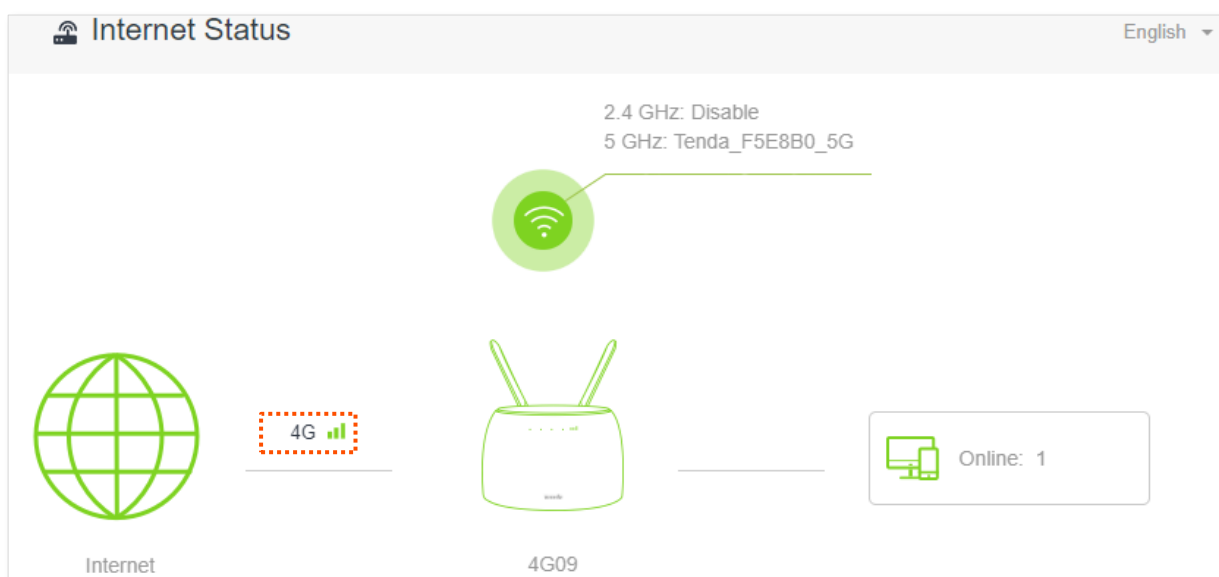
To view the internet status:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

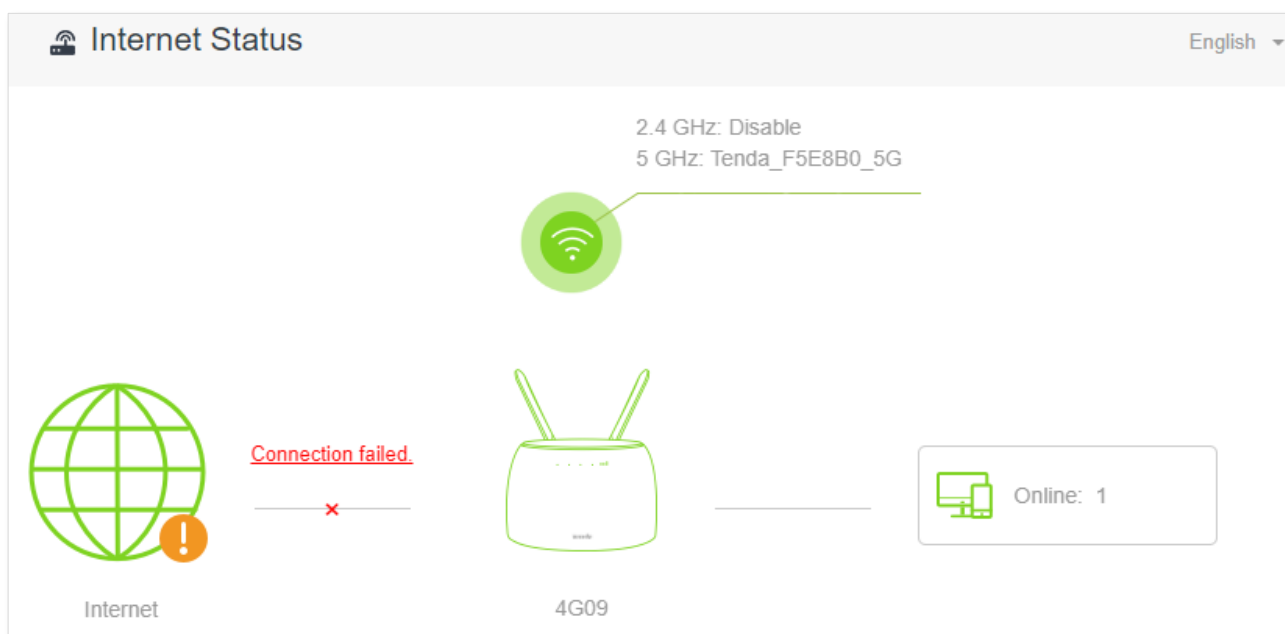
Step 2 Choose **Internet Status**.

---End

When the connection between the Internet and the router is shown as below, the router is connected to the internet successfully.



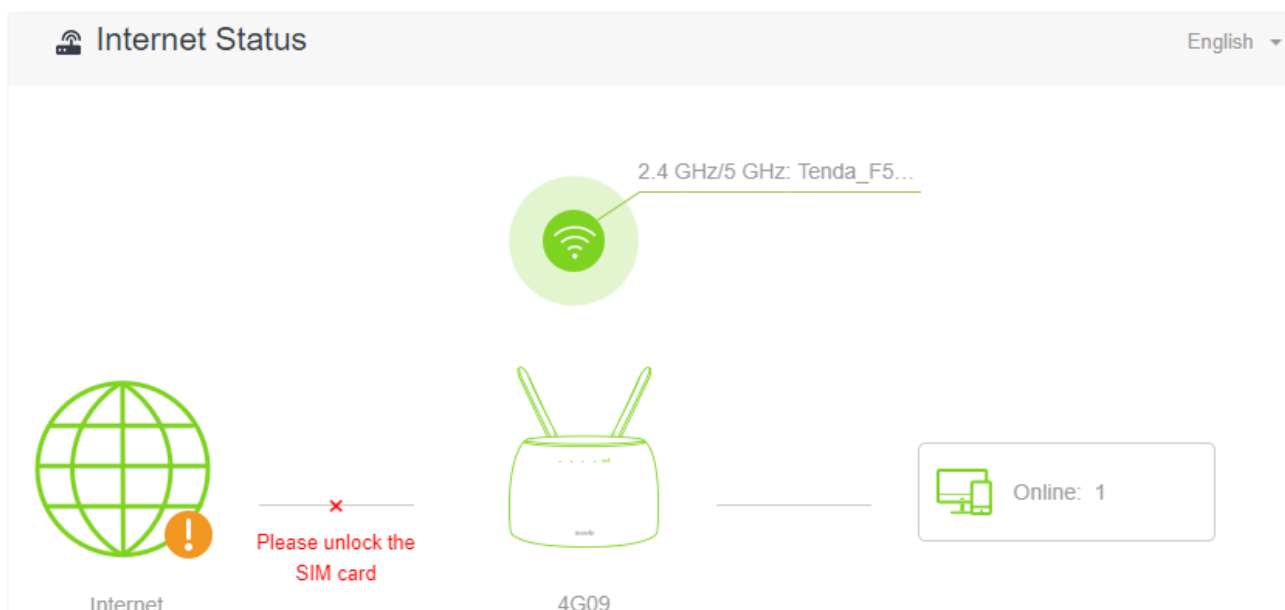
When a red cross and “**Connection failed.**” are shown between the Internet and the Router, it indicates that the internet connection is abnormal.



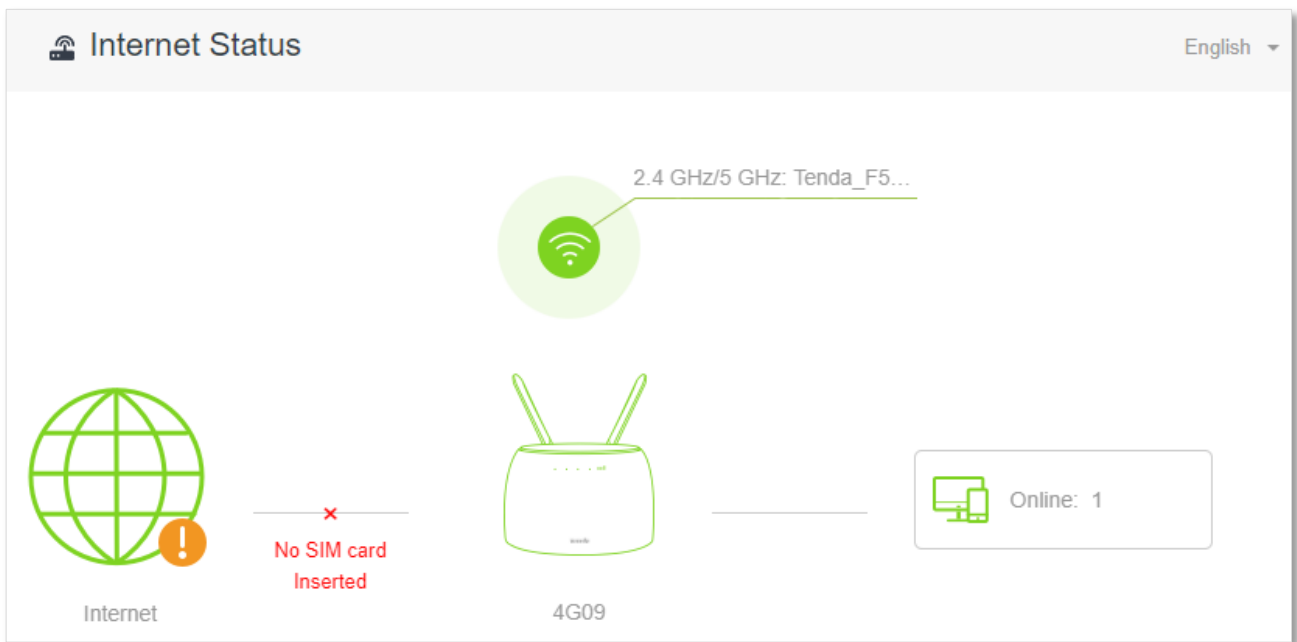
Try the following solutions:

- Navigate to **Internet Settings**, and ensure that the **Mobile Data** and **Data Roaming** functions are enabled, and the mobile data option is set to **4G Preferred**.
- Navigate to **Internet Settings**, and ensure that the dial-up settings parameters are identified by the router automatically. If not, check whether the SIM card is inserted properly, or refer to [create an APN profile manually to access the internet](#) to configure the router.
- If the SIM card is identified successfully but no internet access is available, your Sim card may have run out of money. Contact your ISP for more help.

When a red cross and “**Please unlock the SIM card**” are shown between the Internet and the Router, it indicates that the SIM card is locked. Refer to [Unlock the SIM card in the web UI](#).



When a red cross and “No SIM card inserted” are shown between the Internet and the Router, ensure the SIM card is inserted properly.



3.1.2 Under wireless router mode

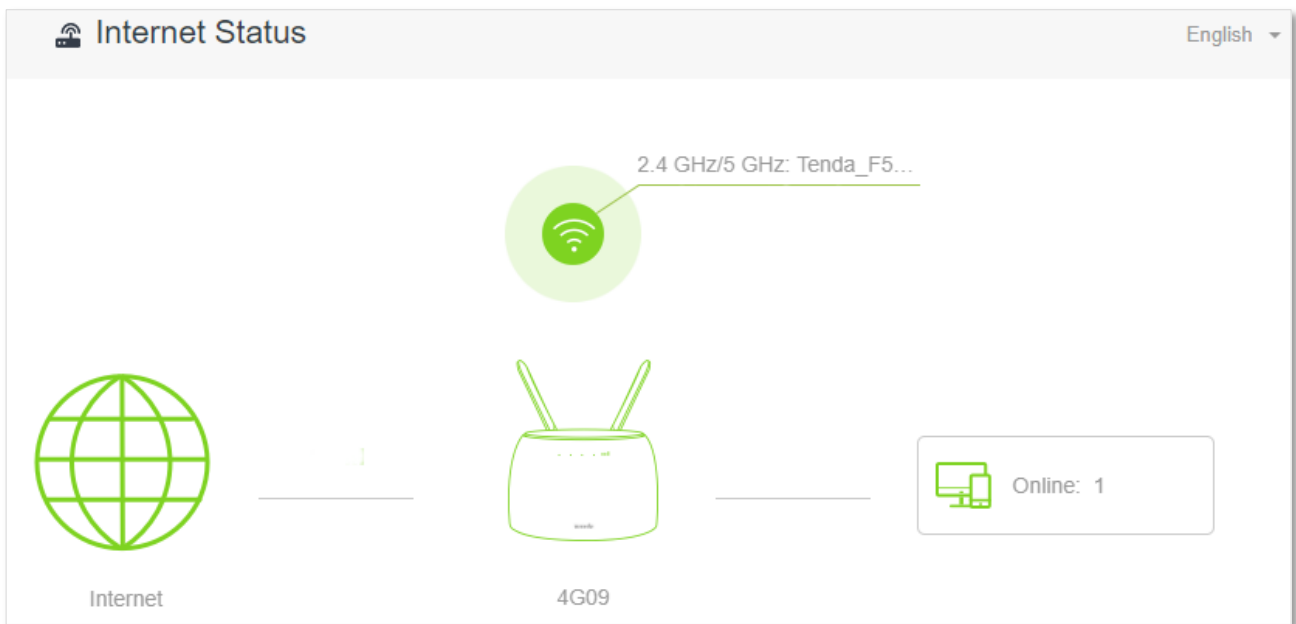
To view the internet status:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Choose **Internet Status**.

---End

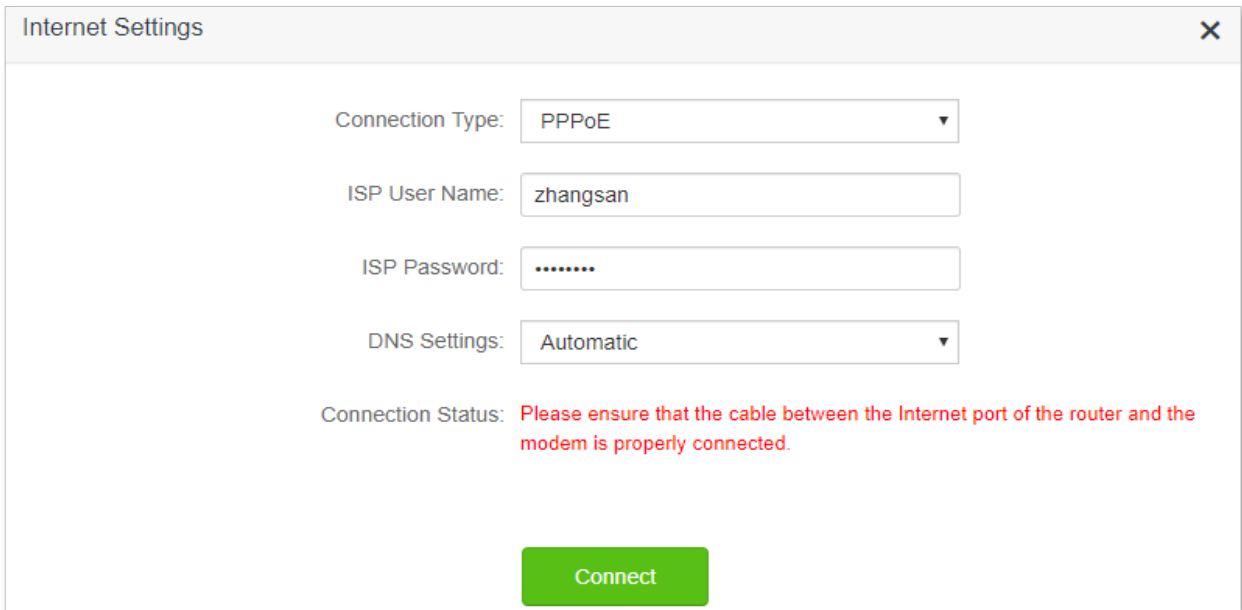
When the link between the **Internet** and **4G09** is clear as shown below, the router is connected to the internet successfully and you can access the internet via the router.



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 refer to the following scenarios and solutions.



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 Ethernet cable between the WAN/LAN port of the router and the modem is connected properly. If the problem persists, contact the technical support for help.



The screenshot shows a web-based 'Internet Settings' dialog box. It has a title bar with 'Internet Settings' and a close button. Inside, there are four input fields: 'Connection Type' (a dropdown menu set to 'PPPoE'), 'ISP User Name' (a text box containing 'zhangsan'), 'ISP Password' (a text box with masked characters '*****'), and 'DNS Settings' (a dropdown menu set to 'Automatic'). Below these fields, the 'Connection Status' is displayed in red text: '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.

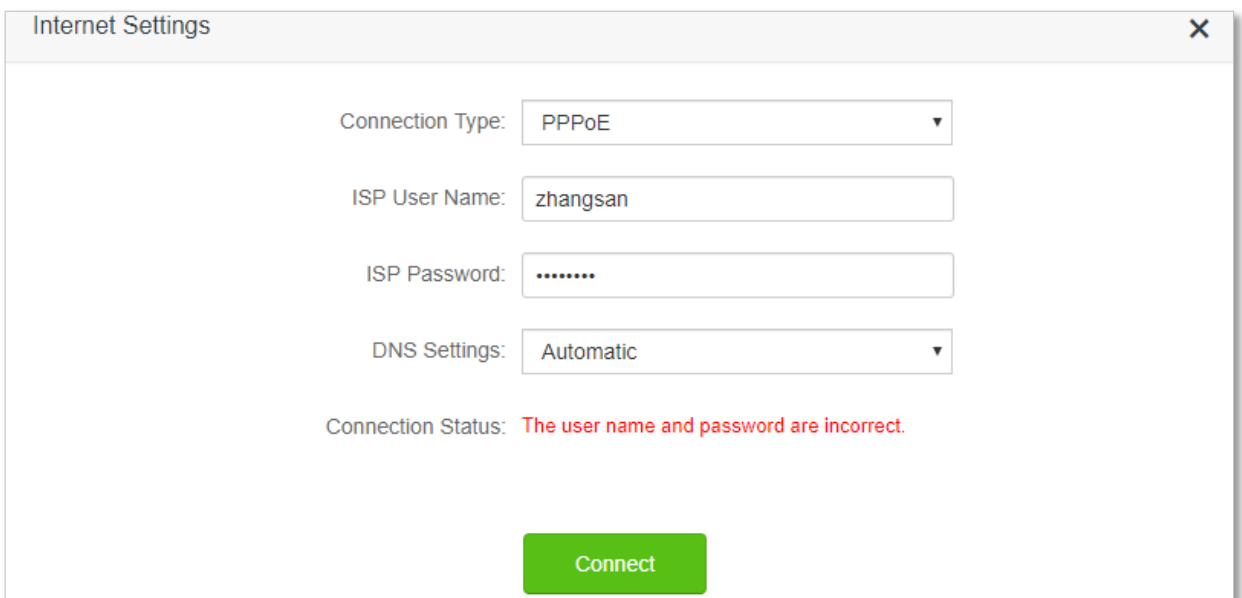
When “The user name and password are incorrect.” is shown on the page, it indicates that the user name and password you entered are incorrect. Please re-enter the user name and password.



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”, not “0755000513”

If the problem persists, contact your ISP for help.

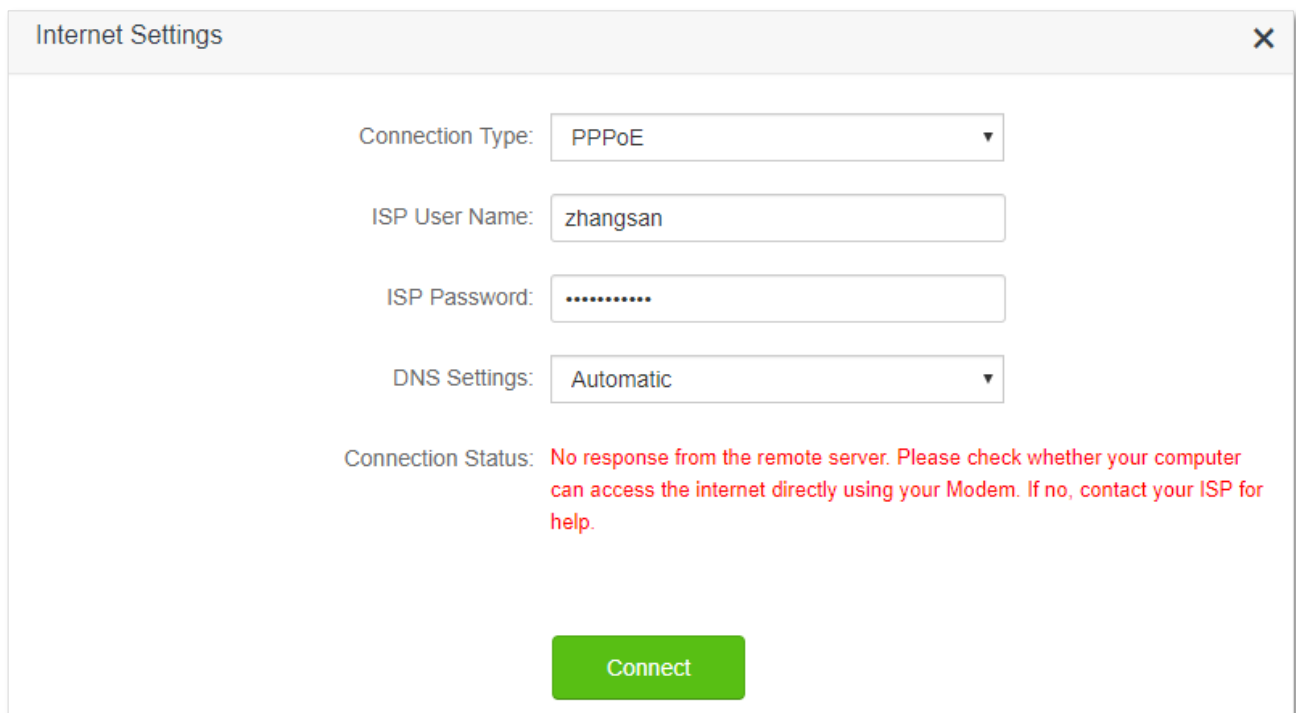


This screenshot is identical to the one above, showing the 'Internet Settings' dialog box. However, the 'Connection Status' message in red text now reads: 'The user name and password are incorrect.' The 'Connect' button remains green and is located at the bottom center.

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 as 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.



The screenshot shows a window titled "Internet Settings" with a close button (X) in the top right corner. Inside the window, there are four configuration fields: "Connection Type" set to "PPPoE", "ISP User Name" set to "zhangsan", "ISP Password" masked with dots, and "DNS Settings" set to "Automatic". Below these fields, the "Connection Status" is displayed in red text: "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." At the bottom center of the window is a green "Connect" button.

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

- Modify the MAC address of WAN port by referring to [Change the MAC address of the WAN port](#).
- Use another device to configure the router.
- Ensure that your internet service does not expire.

If the problem persists, contact Tenda technical support.

Internet Settings

✕

Connection Type:

Dynamic IP Address

DNS Settings:

Automatic

Connection Status:

Disconnected. Please contact your ISP for help.

Connection Duration:

35 s

Disconnect

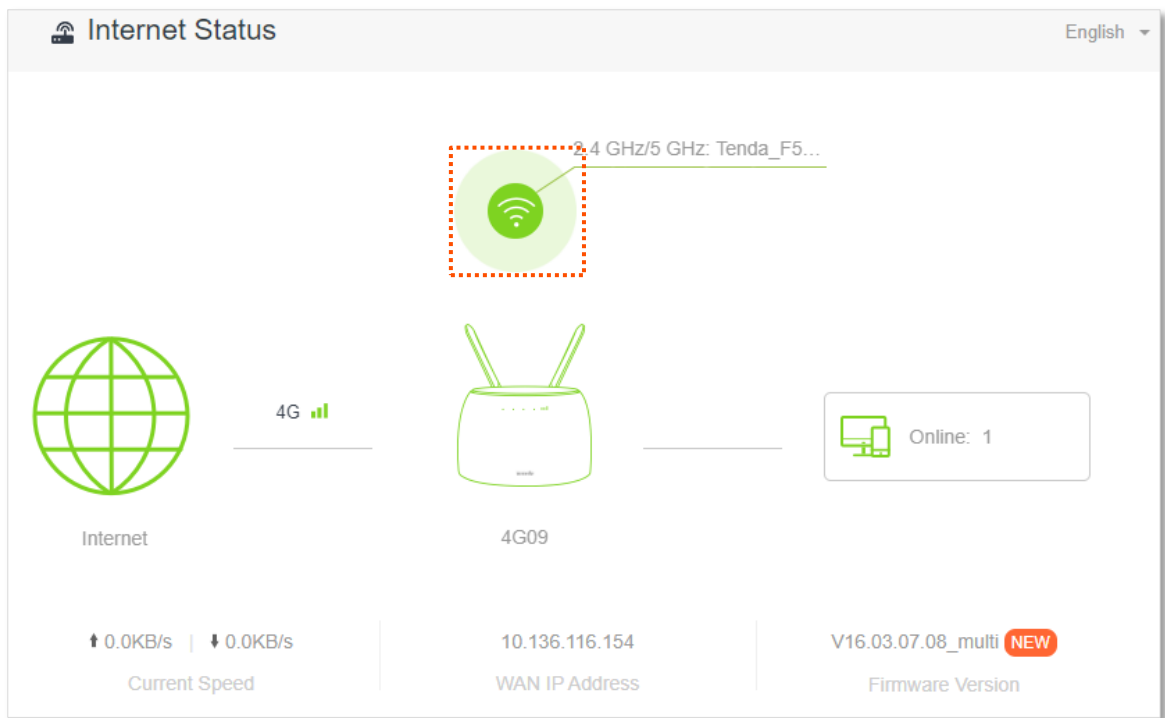
3.2 Wireless information

To view or configure the wireless information:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

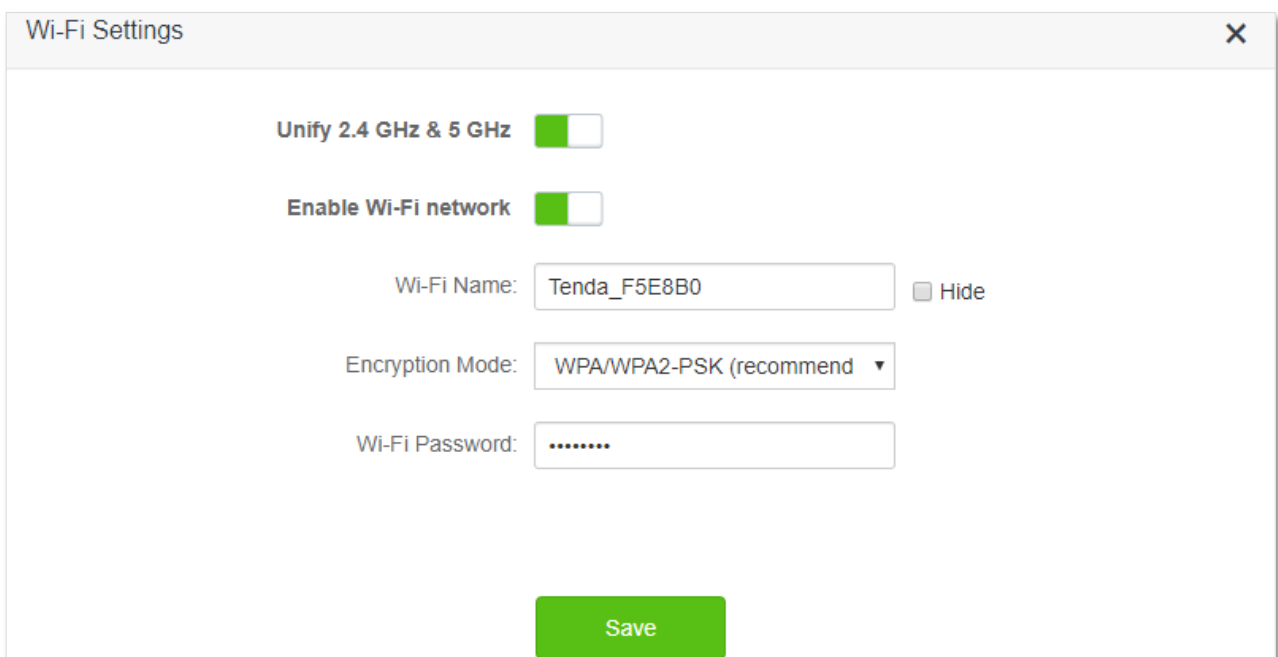
Step 2 Choose **Internet Status**.

Step 3 Click .



---End

You can change wireless parameters as required.



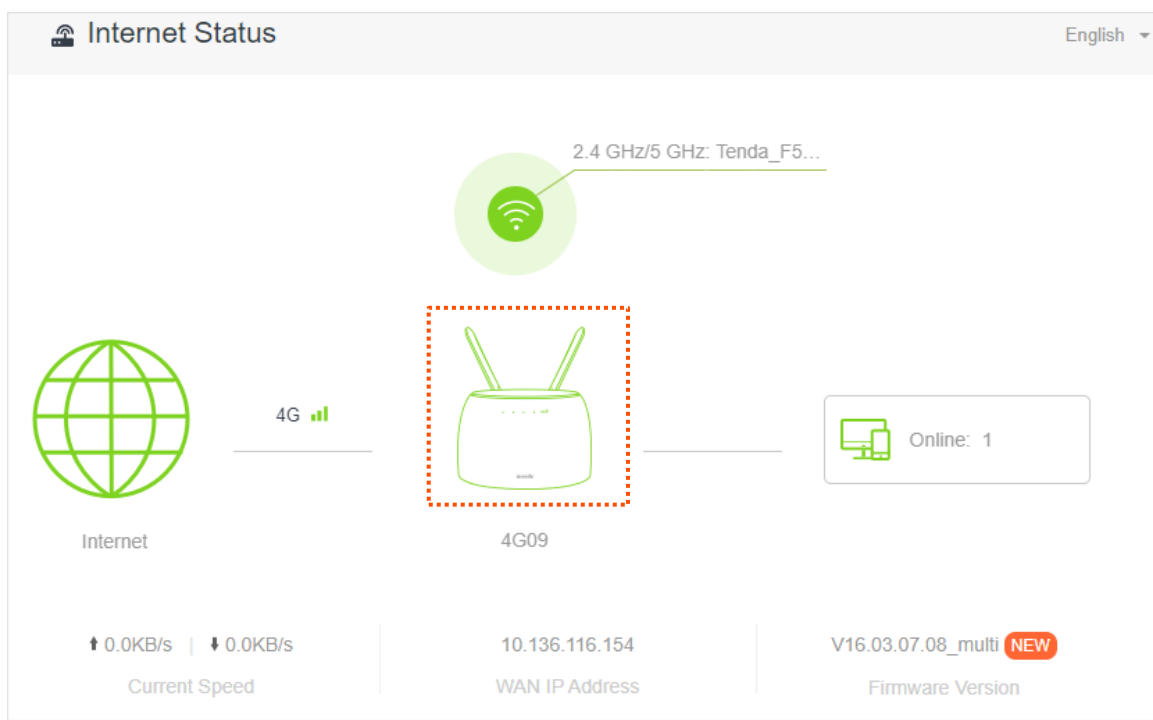
3.3 System information

To view the system information:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Choose **Internet Status**.

Step 3 Click .



---End

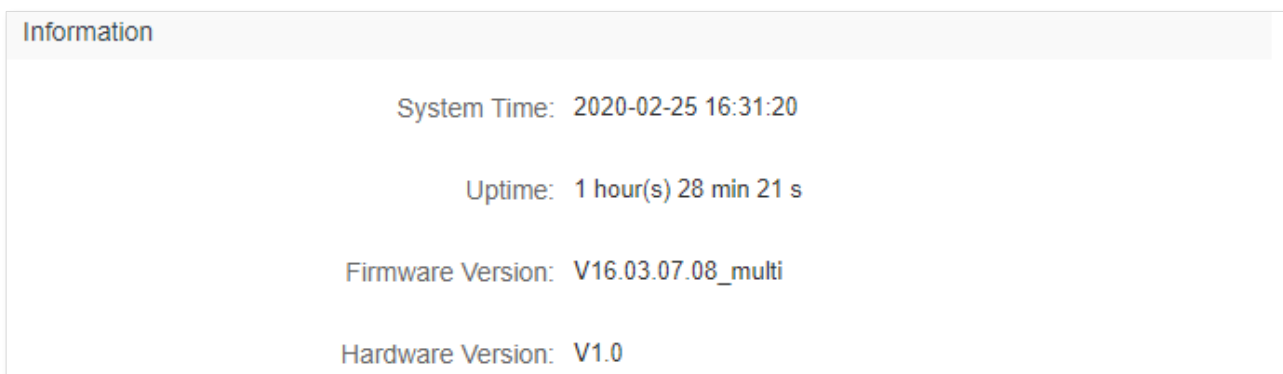


TIP

For detailed description of parameters on this page, refer to [System status](#).

3.3.1 Basic information

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



3.3.2 Connection status

3G/4G router mode

Under the 3G/4G router mode, you can view the information of the SIM card and 3G/4G network in this part.

3G/4G

SIM Card Status: Ready

Connection Status: Connected

Signal Strength: Excellent

ISP:

Mobile Network: 4G

Statistics: 0.438MB

Upload Speed: 0.0KB/s

Download Speed: 0.0KB/s

IP Address: 10.136.116.154

Subnet Mask: 255.255.255.252

Default Gateway: 10.136.116.153

Primary DNS: 120.80.80.80

Secondary DNS: 221.5.88.88

MAC Address:

Wireless router mode

Under the wireless router mode, you can view the information of the WAN port, including connection type, connection status and connection duration, etc.

WAN Status	
Connection Type:	Dynamic IP Address
Connection Status:	Connected
Connection Duration:	2 hour(s) 29 min 38 s
IP Address:	172.16.20.80
Subnet Mask:	255.255.255.0
Default Gateway:	172.16.20.20
Primary DNS:	8.8.8.8
Secondary DNS:	3.3.3.3
MAC Address:	

3.3.3 LAN status

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

LAN Status	
IP Address:	192.168.0.1
Subnet Mask:	255.255.255.0
MAC Address:	

3.3.4 Wi-Fi status

In this part, you can view the information of 2.4 GHz and 5 GHz Wi-Fi network, including the connection status, visibility, hotspot name and encryption mode, etc.

Wi-Fi Status

2.4 GHz Wi-Fi Network: Visible

2.4 GHz Wi-Fi Name: Tenda_F5E8B0

Encryption Mode: None

Channel: 9

Bandwidth: 20

MAC Address:

5 GHz Wi-Fi Network: Visible

5 GHz Wi-Fi Name: Tenda_F5E8B0

Encryption Mode: None

Channel: 161

Bandwidth: 80

MAC Address:

3.3.5 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: DHCPv6

IPv6 WAN Address: 2408:805f:e206:23a3:78ed:cbff:fe25:1627/64
fe80::78ed:cbff:fe25:1627/64
fe80::522b:73ff:fe5:e8b9/64

Default IPv6 Gateway: fe80::50b3:fff7:3ee5:8840

Primary IPv6 DNS: 2408:805d:8::

Secondary IPv6 DNS: 2408:805c:4008::

IPv6 LAN Address: fec0::522b:73ff:fe5:e8b0/64
fe80::522b:73ff:fe5:e8b0/64

3.4 Online device information

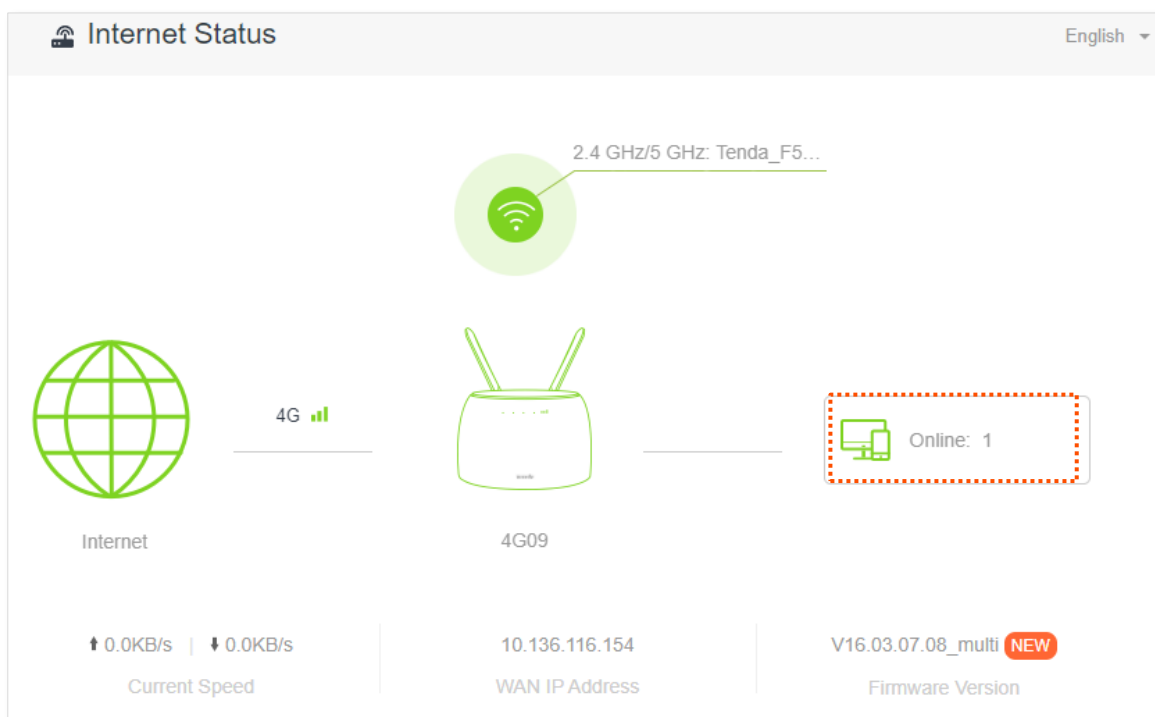
In this page, you can view the information of devices connected to the router, including the upload speed, download speed and access type, etc. You can also view and add devices to the blacklist.

To access the page:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Choose **Internet Status**.

Step 3 Click  Online: .

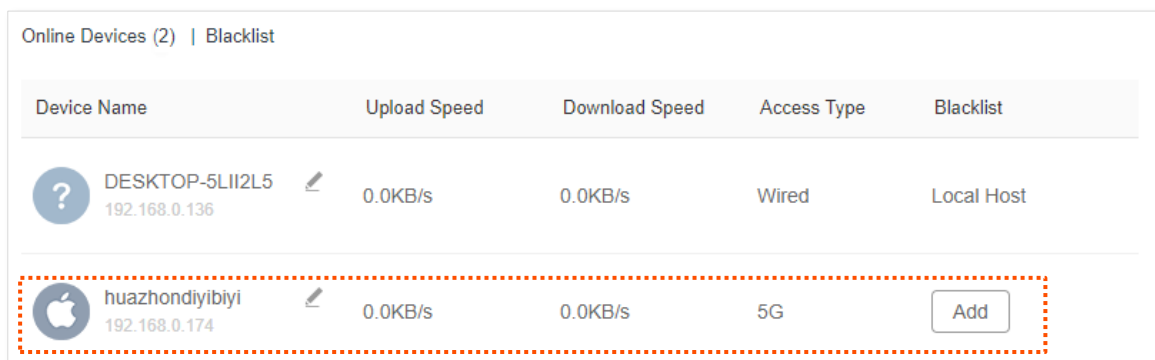


---End

3.4.1 Add devices to the blacklist

Adding devices to the blacklist to block the internet access:

Step 1 Choose **Online Devices**, and target the device to be added.



Step 2 Click **Add**.

---End

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

Online Devices (1) Blacklist		
Device Name	MAC Address	Remove from Blacklist
Unknown		<button>Remove</button>

3.4.2 Remove devices from the blacklist

To remove devices from the blacklist as required:

Step 1 Choose **Blacklist**, and target the device to be removed from the blacklist.

Step 2 Click **Remove**.

Online Devices (1) Blacklist		
Device Name	MAC Address	Remove from Blacklist
Unknown		<button>Remove</button>

---End

4

Internet settings

By configuring the internet settings, you can achieve the shared internet access (IPv4) for multiple users within the LAN. The router supports accessing the internet under both 3G/4G router mode and wireless router mode, and the configuring procedures differ.

4.1 Access the internet with a SIM card

If you are configuring the router for the first time or after restoring it to factory settings, refer to the quick installation guide to configure the internet access. After then, you can change the internet settings by following the instructions here.

To access the configuration page, log in to the web UI of the router, and navigate to **Internet Settings**.

Internet Settings

English

Internet Status: Connected

Mobile Data: Enable

Data Roaming: Disable

Mobile Data Options: 4G Preferred

Dial-up Settings

Profile Name: CHN-UNICOM

Create a Profile

PDP Type: IPV4&IPV6

APN: 3GNET

User Name:

Password:

Authentication Type: NONE

Disconnect

Parameter description

Parameter	Description
Internet Status	It specifies the internet connection status of the SIM card.
Mobile Data	It is used to enable or disable the mobile data traffic. When it is disabled, you cannot access the internet through the router.
Data Roaming	It is used to enable or disable data roaming for the SIM card inserted in the router. Data roaming means the data usage produced when you are outside the coverage of your ISP. You can disable data roaming to avoid roaming data usage and charges.
Mobile Data Options	It specifies the mobile network type for internet access.
Profile Name	
PDP Type	Generally, all these parameters are predefined in the SIM card. The router will identify these parameters automatically, which cannot be changed, and use them for dial-up.
APN	
User Name	
Password	 TIP If the router cannot identify these parameters, contact your ISP for them.
Authentication Type	
Create a Profile	It is used to create an APN dial-up profile when the router fails to identify these parameters automatically.

4.1.1 Change mobile network preference

When you are already able to access the internet with a SIM card, you can also change the preference towards mobile data, data roaming and preferred network type.

Assume that you are using the router outside the coverage of the ISP of your SIM card and want to use 4G network only.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Internet Settings**.
- Step 3** Set **Mobile Data** to **Enable**.
- Step 4** Set **Data Roaming** to **Enable**.
- Step 5** Set **Mobile Data Option** to **4G Only**.
- Step 6** Click **Connect**.

Internet Settings

English

Mobile Data: Enable

Data Roaming: Enable

Enable this function may incur roaming charges.

Mobile Data Options: 4G Preferred

Dial-up Settings

Profile Name: CHN-UNICOM

Create a Profile

PDP Type: IPV4&IPV6

APN: 3GNET

User Name:

Password:

Authentication Type: NONE

Connect

---End

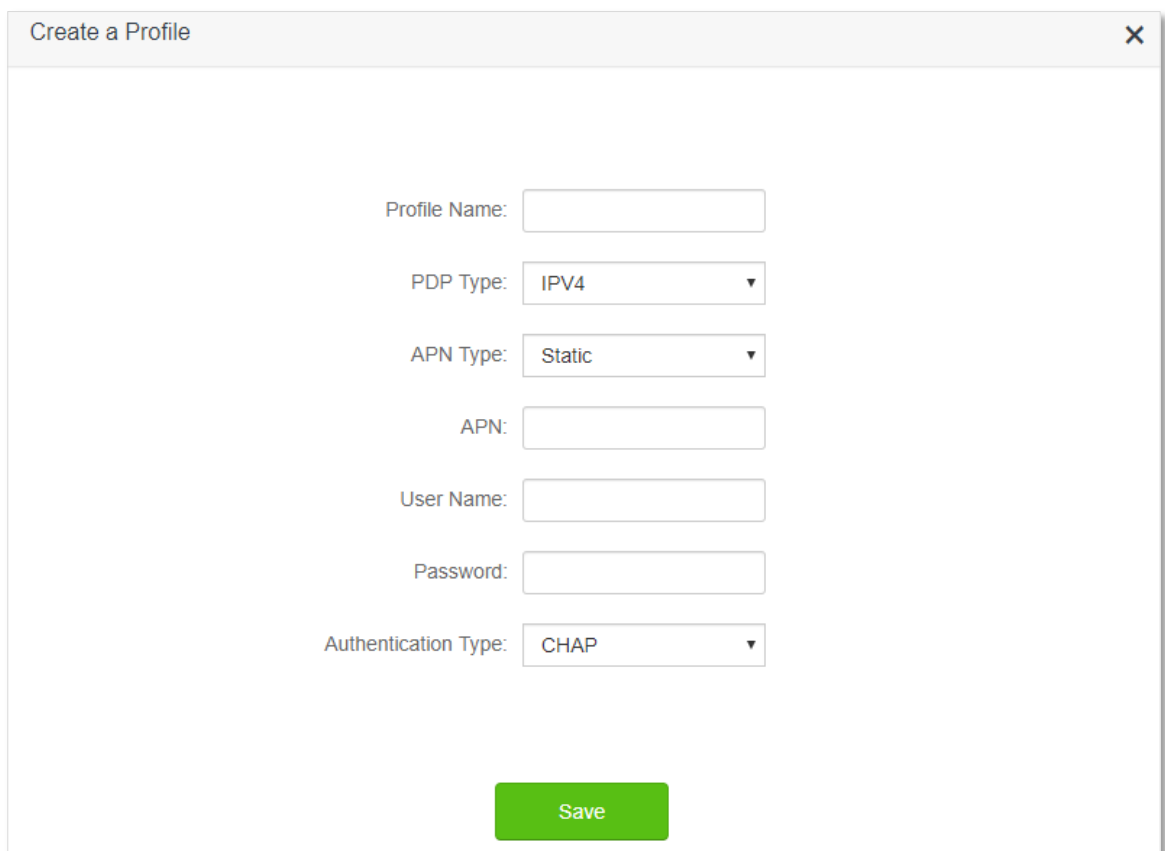
After the configuration, refresh the configuration page. When the **Connected** is shown after **Internet Status**, you can use the 4G network only to access the internet outside the coverage of your ISP.

4.1.2 Create an APN profile manually to access the internet

If the router cannot identify APN parameters automatically and access the internet, you can add a new APN profile manually for dial-up. Contact your ISP for these parameters.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Internet Settings**.
- Step 3** Click **Create a Profile**.
- Step 4** Enter required parameters inquired from your ISP.
- Step 5** Click **Save**.



The screenshot shows a 'Create a Profile' dialog box with the following fields and values:

- Profile Name:
- PDP Type:
- APN Type:
- APN:
- User Name:
- Password:
- Authentication Type:

A green 'Save' button is located at the bottom center of the dialog.

---End

Wait a moment; the router will use the parameters you entered to dial up for internet access. When the **Connected** is shown after **Internet Status**, you can access the internet with the APN profile you create.

4.2 Access the internet through the WAN port

If you want to connect your broadband to the router to access the internet, you can set the router to wireless router mode (refer to [Operating mode](#)) and access the internet through the WAN port.

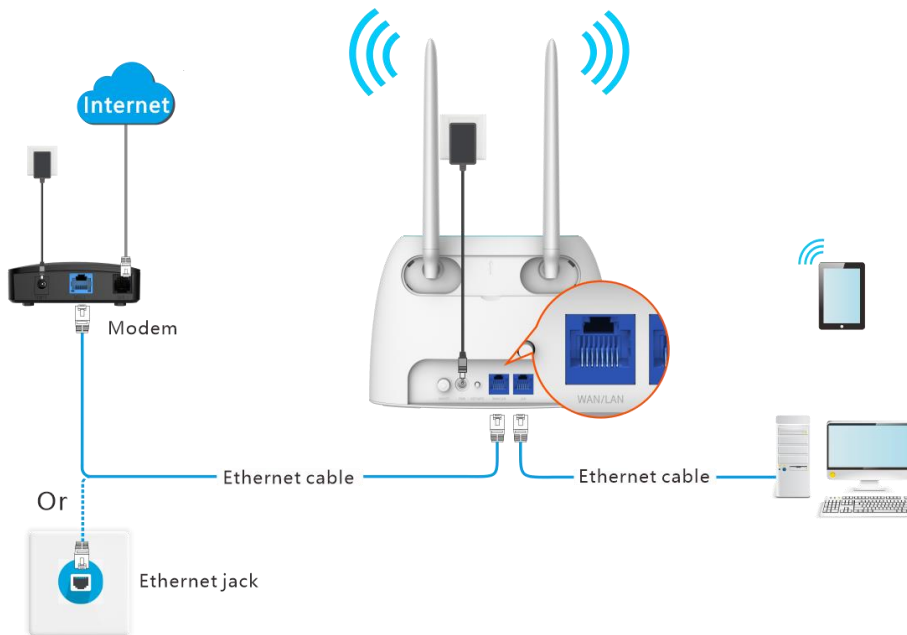


TIP

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

4.2.1 Access the internet with a PPPoE account

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



Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Internet Settings**.
- Step 3** Set **Connection Type** to **PPPoE**.
- Step 4** Enter the **ISP User Name** and **ISP Password**.
- Step 5** Click **Connect**.

Internet Settings English

WAN Port: ☒ Ethernet cable connected

Connection Type: PPPoE

ISP User Name: Enter the user name from your ISP.

ISP Password: Enter the password from your ISP.

DNS Settings: Automatic

Connect

---End

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

Internet Settings English

WAN Port: ☒ Ethernet cable connected

Connection Type: PPPoE

ISP User Name:

ISP Password:

DNS Settings: Automatic

Connection Status: **Connected. You can access the internet now.**

Connection Duration: 5 min 37 s

Disconnect

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 [access the internet through dynamic IP address](#).

- If the problem persists, refer to [View the internet status](#) to find a solution.

Parameter description

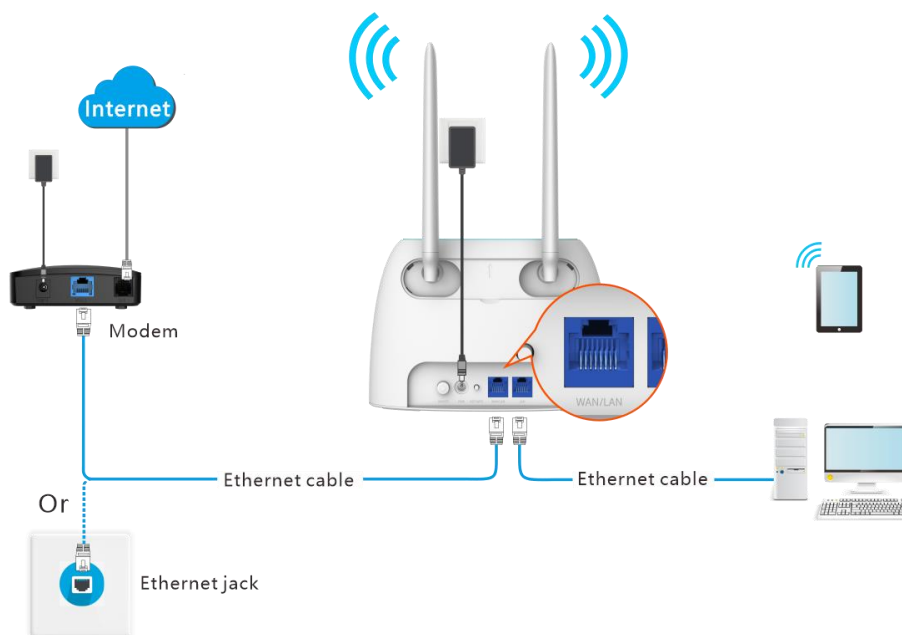
Parameter	Description
ISP User Name	When PPPoE is chosen as the connection type, you need to enter the user name and password provided by your ISP to access the internet.
ISP Password	
DNS Settings	It specifies the obtaining method of WAN port DNS address, which is Automatic by default. • Automatic: 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	It specifies the internet connection status. • 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.

4.2.2 Access the internet through dynamic IP address

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

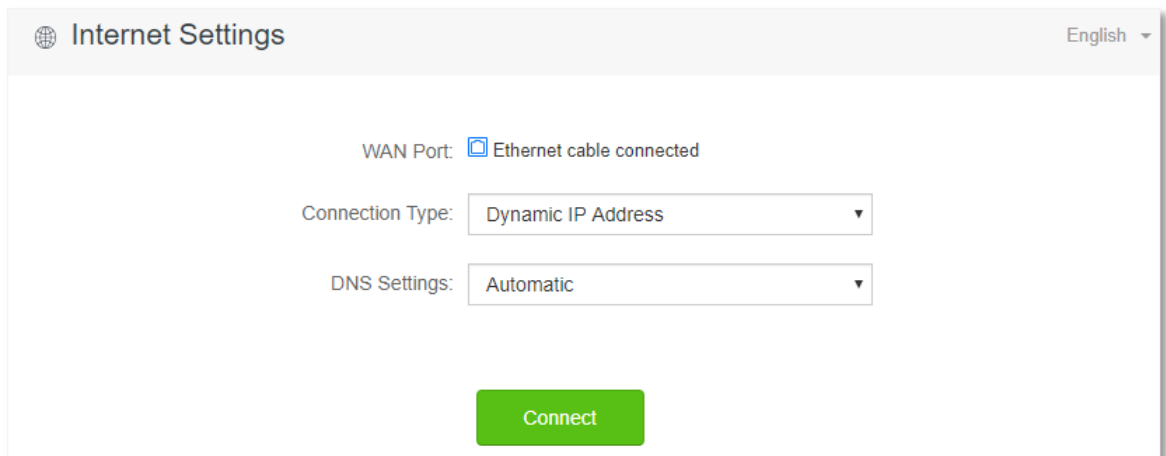
- Your ISP does not provide PPPoE user name and password, or any information including IP address, subnet mask, default gateway and DNS server.
- You have a router with internet access and want to add a 4G09 as the other one.

The application scenario is shown below.



Configuring procedure:

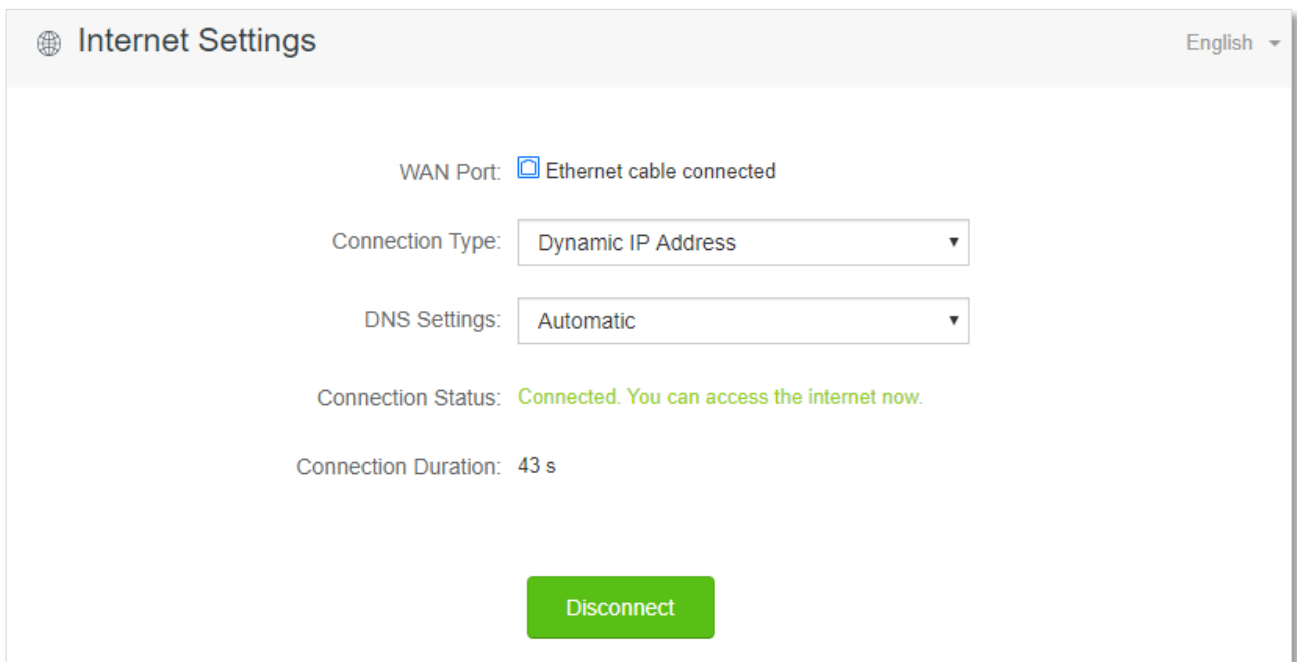
- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Internet Settings**.
- Step 3** Set **Connection Type** to **Dynamic IP Address**.
- Step 4** Click **Connect**.



The screenshot shows the 'Internet Settings' page with a language dropdown set to 'English'. Under 'WAN Port', the 'Ethernet cable connected' option is selected. The 'Connection Type' dropdown is set to 'Dynamic IP Address', and the 'DNS Settings' dropdown is set to 'Automatic'. A green 'Connect' button is at the bottom.

---End

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



The screenshot shows the 'Internet Settings' page after a successful connection. The 'WAN Port' and 'Connection Type' settings remain the same. Below the 'DNS Settings', the 'Connection Status' is now 'Connected. You can access the internet now.' and the 'Connection Duration' is '43 s'. A green 'Disconnect' button is at the bottom.

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

Parameter description

Parameter	Description
DNS Settings	It specifies the obtaining method of WAN DNS address, which is Automatic by

Parameter	Description
	default.
	• Automatic: Obtain a DNS server address from the DHCP server of the upstream network. • Manual: Configure the DNS server address manually.
Connection Status	It specifies the internet connection status. • 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.

4.2.3 Access the internet with 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.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **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' page in a web browser. At the top, there's a header with a globe icon, the title 'Internet Settings', and a language dropdown set to 'English'. Below the header, the 'WAN Port' is set to 'Ethernet cable connected' with a checkbox. The 'Connection Type' is set to 'Static IP Address' in a dropdown menu. Below this, there are input fields for 'IP Address', 'Subnet Mask', 'Default Gateway', 'Primary DNS Server', and 'Secondary DNS Server'. 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, you can access the internet.

The screenshot shows the 'Internet Settings' interface. At the top, there's a globe icon and the title 'Internet Settings', and a language dropdown set to 'English'. Below this, the 'WAN Port' is set to 'Ethernet cable connected'. The 'Connection Type' is set to 'Static IP Address'. There are input fields for 'IP Address', 'Subnet Mask', 'Default Gateway', 'Primary DNS Server', and 'Secondary DNS Server'. The 'Connection Status' is 'Connected. You can access the internet now.' and the 'Connection Duration' is '11 s'. A green 'Disconnect' button is at the bottom.

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

Parameter description

Parameter	Description
IP Address	When static IP address is chosen as the connection type, enter the fixed IP address information provided by your ISP.
Subnet Mask	
Default Gateway	
Primary DNS Server	
Secondary DNS Server	If your ISP only provides one DNS server, you can leave the secondary DNS server blank.
Connection Status	It specifies the internet connection status. - 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.

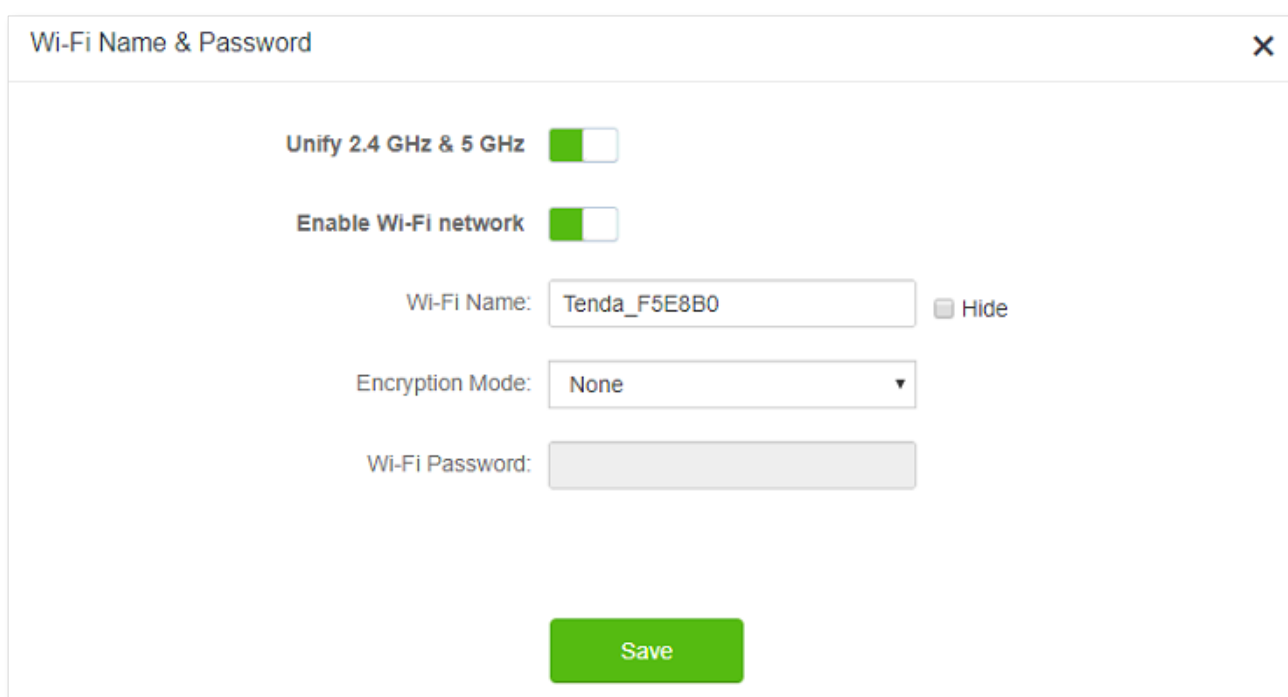
5 Wi-Fi settings

5.1 Wi-Fi name & password

5.1.1 Overview

To access the configuration page, log in to the web UI of the router, and navigate to **Wi-Fi Settings > Wi-Fi Name & Password**.

On this page, you can configure basic Wi-Fi parameters, such as the Wi-Fi name and password.



Wi-Fi Name & Password

Unify 2.4 GHz & 5 GHz ☒

Enable Wi-Fi network ☒

Wi-Fi Name: ☐ Hide

Encryption Mode: ▼

Wi-Fi Password:

Save

Parameter description

Parameter	Description
Unify 2.4 GHz & 5 GHz	It is used to enable or disable the Unify 2.4 GHz & 5 GHz function, which is enabled by default. When this function is enabled, the 2.4 GHz and 5 GHz Wi-Fi networks share the same SSID and password. Devices connected to the Wi-Fi network will use the network with better connection quality automatically.
Enable Wi-Fi Network	It is used to enable or disable the Wi-Fi networks of the router.

Parameter	Description
2.4 GHz Network	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. • If the wireless devices, such as mobile phones, are far away from the router, or blocked from the router by a wall, it is recommended to connect to the 2.4 GHz network.
5 GHz Network	• If the wireless devices are close to the router, it is recommended to connect to the 5 GHz network.
Wi-Fi Name	It specifies the Wi-Fi network name (SSID) of the corresponding Wi-Fi network.
Hide	It is used to hide the Wi-Fi name of the Wi-Fi network, so as to improve the security level of the Wi-Fi network. When this function is enabled, the Wi-Fi network is invisible to wireless devices. You need to enter the Wi-Fi name of the network on your wireless devices (such as a smart phone) manually if you want to join the network.
Encryption Mode	It specifies the encryption modes supported by the router, including: • None: It indicates that the Wi-Fi 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. • WPA-PSK: The network is encrypted with WPA-PSK/AES, which has a better compatibility than WPA2-PSK. • WPA2-PSK: The network is encrypted with WPA2-PSK/AES, which has a higher security level than WPA-PSK. • WPA/WPA2-PSK (recommended): It indicates that WPA-PSK and WPA2-PSK are adopted to encrypt the network, providing both security and compatibility.
Wi-Fi Password	It specifies the password for connecting to the Wi-Fi network. You are strongly recommended to set a Wi-Fi password for security.  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 Wi-Fi network.

5.1.2 Separate the 2.4 GHz Wi-Fi name from 5 GHz Wi-Fi name

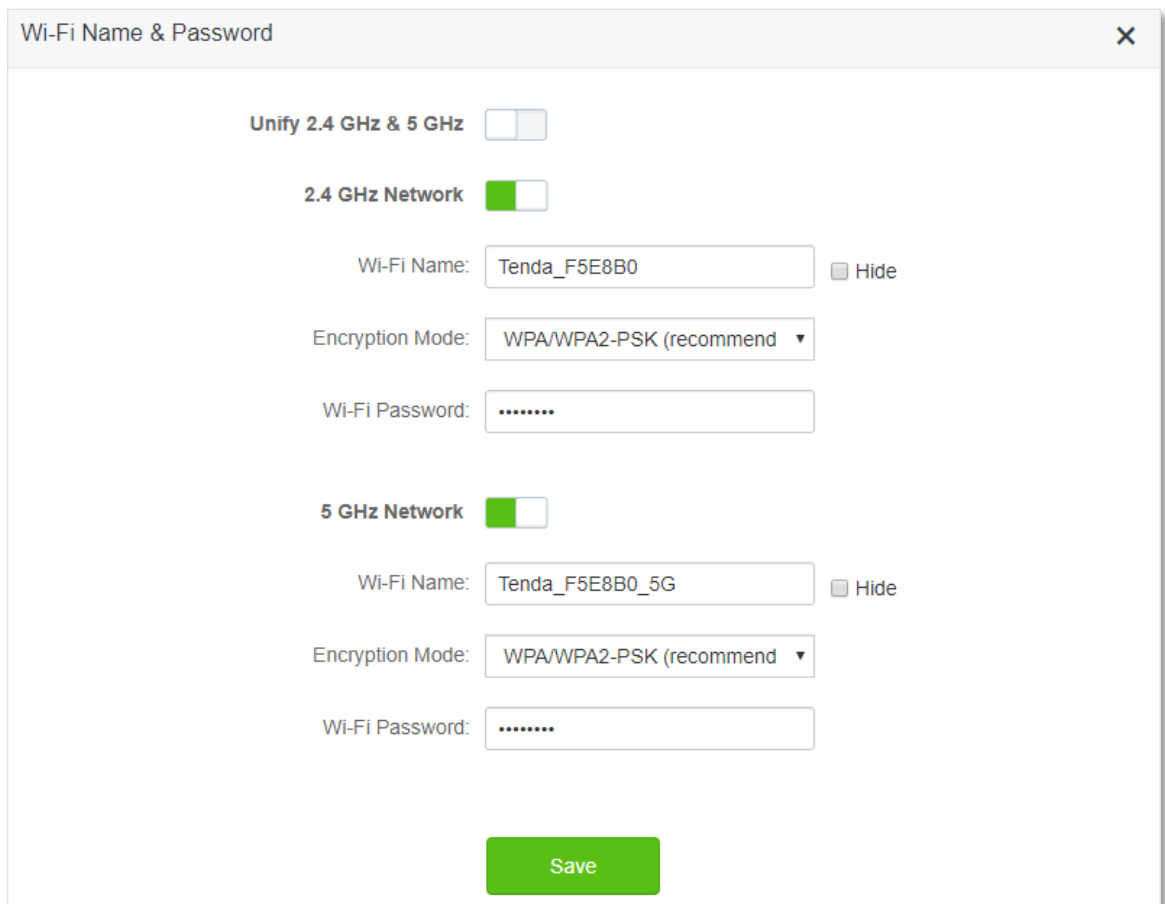
The router supports both 2.4 GHz and 5 GHz Wi-Fi networks, which are unified and only one Wi-Fi name is displayed by default. If you want to separate the Wi-Fi names of the two networks, follow the procedures below.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Wi-Fi Settings > Wi-Fi Name & Password**.
- Step 3** Disable **Unify 2.4 GHz & 5 GHz**.

Step 4 Customize the **Wi-Fi Name** and **Wi-Fi Password** of each Wi-Fi network.

Step 5 Click **Save**.



The image shows a web-based configuration window titled "Wi-Fi Name & Password". It contains settings for two Wi-Fi networks: 2.4 GHz and 5 GHz. At the top, there is a toggle switch for "Unify 2.4 GHz & 5 GHz" which is currently turned off. Below this, the "2.4 GHz Network" section is active, indicated by a green toggle switch. It includes a "Wi-Fi Name" field with the value "Tenda_F5E8B0", a "Hide" checkbox, an "Encryption Mode" dropdown menu set to "WPA/WPA2-PSK (recommend)", and a "Wi-Fi Password" field with masked characters. The "5 GHz Network" section is also active with a green toggle switch. It has a "Wi-Fi Name" field with the value "Tenda_F5E8B0_5G", a "Hide" checkbox, an "Encryption Mode" dropdown menu set to "WPA/WPA2-PSK (recommend)", and a "Wi-Fi Password" field with masked characters. A green "Save" button is located at the bottom center of the window.

---End

When completing the configurations, you can connect to the Wi-Fi networks of the router to access the internet.

5.1.3 Change the Wi-Fi name and Wi-Fi password

The router supports both 2.4 GHz and 5 GHz Wi-Fi networks.

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

Configuring procedure:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Choose **Wi-Fi Settings > Wi-Fi Name & Password**.

Step 3 Disable **Unify 2.4 GHz & 5 GHz**.

Step 4 Change the parameters of the 2.4 GHz network.

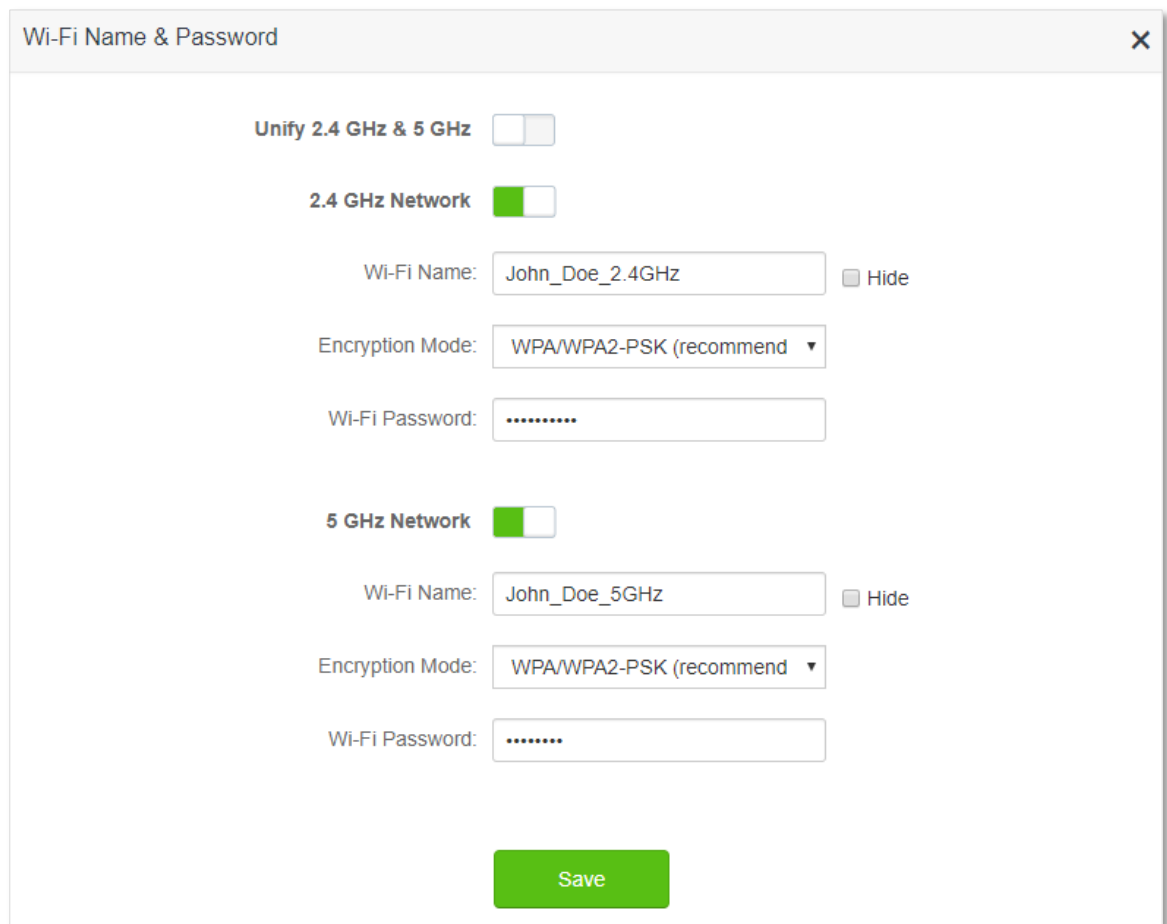
1. Change the **Wi-Fi Name** of the 2.4 GHz network, which is **John_Doe_2.4GHz** in this example.

2. Choose an **Encryption Mode**, which is **WPA/WPA2-PSK (recommended)** in this example.
3. Change the **Wi-Fi Password** of the 2.4 GHz network, which is **Tenda+Wireless24** in this example.

Step 5 Change the parameters of the 5 GHz network.

1. Change the **Wi-Fi Name** of the 5 GHz network, which is **John_Doe_5GHz** in this example.
2. Choose an **Encryption Mode**, which is **WPA/WPA2-PSK (recommended)** in this example.
3. Change the **Wi-Fi Password** of the 5 GHz network, which is **Tenda+Wireless5** in this example.

Step 6 Click **Save**.



The image shows a 'Wi-Fi Name & Password' configuration window. At the top, there is a toggle for 'Unify 2.4 GHz & 5 GHz' which is currently turned off. Below this, the '2.4 GHz Network' section is active, indicated by a green toggle. It contains fields for 'Wi-Fi Name' (set to 'John_Doe_2.4GHz'), 'Encryption Mode' (set to 'WPA/WPA2-PSK (recommend)'), and 'Wi-Fi Password' (masked with dots). A 'Hide' checkbox is next to the name field. The '5 GHz Network' section is also active with a green toggle. It contains similar fields: 'Wi-Fi Name' (set to 'John_Doe_5GHz'), 'Encryption Mode' (set to 'WPA/WPA2-PSK (recommend)'), and 'Wi-Fi Password' (masked with dots), with a 'Hide' checkbox next to the name field. At the bottom center is a green 'Save' button.

---End

When completing the configurations, you can connect your wireless devices to any Wi-Fi networks of the router to access the internet.

5.1.4 Hide the Wi-Fi network

The hidden Wi-Fi networks are invisible to wireless devices, thus improving the security of the networks.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Choose **Wi-Fi Settings > Wi-Fi Name & Password**.

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

Step 4 Click **Save**.

Wi-Fi Name & Password

Unify 2.4 GHz & 5 GHz ☐

2.4 GHz Network ☒

Wi-Fi Name: Tenda_F5E8B0 ☒ Hide

Encryption Mode: WPA/WPA2-PSK (recommend ▼)

Wi-Fi Password:

5 GHz Network ☒

Wi-Fi Name: Tenda_F5E8B0_5G ☒ Hide

Encryption Mode: WPA/WPA2-PSK (recommend ▼)

Wi-Fi Password:

Save

---End

When configuration is completed, the corresponding Wi-Fi network name is invisible to wireless devices.

5.1.5 Connect to a hidden Wi-Fi network

When a Wi-Fi network is hidden, you need to enter the Wi-Fi name manually first and connect to it.

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

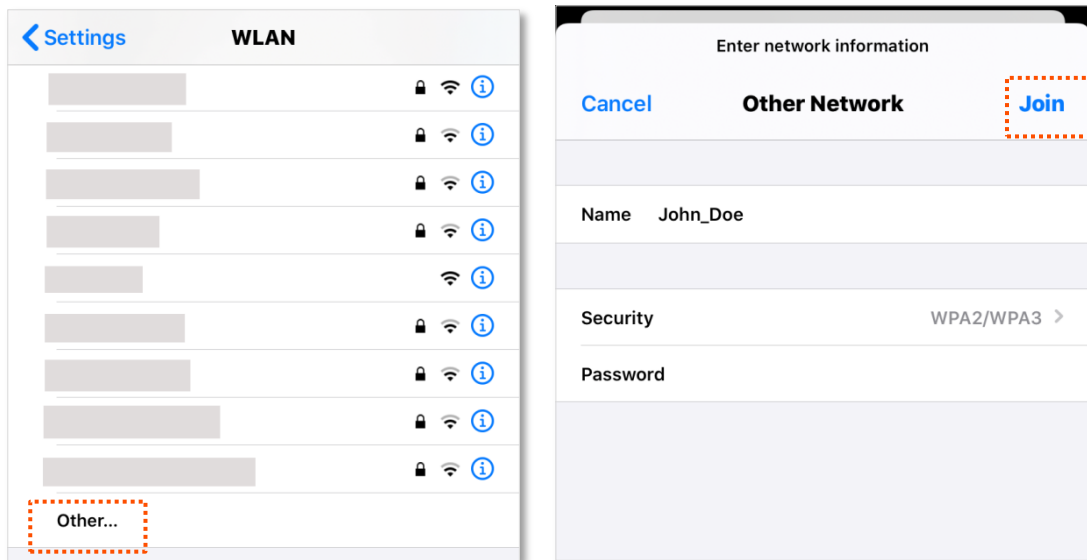
- Wi-Fi name: Jone_Doe
- Encryption type: WPA/WPA2-PSK (recommended)
- Wi-Fi password: Tenda+Wireless245



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

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

- Step 1** Tap **Settings** on your phone, and choose **WLAN**.
- Step 2** (Optional) Enable **WLAN**.
- Step 3** Scroll the Wi-Fi list to the bottom, and tap **Other...**
- Step 4** Enter the Wi-Fi 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

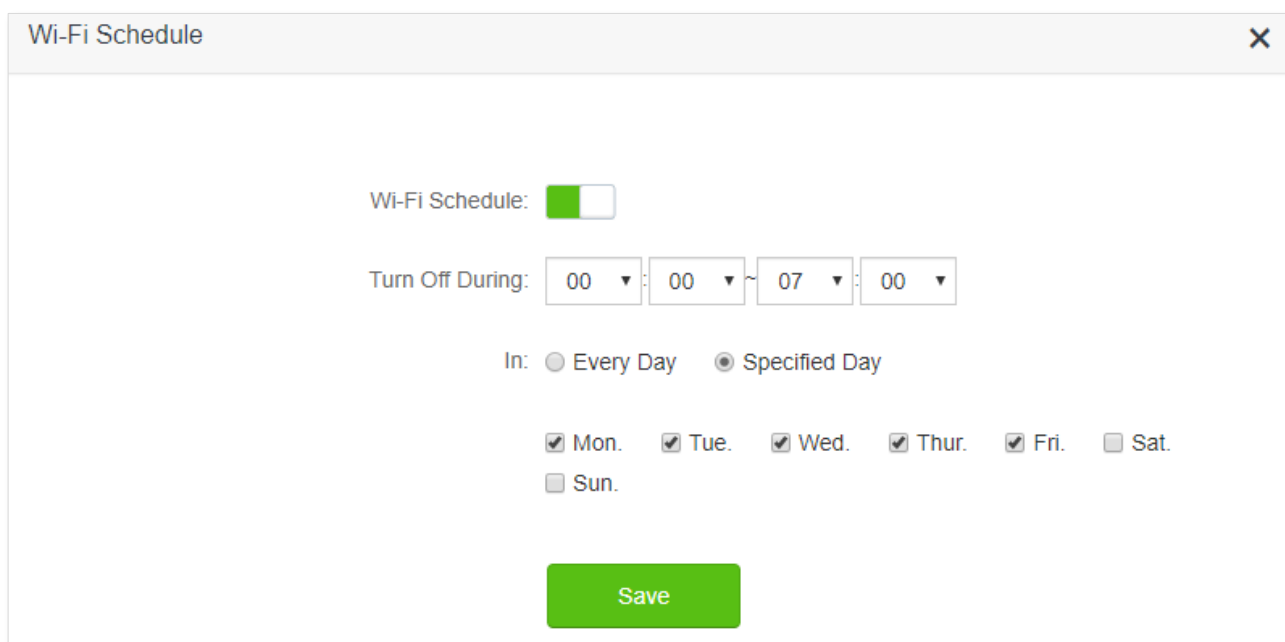
When completing the configurations, you can connect to the hidden Wi-Fi network to access the internet.

5.2 Wi-Fi schedule

5.2.1 Overview

This Wi-Fi Schedule function allows you to disable the Wi-Fi networks of the router at specified period of time. By default, this function is disabled.

To access the configuration page, log in to the web UI of the router, and choose **Wi-Fi Settings > Wi-Fi Schedule**.



The image shows a 'Wi-Fi Schedule' configuration window. At the top, there's a title bar with 'Wi-Fi Schedule' and a close button. Below the title bar, the 'Wi-Fi Schedule' toggle is currently turned off (green bar on the left). Underneath, the 'Turn Off During' section shows a time range from 00:00 to 07:00. Below that, the 'In' section has two radio buttons: 'Every Day' (selected) and 'Specified Day'. Under 'Specified Day', there are checkboxes for Mon., Tue., Wed., Thur., Fri., Sat., and Sun., with Mon. through Fri. checked. At the bottom, there is a green 'Save' button.



To make the Wi-Fi schedule function 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
Wi-Fi Schedule	It is used to enable/disable the Wi-Fi schedule function.
Turn Off During	It specifies the period when the Wi-Fi networks are disabled.
In	It specifies the day(s) on which the Wi-Fi networks are disabled during the specified period.

5.2.2 An example of configuring Wi-Fi schedule

Assume that you want to disable the Wi-Fi network from 22:00 to 07:00 every day.

Configuring procedure:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

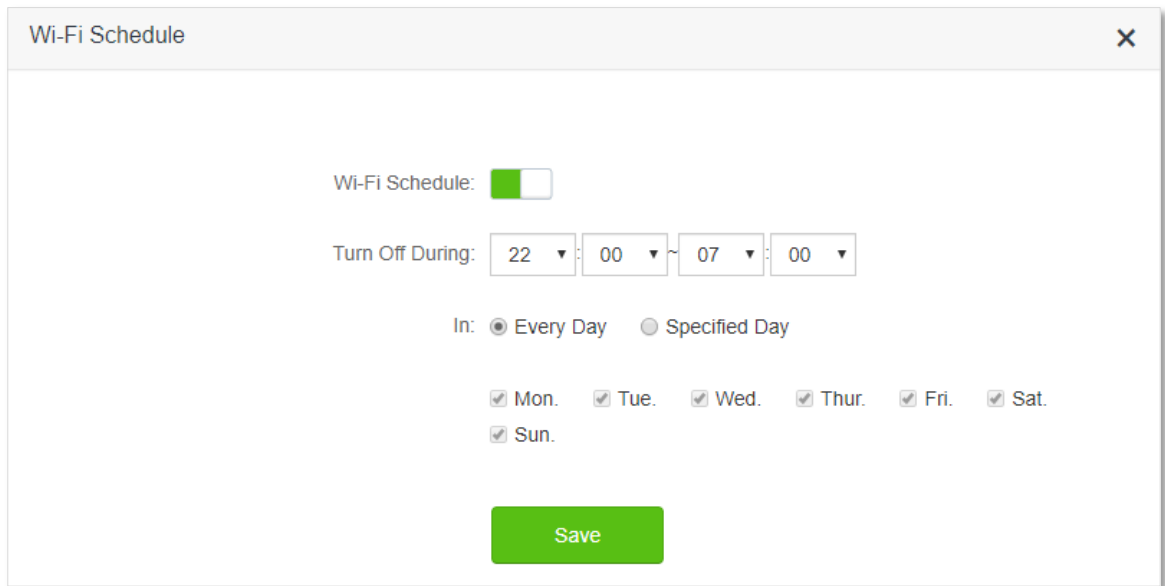
Step 2 Choose **Wi-Fi Settings > Wi-Fi Schedule**.

Step 3 Enable **Wi-Fi Schedule**.

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

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

Step 6 Click **Save**.



The image shows a 'Wi-Fi Schedule' configuration window. At the top, the title 'Wi-Fi Schedule' is displayed next to a close button (X). Below the title, there is a toggle switch for 'Wi-Fi Schedule' which is currently turned on (green). Underneath the toggle, the 'Turn Off During' section shows a time range of 22:00 to 07:00, with each hour and minute value in a separate dropdown menu. Below the time range, there is a section labeled 'In:' with two radio buttons: 'Every Day' (which is selected) and 'Specified Day'. Under the 'Specified Day' option, there are checkboxes for each day 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

When the configuration is completed, the Wi-Fi networks will be disabled from 20:00 to 7:00 every day.

5.3 Wireless repeating



This function is only available under the wireless router mode. Refer to [Operating mode](#) to set the operating mode of the router.

5.3.1 Overview

By configuring the wireless repeating function, you can extend the coverage of the existing Wi-Fi network.

To access the configuration page, log in to the web UI of the router, and choose **Wi-Fi 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 Wi-Fi 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 Wi-Fi Name: --Select--

Save

Parameter description

Parameter	Description
Wireless Repeating	It is used to enable/disable the Wireless Repeating function.
Repeating Mode	Two repeating modes are available: • WISP mode: Generally used to bridge the hotspot of ISPs. • Client+AP mode: Able to bridge all kinds of Wi-Fi network. 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

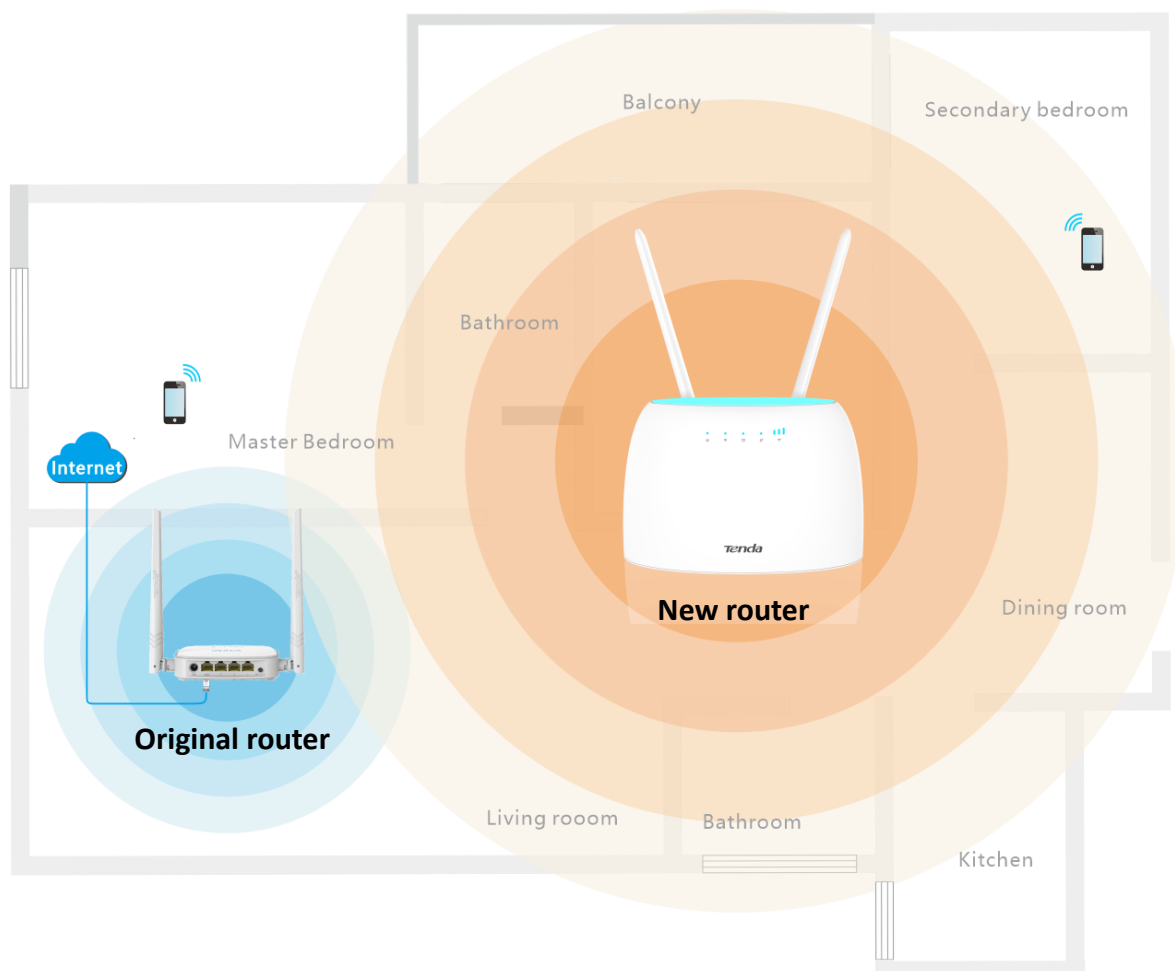
Parameter	Description
	referring to the configuring procedures in Access the internet through the WAN port according to the connection type you choose.
Upstream Wi-Fi Name	It specifies the Wi-Fi name that you want to bridge. If you choose Enter a Wi-Fi name manually , you are required to enter the Wi-Fi Name , Frequency Band and Encryption Mode , Encryption Algorithm and Upstream Wi-Fi Password manually.
Upstream Wi-Fi Password	It specifies the Wi-Fi password of the Wi-Fi name that you want to bridge.

5.3.2 Extend the existing Wi-Fi 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 Wi-Fi network coverage.

Assume that your existing Wi-Fi name and password are:

- Upstream Wi-Fi name: Home_Wi-Fi
- Wi-Fi password: 12345678

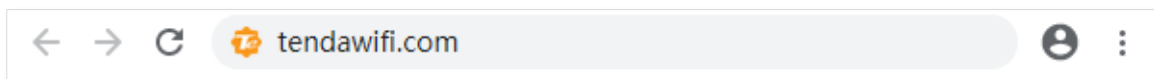


Method 1: Set the new router to WISP mode

Configuring procedure:

Step 1 Log in to the web UI of the router.

1. Place the new router near the existing router and power it on. Connect your wireless device to the Wi-Fi network of your new router, or connect a computer to the LAN port of the new router. Do not connect any device to the WAN port of the new router.
2. Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router. A computer is used for illustration below.

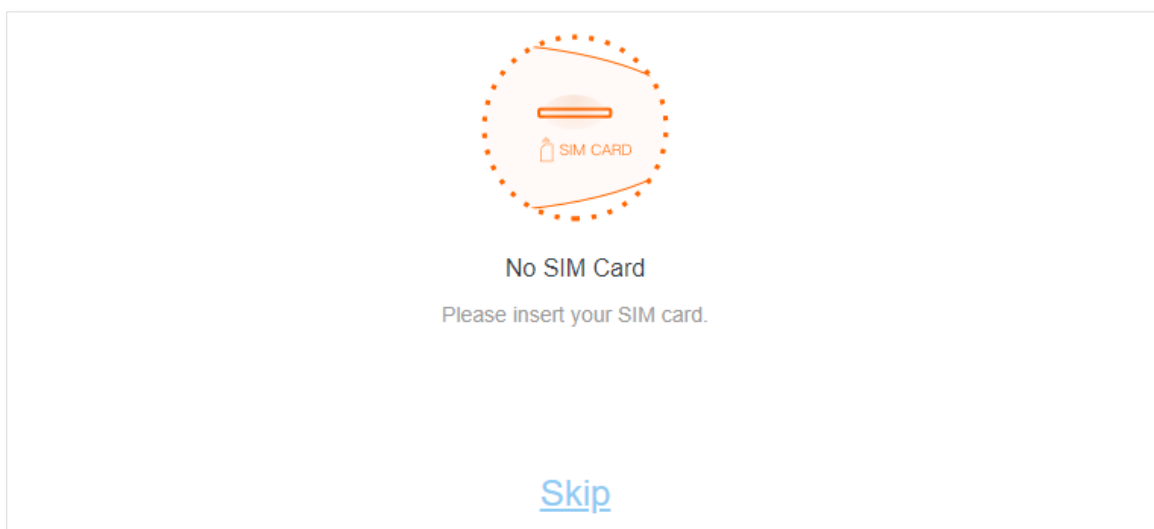


If you have finished the quick setup wizard before, skip to **Step 2** to proceed with the configuration.

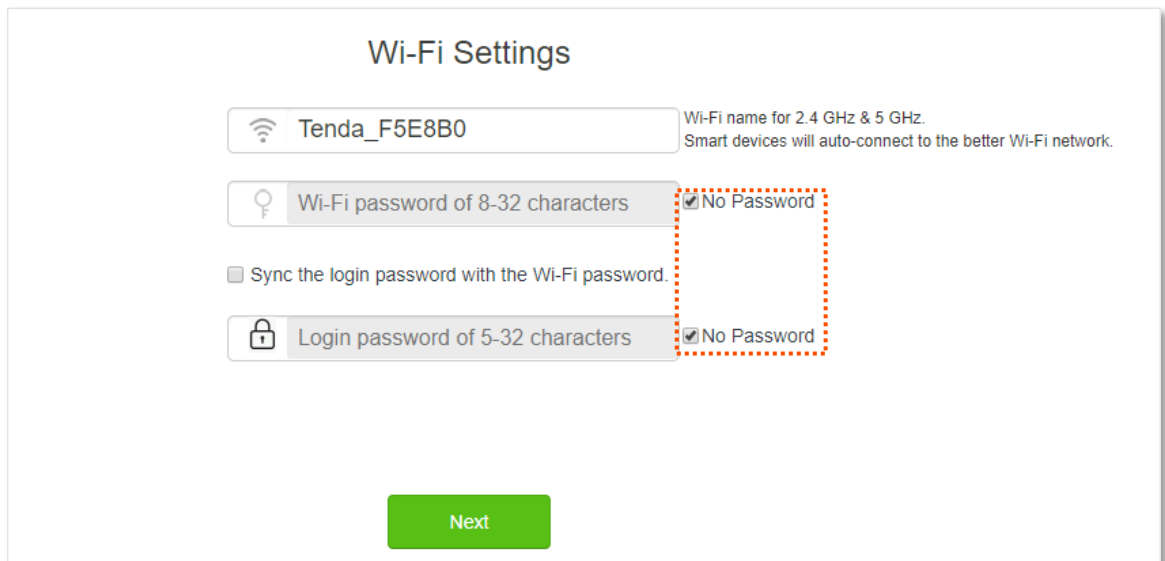
3. Click **Start**.



4. Click **Skip**.

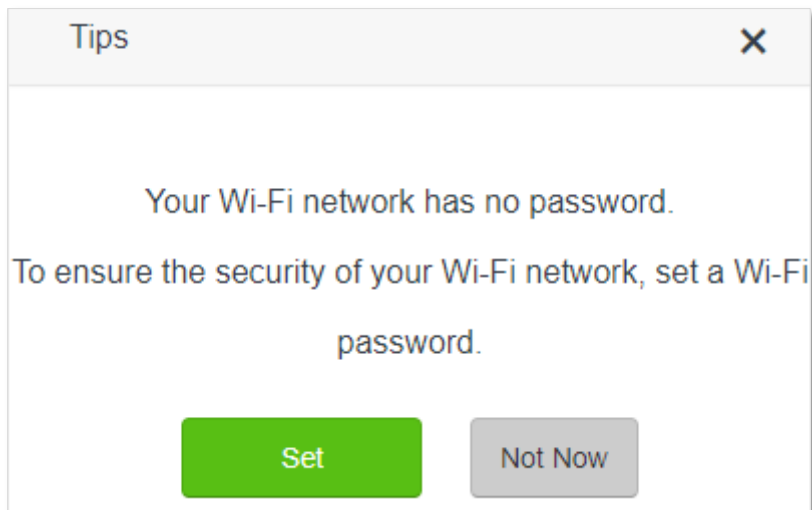


5. Do not set login and Wi-Fi password now by ticking **No Password**, and click **Next**.



The screenshot shows the 'Wi-Fi Settings' interface. At the top, the title 'Wi-Fi Settings' is centered. Below it, there are three input fields. The first field is for the Wi-Fi name, containing 'Tenda_F5E8B0', with a small note to the right: 'Wi-Fi name for 2.4 GHz & 5 GHz. Smart devices will auto-connect to the better Wi-Fi network.' The second field is for the Wi-Fi password, with a note 'Wi-Fi password of 8-32 characters' and a checkbox labeled 'No Password' which is checked. The third field is for the login password, with a note 'Login password of 5-32 characters' and a checkbox labeled 'No Password' which is also checked. A checkbox labeled 'Sync the login password with the Wi-Fi password.' is located between the second and third fields. At the bottom center, there is a green button labeled 'Next'.

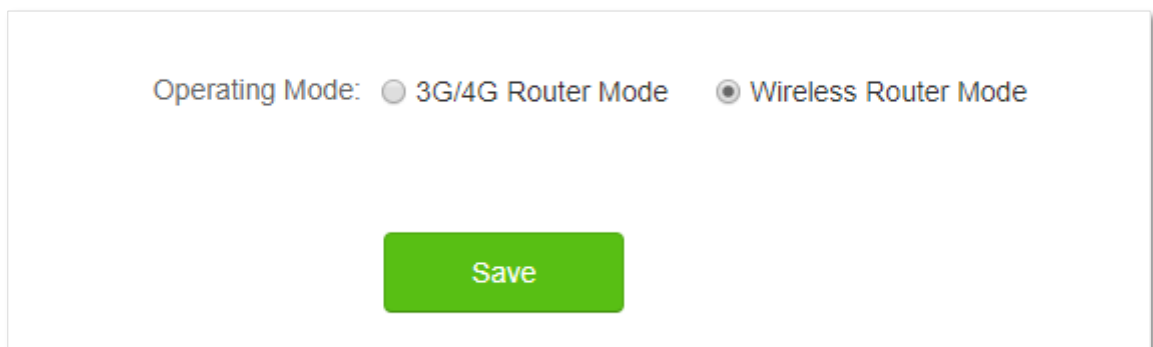
6. Click **Not Now**.



The screenshot shows a 'Tips' dialog box with a close button (X) in the top right corner. The text inside reads: 'Your Wi-Fi network has no password. To ensure the security of your Wi-Fi network, set a Wi-Fi password.' At the bottom, there are two buttons: a green 'Set' button and a grey 'Not Now' button.

Step 2 Set the router to wireless router mode.

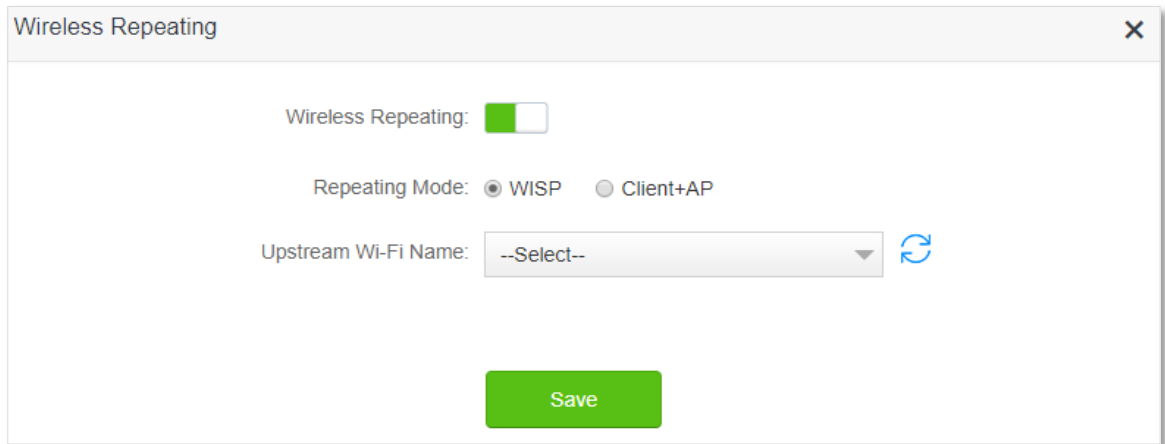
1. Choose **Advanced Settings > Operating Mode**.
2. Click **Wireless Router Mode**, and click **Save**.



The screenshot shows the 'Operating Mode' selection screen. It features two radio buttons: '3G/4G Router Mode' and 'Wireless Router Mode'. The 'Wireless Router Mode' radio button is selected. At the bottom center, there is a green button labeled 'Save'.

Step 3 Set the new router to WISP mode.

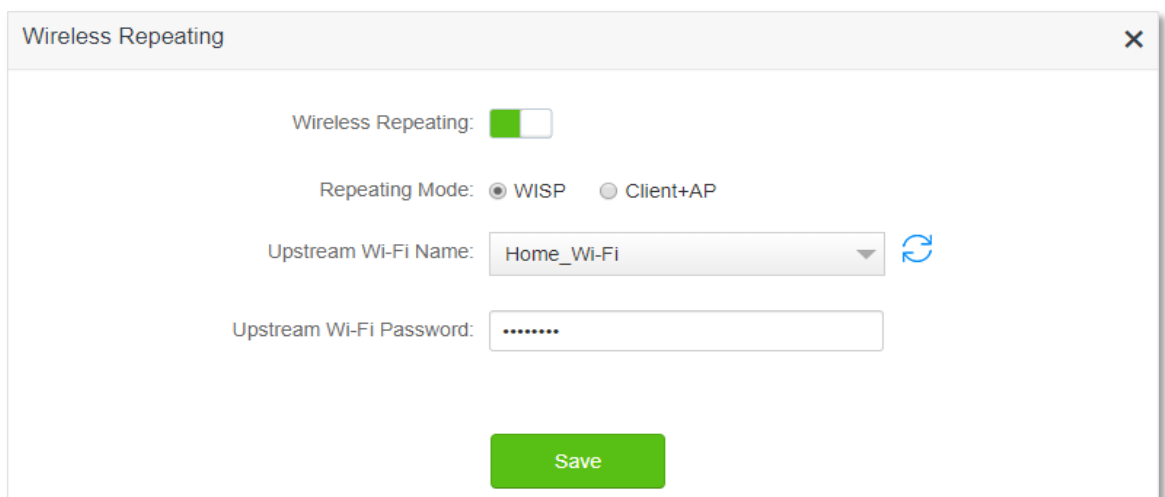
1. Choose **Wi-Fi Settings > Wireless Repeating**.
2. Enable **Wireless Repeating**, and choose **WISP**.
3. Click **Select** to select an existing Wi-Fi network, which is **Home_Wi-Fi** in this example.



The screenshot shows the 'Wireless Repeating' configuration window. At the top, the title is 'Wireless Repeating' with a close button (X). Below the title, there is a toggle switch for 'Wireless Repeating' which is currently turned on (green). Underneath, the 'Repeating Mode' is set to 'WISP' (selected with a radio button) and 'Client+AP' (unselected). The 'Upstream Wi-Fi Name' is set to '--Select--' in a dropdown menu, with a blue refresh icon to its right. At the bottom, there is a green 'Save' button.

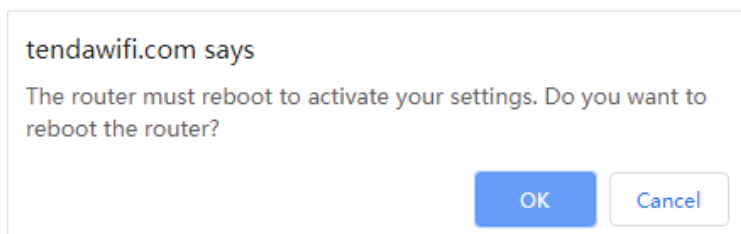
Step 4 Enter the **Upstream Wi-Fi Password**, which is **12345678** in this example.

Step 5 Click **Save**.



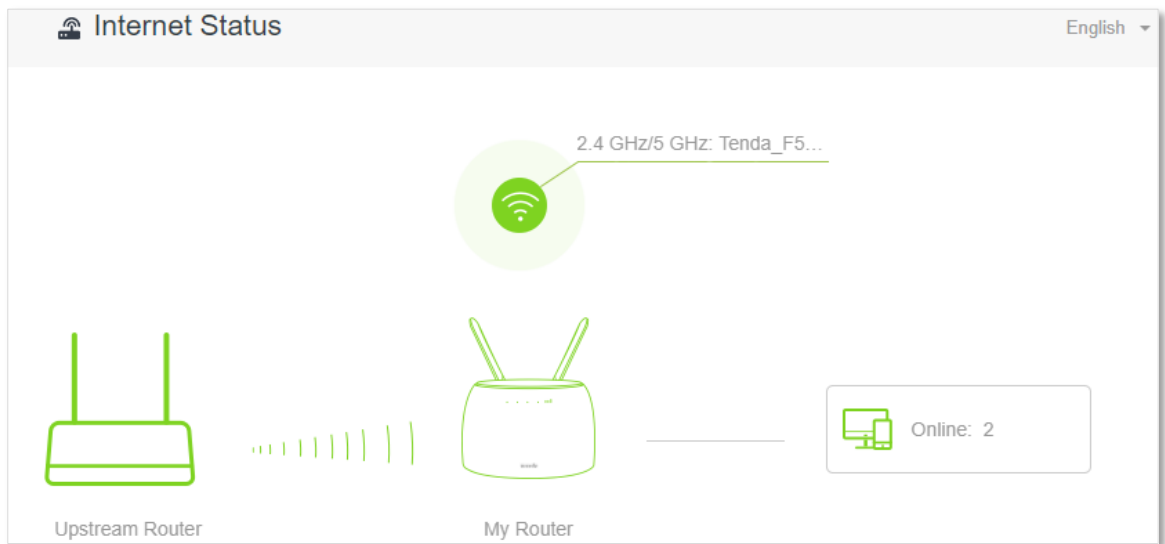
The screenshot shows the 'Wireless Repeating' configuration window after entering the password. The 'Wireless Repeating' toggle is still on. The 'Repeating Mode' is still 'WISP'. The 'Upstream Wi-Fi Name' dropdown now shows 'Home_Wi-Fi'. A new field for 'Upstream Wi-Fi Password' has appeared, containing eight dots. The green 'Save' button remains at the bottom.

Step 6 Click **OK**, and wait for the router to reboot.



The screenshot shows a confirmation dialog box from 'tendawifi.com'. The text inside says: 'The router must reboot to activate your settings. Do you want to reboot the router?'. At the bottom, there are two buttons: 'OK' (blue) and 'Cancel' (white with blue border).

Step 7 Log in to the web UI of the router again, navigate to **Internet Status** to check if the wireless repeating succeeds.



Step 8 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, refrigerator.
- Above the ground with few obstacles.



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, or connect your smart phone to the Wi-Fi network of the new router.

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

The "Wi-Fi Name & Password" configuration page features the following settings:

- Unify 2.4 GHz & 5 GHz:** A toggle switch that is currently turned on (green).
- Enable Wi-Fi network:** A toggle switch that is currently turned on (green).
- Wi-Fi Name:** A text field containing "Tenda_F5E8B0". To its right is a "Hide" checkbox, which is currently unchecked.
- Encryption Mode:** A dropdown menu currently set to "None".
- Wi-Fi Password:** An empty text field.
- Save:** A large green button at the bottom center.



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

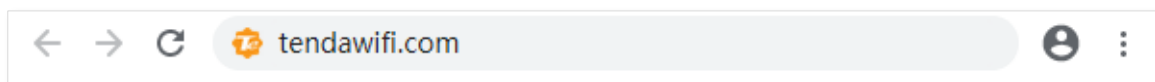
- Ensure that the existing router is connected to the internet successfully.
- Ensure that your wireless devices are connected to the correct Wi-Fi network of the new router.
- If the computer connected to the router for repeating cannot access the internet, ensure that the computer is configured to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

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

Configuring procedure:

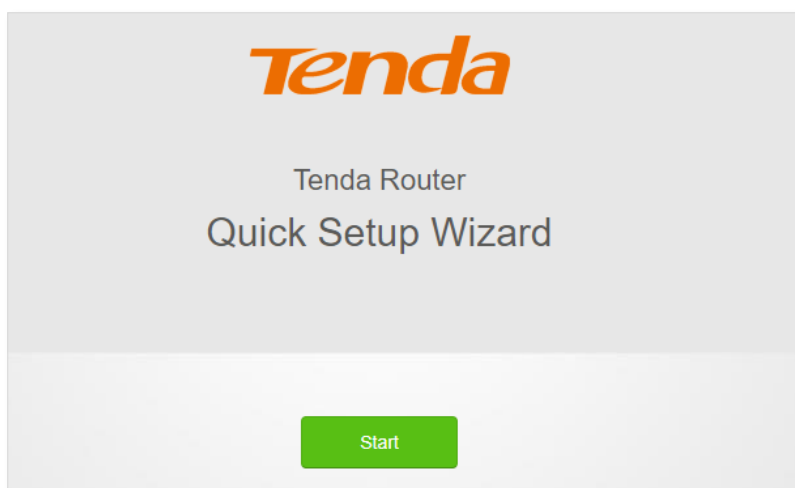
Step 1 Log in to the web UI of the router.

1. Put the new router near the existing router and power it on. Connect your wireless device to the Wi-Fi network of your new router, or connect a computer to the LAN port of the router. Do not connect any device to the WAN port of the new router.
2. Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router. A computer is used for illustration below.

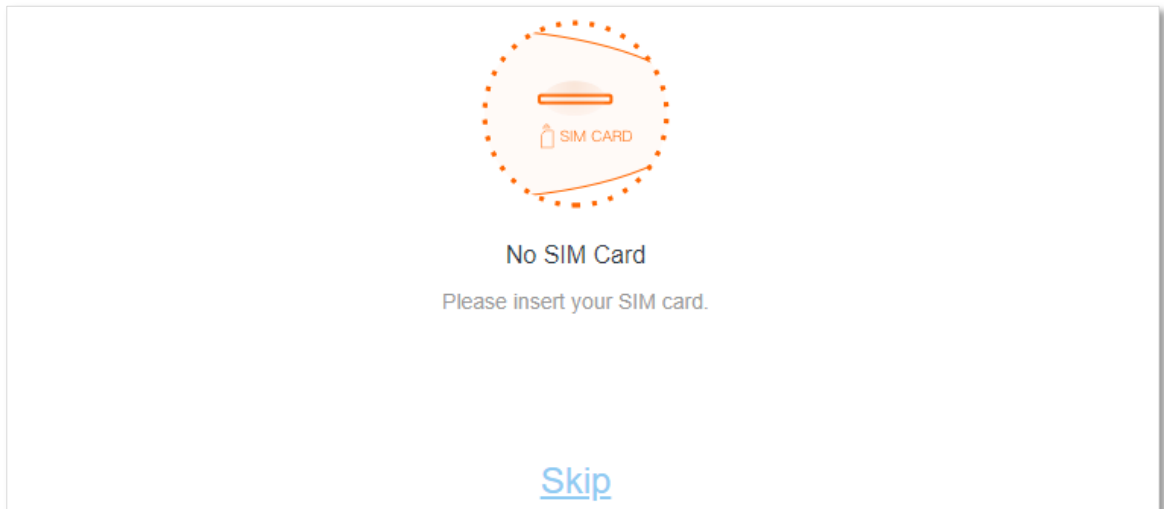


If you have finished the quick setup wizard before, skip to **Step 2** to proceed with the configuration.

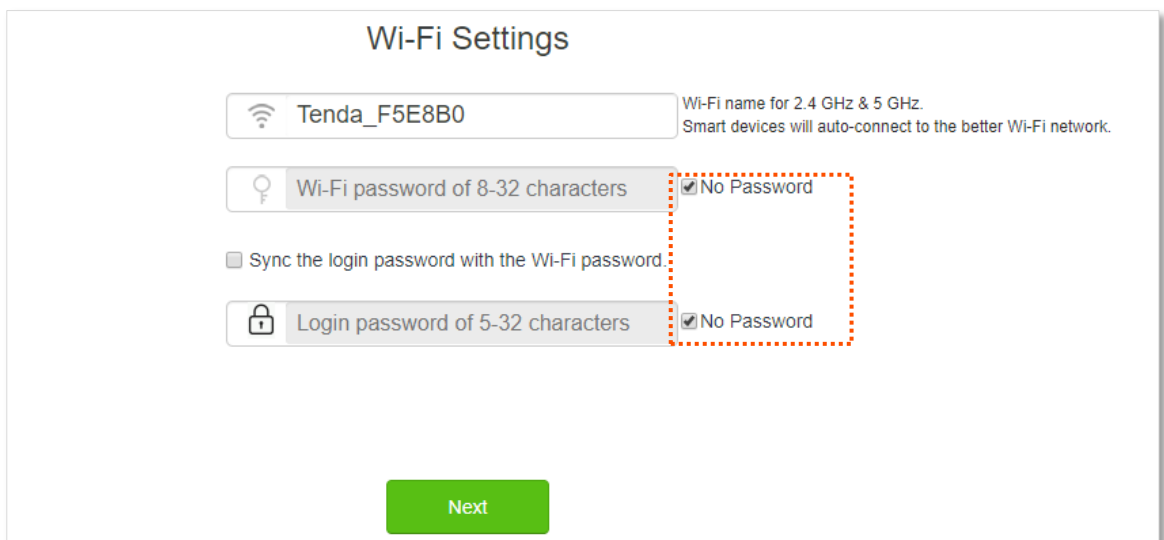
3. Click **Start**.



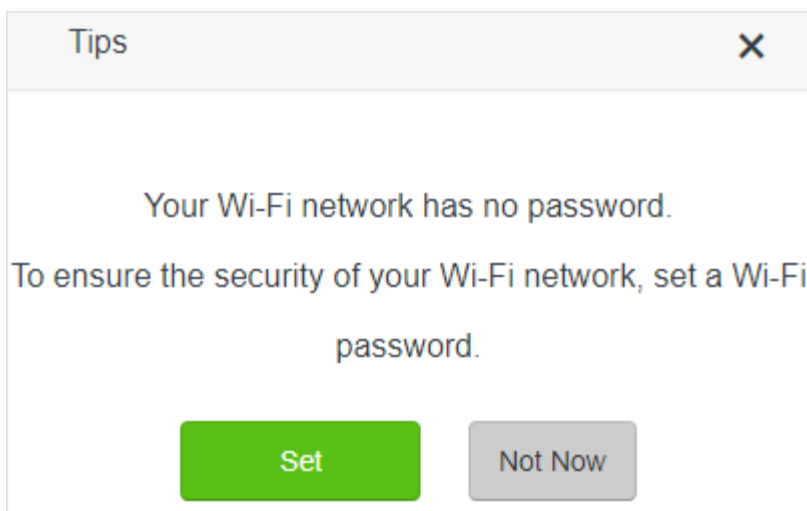
4. Click **Skip**.



5. Do not set login and Wi-Fi password now, and click **Next**.

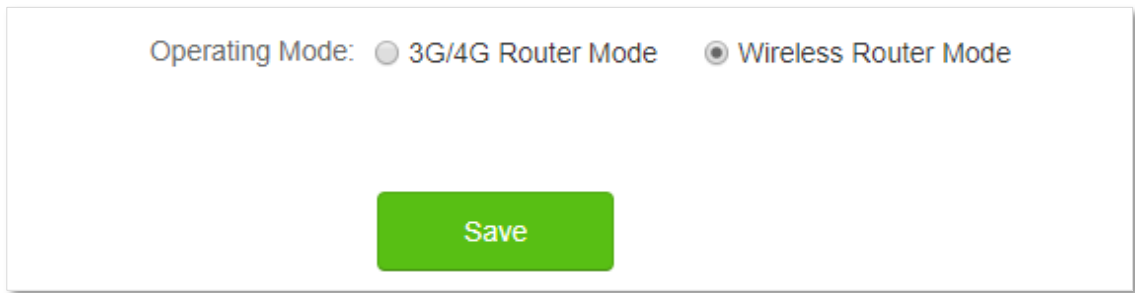


6. Click **Not Now**.



- Step 2** Set the router to wireless router mode.

1. Choose **Advanced Settings > Operating Mode**.
2. Click **Wireless Router Mode**, and click **Save**.

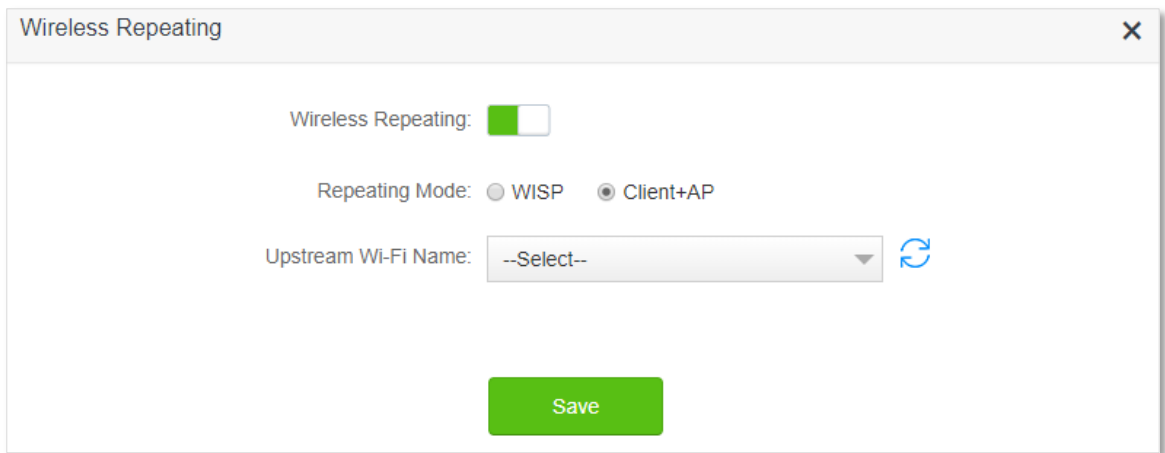


Operating Mode: ☐ 3G/4G Router Mode ☒ Wireless Router Mode

Save

Step 3 Set the new router to **Client+AP** mode.

1. Choose **Wi-Fi Settings > Wireless Repeating**.
2. Enable **Wireless Repeating**, and choose **Client+AP**.
3. Click **Select** to select the existing Wi-Fi network, which is **Home_Wi-Fi** in this example.



Wireless Repeating

Wireless Repeating: ☒

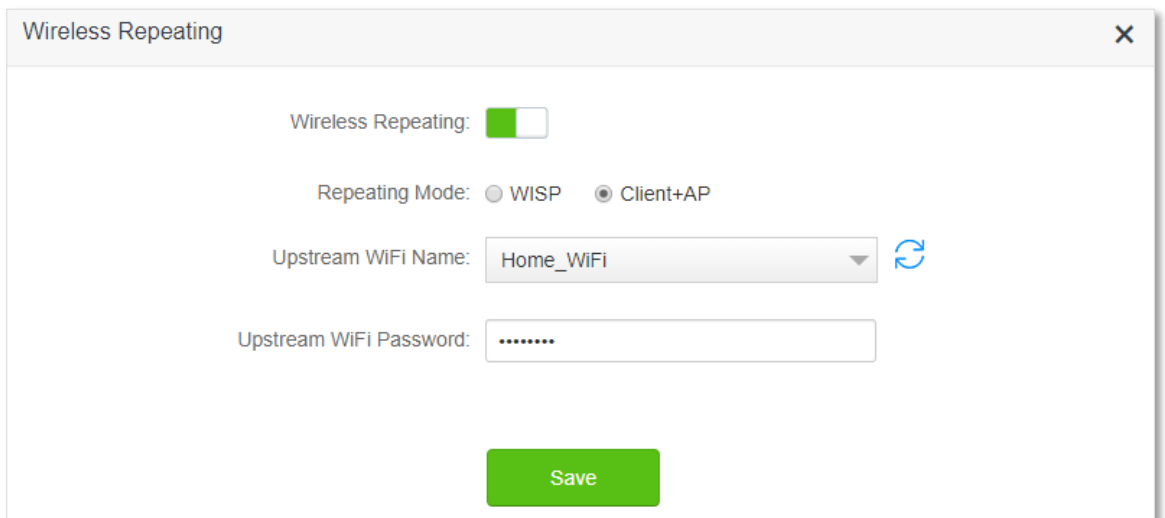
Repeating Mode: ☐ WISP ☒ Client+AP

Upstream Wi-Fi Name: --Select-- 

Save

Step 4 Enter the **Upstream Wi-Fi Password**, which is **12345678** in this example.

Step 5 Click **Save**.



Wireless Repeating

Wireless Repeating: ☒

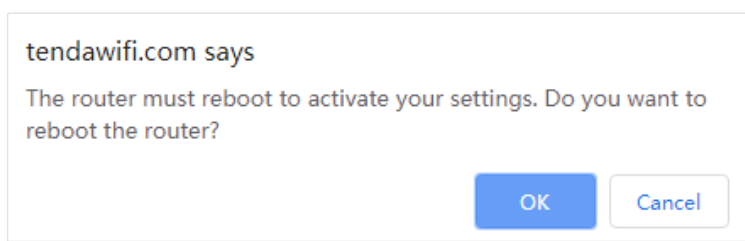
Repeating Mode: ☐ WISP ☒ Client+AP

Upstream WiFi Name: Home_WiFi 

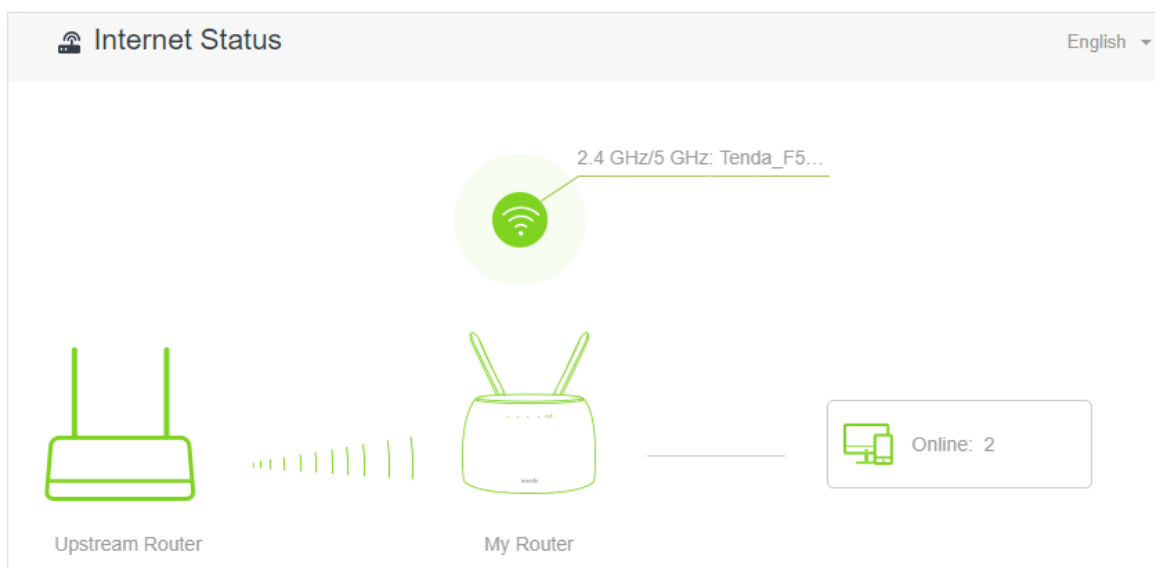
Upstream WiFi Password:

Save

Step 6 Click **OK**, and wait for the router to reboot.



Step 7 Log in to the web UI of the router again, navigate to **Internet Status** to check if the wireless repeating succeeds.



Step 8 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, refrigerator.
- Above the ground with few obstacles.

NOTE

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) 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.

---End

To access the internet, connect your computer to the LAN port of the new router, or connect your smart phone to the Wi-Fi network of the new router.

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

Wi-Fi Name & Password

Unify 2.4 GHz & 5 GHz

Enable Wi-Fi network

Wi-Fi Name:

Tenda_F5E8B0

Hide

Encryption Mode:

None

Wi-Fi Password:

Save



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 Wi-Fi 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.

5.4 Channel & bandwidth

In this section, you are allowed to change network mode, wireless channel, and wireless bandwidth of 2.4 GHz and 5 GHz Wi-Fi networks.

To access the configuration page, log in to the web UI of the router, and choose **Wi-Fi Settings > Channel & Bandwidth**.



TIP

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:

11b/g/n mixed

Channel:

Auto

Bandwidth:

20/40

5 GHz Network

Network Mode:

11a/n/ac mixed

Channel:

Auto

Bandwidth:

20/40/80

Save

Parameter description

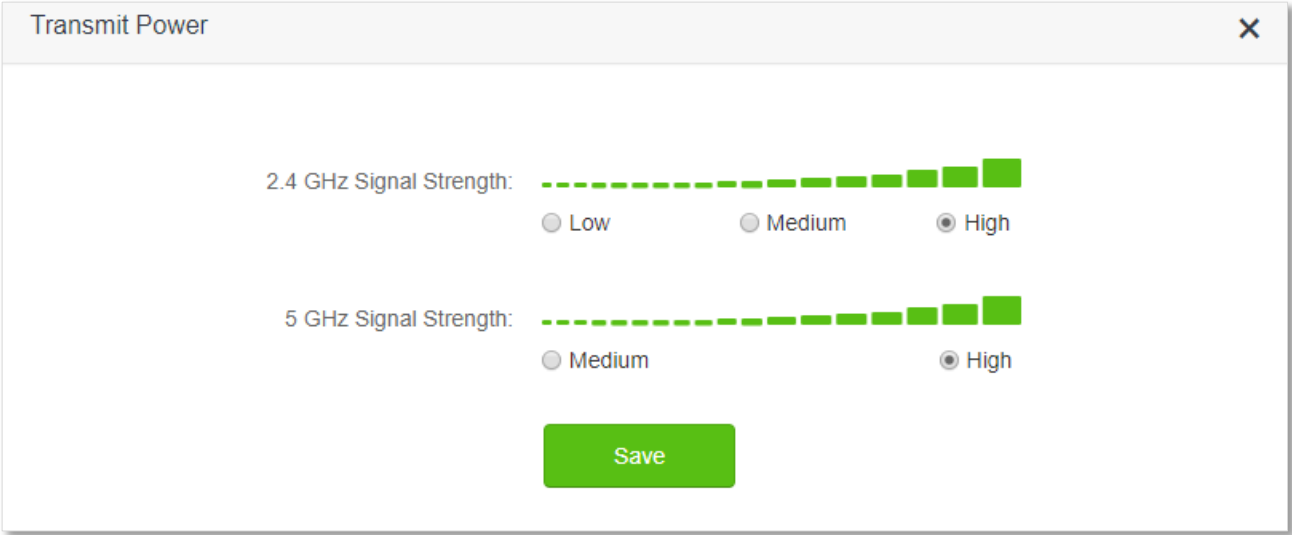
Parameter	Description
Network Mode	It specifies various protocols adopted for wireless transmission.
	2.4 GHz Wi-Fi network supports 11n, 11b/g mixed and 11b/g/n mixed modes.
	• 11n: It indicates that devices compliant with IEEE 802.11n protocol can connect to the 2.4 GHz Wi-Fi network of the router.
	• 11b/g mixed: It indicates that devices compliant with IEEE 802.11b or IEEE 802.11g protocol can connect to the 2.4 GHz Wi-Fi network of the router.
	• 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

Parameter	Description
	5 GHz Wi-Fi network supports 11ac, 11a/n/ac mixed modes. • 11ac: It indicates that devices compliant with IEEE 802.11ac protocol can connect to the router. • 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.
Wi-Fi Channel	It specifies the channel in which the Wi-Fi network works. By default, the wireless channel is Auto, which indicates that the router selects a channel for the Wi-Fi 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 Wi-Fi signals nearby to understand the channel usage situations.
Wi-Fi Bandwidth	It specifies the bandwidth of the wireless channel of a Wi-Fi network. Please change the default settings only when necessary. • 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 among 20 MHz, 40 MHz, and 80 MHz based on the ambient environment. This option is available only at 5 GHz.

5.5 Transmit power

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

To access the configuration page, log in to the web UI of the router, and choose **Wi-Fi Settings > Transmit Power**.

A screenshot of the 'Transmit Power' configuration window. The window has a title bar with 'Transmit Power' and a close button. Inside, there are two signal strength settings. The first is '2.4 GHz Signal Strength' with a progress bar and three radio buttons: 'Low', 'Medium', and 'High'. The 'High' button is selected. The second is '5 GHz Signal Strength' with a progress bar and two radio buttons: 'Medium' and 'High'. The 'High' button is selected. At the bottom center is a green 'Save' button.

Parameter	Description
Signal Strength	It specifies the mode of signal strength. The default mode is High .
	• 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 small area or barrier-free environments.
	 TIP
	It is recommended to choose the Low mode if the network experience is satisfactory enough under this mode.

5.6 WPS

5.6.1 Overview

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

To access the configuration page, log in to the web UI of the router, and choose **Wi-Fi Settings > WPS**.



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

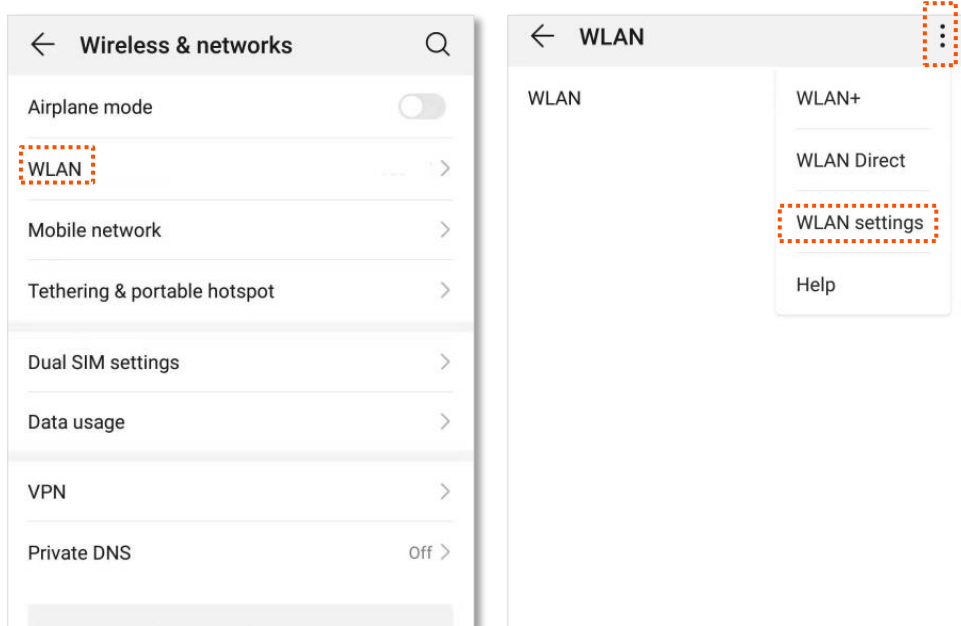
5.6.2 Connect devices to the Wi-Fi network using the WPS button

Configuring procedure:

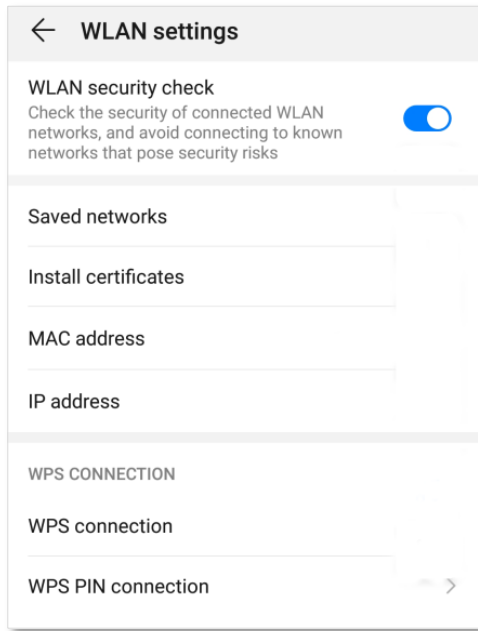
Step 1 Find the **RST/WPS** button on the rear panel of the router, and hold it down for 1 to 3 seconds. The Wi-Fi indicator blinks slow.

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 choose **WLAN settings**.

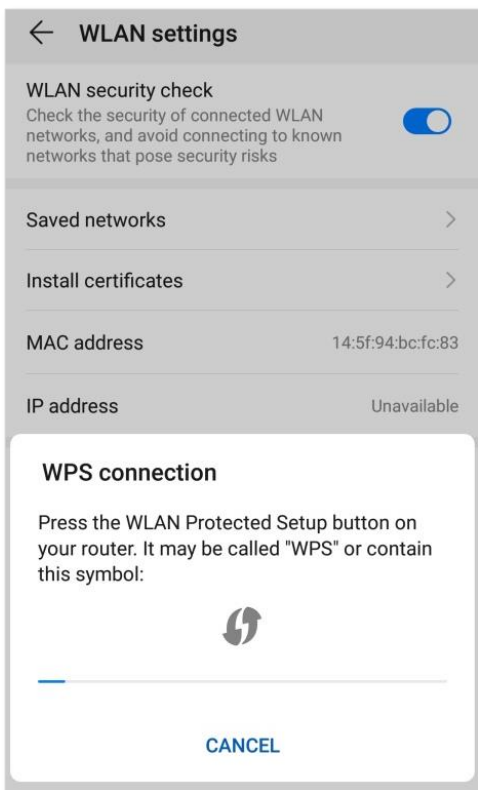


3. Choose **WPS connection**.



---End

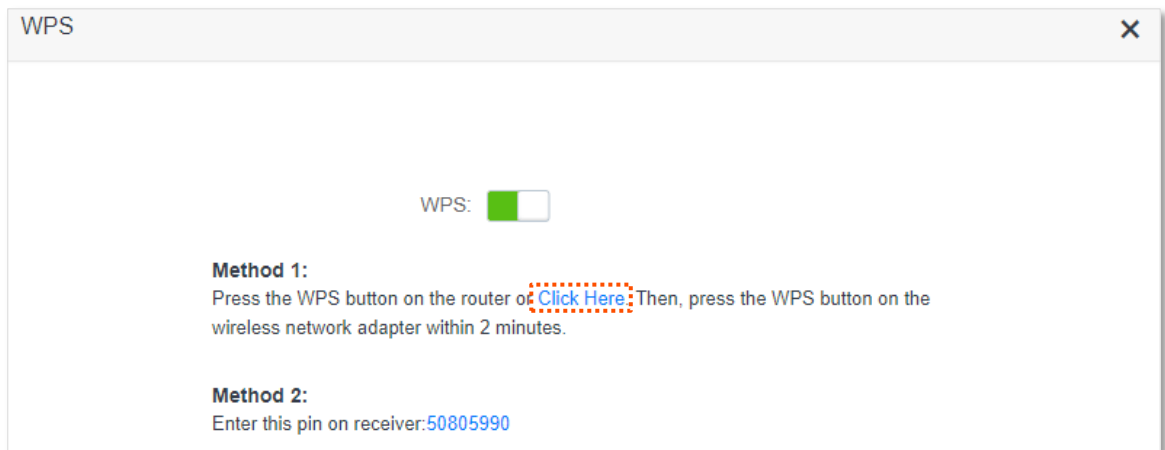
Wait a moment until the WPS negotiation is completed, and the phone is connected to the Wi-Fi network.



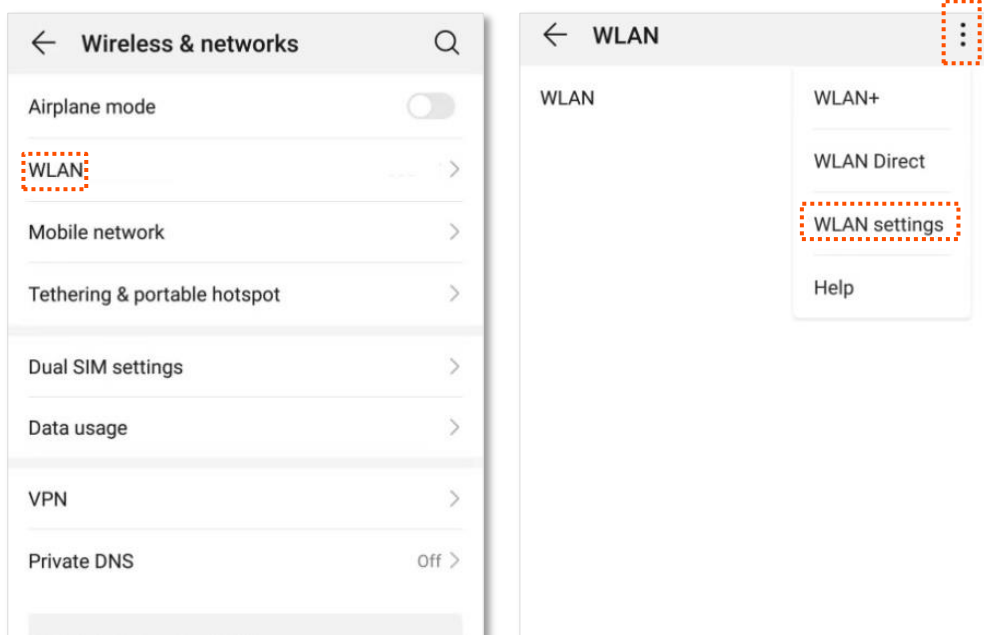
5.6.3 Connect devices to the Wi-Fi network through the web UI of the router

Configuring procedure:

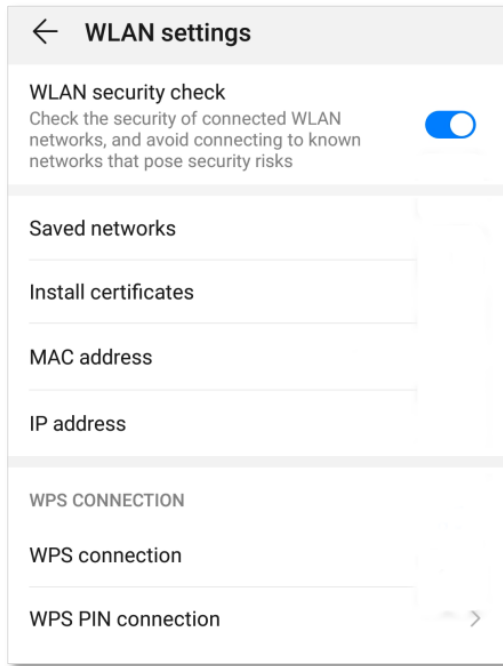
- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Wi-Fi Settings > WPS**.
- Step 3** Click [Click Here](#) below **Method 1**.



- 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 choose **WLAN settings**.

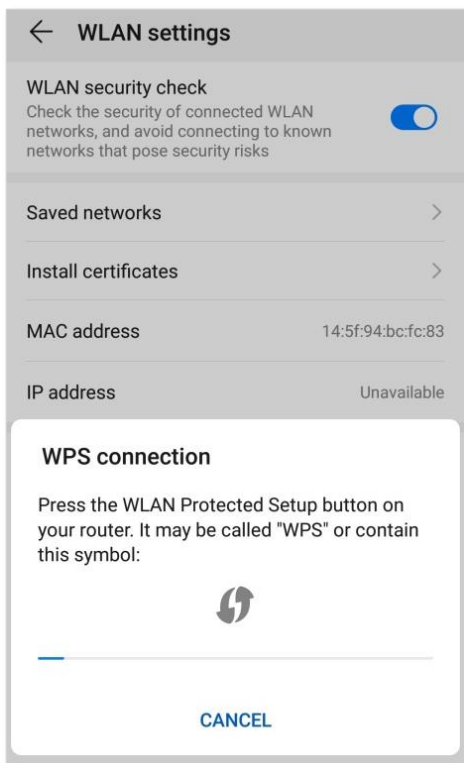


3. Choose WPS connection.



---End

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



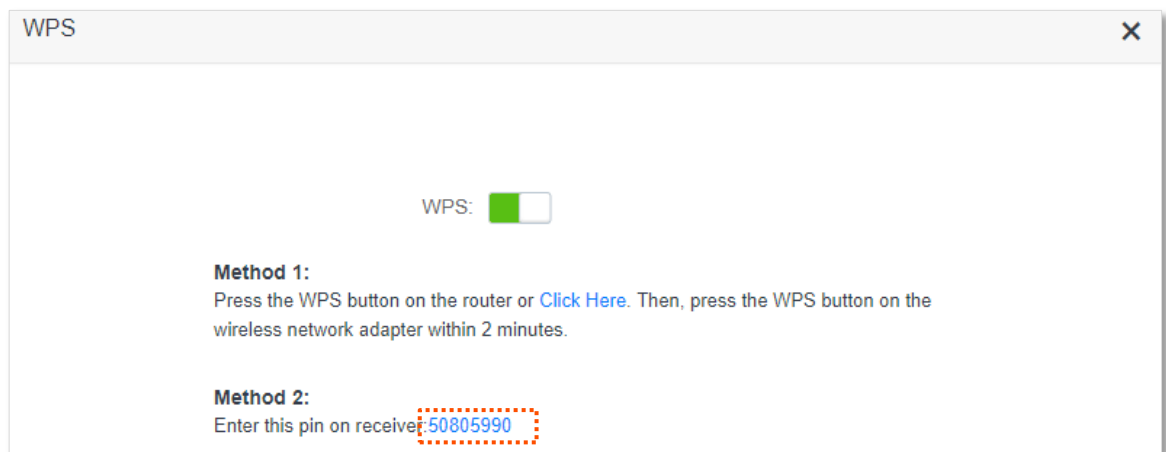
5.6.4 Connect devices to the Wi-Fi network using the PIN code of the router



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

Configuring procedure:

Step 1 Find the PIN code of the router by logging in to the web UI of the router, and navigate to **Wi-Fi 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.

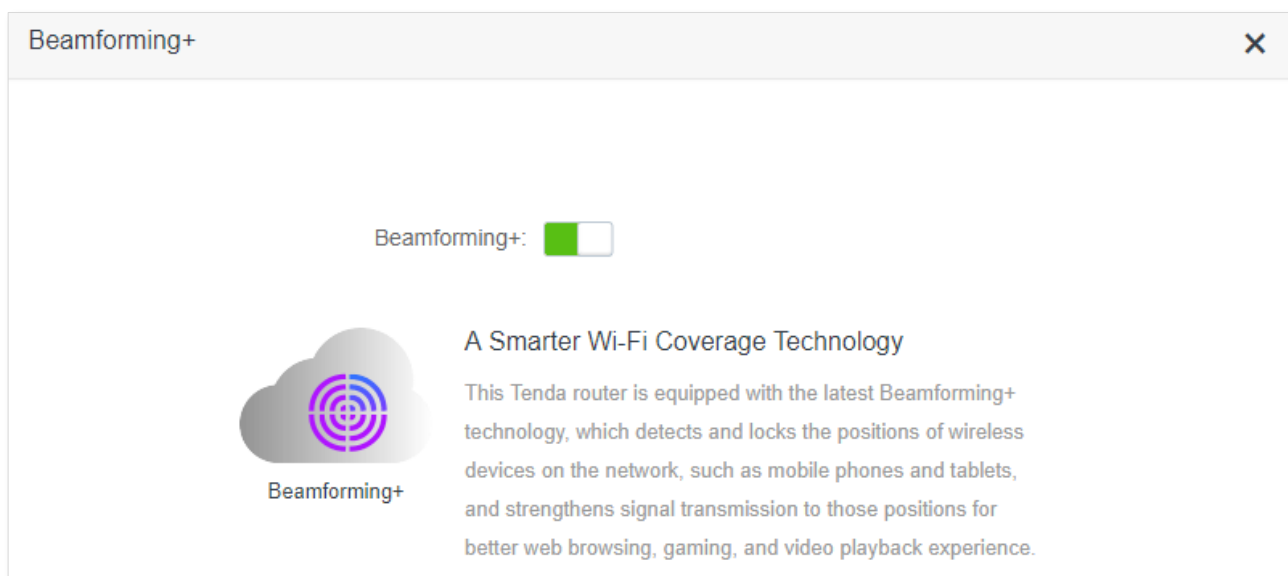
---End

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

5.7 Beamforming+

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

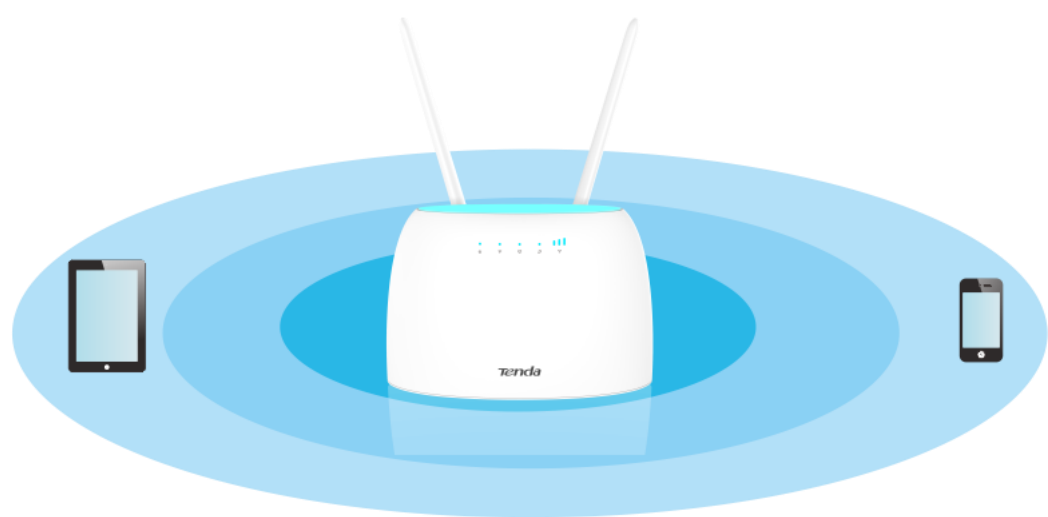
To access the configuration page, log in to the web UI of the router, and choose **Wi-Fi Settings > Beamforming+**.



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



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



5.8 AP mode



This function is only available under the wireless router mode. Refer to [Operating mode](#) to set the operating mode of the router.

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

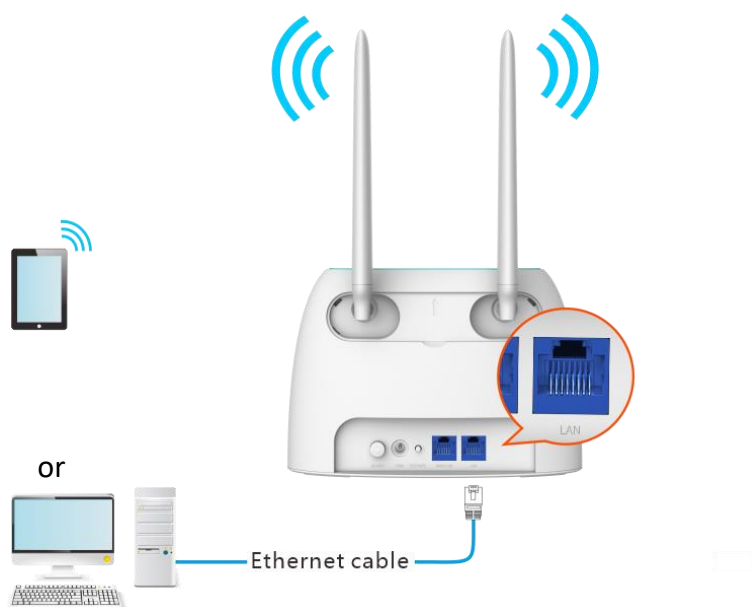


When the router is set to AP mode:

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

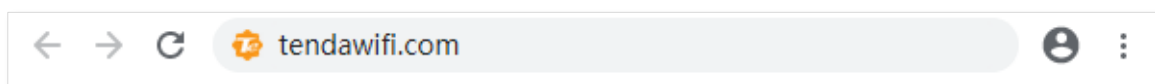
Configuring procedure:

Step 1 Power on the router. Connect a computer to the LAN port of the router, or connect your smart phone to the Wi-Fi network of the router.



Step 2 Log in to the web UI of the router.

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

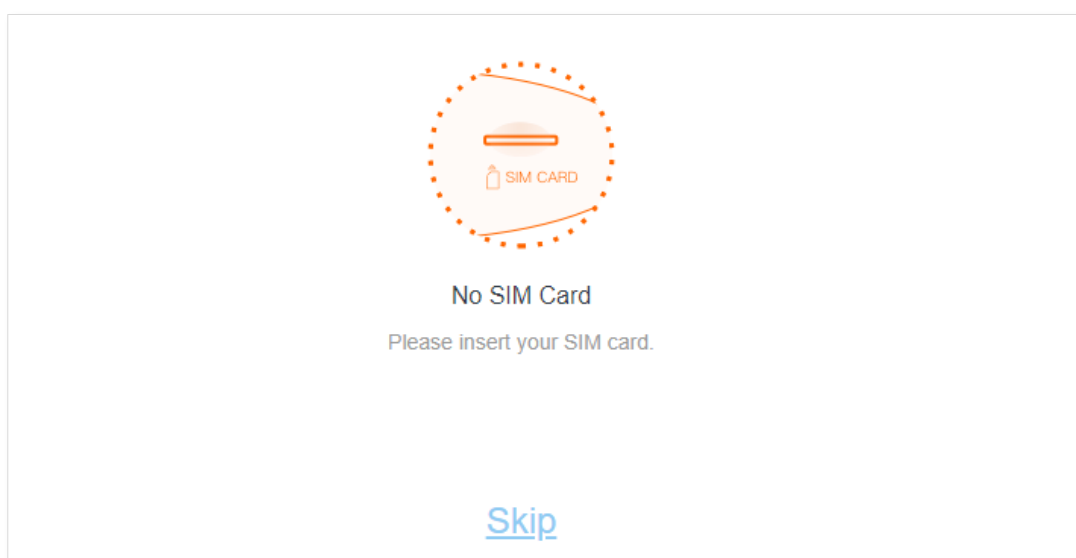


If you have finished the quick setup wizard before, skip to **Step 2** to proceed with the configuration.

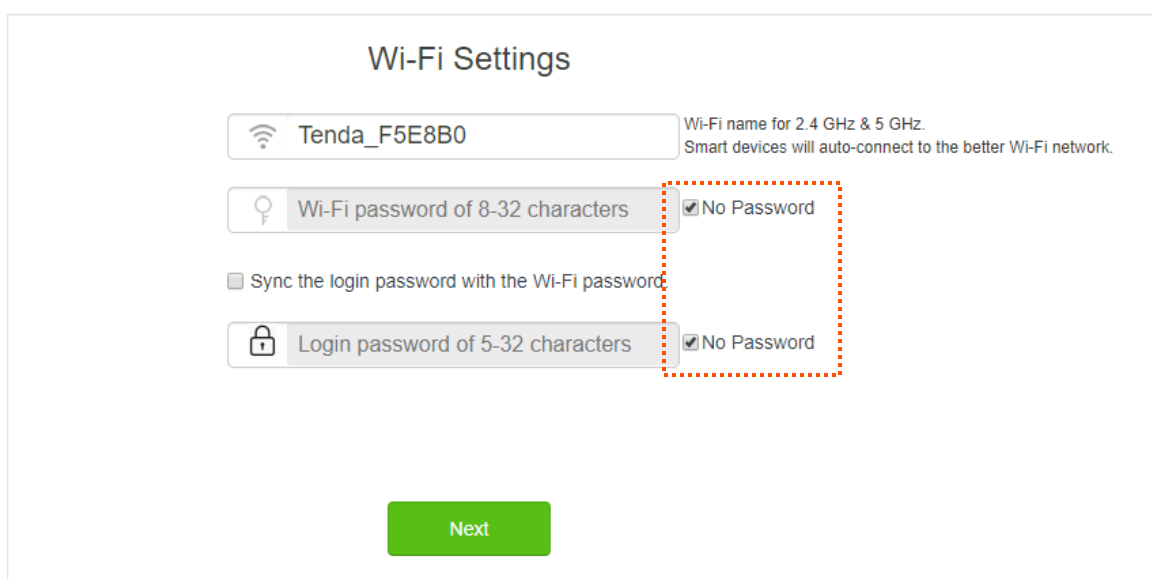
2. Click **Start**.



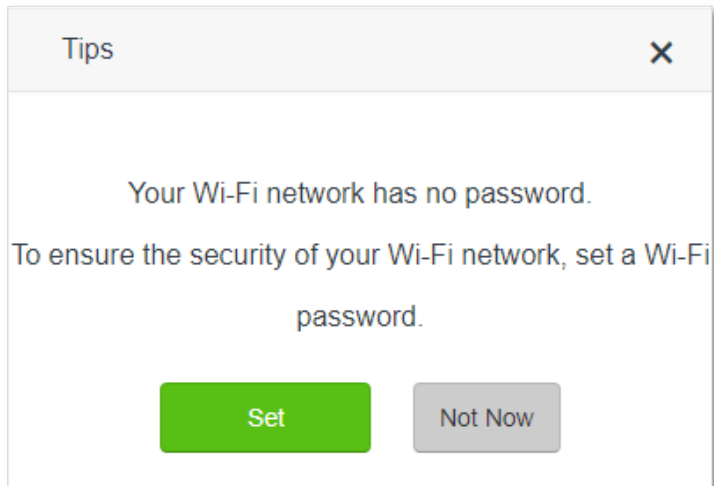
3. Click **Skip**.



4. Do not set login and Wi-Fi password now by ticking **No Password**, and click **Next**.

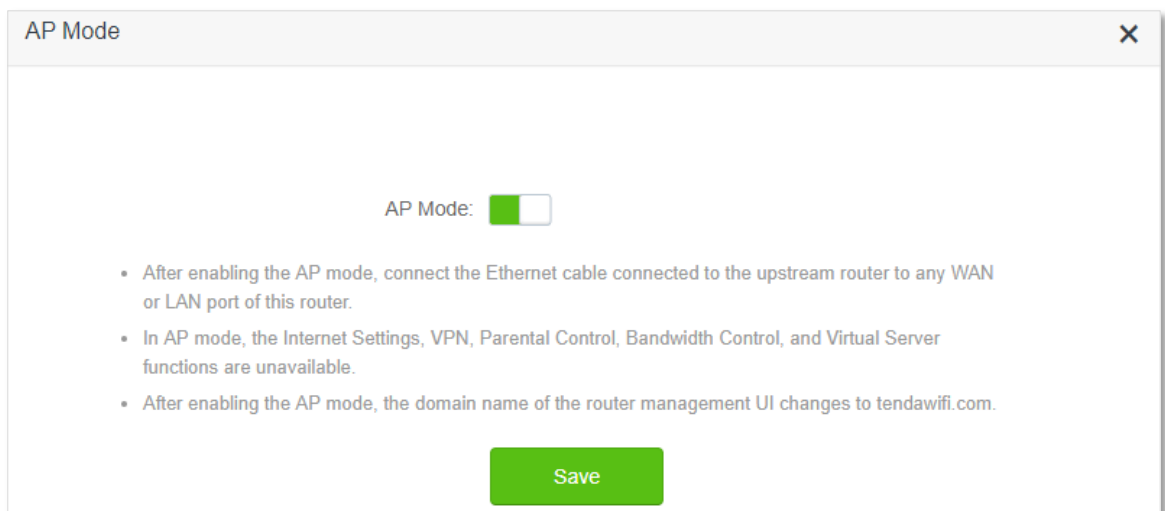


5. Click **Not Now**.

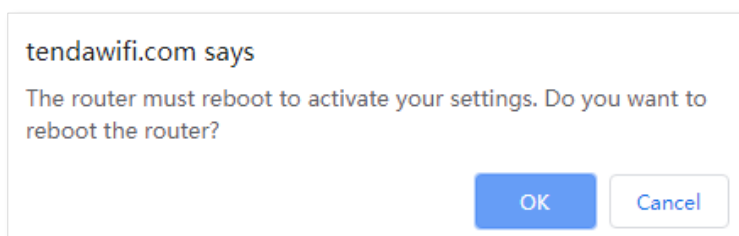


- Step 3** Set the router to AP mode.

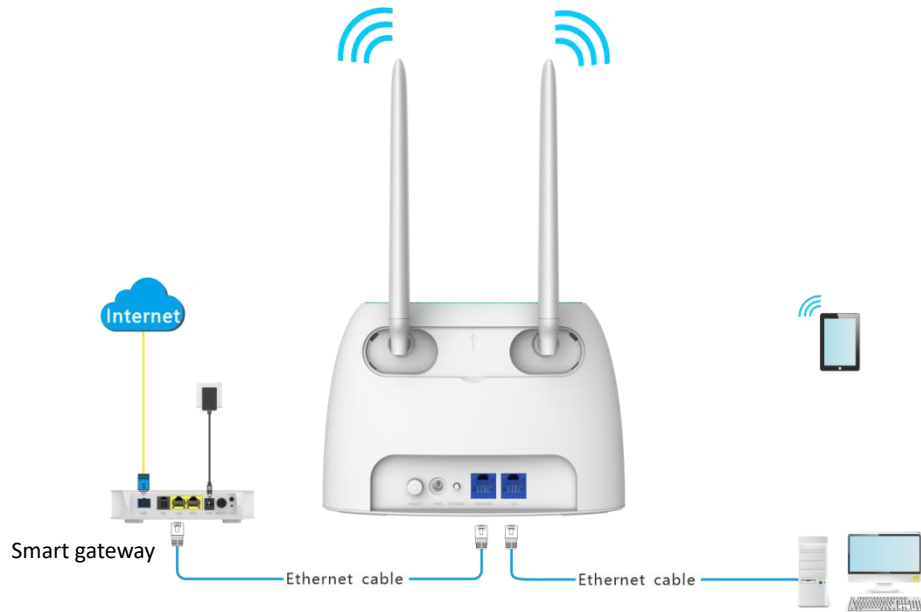
1. Navigate to **Wi-Fi Settings > AP Mode**.
2. Enable **AP Mode**.
3. Click **Save**.



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

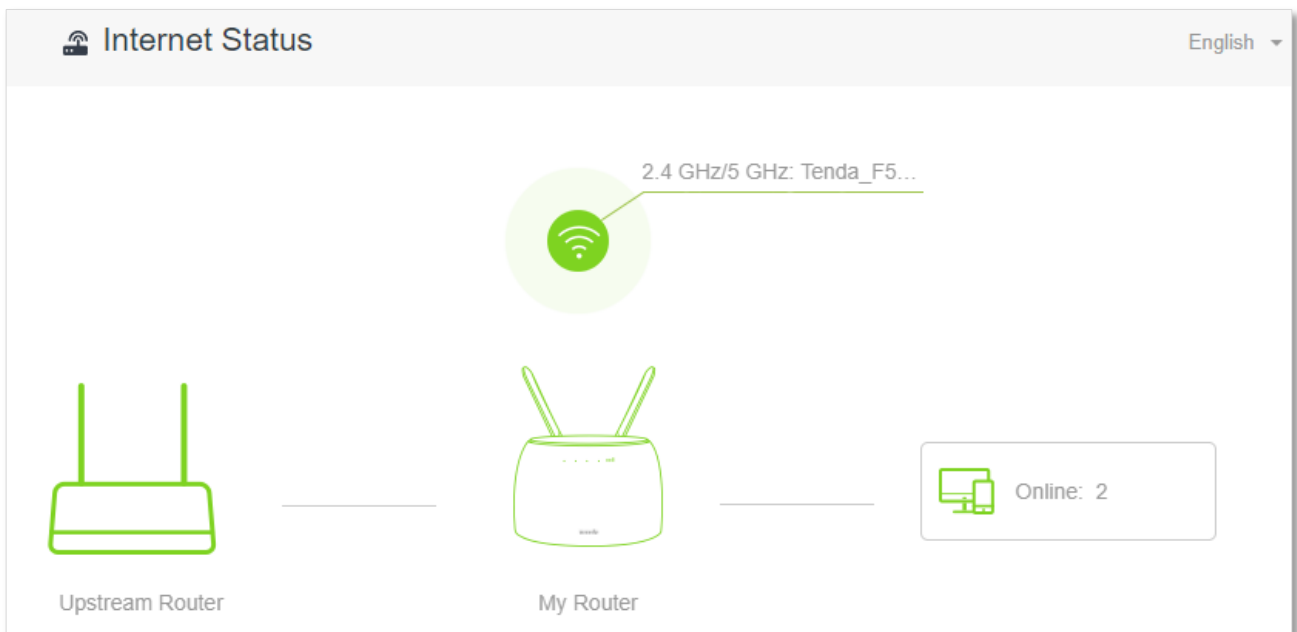


Step 5 Connect the upstream device, such as a gateway, to any port of the router.



---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.



NOTE

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 physical port, or connect your smart phone to the Wi-Fi network.

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

Wi-Fi Name & Password

Unify 2.4 GHz & 5 GHz

Enable Wi-Fi network

Wi-Fi Name:

Tenda_F5E8B0

Hide

Encryption Mode:

None

Wi-Fi Password:

Save



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

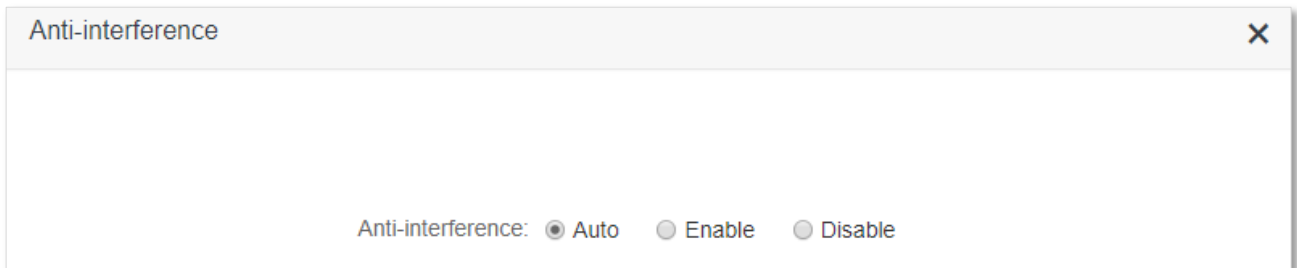
- Ensure that the existing router is connected to the internet successfully.
- Ensure that your wireless devices are connected to the correct Wi-Fi network of the new router.
- If the computer connected to the router cannot access the internet, ensure that the computer is configured to obtain an IP address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

5.9 Anti-interference

The router supports anti-interference function. When you are experiencing unsatisfactory internet access, you can try to change the anti-interference settings to improve it.

To access the configuration page, log in to the web UI of the router, and choose **Wi-Fi Settings > Anti-interference**.

The default setting is **Auto**.



- **Auto:** It indicates that the router will automatically adjust the receiving sensitivity according to the interference of the current environment. It is recommended to keep **Auto**.
- **Enable:** It indicates that the anti-interference ability of the router improves, but the Wi-Fi network coverage is reduced.
- **Disable:** It indicates that the wireless coverage of the router is improved. If the wireless interference in the environment is strong, it is recommended to select **Auto** or **Enable**.

6 SMS (3G/4G router mode)



This function is only available under the 3G/4G router mode. Refer to [Operating mode](#) to set the operating mode of the router.

6.1 Manage SMS messages

This router supports sending, receiving and deleting SMS messages in the web UI of the router.

To access the page, log in to the web UI of the router, and choose **SMS > Messages**.

The screenshot shows a web interface titled "Messages" with a close button (X) in the top right corner. On the left, there is a green button labeled "New Message". On the right, there is a button labeled "Edit". Below these buttons, there is a message entry showing a phone number "173 2281" and the text "hello". To the right of the message, the timestamp "20/02/28 13:20:27" is displayed.

6.1.1 Send SMS messages

Send SMS messages to a new phone number

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **SMS > Messages**.
- Step 3** Click **New Message**.
- Step 4** Enter the phone number in the **Send To** column.
- Step 5** Enter the message content in the **Message** column at the bottom.

The screenshot shows a web interface titled "New Messages" with a back arrow and a close button (X) in the top left corner. The form has two main input areas: "Send To:" and "Message". The "Send To:" area is a large text input field. The "Message" area is a larger text input field. To the right of the "Message" input field, there is a button labeled "Send".

Step 6 Click **Send** at the bottom right corner.

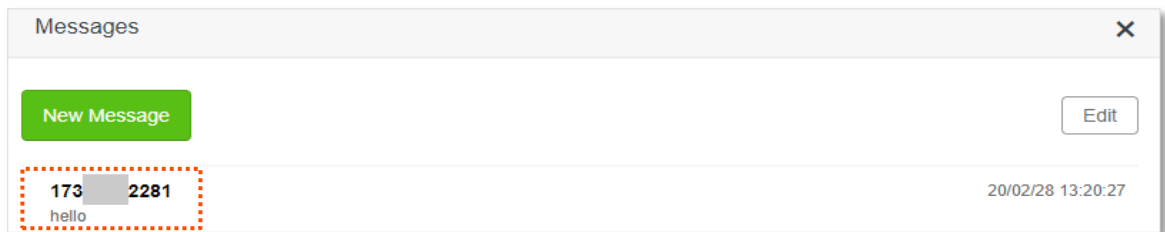
---End

Send messages to an existing phone number

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

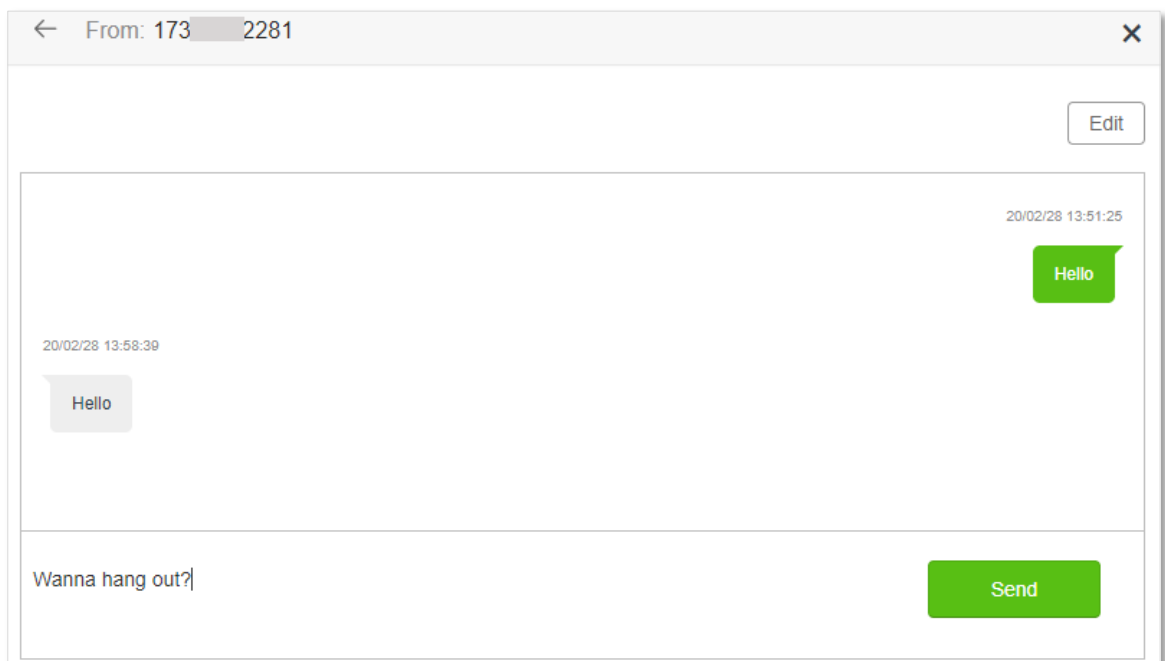
Step 2 Choose **SMS > Messages**.

Step 3 Click the targeted phone number.



Step 4 Enter the message content in the **Message** column at the bottom.

Step 5 Click **Send**.



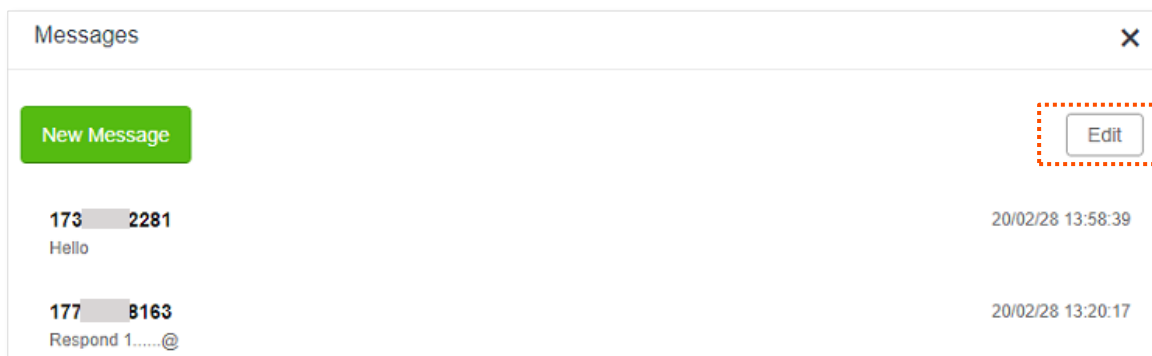
---End

After the messages are sent, you can view them on the same page.

6.1.2 Delete SMS messages

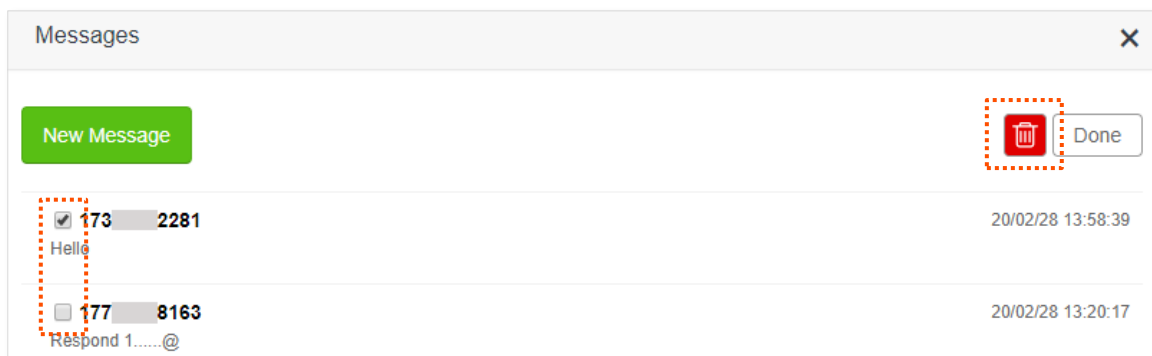
Delete all messages of the same phone numbers

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **SMS > Messages**.
- Step 3** Click **Edit** on the top right corner.



- Step 4** Select one or more phone number to be deleted.

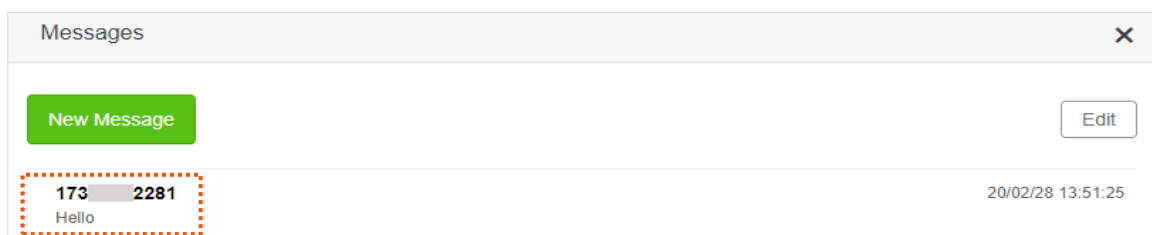
- Step 5** Click  (click **Done** to cancel).



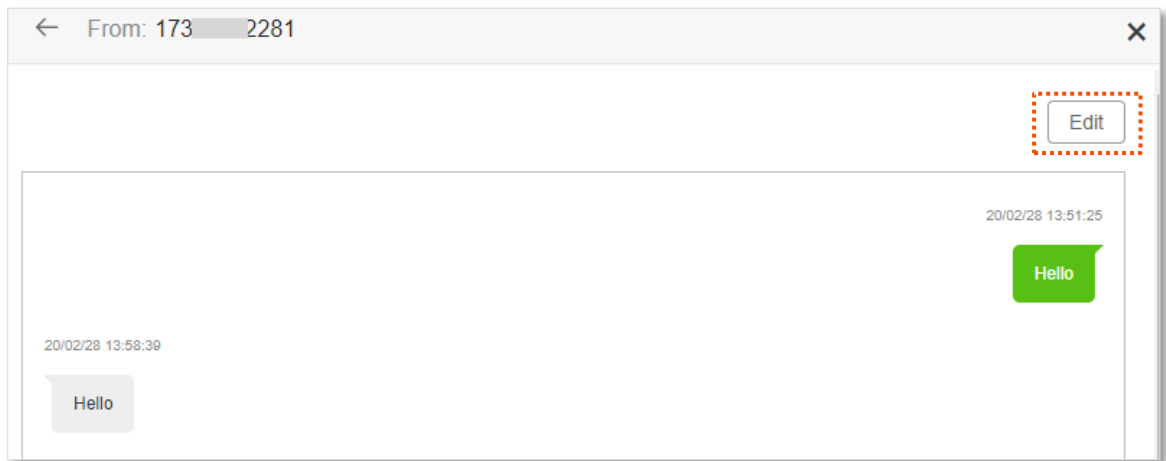
---End

Delete certain messages of the same phone number

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **SMS > Messages**.
- Step 3** Click the targeted phone number.

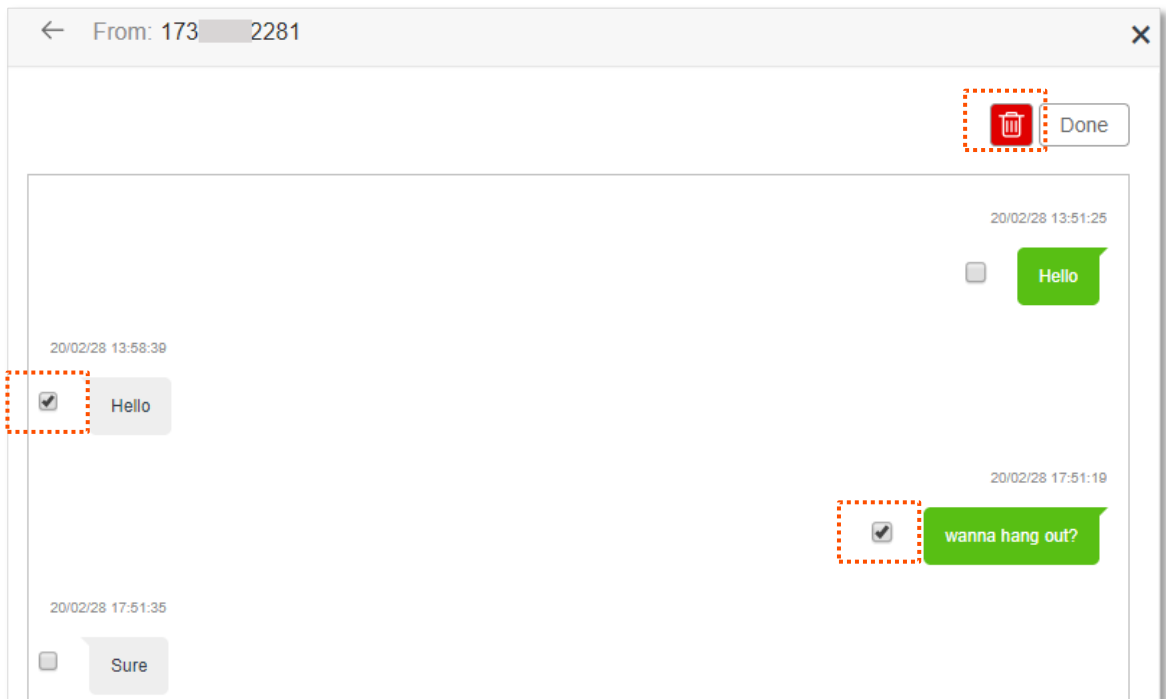


Step 4 Click **Edit**.



Step 5 Select the messages to be deleted.

Step 6 Click  (click **Done** to cancel).



---End

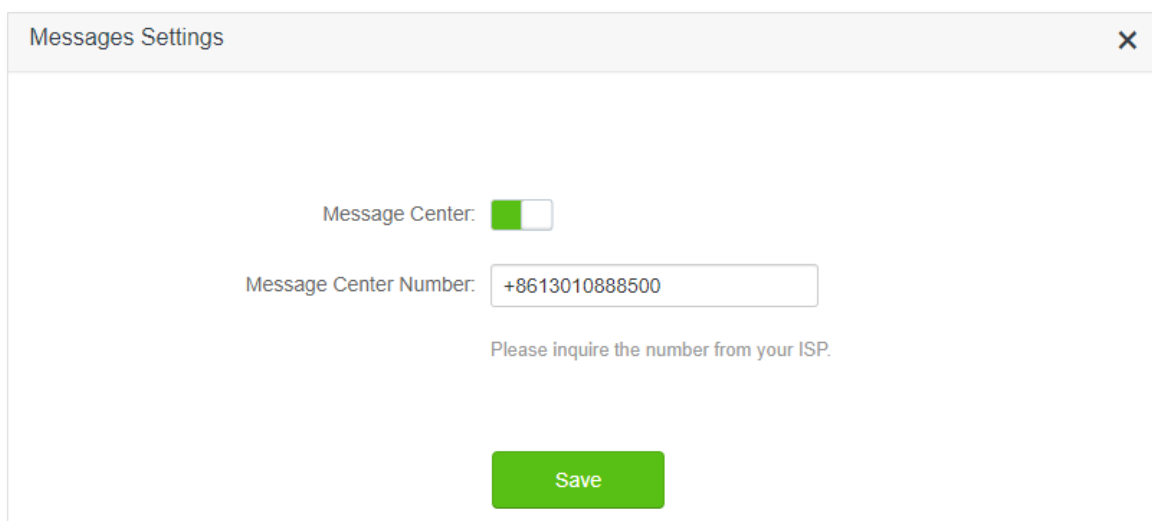
6.2 Set the message center number

Message center is the short message server for SMS messages. You will be unable to send SMS messages with a wrong message center number.

The router can automatically detect the message center number after you insert a SIM card. If you have problems in sending SMS messages, you are recommended to inquire your ISP for the message center number and change it in the web UI of the router if it is wrong.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **SMS > Message Center**.
- Step 3** Enable **Message Center**.
- Step 4** Enter the correct **Message Center Number**.
- Step 5** Click **Save**.



Messages Settings

Message Center: ☒

Message Center Number:

Please inquire the number from your ISP.

Save

---End



Contact your ISP for correct message center number.

6.3 Inquire information by sending USSD commands

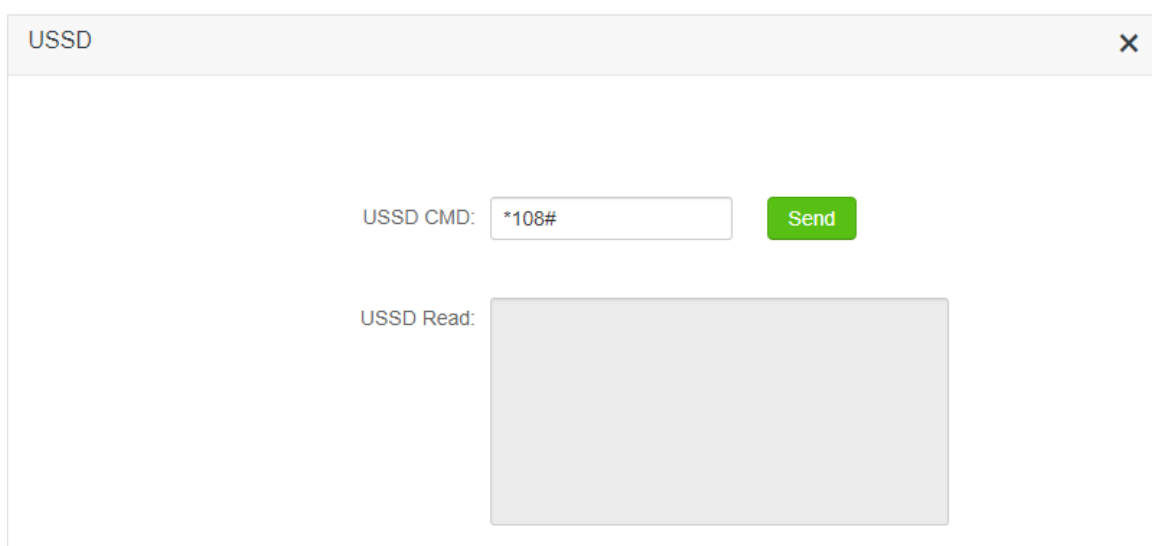
With **USSD** function, you can inquire specific information or perform specific operations by send a special code or command to your ISP.



Such codes or commands are predetermined. You can contact your ISP to find those codes or commands.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **SMS > USSD**.
- Step 3** Enter a **USSD CMD**, such as ***108#**.
- Step 4** Click **Send**.



The screenshot shows a web interface titled "USSD" with a close button (X) in the top right corner. Below the title, there is a label "USSD CMD:" followed by a text input field containing the value "*108#". To the right of the input field is a green button labeled "Send". Below this, there is a label "USSD Read:" followed by a large, empty rectangular box intended for the response.

---End

Wait a moment, you will get the desired information you want in the **USSD Read** box.

7

Guest network

7.1 Overview

In this module, you can enable/disable the guest network function and change the Wi-Fi 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 of the router and navigate to the **Guest Network**. This function is disabled by default.

Guest Network English ▾

Guest Network: ☐

2.4 GHz Wi-Fi Name:

5 GHz Wi-Fi Name:

Guest Network Password:

Validity: ▾

Bandwidth for Guests: ▾ Mbps

Save

Parameter description

Parameter	Description
Guest Network	It is used to enable or disable the guest network function.
2.4 GHz Wi-Fi Name	It specifies the Wi-Fi name of the router's guest network. By default, Tenda_VIP is for the 2.4 GHz Wi-Fi network and Tenda_VIP_5G for the 5 GHz Wi-Fi network.
5 GHz Wi-Fi Name	You can change the SSIDs (Wi-Fi names) as required. To distinguish the guest network from the main network, you are recommended to set different Wi-Fi network names.
Guest Network Password	It specifies the password for the router's two guest networks.

Parameter	Description
Password	
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.

7.2 An example of configuring the guest network

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

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

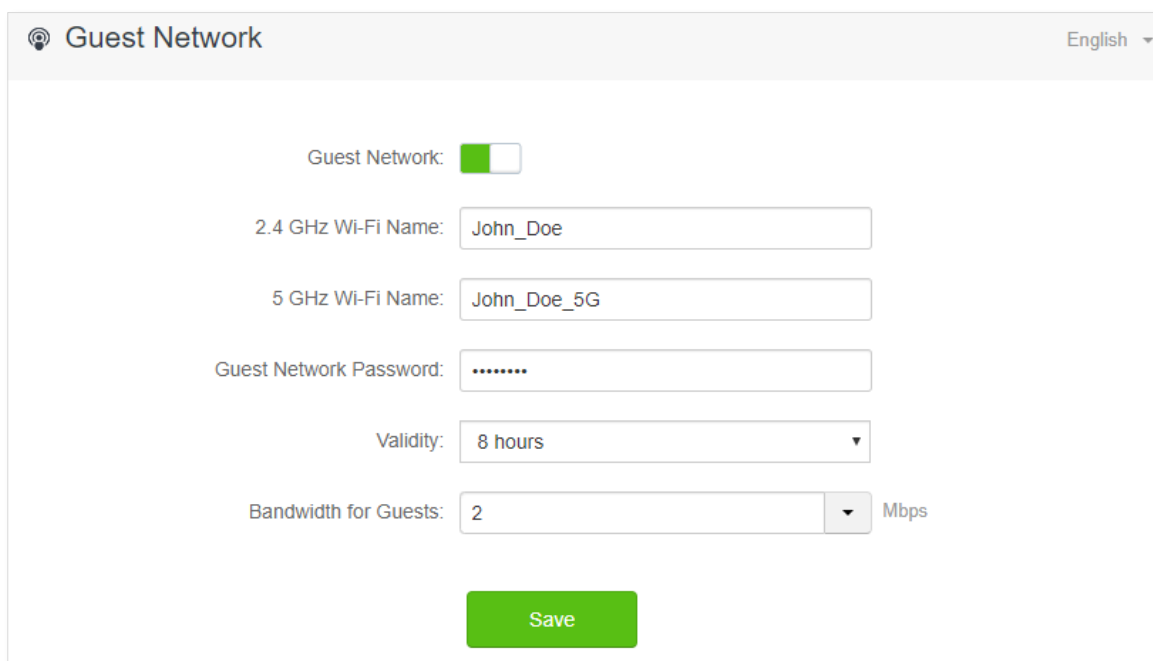
Solution: You can configure the guest network function and let your guests to use the guest networks.

Assume that the parameters you are going to set for the guest Wi-Fi network:

- Wi-Fi names for 2.4 GHz and 5 GHz networks: John_Doe and John_Doe_5G.
- Wi-Fi password for 2.4 GHz and 5 GHz networks: 12345678.
- The shared bandwidth for guests: 2 Mbps.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Guest Network**.
- Step 3** Enable the **Guest Network**.
- Step 4** Set the **2.4 GHz Wi-Fi Name**, which is **John_Doe** in this example.
- Step 5** Set the **5 GHz Wi-Fi Name**, which is **John_Doe_5G** in this example.
- Step 6** Set the **Guest Network Password**, which is **12345678** in this example.
- Step 7** Select a validity time from the **Validity** drop-down box, which is **8 hours** in this example.
- Step 8** Set the bandwidth in the **Shared Bandwidth for Guests** drop-down box, which is **2** in this example.
- Step 9** Click **Save**.



The screenshot shows the 'Guest Network' configuration page. At the top, there is a title 'Guest Network' and a language dropdown set to 'English'. Below the title, there is a toggle switch for 'Guest Network' which is currently turned on. Underneath, there are several input fields: '2.4 GHz Wi-Fi Name' with the value 'John_Doe', '5 GHz Wi-Fi Name' with the value 'John_Doe_5G', and 'Guest Network Password' with masked characters '.....'. Below these is a 'Validity' dropdown menu set to '8 hours'. At the bottom, there is a 'Bandwidth for Guests' dropdown menu set to '2' with a unit of 'Mbps' indicated to the right. A green 'Save' button is located at the bottom center of the form.

---End

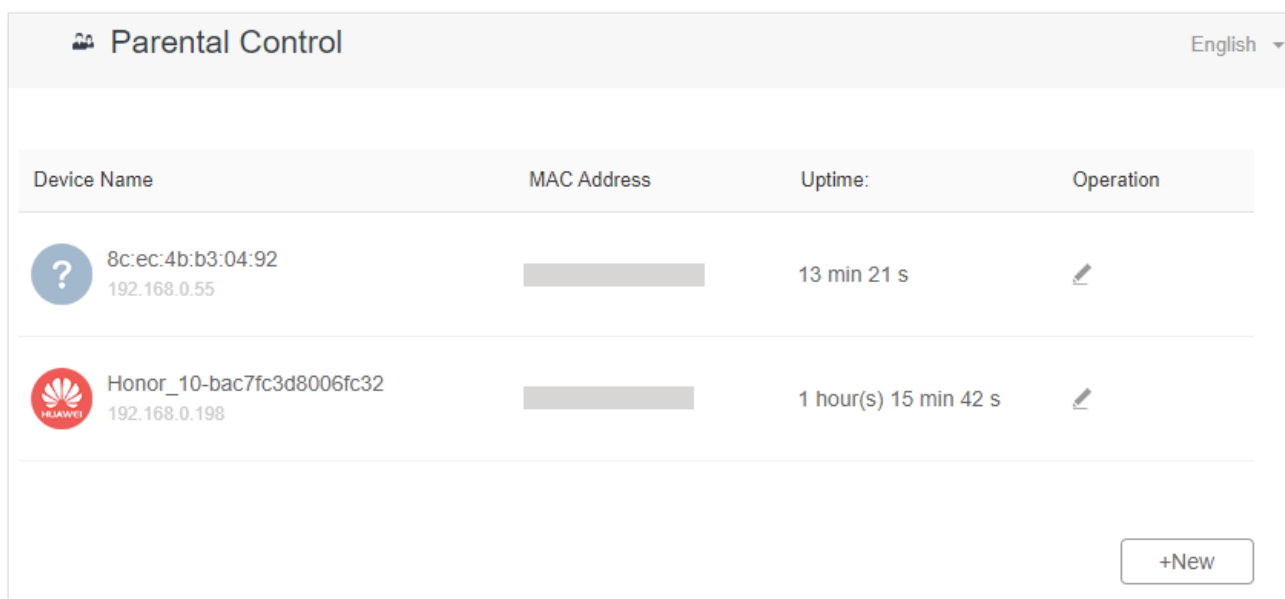
During the 8 hours after the configuration, guests can connect their wireless devices, such as smartphones, to **John_Doe** or **John_Doe_5G** to access the internet and enjoy the shared bandwidth of 2 Mbps.

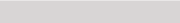
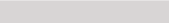
8 Parental control

8.1 Overview

On the parental control page, you can view the information of online devices and configure their internet access options.

To access the configuration page, log in to the web UI of the router, and navigate to the **Parental Control** page.



Device Name	MAC Address	Uptime:	Operation
 8c:ec:4b:b3:04:92 192.168.0.55		13 min 21 s	
 Honor_10-bac7fc3d8006fc32 192.168.0.198		1 hour(s) 15 min 42 s	

+New

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 +New to add parental control rules for devices that are not connected to the router at the time.

8.2 Configure the parental control rule

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

Parental Control

Device Name:

Optional

MAC Address:

00:00:00:00:00:00

Internet Accessible At:

19

00

~

21

00

In:

☒ Every Day

☐ Specified Day

☒ Sun.

☒ Mon.

☒ Tue.

☒ Wed.

☒ Thur.

☒ Fri.

☒ Sat.

Website Access Limit:

☒

Access Control Mode:

☒ Blacklist

☐ Whitelist

Blocked Websites:

Please enter keywords of websites.

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

Save

Parameter	Description
Device Name	It specifies the name of the device that the parental control rule applies to.
MAC Address	It specifies the MAC address of the device that the parental control rule applies to.
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	When the website access limit function is enabled, there are two access control modes available. • 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 at all 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

Parameter	Description
	access the internet at all 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	

8.3 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 during 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.

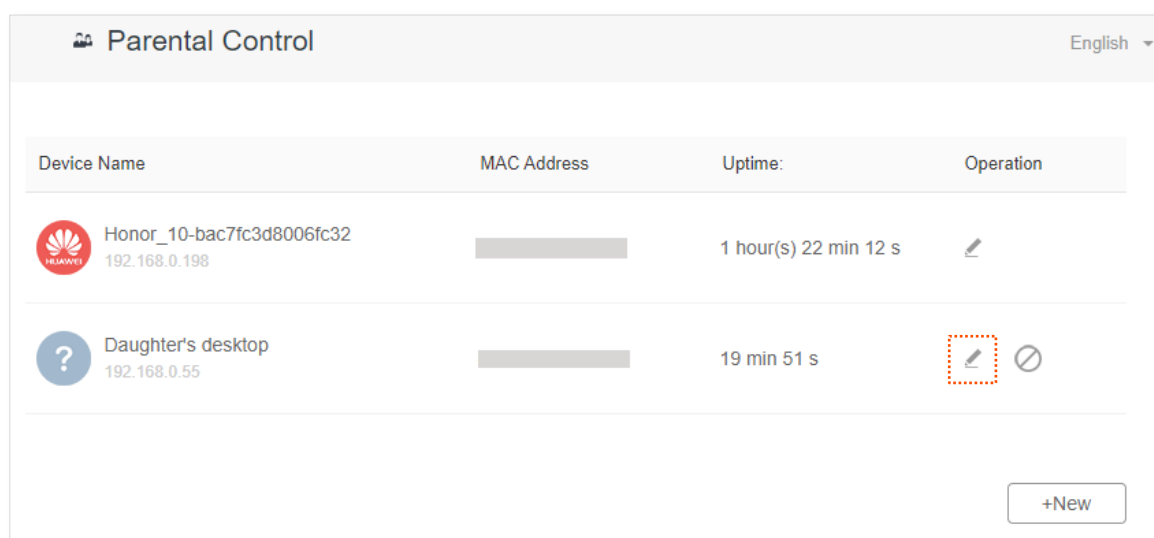
Solution: You can configure the parental control function to reach the goal.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Parental Control**.
- Step 3** Choose 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.



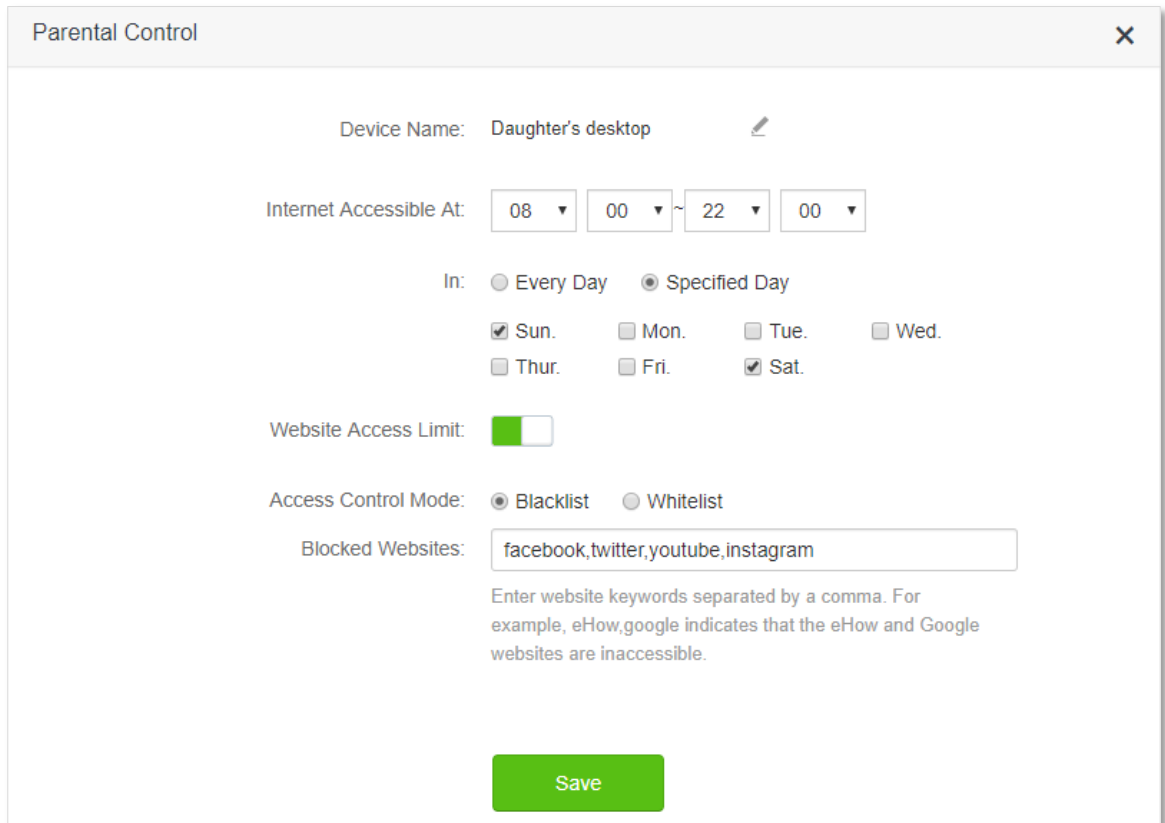
- Step 4** Specify the period when the target websites cannot be accessed, which is **8:00 ~ 22:00** in this example.
- Step 5** Choose **Specified Day**, and tick the days when the rule is applied, which are **Sun.** and **Sat.** in this example.

Step 6 Enable **Website Access Limit**.

Step 7 Choose **Blacklist**.

Step 8 Set **Blocked Websites**, which is **facebook,twitter,youtube,instagram**.

Step 9 Click **Save**.



The screenshot shows a 'Parental Control' window with the following settings:

- Device Name:** Daughter's desktop
- Internet Accessible At:** 08:00 ~ 22:00
- In:** Specified Day (selected)
 - ☒ Sun.
 - ☐ Mon.
 - ☐ Tue.
 - ☐ Wed.
 - ☐ Thur.
 - ☐ Fri.
 - ☒ Sat.
- Website Access Limit:** Enabled (green slider)
- Access Control Mode:** Blacklist (selected)
- Blocked Websites:** facebook,twitter,youtube,instagram

Below the 'Blocked Websites' field, there is a note: 'Enter website keywords separated by a comma. For example, eHow,google indicates that the eHow and Google websites are inaccessible.'

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

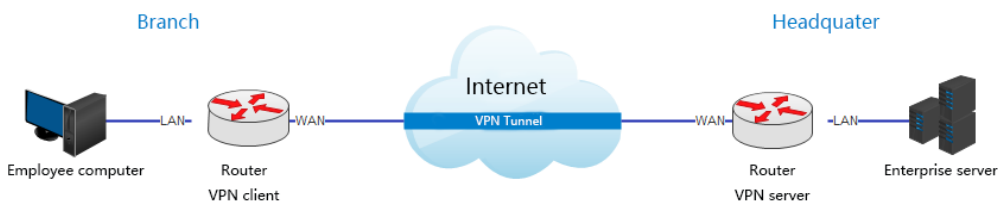
---End

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 between 22:00 to 8:00.

9 VPN

A VPN (Virtual Private Network) is a private network built on a public network (usually the Internet). This private network exists only logically and has no actual physical lines. VPN technology is widely used in corporate networks to share resources between corporate branches and headquarters, while ensuring that these resources are not exposed to other users on the internet.

The typology of a VPN network is shown below.



9.1 PPTP server

9.1.1 Overview

This series of routers can function as a PPTP server and accept connections from PPTP clients.

To access the configuration page, log in to the web UI of the router and choose **VPN > PPTP Server**. This function is disabled by default. When it is enabled, the page is shown as below.

PPTP Server

PPTP Server: ☒

IP Address Pool: ~10.0.0.

MPPE Encryption: ☐

Save

User Name	Password	Connection Status	Operation
		--	+New

Parameter description

Parameter	Description
PPTP Server	It is used to enable or disabled the PPTP server. When it is enabled, the router functions as a PPTP server, which can accept the connections from PPTP clients.
IP Address Pool	It specifies the range of IP address range within which the PPTP server can assign to PPTP clients. It is recommended to keep the default settings.
MPPE Encryption	It is used to enable or disable 128-bit data encryption. The encryption settings should be the same between the PPTP server and PPTP clients. Otherwise, the communication cannot be achieved normally.
User Name	It specifies the VPN user name and password, which the VPN user needs to enter when making PPTP dial-ups (VPN connections).
Password	
Connection Status	It specifies the connection status of the VPN connection.
Operation	The available operations include: •  : It is used to add new PPTP user accounts. •  : It is used to disable the PPTP user account. •  : It is used to enable the PPTP user account. •  : It is used to delete the PPTP user account.

9.1.2 Enable internet users to access resources of the LAN

Scenario: You have set up a FTP server within the LAN of the router.

Goal: Open the FTP server to internet users and enable them to access the resources of the FTP server from the internet.

Solution: You can configure the PPTP server function to reach the goal. Assume that:

- The user name and password that the PPTP server assigns to the client are both admin1.
- The WAN IP address of router is 113.88.112.220.
- The IP address of the FTP server is 192.168.0.136.
- The FTP server port is 21.
- The FTP login user name and password are both: JohnDoe



Please ensure the WAN IP address of router is a public network. This function may not work on a host with an IP address of a private network. 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.

Configuring procedure:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Enable the PPTP server function.

1. Choose **VPN > PPTP Server**.
2. Enable the **PPTP Server**.
3. Enable the **MPPE Encryption**, which means that the encryption digit remains the default value "128".
4. Click **Save**.

Step 3 Add PPTP user name and password.

1. Set the **User Name** and **Password** of the PPTP server, which are **admin1** in this example.
2. Click **+New**.

User Name	Password	Connection Status	Operation
admin1		--	+New

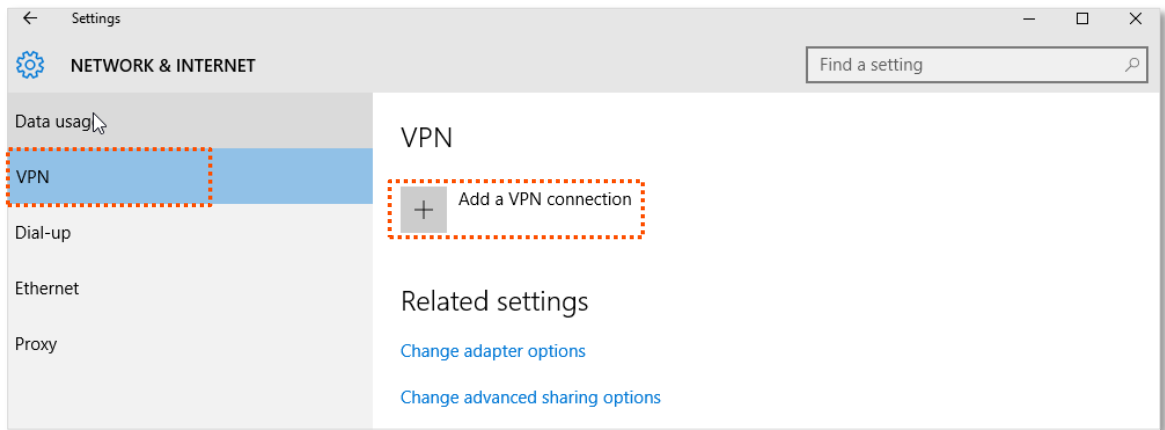
---End

When completing the configurations, internet users can access the FTP server by following these steps:

Step 1 Click the  icon at the bottom right corner on the desktop, and then click **Network settings**.



Step 2 Choose **VPN** on the left side, and click **Add a VPN connection**.

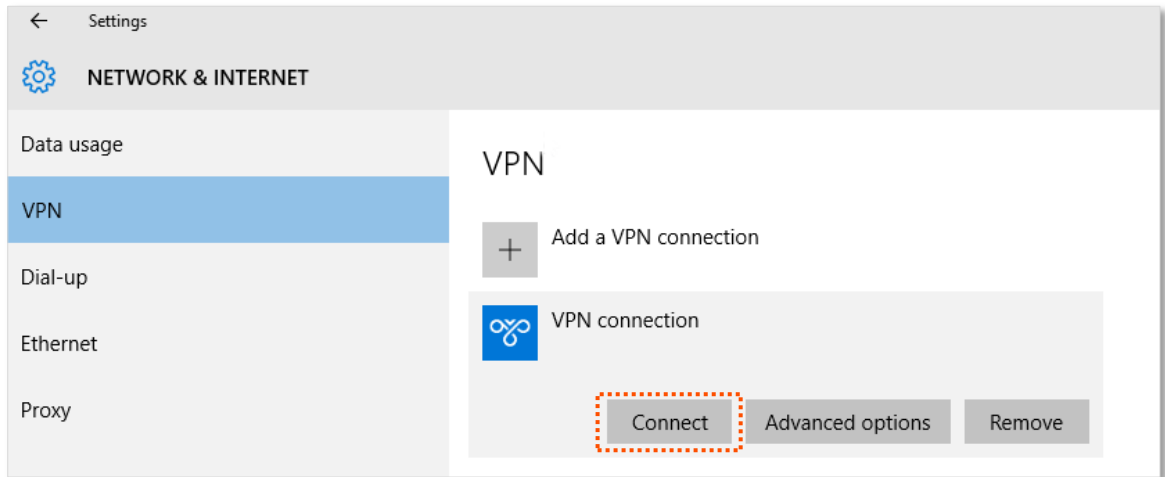


Step 3 Configure the VPN parameters.

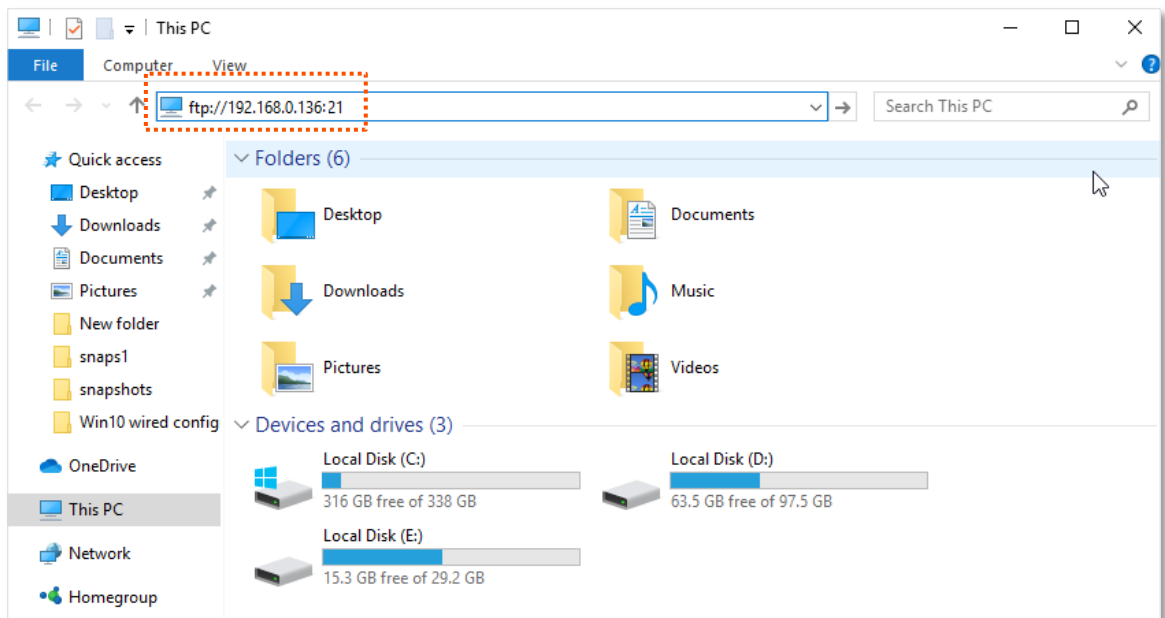
1. Enter a connection name, such as **VPN connection**.
2. Enter the server address, which is **113.88.112.220** in this example.
3. Select a VPN type, which is **Point to Point Tunneling Protocol (PPTP)** in this example.
4. Select a type of sign-in info, which is **User name and password** in this example.
5. Enter the user name and password, which are both **admin1** in this example.
6. Click **Save**.

A screenshot of the 'Add a VPN connection' dialog box. The dialog has a blue background and a white title bar. It contains several input fields and dropdown menus. The 'Connection name' field is filled with 'VPN connection'. The 'Server name or address' field is filled with '113.88.112.220'. The 'VPN type' dropdown menu is set to 'Point to Point Tunneling Protocol (PPTP)'. The 'Type of sign-in info' dropdown menu is set to 'User name and password'. The 'User name (optional)' field is filled with 'admin1'. The 'Password (optional)' field is filled with a series of dots. At the bottom right, there are 'Save' and 'Cancel' buttons. A vertical scrollbar is visible on the right side of the dialog.

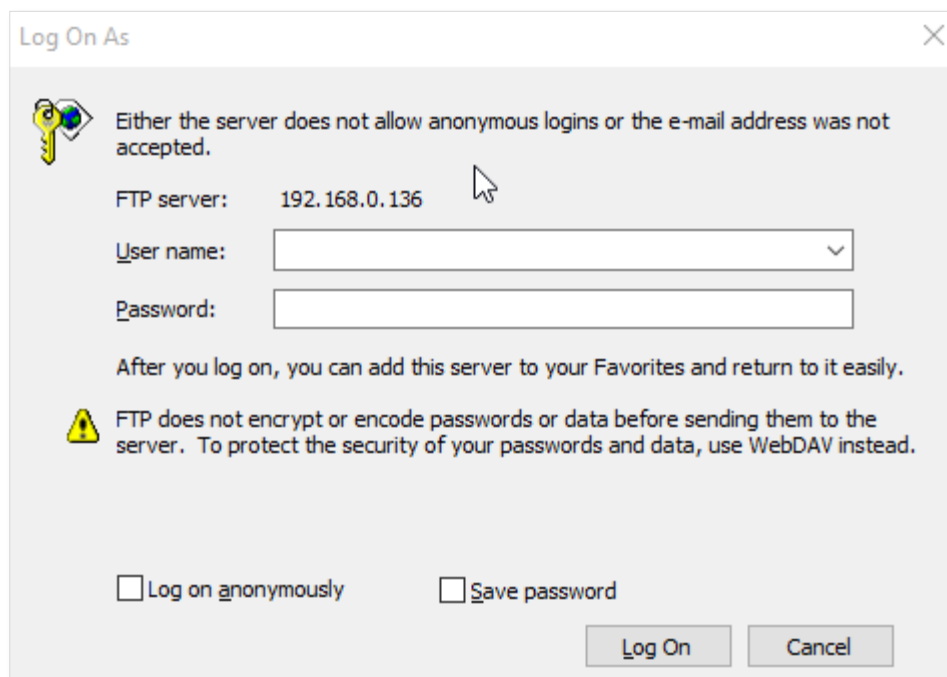
Step 4 Target the VPN connection added, and click **Connect**.



Step 5 Click the  icon on the desktop, and enter the address in the address bar to access the FTP server, which is **ftp://192.168.0.136:21** in this example.



Step 6 Enter the user name and password for logging in to the FTP server, which are both **JohnDoe** in this example, and click **Log On**.



The screenshot shows a 'Log On As' dialog box with a close button (X) in the top right corner. On the left, there is a key icon. The main text reads: 'Either the server does not allow anonymous logins or the e-mail address was not accepted.' Below this, the 'FTP server:' is set to '192.168.0.136'. There are input fields for 'User name:' and 'Password:'. Below these fields, a message states: 'After you log on, you can add this server to your Favorites and return to it easily.' A warning icon (yellow triangle with an exclamation mark) is followed by the text: '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.' At the bottom, there are two checkboxes: 'Log on anonymously' and 'Save password', both of which are unchecked. In the bottom right corner, there are two buttons: 'Log On' and 'Cancel'.

---End

By performing the steps above, you can access the resources on the FTP server.

9.2 Online PPTP users

When the PPTP server function is enabled, you can view the detailed information of VPN clients that establish connections with the PPTP server.

To access the configuration page, log in to the web UI of the router and choose **VPN > Online PPTP Users**.

Online PPTP Users			
User Name	Dial-In IP Address	Assigned IP Address	Uptime
The online users list is empty.			

Parameter description

Parameter	Description
User Name	It specifies the VPN user name, which the VPN user uses when making PPTP dial-ups (VPN connection).
Dial-In IP Address	It is specifies the IP address of the PPTP client. If the client is a router, it will be the IP address of the WAN port whose VPN function is enabled.
Assigned IP Address	It specifies the IP address that the PPTP server assigns to the client.
Uptime	It specifies the online time since the VPN connection succeeds.

9.3 PPTP/L2TP client

9.3.1 Overview

This router can function as a PPTP/L2TP client and connect to PPTP/L2TP servers.

The PPTP/L2TP client function is disabled by default. When it is enabled, the page is show as below.

PPTP/L2TP Client

PPTP/L2TP Client: ☒

Client Type: ☒ PPTP ☐ L2TP

Server IP Address/Domain Name:

User Name:

Password:

Status: Disconnected

Connect

Parameter description

Parameter	Description
PPTP/L2TP Client	It is used to enable or disable the PPTP/L2TP client function.
Client Type	It is specifies the client type that the router serves as, either PPTP or L2TP. • PPTP: When the router is connecting to a PPTP server, choose this option. • L2TP: When the router is connecting to a L2TP server, choose this option.
Server IP Address/Domain Name	It specifies the IP address or domain name of the PPTP/L2TP server that the router connects to. Generally, when a router serves as the PPTP/L2TP server at the peer side, the domain name or IP address should be that of the WAN port whose PPTP/L2TP server function is enabled.
User Name	It specifies the user name and password that the PPTP/L2TP server assigns to the PPTP/L2TP clients.
Password	
Status	It specifies the connection status of the VPN connection.

9.3.2 Access VPN resources with the router

Scenario: You have subscribed the PPTP VPN service when purchasing the broadband service from your ISP.

Goal: Access the VPN resources of your ISP.

Solution: You can configure the PPTP/L2TP client function to reach the goal. Assume that:

- The IP address of the PPTP server is 113.88.112.220.
- The user name and password assigned by the PPTP server are both admin1.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **VPN > PPTP/L2TP Client**.
- Step 3** Enable the **PPTP/L2TP Client**
- Step 4** Choose **PPTP** as the client type.
- Step 5** Enter the **Server IP Address/Domain Name**, which is **113.88.112.220** in this example.
- Step 6** Enter the **User Name** and **Password**, which are both **admin1** in this example.
- Step 7** Click **Connect**.

PPTP/L2TP Client

PPTP/L2TP Client: ☒

Client Type: ☒ PPTP ☐ L2TP

Server IP Address/Domain Name:

User Name:

Password:

Status: Disconnected

---End

When **Connected** is shown in **Status**, you can access the VPN resources of your ISP.

10 IPv6 (wireless router mode)



This function is only available under the wireless router mode. Refer to [Operating mode](#) to set the operating mode of the router.

This router supports IPv4 and IPv6 dual stack protocols. In the IPv6 part, you can:

- [Connect to the IPv6 network of ISPs](#)
- [Configure the IPv6 tunnel and achieve communications between IPv6 islands](#)
- [Change IPv6 LAN settings](#)

10.1 IPv6 WAN settings

10.1.1 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
• The ISP does not provide any PPPoEv6 user name and password. • The ISP does not provide information about IPv6 address. • You have a router that can access 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, etc.	Static IPv6 address

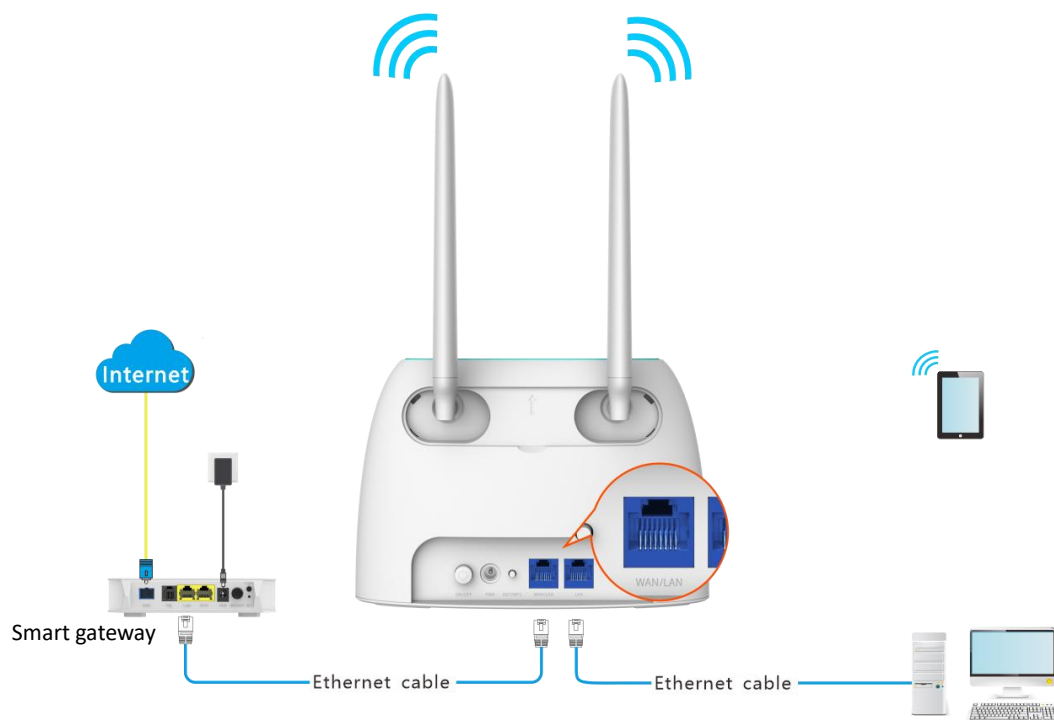


Before configuring the IPv6 function, please ensure that you are within the coverage of IPv6 network and already subscribe the IPv6 internet service. Contact your ISP for any doubt about it.

DHCPv6

DHCPv6 enables the router to obtain IPv6 address from 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 IPv6 address.
- You have a router that can access IPv6 network.



Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **IPv6**.
- Step 3** Enable the **IPv6** function.
- Step 4** Set the connection type to **DHCPv6**.
- Step 5** Click **Save**.

IPv6

English

IPv6 ☒

IPv6 WAN Settings

Connection Type

DHCPv6

☒ Obtain IPv6 Prefix Delegation

---End

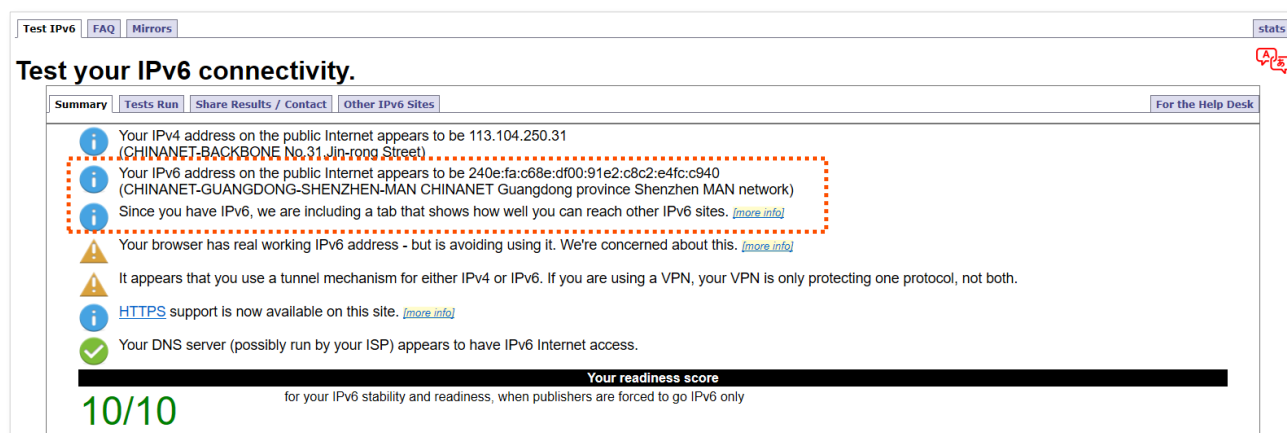
Parameter description

Parameter	Description
Obtain IPv6 Prefix Delegation	When the option is selected, the LAN port of router obtains IPv6 prefix from it upstream device. It is recommended to keep the default setting (Selected). If the LAN port cannot obtain the PD prefix, it is because the upstream device does not support PD prefix delivery. Contact your ISP to solve this problem.

IPv6 network test:

Start a web browser on a phone 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:

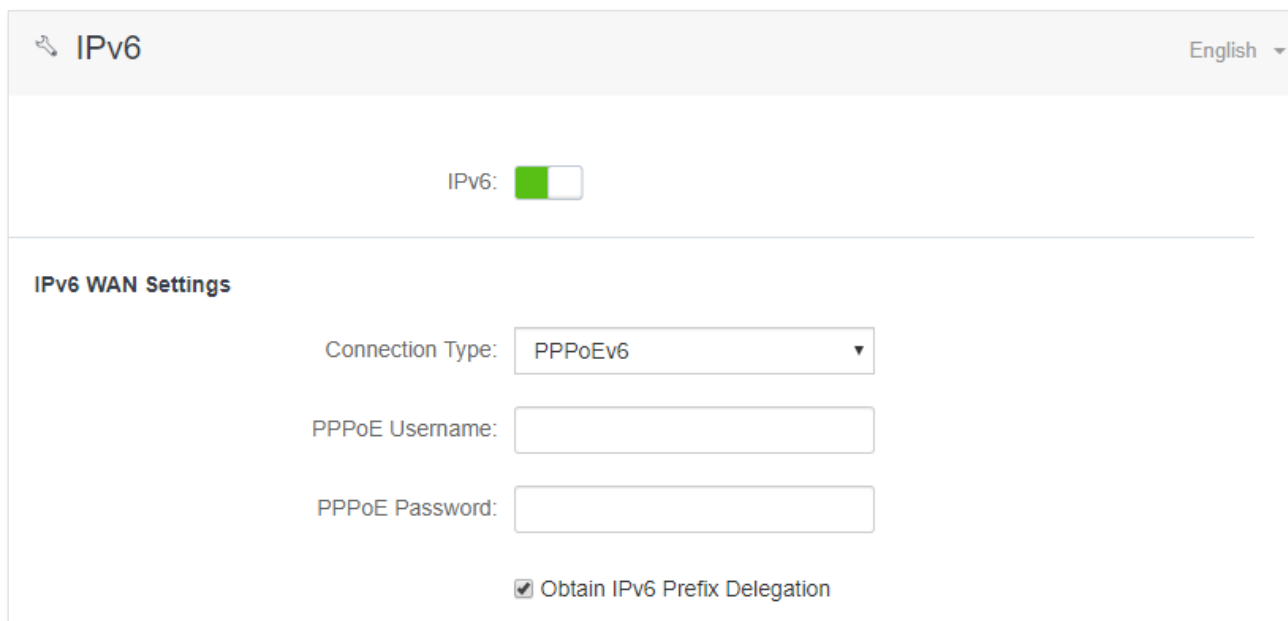
- Navigate to the **System Settings > System Status**, and move to the **IPv6 Status** part. Ensure that the IPv6 WAN address is a global unicast address.
- Ensure that devices connected to router obtain their IPv6 address through DHCPv6.
- Consult your ISP for help.

PPPoEv6

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 of the router, and navigate to the **IPv6**. When the connection type is set to **PPPoEv6**, the page is shown as below.

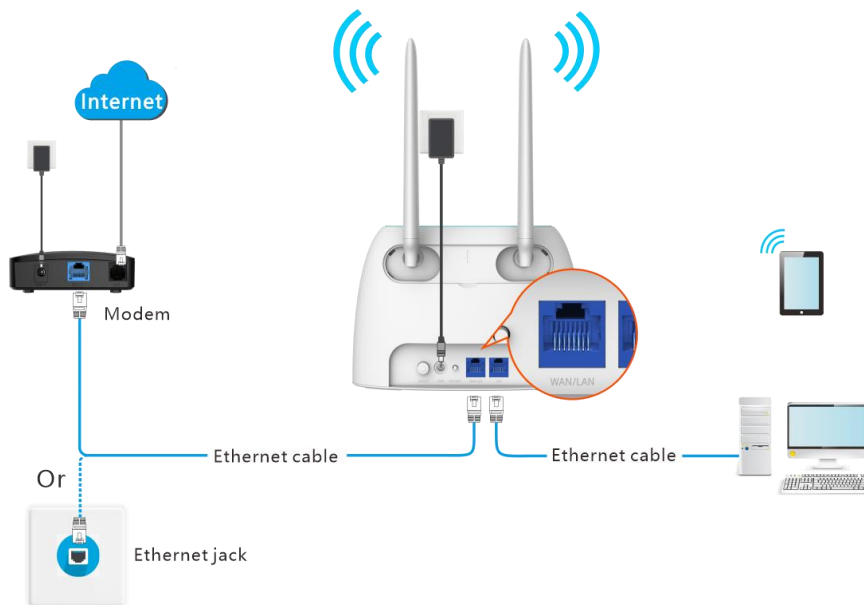


Parameter description

Parameter	Description
PPPoE Username	It specifies the PPPoE user name and password provided by your ISP.
PPPoE Password	 TIP IPv4 and IPv6 services share the same PPPoE account.
Obtain IPv6 Prefix Delegation	When the option is selected, the LAN port of router obtains IPv6 prefix from it upstream device. It is recommended to keep the default setting (Selected). If the LAN port cannot obtain the PD prefix, it is because the upstream device does not support PD prefix delivery. Contact your ISP to solve this problem.

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.



Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **IPv6**.
- Step 3** Enable the **IPv6** function.
- Step 4** Set the connection type to **PPPoEv6**.
- Step 5** Enter the **PPPoE Username** and **PPPoE Password**.
- Step 6** Click **Save**.

---End

IPv6 network test:

Start a web browser on a phone 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' links, and a 'stats' link in the top right. Below the title, there are tabs for 'Summary', 'Tests Run', 'Share Results / Contact', and 'Other IPv6 Sites', with a 'For the Help Desk' link on the right. The main content area displays several status messages: an information icon followed by 'Your IPv4 address on the public Internet appears to be 113.104.250.31 (CHINANET-BACKBONE No.31 Jin-rong Street)'; another information icon followed by 'Your IPv6 address on the public Internet appears to be 240e:fa:c68e:df00:91e2:c8c2:e4fc:c940 (CHINANET-GUANGDONG-SHENZHEN-MAN CHINANET Guangdong province Shenzhen MAN network)'; a third information icon followed by 'Since you have IPv6, we are including a tab that shows how well you can reach other IPv6 sites. [more info]'; a warning icon followed by 'Your browser has real working IPv6 address - but is avoiding using it. We're concerned about this. [more info]'; another warning icon followed by '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.'; an information icon followed by 'HTTPS support is now available on this site. [more info]'; and a checkmark icon followed by 'Your DNS server (possibly run by your ISP) appears to have IPv6 Internet access.' Below these messages is a 'Your readiness score' section with a black progress bar and the score '10/10' in large green text, with the subtitle 'for your IPv6 stability and readiness, when publishers are forced to go IPv6 only'. At the bottom, there is a link 'Click to see Test Data' and a note '(Updated server side IPv6 readiness stats)'.

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

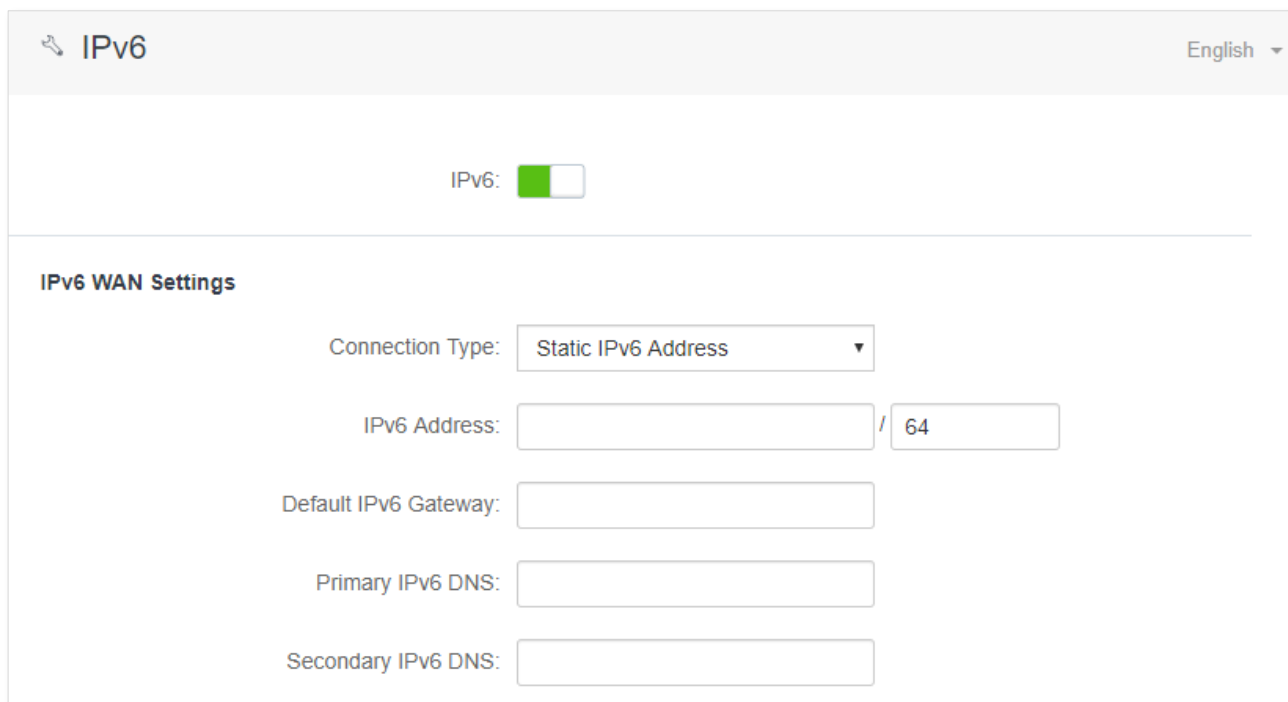
- Navigate to the **System Settings > System Status**, and move to the **IPv6 Status** part. Ensure that the IPv6 WAN address is a global unicast address.
- Ensure that devices connected to router obtain their IPv6 address through DHCPv6.
- Consult your ISP for help.

Static IPv6 Address

Overview

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

Log in to the web UI of the router, and navigate to the **IPv6**. When the connection type is set to **Static IPv6 Address**, the page is shown as below.



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.

Access the internet through PPPoEv6

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **IPv6**.
- Step 3** Enable the **IPv6** function.
- Step 4** Set the connection type to **Static IPv6 Address**.
- Step 5** Enter the required parameters under IPv6 WAN settings.
- Step 6** Click **Save**.

---End

IPv6 network test:

Start a web browser on a phone 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:

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

10.1.2 IPv6 tunnel

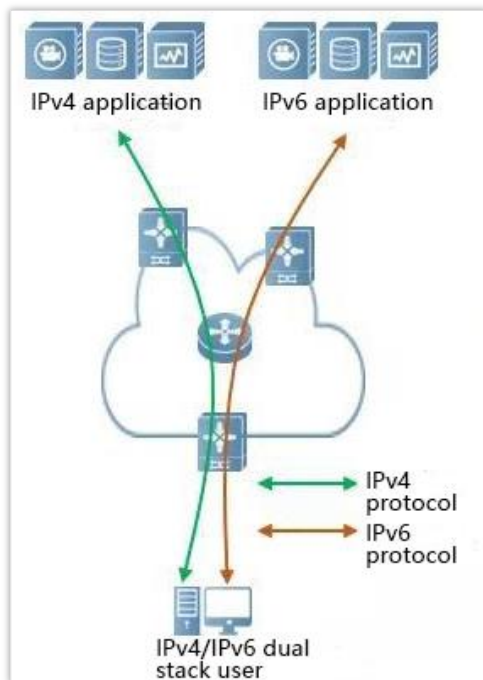
Overview

IPv6 transition mechanism

Before the IPv6 network is widely deployed, IPv6 stations are like isolated islands. Therefore, the dual stack and tunneling technologies are developed to achieve the communications between IPv6 islands.

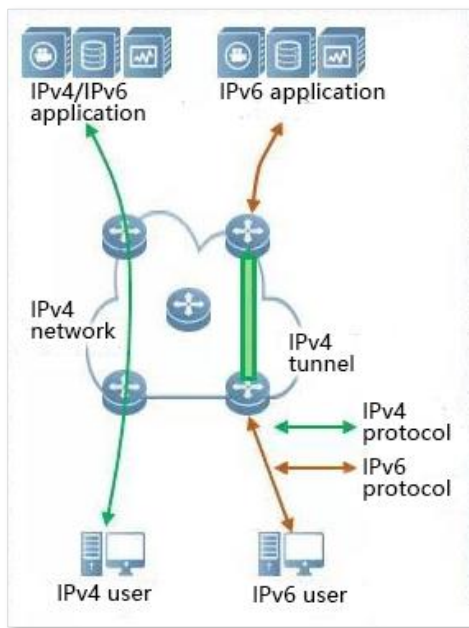
■ Dual stack technology

With the dual stack technology, nodes within the network support both IPv4 and IPv6 protocol stack. The source node selects different protocol stacks according to the different destination nodes, and the network device selects different protocol stacks for processing and forwarding according to the protocol type of the message. The dual-stack technology can realize the coexistence of IPv4 and IPv6 networks, but it cannot solve the problem of interoperability between IPv4 and IPv6 networks, nor can it solve the problem of IPv4 address exhaustion.



■ Tunneling technology

Tunneling technology is a technology for network transmission by encapsulating one IP protocol data packet in another IP protocol data packet, including data encapsulation, transmission, and decapsulation. IPv6 tunnel technology encapsulates IPv6 packets as data in IPv4 packets and communicates across IPv4 networks. With tunneling technology, you do not need to upgrade all devices to dual stacks. You only need the border devices of IPv4 / IPv6 networks to implement dual stack and tunnel functions.



Manual and automatic tunnels

Generally, a tunnel consists of three parts: the tunnel start node, which encapsulates IPv6 packets; the tunnel end point, which decapsulates IPv6 packets; the tunnel, which is actually an IPv4 path, starts the encapsulated IPv6 packets from the tunnel. The node is transported to the end of the tunnel.

When the tunnel start node encapsulates an IPv6 packet in an IPv4 packet, it must determine the source and destination addresses of IPv4. The source address is the IPv4 address of the start node of the tunnel, and the destination address is the IPv4 address of the end of the tunnel.

Tunnels can be divided into manual tunnels and automatic tunnels based on how the tunnel end address is obtained.

- **Manual tunnel**

The network boundary device cannot automatically obtain the IPv4 address of the tunnel endpoint. You need to manually configure the IPv4 address of the tunnel endpoint so that the packets can be sent to the tunnel endpoint correctly. It is usually used in the tunnel between routers.

- **Automatic tunnel**

Network border devices can automatically obtain the IPv4 address of the tunnel endpoint, without the need to manually configure the IPv4 address of the endpoint. In general, the IPv6 addresses at both ends of the tunnel are in the form of special IPv6 addresses with embedded IPv4 addresses. In this way, routing devices can extract IPv4 addresses from the destination IPv6 addresses in IPv6 packets. Automatic tunnels can be used from host to host, or from host to router.

6in4 tunnel

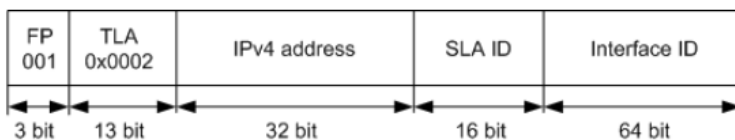
6in4 is a manual tunneling technology. It can implement IPv6 isolated island communication through manually configured tunnels without the network operator providing IPv6 interconnection services.

6to4 tunnel

6to4 is an automatic tunneling technology that enables communication between isolated IPv6 islands and between sites within the IPv6 backbone and IPv6 backbone networks without the network operator providing IPv6 interconnection services.

The 6to4 tunnel technology is used to establish a tunnel between border routers at an IPv6 site. The border router at the source site is the start node of the tunnel, and the border router at the destination site is the end point of the tunnel.

The 6to4 tunnel technology uses a special IPv6 address, that is, a 6to4 address, which starts with 2002. The IPv4 address of the border router is embedded in the prefix of this address. The address structure is shown in the figure below.

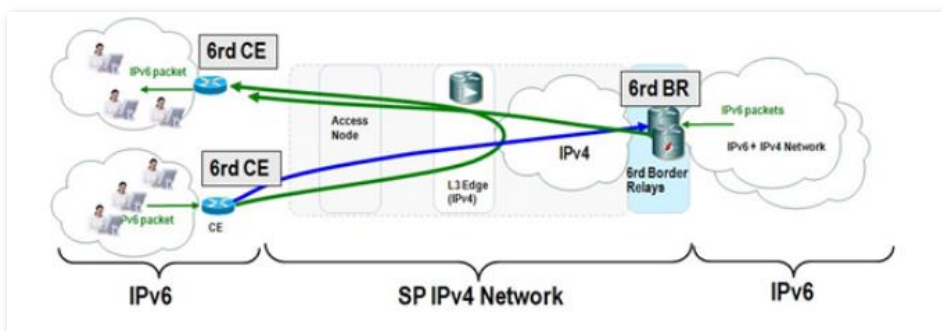


- FP: Format Prefix, which is 001
- TLA: Top Level Aggregator, which is 0x0002
- IPv4 address: The IPv4 address of the border router
- SLA ID: Site Level Aggregator, namely the ID of subnet
- Interface ID: The ID of the interface

6rd tunnel

6RD (IPv6 Rapid Deployment) is an IPv6 network transition technology solution developed on the basis of 6to4. It adds a 6RD BR (Border Relay, Border Relay Device) to an existing IPv4 network, establishes a 6in4 tunnel at the home gateway (6RD CE (Customer Edge)) and 6RD BR of IPv6 users, and provides IPv6 access to users.

The 6RD network typology is as follows.



As shown in the figure above, the 6RD tunnel technology is used to implement mutual access between IPv6 islands, and the BR can also be used to access the IPv6 network after the BR.

The main differences between 6RD and 6to4:

6RD does not need to use a specific address 2002::/16, it can use the network operator's own address block, which greatly increases the convenience of implementation.

Configure IPv6 tunnel



TIP

- Devices at both ends of the tunnel must support the dual stack protocol.
- The WAN IPv4 address of the routers must be a public IP address.

6in4 tunnel

Log in to the web UI of the router, and navigate to **IPv6**. Set the connection type to **6in4 Tunnel**, enter required parameters and save the configurations.

The screenshot shows the IPv6 configuration interface. At the top, there is a header with a key icon, the text 'IPv6', and a language dropdown set to 'English'. 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 three fields: 'Connection Type' is a dropdown menu set to '6in4 Tunnel'; 'Remote IPv4 Address' is a field with four input boxes separated by dots; and 'Local IPv6 Address' is a single input box followed by '/ 64'.

Parameter description

Parameter	Description
Remote IPv4 Address	It specifies the WAN IPv4 address of the dual stack router at the peer side.
Local IPv6 Address	It specifies the IPv6 address of the LAN, which needs to be customized.

6to4 tunnel

Log in to the web UI of the router, and navigate to **IPv6**. Set the connection type to **6to4 Tunnel** and save the configurations.

This screenshot is similar to the previous one, showing the IPv6 configuration interface. The 'IPv6' toggle is on. In the 'IPv6 WAN Settings' section, the 'Connection Type' dropdown menu is now set to '6to4 Tunnel'.

6rd tunnel

Log in to the web UI of the router, and navigate to **IPv6**. Set the connection type to **6rd Tunnel**, enter required parameters and save the configurations.

 IPv6
 English ▾

IPv6: ☒

IPv6 WAN Settings

Connection Type: 6rd Tunnel ▾

Remote IPv4 Address: . . .

Subnet Mask: 255 . 255 . 0 . 0

IPv6 Prefix: 2001:db8:: / 32

Parameter description

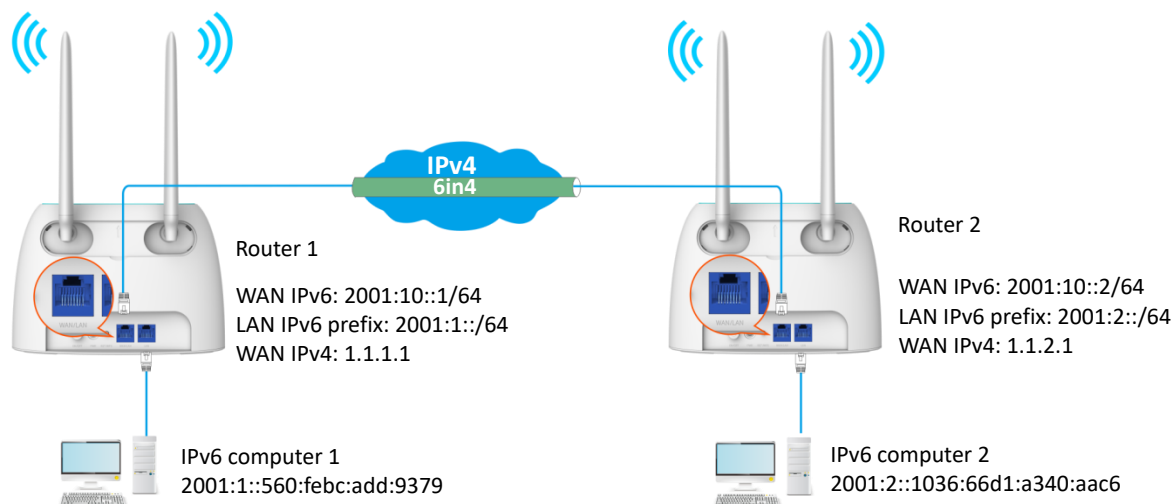
Parameter	Description
Remote IPv4 Address	It specifies the WAN IPv4 address of the dual stack router or 6rd BR at the peer side.
Subnet Mask	It specifies the subnet mask of the IPv4 network. The IPv4 network at both sides should be at the same network segment.
IPv6 Prefix	It specifies the IPv6 prefix of the network. - When the 6rd tunnel is used to achieve the communication between isolated islands, users can customize the IPv6 prefix. - If the 6 re tunnel is used to connect to the network of ISPs, contact your ISP for the IPv6 prefix.

Examples of IPv6 tunnel configuration

6in4 tunnel

As shown below, the two routers support dual stack protocol. To achieve the communication between the two hosts, you can configure the 6in4 tunnel.

Assume that the two routers are connected to IPv4 network and obtain public IPv4 addresses.



Configuring procedure:

Step 1 Configure the Router 1.

1. Start a web browser on a device connected to the router 1 and visit **tendawifi.com** to log in to the web UI of the router.
2. Choose **IPv6**.
3. Enable the **IPv6** function.
4. Set the connection type to **6in4 Tunnel**.
5. Enter the WAN IPv4 address of the device at the peer side, which is **1.1.2.1** in this example.
6. Customize the local IPv6 address, which is **2001:10::1/64** in this example.
7. Set the IPv6 LAN prefix length, which is **2001:1::/64** in this example.
8. Click **Save**.

IPv6
 English

IPv6: ☒

IPv6 WAN Settings

Connection Type: 6in4 Tunnel

Remote IPv4 Address: 1 1 2 1

Local IPv6 Address: 2001:10::1 / 64

IPv6 LAN Settings

IPv6 LAN Address: Auto

IPv6 LAN Prefix Length: Manual 2001:1:: / 64

DHCPv6: Enable

DHCPv6 Address Assignment Method: Auto

IPv6 DNS: Manual

Primary IPv6 DNS: 2001:2::3

Secondary IPv6 DNS:

Save

Step 2 Configure the **Router 2**.

1. Start a web browser on a device connected to the router 2 and visit **tendawifi.com** to log in to the web UI of the router.
2. Choose **IPv6**.
3. Enable the **IPv6** function.
4. Set the connection type to **6in4 Tunnel**.
5. Enter the WAN IPv4 address of the device at the peer side, which is **1.1.1.1** in this example.
6. Customize the local IPv6 address, which is **2001:10::2/64** in this example.
7. Set the IPv6 LAN prefix length, which is **2001:2::/64** in this example.
8. Click **Save**.

 IPv6 English ▾

IPv6: ☒

IPv6 WAN Settings

Connection Type: 6in4 Tunnel ▾

Remote IPv4 Address:

Local IPv6 Address: / 64

IPv6 LAN Settings

IPv6 LAN Address: Auto ▾

IPv6 LAN Prefix Length: Manual ▾ / 64

DHCPv6: Enable ▾

DHCPv6 Address Assignment Method: Auto ▾

IPv6 DNS: Manual ▾

Primary IPv6 DNS:

Secondary IPv6 DNS:

Save

---End

Verification

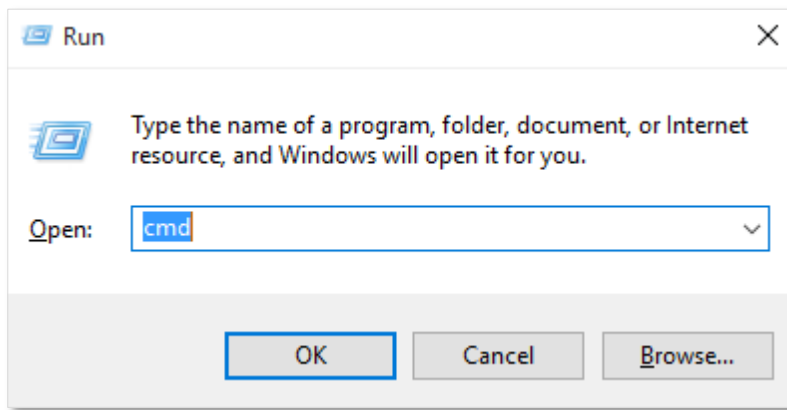
To verify whether the 6in4 tunnel is established successfully, you can ping each other on the two computers.

Now, ping computer 2 (IPv6 address: 2001:2::1036:66d1:a340:aac6) on computer 1.

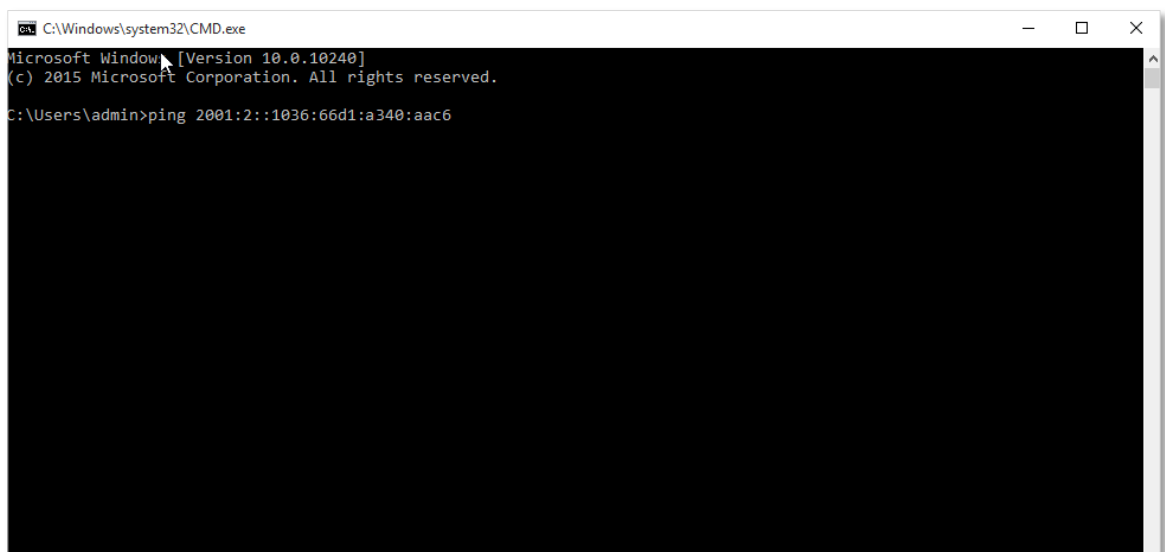
Step 1 Use **Windows + R** shortcut to open the **Run** dialog window.

Step 2 Enter **cmd**, and click **OK**.

106

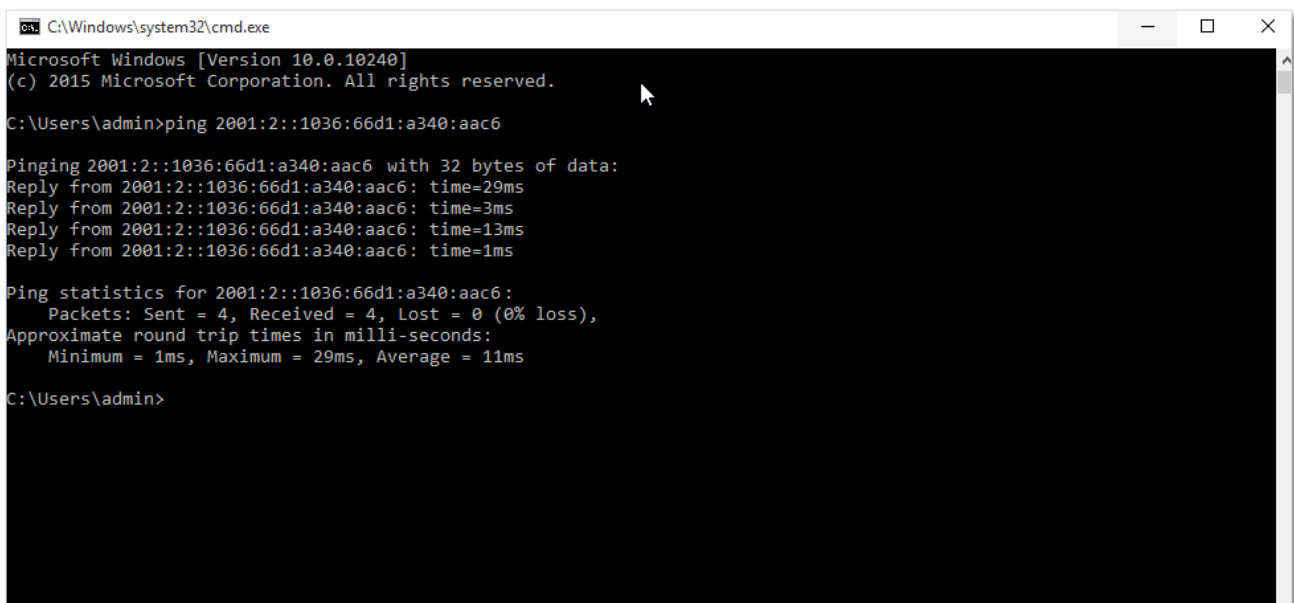


Step 3 Enter the ping command, which is **ping 2001:2::1036:66d1:a340:aac6** in the example, and press **Enter**.



---End

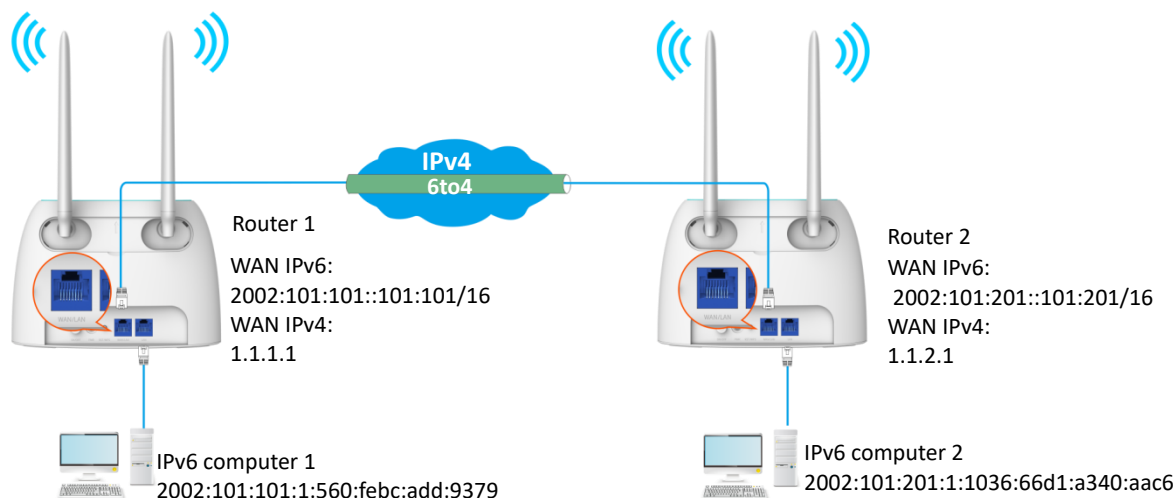
Wait a moment. The 6in4 tunnel configuration succeeds when the result is shown as below.



6to4 tunnel

As shown below, the two routers support dual stack protocol. To achieve the communication between the two hosts, you can configure the 6to4 tunnel.

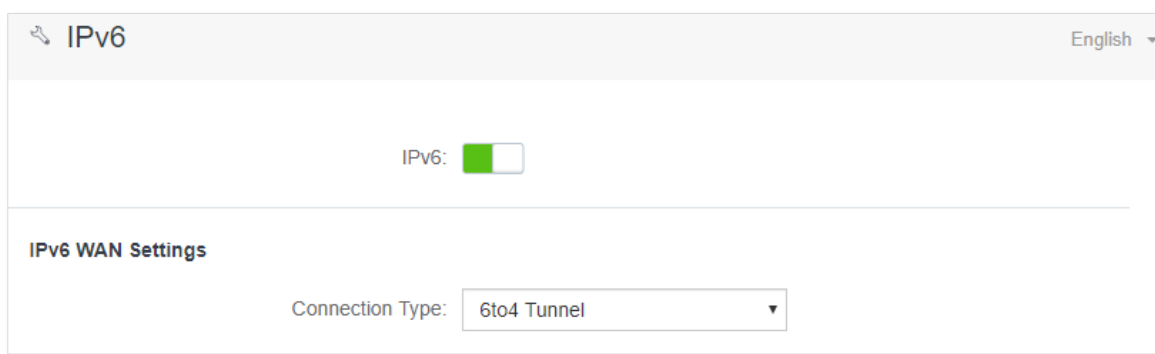
Assume that the two routers are connected to IPv4 network and obtain public IPv4 addresses.



Configuring procedure:

Step 1 Configure Router 1.

1. Start a web browser on a device connected to the router 1 and visit **tendawifi.com** to log in to the web UI of the router.
2. Choose **IPv6**.
3. Enable the **IPv6** function.
4. Set the connection type to **6to4 Tunnel**.
5. Click **Save**.



Step 2 Repeat Step 1 to set the connection type of Router 2 to 6to4.

---End

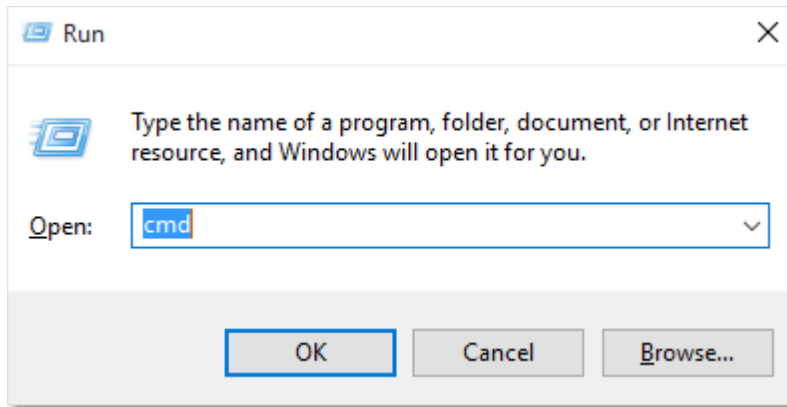
Verification

To verify whether the 6to4 tunnel is established successfully, you can ping each other on the two computers.

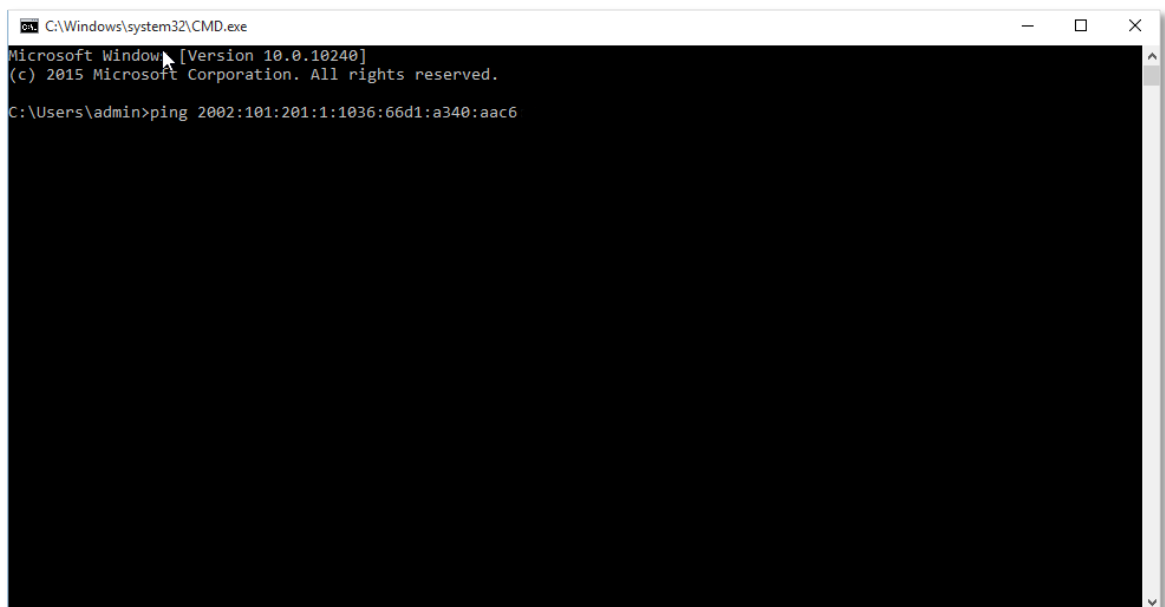
Now, ping computer 2 (IPv6 address: 2002:101:201:1:1036:66d1:a340:aac6) on computer 1.

Step 1 Use **Windows** + **R** shortcut to open the **Run** dialog window.

Step 2 Enter **cmd**, and click **OK**.



Step 3 Enter the ping command, which is **ping 2002:101:201:1:1036:66d1:a340:aac6** in the example and press **Enter**.



---End

Wait a moment. The 6to4 tunnel configuration succeeds when the result is shown as below.

```
C:\Windows\system32\CMD.exe
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\admin>ping 2002:101:201:1:1036:66d1:a340:aac6

Pinging 2002:101:201:1:1036:66d1:a340:aac6 with 32 bytes of data:
Reply from 2002:101:201:1:1036:66d1:a340:aac6: time=15ms
Reply from 2002:101:201:1:1036:66d1:a340:aac6: time=12ms
Reply from 2002:101:201:1:1036:66d1:a340:aac6: time=108ms
Reply from 2002:101:201:1:1036:66d1:a340:aac6: time=10ms

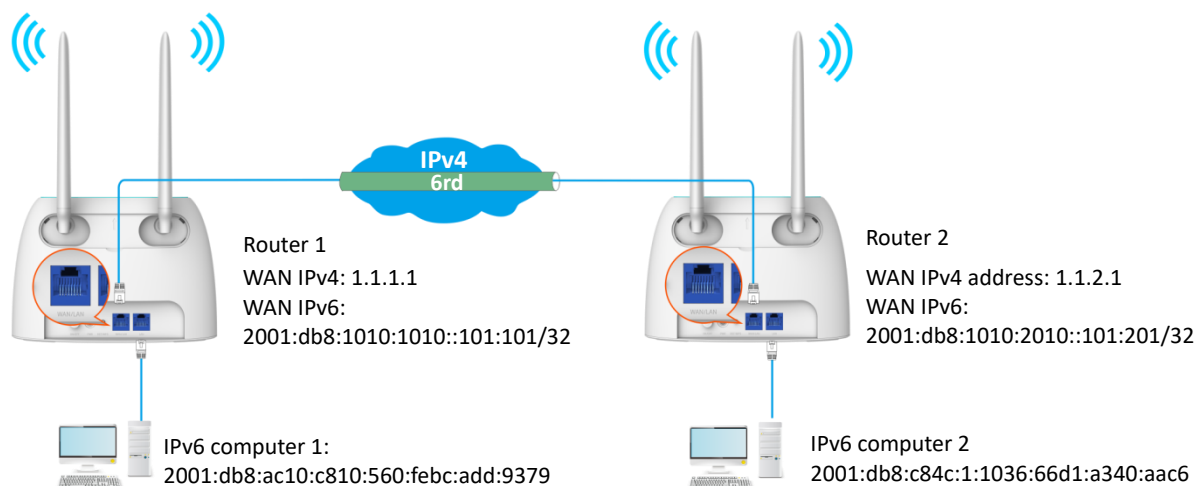
Ping statistics for 2002:101:201:1:1036:66d1:a340:aac6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 10ms, Maximum = 108ms, Average = 36ms

C:\Users\admin>
```

6rd tunnel

As shown below, the two routers support dual stack protocol. To achieve the communication between the two hosts, you can configure the 6rd tunnel.

Assume that the two routers are connected to IPv4 network and obtain public IPv4 addresses.



Configuring procedure:

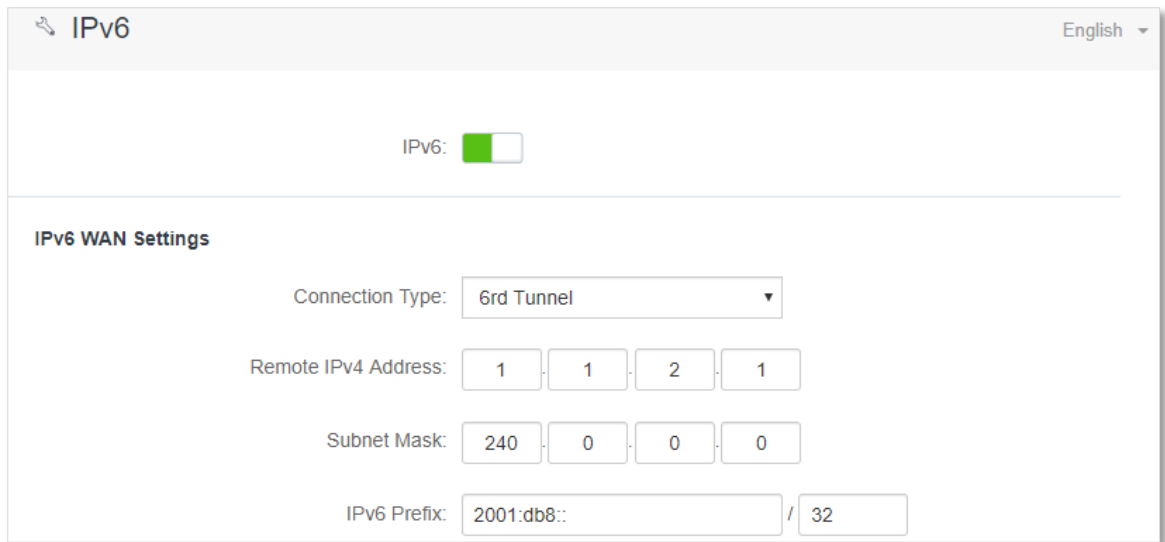


Before configuring the 6rd tunnel, navigate to [View system information](#) to find the WAN IPv4 address of the router.

Step 1 Configure Router 1.

1. Start a web browser on a device connected to the router 1 and visit **tendawifi.com** to log in to the web UI of the router.
2. Choose **IPv6**.

3. Enable the **IPv6** function.
4. Set the connection type to **6rd Tunnel**.
5. Enter the WAN IPv4 address of the device at the peer side in **Remote IPv4 Address**, which is **1.1.2.1** in this example.
6. Enter the Subnet Mask of the IPv4 network. **240.0.0.0** is recommended.
7. Customize the **IPv6 Prefix** (the default is recommended).
8. Click **Save**.



The screenshot shows the 'IPv6' configuration window. At the top, there is a toggle switch for 'IPv6' which is currently turned on (green). Below this, the 'IPv6 WAN Settings' section is visible. It contains the following fields:

- Connection Type:** A dropdown menu set to '6rd Tunnel'.
- Remote IPv4 Address:** Four input boxes containing the digits '1', '1', '2', and '1' respectively, representing the IP address 1.1.2.1.
- Subnet Mask:** Four input boxes containing the digits '240', '0', '0', and '0' respectively, representing the subnet mask 240.0.0.0.
- IPv6 Prefix:** A text input box containing '2001:db8::' followed by a slash and a box containing '32'.

Step 2 Configure Router 2.

1. Start a web browser on a device connected to the router 2 and visit **tendawifi.com** to log in to the web UI of the router.
2. Choose **IPv6**.
3. Enable the **IPv6** function.
4. Set the connection type to **6rd Tunnel**.
5. Enter the WAN IPv4 address of the device at the peer side in **Remote IPv4 Address**, which is **1.1.1.1** in this example.
6. Enter the **Subnet Mask** of the IPv4 network. **240.0.0.0** is recommended.
7. Customize the **IPv6 Prefix**.
8. Click **Save**.



---End

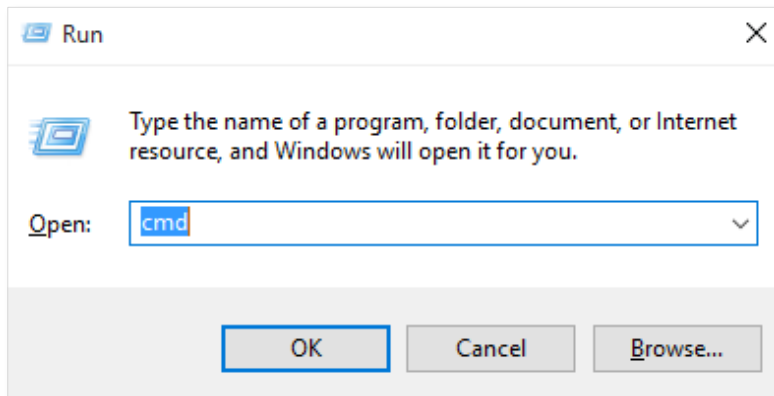
Verification

To verify whether the 6rd tunnel is established successfully, you can ping each other on the two computers.

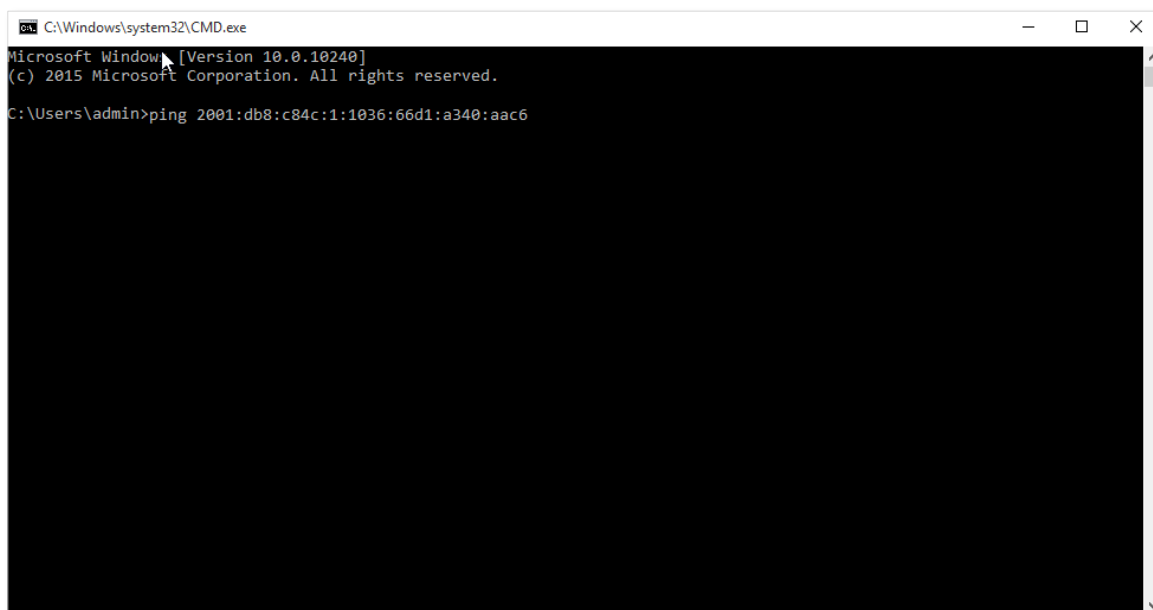
Now, ping computer 2 (IPv6 address: 2001:db8:c84c:1:1036:66d1:a340:aac6) on computer 1.

Step 1 Use **Windows + R** shortcut to open the **Run** dialog window.

Step 2 Enter **cmd**, and click **OK**.



Step 3 Enter the ping command, which is **ping 2001:db8:c84c:1:1036:66d1:a340:aac6** in the example and press **Enter**.

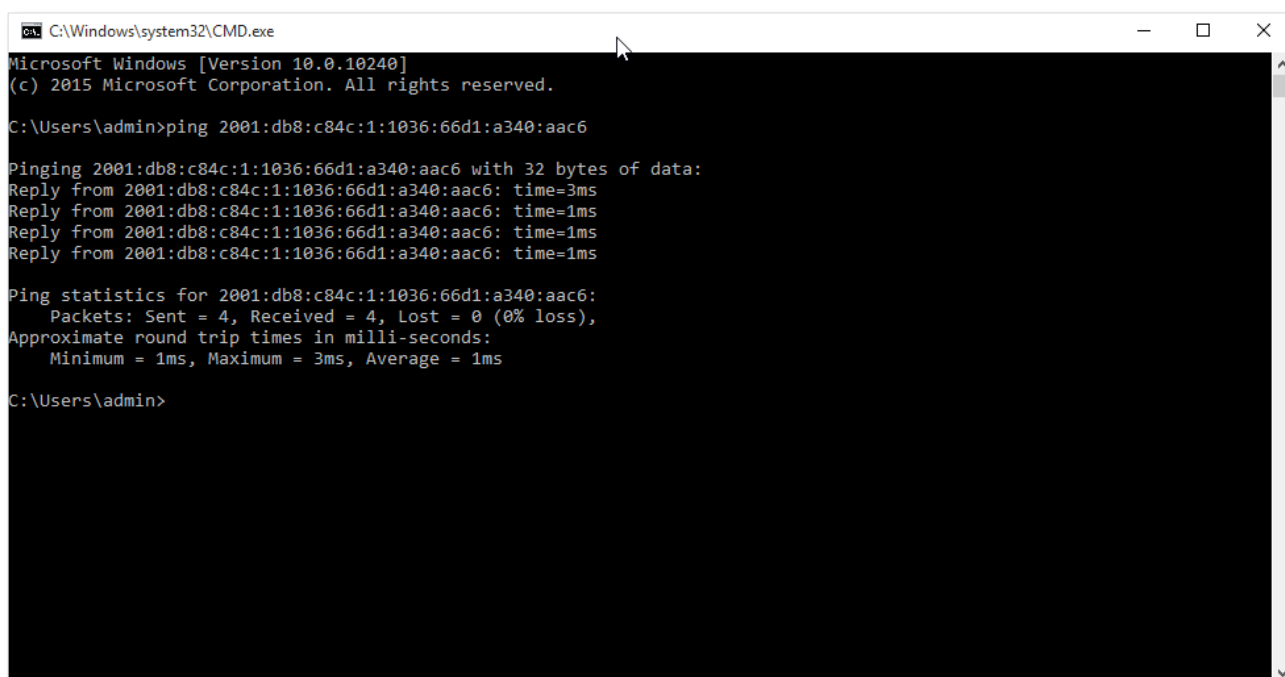


```
C:\Windows\system32\CMD.exe
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\admin>ping 2001:db8:c84c:1:1036:66d1:a340:aac6
```

---End

Wait a moment. The 6rd tunnel configuration succeeds when the result is shown as below.



```
C:\Windows\system32\CMD.exe
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\admin>ping 2001:db8:c84c:1:1036:66d1:a340:aac6

Pinging 2001:db8:c84c:1:1036:66d1:a340:aac6 with 32 bytes of data:
Reply from 2001:db8:c84c:1:1036:66d1:a340:aac6: time=3ms
Reply from 2001:db8:c84c:1:1036:66d1:a340:aac6: time=1ms
Reply from 2001:db8:c84c:1:1036:66d1:a340:aac6: time=1ms
Reply from 2001:db8:c84c:1:1036:66d1:a340:aac6: time=1ms

Ping statistics for 2001:db8:c84c:1:1036:66d1:a340:aac6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

C:\Users\admin>
```

10.2 IPv6 LAN settings

To access the page, log in to the web UI of the router and choose **IPv6**.

You can change the IPv6 LAN settings here.

IPv6 LAN Settings

IPv6 LAN Address

Auto

IPv6 LAN Prefix Length

Auto

DHCPv6

Enable

DHCPv6 Address Assignment Method

Stateless

IPv6 DNS

Manual

Primary IPv6 DNS

2001:2::3

Secondary IPv6 DNS

Parameter description

Parameter	Description
IPv6 LAN Address	It specifies two types of IPv6 LAN address assignment. • Auto: The router generates the IPv6 address according to its LAN IP address. By default, the prefix has 64 digits. • Manual: You need to set the IPv6 LAN address manually.
IPv6 LAN Prefix Length	It specifies two types IPv6 LAN prefix address assignment. • Auto: The router obtains an LAN prefix from the upstream device. • Manual: You need to set the IPv6 LAN prefix manually.
DHCPv6	DHCPv6 (Dynamic Host Configuration Protocol for IPv6) is used to assign IP addresses and prefix to IPv6 hosts on a network. It is the IPv6 equivalent of the DHCP for IPv4. This is also known as a stateful autoconfiguration.
DHCPv6 Address Assignment Method	It specifies the assignment type of IPv6 address information by the DHCPv6 server. • Stateless: DHCPv6 stateless configuration. Clients obtain their IPv6 address through Router Advertisement (Stateless Address Auto Configuration) and other parameters are allocated by the DHCPv6 server. • Stateful: DHCPv6 stateful configuration. The DHCPv6 server automatically assigns IPv6 addresses/prefixes and other network configuration parameters (e.g. DNS server addresses, etc.) to clients. The user needs to manually configure the start ID and the end ID.

Parameter	Description
Start ID	The configuration is required when the DHCPv6 address assignment method is set to stateful.
End ID	It specifies the range of the last segment of the IPv6 address that the DHCPv6 server assigns to the devices. Range: 1-ffff.
IPv6 DNS	It specifies the LAN IPv6 DNS configuration method. • Auto: Obtain the IPv6 DNS address from the upstream device. • Manual: Configure the IPv6 DNS address manually.
Primary IPv6 DNS	Enter the fixed IPv6 DNS address provided by your ISP.  TIP
Secondary IPv6 DNS	If your ISP only provides one DNS server address, you can leave the secondary IPv6 DNS blank.

11

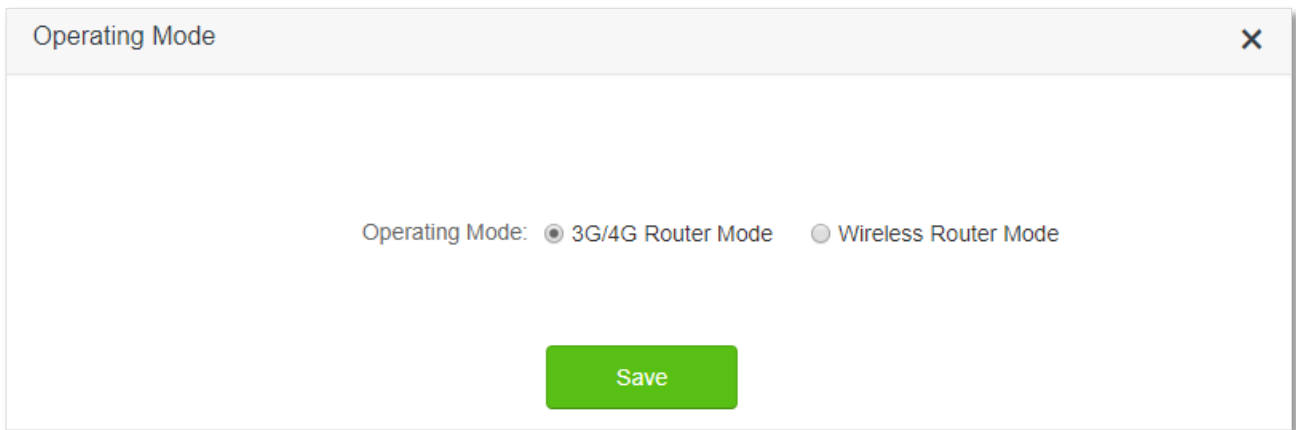
Advanced settings

11.1 Operating mode

11.1.1 Overview

In addition to providing internet access with a SIM card, the router can also be connected to a broadband. By switching the operating mode, you can access the internet through the corresponding method. The default operating mode is 3G/4G router mode.

To access the configuration page, log in to the web UI of the router and navigate to **Advanced Settings > Operating Mode**.



To access the internet:

- 3G/4G router mode: Refer to the quick installation guide or [Access the internet with a SIM card](#).
- Wireless router mode: Refer to [Access the internet through the WAN port](#).

11.1.2 Set the router to wireless router mode

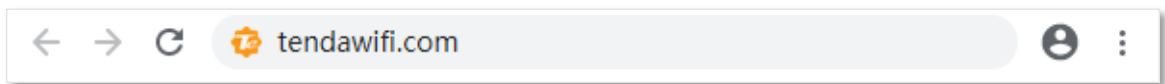
If you have already use the router and is able to [access the web UI](#), navigate to the **Advanced Settings > Operating Mode** to change the operating mode.

If you are using the router for the first time, or the router is reset to factory settings, follow the steps below to set the router to wireless router mode.

Configuring procedure:

Step 1 Log in to the web UI of the router.

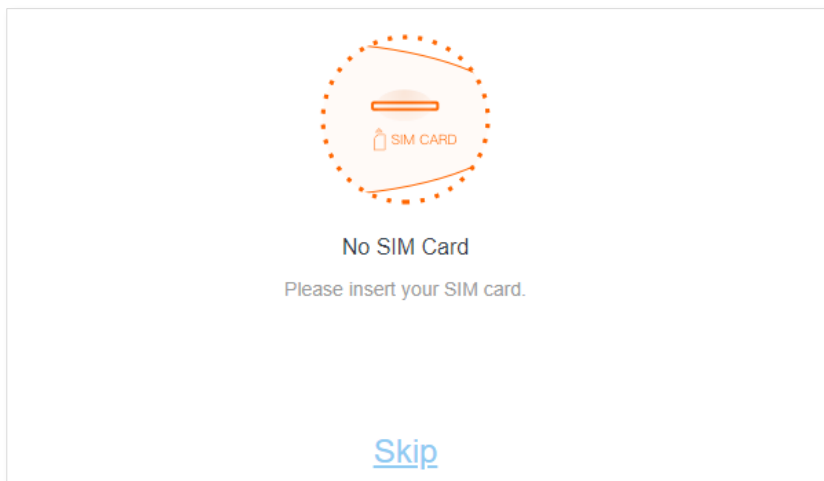
1. Connect your wireless device to the Wi-Fi network of your router, or connect a computer to the LAN port of the router.
2. Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router. A computer is used for illustration below.



3. Click **Start**.



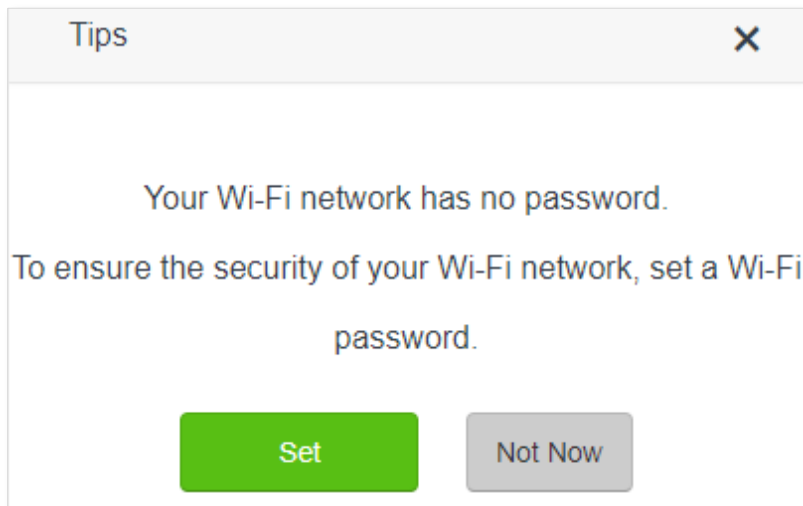
4. Click **Skip**.



5. Do not set login and Wi-Fi password now by ticking **Not Required**, and click **Next**.

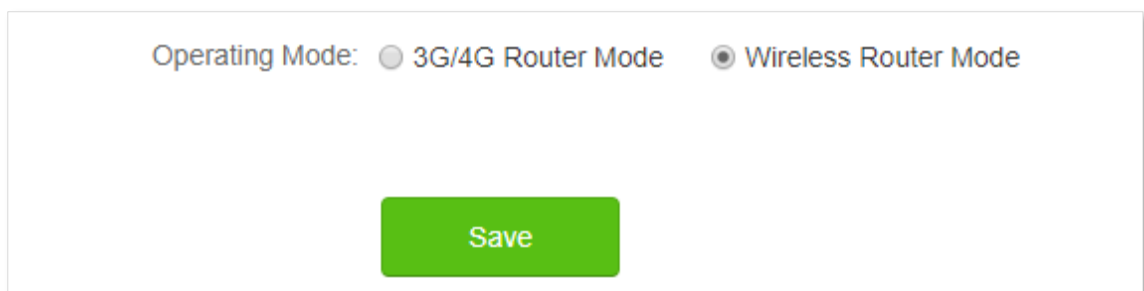
A screenshot of the "Wi-Fi Settings" screen. It has a white background. At the top is the title "Wi-Fi Settings". Below it are three rows of settings. The first row is for the Wi-Fi name, with a text box containing "Tenda_F5E8B0" and a note: "Wi-Fi name for 2.4 GHz & 5 GHz. Smart devices will auto-connect to the better Wi-Fi network." The second row is for the Wi-Fi password, with a text box containing "Wi-Fi password of 8-32 characters" and a checkbox labeled "No Password" which is checked. The third row is for the login password, with a text box containing "Login password of 5-32 characters" and a checkbox labeled "No Password" which is checked. A green "Next" button is at the bottom center. A red dashed box highlights the two "No Password" checkboxes.

6. Click **Not Now**.



Step 2 Set the router to wireless router mode.

1. Choose **Advanced Settings > Operating Mode**.
2. Click **Wireless Router Mode**, and click **Save**.



---End

After rebooting, the router is set to wireless router mode.

11.2 SIM PIN (3G/4G wireless router mode)



This function is only available under the 3G/4G router mode. Refer to [Operating mode](#) to set the operating mode of the router.

SIM PIN is a protective measure to prevent your SIM card from misuse. If your SIM card is locked when you insert it into the router, you are required to unlock it for internet access. You can also enable the PIN lock and specify a PIN code for an unlocked SIM card.

To access the SIM PIN setting page, log in to the web UI of the router and navigate to **Advanced Settings > SIM PIN**.

When the SIM card is not set with PIN code, the page is shown as below.

SIM PIN

SIM Card Status: Ready

PIN Lock: ☐

Refresh



The PIN code can be set and changed by users. Contact your ISP for the original PIN code or other help.

11.2.1 Unlock the SIM card

If you want to use a locked SIM card to access the internet, you need to unlock it first.

Unlock the SIM card in the quick setup wizard

When you use the router for the first time or the router is reset, you are required to unlock the SIM card in the quick setup wizard.

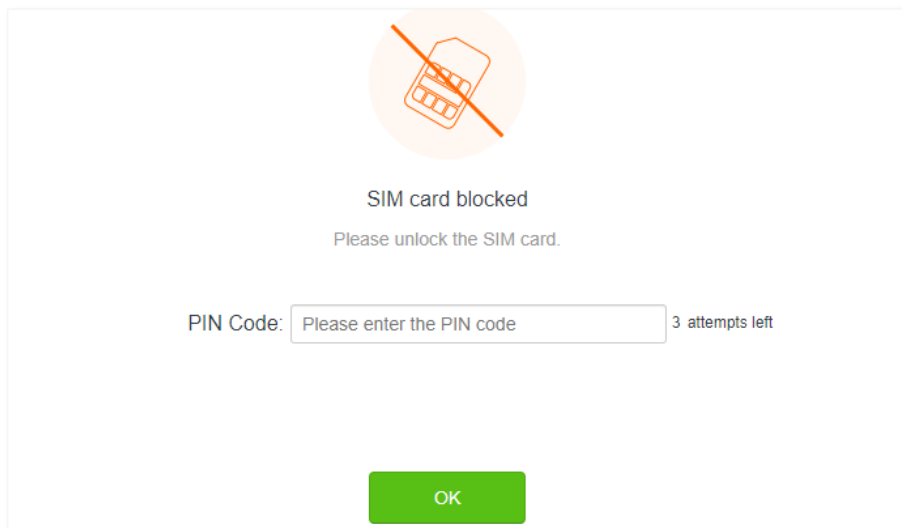
Configuring procedure:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Click **Start**.



Step 3 Enter the **PIN Code**, and click **OK**.



You can only try the PIN code for 3 times. If you fail all, you have to use PUK code to reset the PIN code. Contact your ISP for the PUK code. Otherwise the SIM card may be locked permanently after entering the wrong PUK code for 10 times.

Step 4 Follow the steps to complete the setup process.

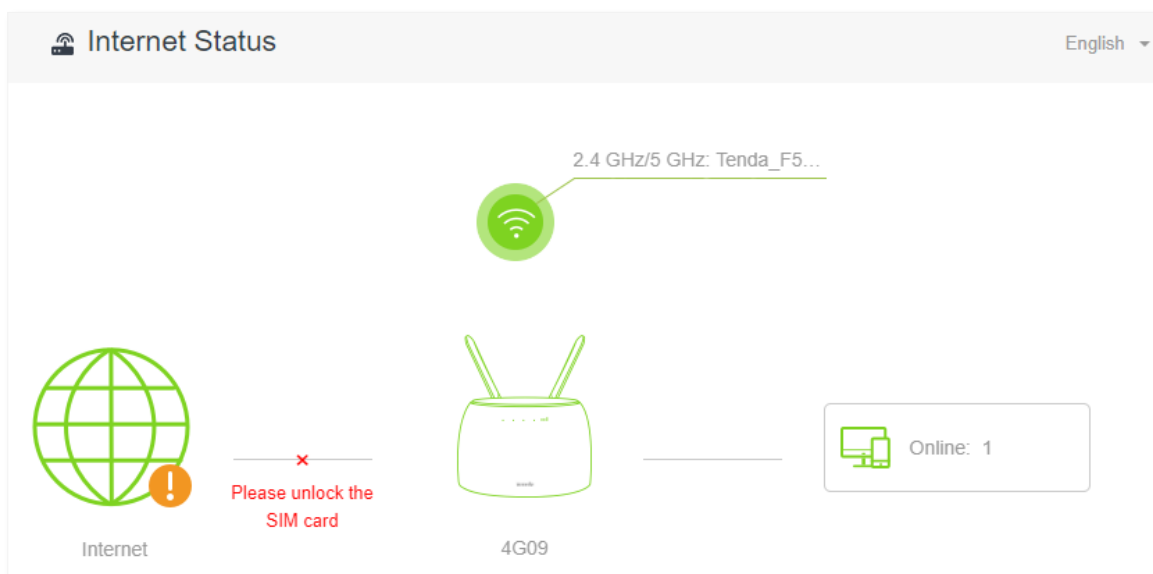
---End

Unlock the SIM in the web UI

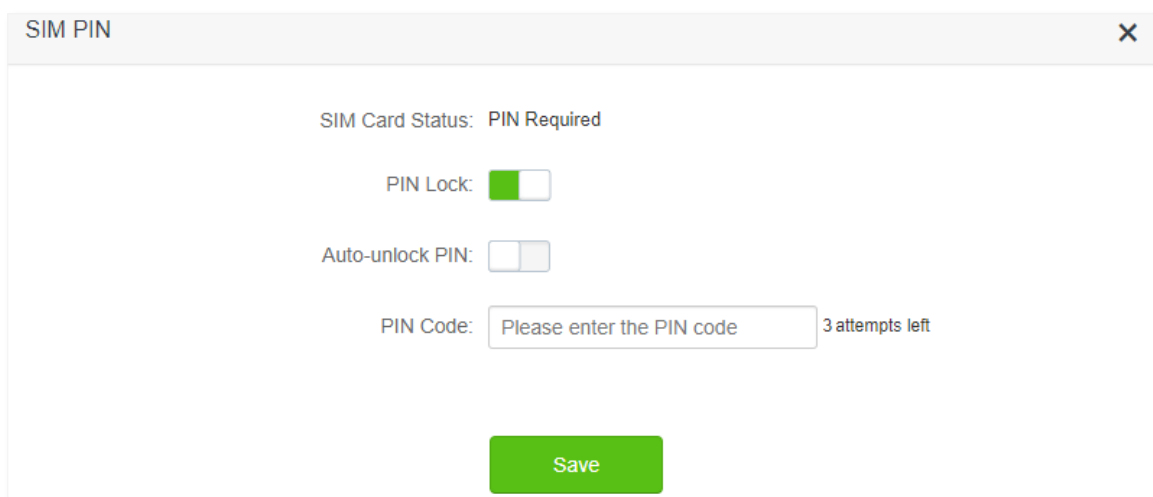
You can also unlock the SIM card when you already can access the web UI of the router.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Click **Please unlock the SIM card**, or navigate to **Advanced Settings > SIM PIN**.



- Step 3** Enter the **PIN Code**, and click **Save**.



- You can only try the PIN code for 3 times. If you fail all, you have to use PUK code to reset the PIN code. Contact your ISP for the PUK code. Otherwise the SIM card may be locked permanently after entering the wrong PUK code for 10 times.
- When **Auto-unlock PIN** is enabled, the router will unlock the SIM card automatically each time the router completes rebooting (the PIN code is still required after resetting).

---End

11.2.2 Disable PIN lock for the SIM card

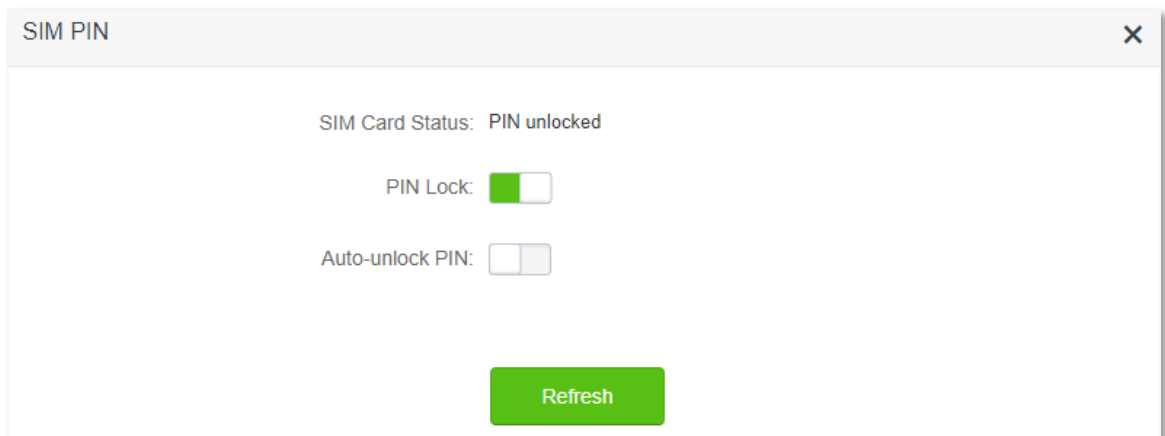
After disable PIN lock for the SIM card, your SIM card will not be protected by PIN lock.

Configuring procedure:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

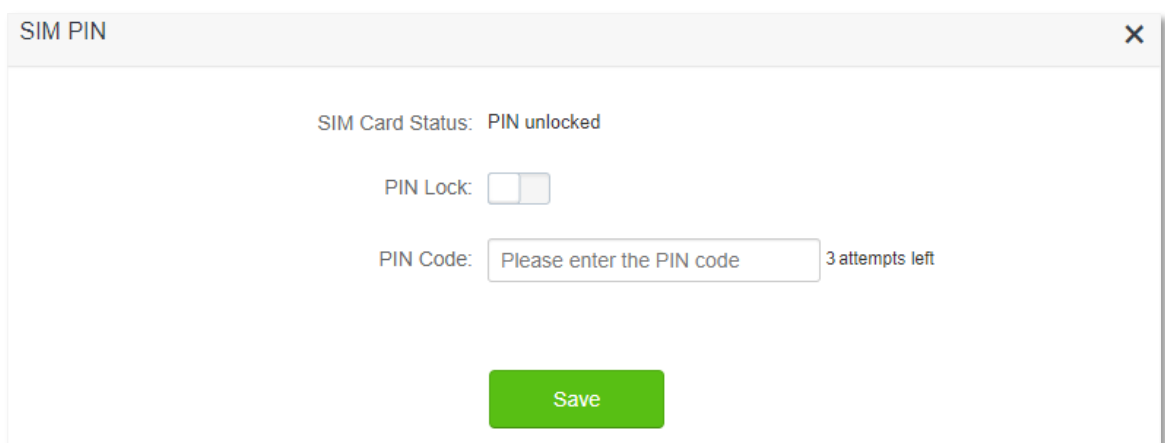
Step 2 Choose **Advanced Settings > SIM PIN**.

Step 3 Disable **PIN Lock**.



The screenshot shows a web interface titled "SIM PIN" with a close button (X) in the top right corner. The status "SIM Card Status: PIN unlocked" is displayed. Below it, the "PIN Lock" toggle is switched off (green bar on the left). The "Auto-unlock PIN" toggle is also shown in the off position. A green "Refresh" button is located at the bottom center.

Step 4 Enter the original **PIN Code**, and click **Save**.



The screenshot shows the same "SIM PIN" web interface. The "PIN Lock" toggle is now switched on (grey bar on the left). The "PIN Code" field is active, showing the placeholder text "Please enter the PIN code". To the right of the input field, it says "3 attempts left". A green "Save" button is located at the bottom center.

---End

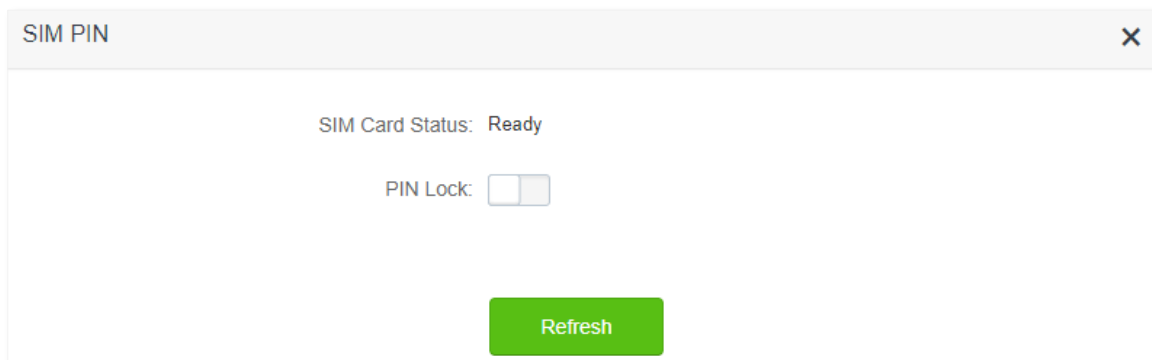
11.2.3 Set a PIN code for the SIM card

You can also set a PIN code for a SIM card without PIN code.

Configuring procedure:

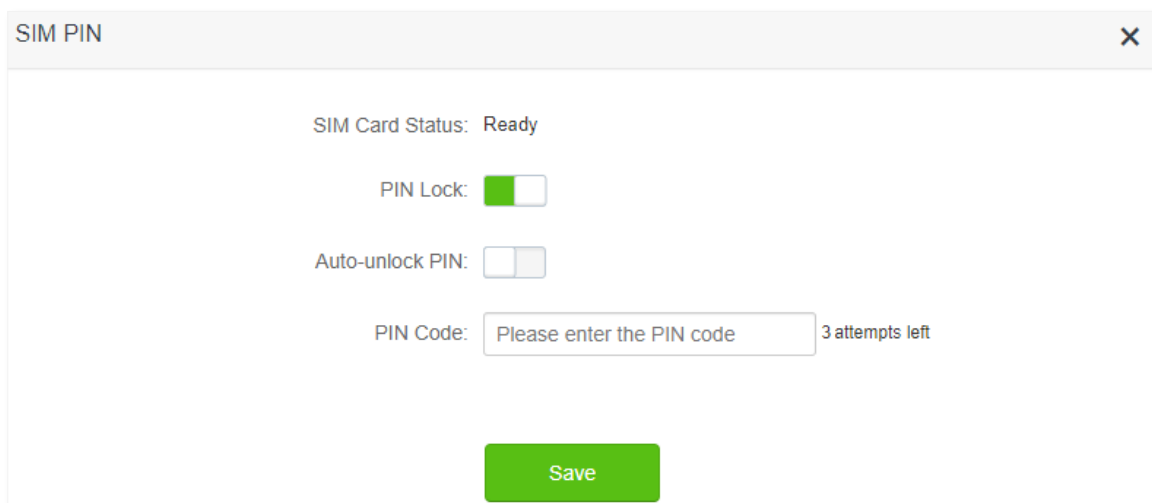
Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Enable **PIN Lock**.



The screenshot shows a web interface titled "SIM PIN" with a close button (X) in the top right corner. The "SIM Card Status" is "Ready". The "PIN Lock" toggle switch is currently turned off (white). A green "Refresh" button is located at the bottom right.

Step 3 Specify a **PIN Code**, and click **Save**.



The screenshot shows the same "SIM PIN" web interface. The "PIN Lock" toggle switch is now turned on (green). Below it, the "Auto-unlock PIN" toggle switch is turned off (white). The "PIN Code" field is now visible, containing the placeholder text "Please enter the PIN code" and a "3 attempts left" indicator. A green "Save" button is located at the bottom right.



When **Auto-unlock PIN** is enabled, the router will unlock the SIM card automatically each time the router completes rebooting (the PIN code is still required after resetting).

---End

11.2.4 Change the PIN code of SIM card

To change the PIN code of the SIM card, [disable the PIN code of SIM card](#) first, then [set a PIN code for the SIM card](#).

11.3 Mobile data



This function is only available under the 3G/4G router mode. Refer to [Operating mode](#) to set the operating mode of the router.

11.3.1 Overview

You can view and update data usage statistics, and configure data usage settings, such as data usage limit and usage alert.

To access the configuration page, log in to the web UI of the router and choose **Advanced Settings > Mobile Data**.

Mobile Data

Total Used: 0.261 MB

Update

This usage statistic is for reference. You can send messages to your ISP to inquire the accurate usage statistic and update it here manually.

Data Limit:

☒

The router automatically disconnects from the internet when the data limit is reached.

Monthly Allowance:

GB

Usage Alert:

80%

SMS Alert of Usage:

Send Test Message

Note: This function may cause SMS charges.

Monthly Data Statistics:

☒

Start Date:

Save

Parameter description

Parameter	Description
Total Used	It specifies the total data traffic that has been used. You can correct it by consulting your ISP and clicking Update to change it manually. When the Monthly Data Statistics function is enabled, the router will clear the number at the date specified in Start Date.

Parameter	Description
Data Limit	It is used to enable or disable the data limit function. When the limit is reached, the router will disconnect from the internet automatically.
Monthly Allowance	It specifies the specific maximum data usage allowed for each month.
Usage Alert	When the percentage of data traffic used reaches the limit, the router will send an alert SMS message to a specified phone number.
SMS Alert of Usage	It specifies the phone number for receiving the alert SMS message. You can click Sent Test Message to test the phone number you entered.
Monthly Data Statistics	It is used to enable or disable the Monthly Data Statistics. When it is enabled, the router will clear the number of Total Used at the date specified in Start Date .
Start Date	It specifies the date at which the router clears the data statistics of the last month and start to record in the following month.

11.3.2 An example of mobile data configurations

Scenario: You inserted a SIM card in the router to provide mobile internet access for your smartphone, iPad and laptop.

Goal: You want to receive SMS message alert on your smartphone and get prepared when the usage reaches a certain amount every month.

Solution: You can configure mobile data settings to reach the goal.

Assume that:

- Available data traffic: 10 GB
- Start date of data usage record: 1st each month
- Smartphone number: 188****5555
- Alert percentage: 80%

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Advanced Settings > Mobile Data**.
- Step 3** (Optional) Update the current usage data in **Total Used**.
- Step 4** Enable **Data Limit**.
- Step 5** Enter **10** in Monthly Allowance, and choose **GB** in the drop-down box.
- Step 6** Set Usage Alert to **80 %**.
- Step 7** Enter **188****5555** in SMS Alert of Usage.
- Step 8** Enable **Monthly Data Statistics**.
- Step 9** Enter **1** in Start Date.
- Step 10** Click **Save**.

Mobile Data

Total Used: 0.000 MB

Update

This usage statistic is for reference. You can send messages to your ISP to inquire the accurate usage statistic and update it here manually.

Data Limit:

☐

The router automatically disconnects from the internet when the data limit is reached.

Monthly Allowance:

10

GB

Usage Alert:

80%

SMS Alert of Usage:

188****5555

Send Test Message

Note: This function may cause SMS charges.

Monthly Data Statistics:

☐

Start Date:

1

Save

---End

After completing the configuration, you will receive a SMS message when the data traffic usage reached 8 GB and cannot access the internet through the router when the data traffic usage reached 10 GB.



TIP

If you want to connect to the internet again after the data limit is reached, try the following methods:

- Change the **Total Usage** by clicking **Update**.
- Disable **Data Limit**.
- Navigate to **Internet Settings**, and click **Connect** at the bottom of the page.

11.4 Bandwidth control

11.4.1 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 of the router and choose **Advanced Settings > Bandwidth Control**.

Bandwidth Control				
Device Name	Upload Speed	Download Speed	Upload Limit	Download Limit
 DESKTOP-5LII2L5 192.168.0.136	0.0KB/s	0.0KB/s	Unlimited	Unlimited
 Daughter's iPhone 192.168.0.174	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 down load speed limit for the device. You can click the drop-down box to choose a number or set it manually.
Download Limit	

11.4.2 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.

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **Advanced Settings > Bandwidth Control**.
- Step 3** Target the devices to be controlled, and set the **Download Limit** to **4.0 Mbps (For HD Video)**.
- Step 4** Click **Save**.

Bandwidth Control				
Device Name		Upload Speed	Download Speed	
 DESKTOP-5LII2L5 192.168.0.136		0.0KB/s	0.0KB/s	Unlimited  4.0Mbps 
 Daughter's iPhone 192.168.0.174		0.0KB/s	0.0KB/s	Unlimited  4.0Mbps 

---End

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

11.5 IPTV (wireless router mode)



This function is only available under the wireless router mode. Refer to [Operating mode](#) to set the operating mode of the router.

11.5.1 Overview

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 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 (Set Top Box):** 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 of the router and choose **Advanced Settings > IPTV**.

The IPTV function is disabled by default. When it is enabled, the page is shown below.

The screenshot shows the IPTV configuration interface. It includes toggle switches for Multicast and STB, a text instruction to connect the STB to the IPTV port, a VLAN dropdown menu, and a Save button.

Parameter description

Parameter	Description
STB	It is used to enable and disable the IPTV function of the router. When this function is enabled, the LAN port can be used only as an IPTV port and be connected to an IPTV set top box.
VLAN	It specifies the VLAN ID of your IPTV service.

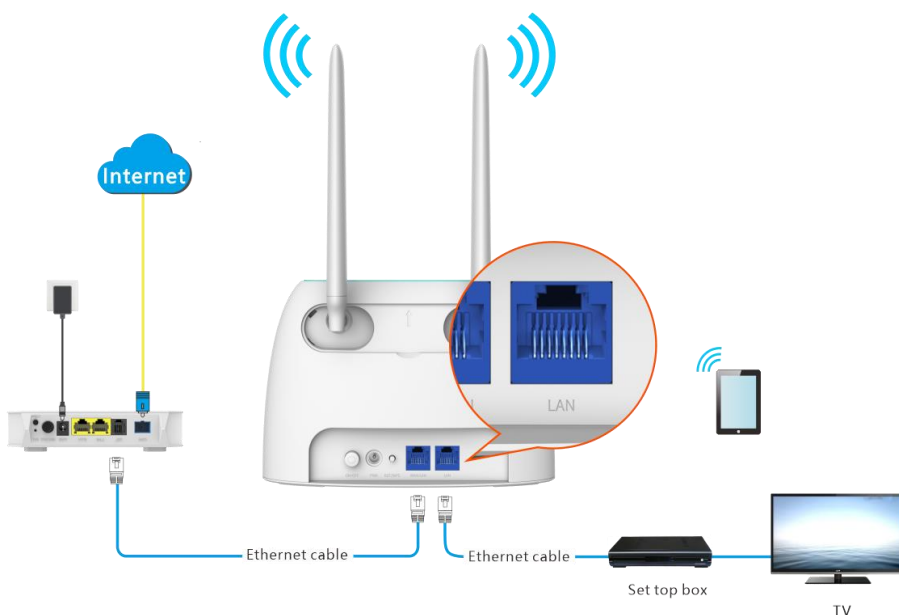
Parameter	Description
	- If your ISP does not provide any VLAN ID information when the IPTV service is available, please keep Default. - If you have obtained VLAN ID from your ISP when the IPTV service is available, please choose Custom VLAN and enter the VLAN value. If you purchased the IPTV service in Shanghai, choose Shanghai VLAN and the desired VLAN ID.

11.5.2 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.



Configuring procedure:

Step 1 Set you router.

1. Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
2. Choose **Advanced Settings > IPTV**.
3. Enable the **STB** function.
4. Click **Save**.

IPTV
✕

Multicast: ☐

STB: ☒

Connect the IPTV STB to the IPTV port of the router.

VLAN: Default

Save

Step 2 Configure the set top box.

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

---End

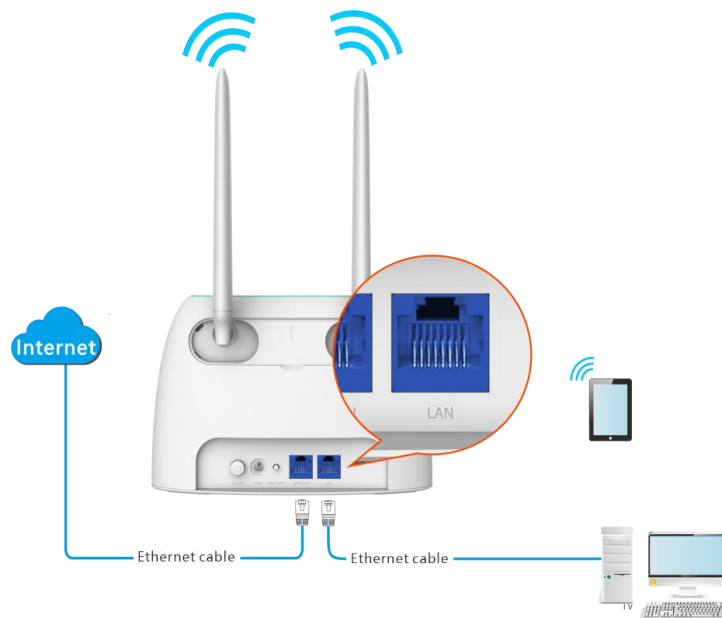
When completing the configurations, you can watch IPTV programs on your TV.

11.5.3 Watch multicast videos through the router

Scenario: You have the address of multicast videos.

Goal: Be able to watch multicast videos.

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



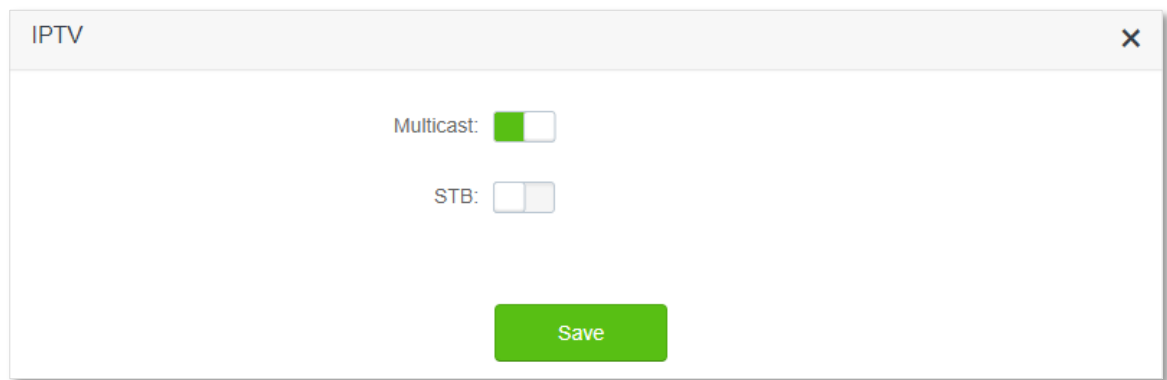
Configuring procedure:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Choose **Advanced Settings > IPTV**.

Step 3 Enable the **Multicast** function.

Step 4 Click **Save**.

A screenshot of a software window titled "IPTV" with a close button (X) in the top right corner. The window contains two toggle switches. The first is labeled "Multicast:" and is currently turned on, indicated by a green bar. The second is labeled "STB:" and is currently turned off, indicated by a grey bar. At the bottom center of the window is a green button with the text "Save".

IPTV

Multicast: ☒

STB: ☐

Save

---End

When completing the configurations, you can watch multicast videos on your computer.

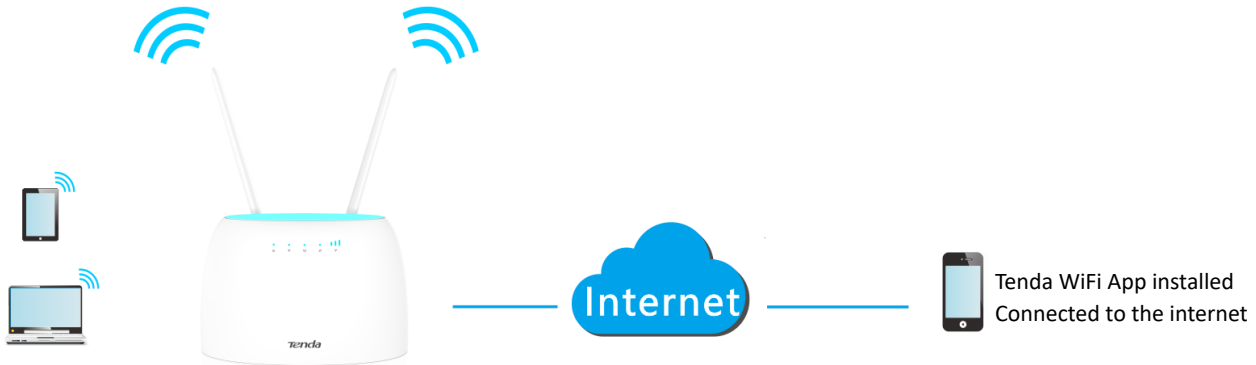
11.6 Tenda WiFi App (wireless router mode)



This function is only available under the wireless router mode. Refer to [Operating mode](#) to set the operating mode of the router.

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

- Manage your router within the LAN.
- Manage your router through the internet.



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

Configuring procedure:

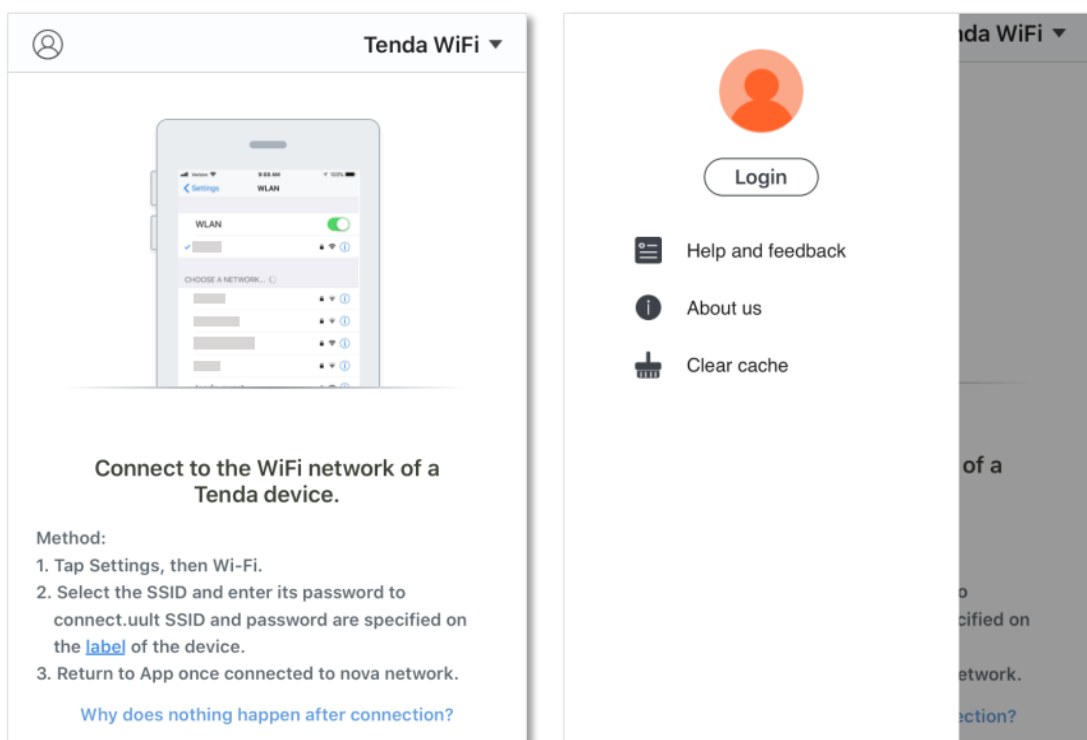
Step 1 Go to the App store search for the **Tenda WiFi** App. Download and install it on your phone.



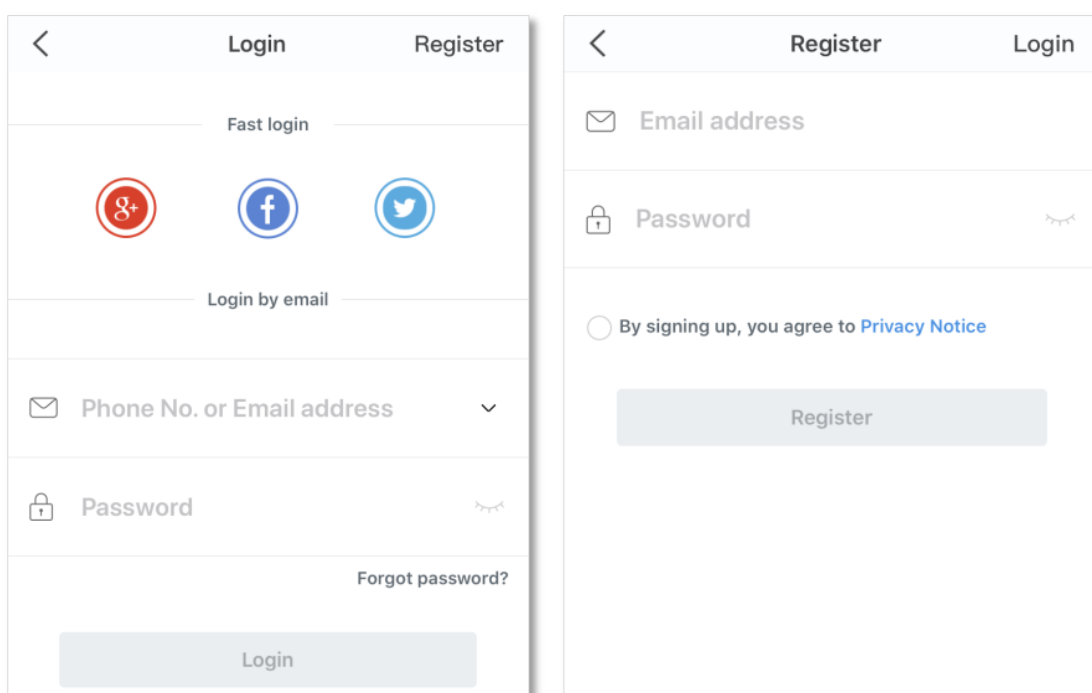
If you already have a Tenda WiFi App account or want to use the fast login approach, skip to **Step 3** and proceed with the settings.

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**.

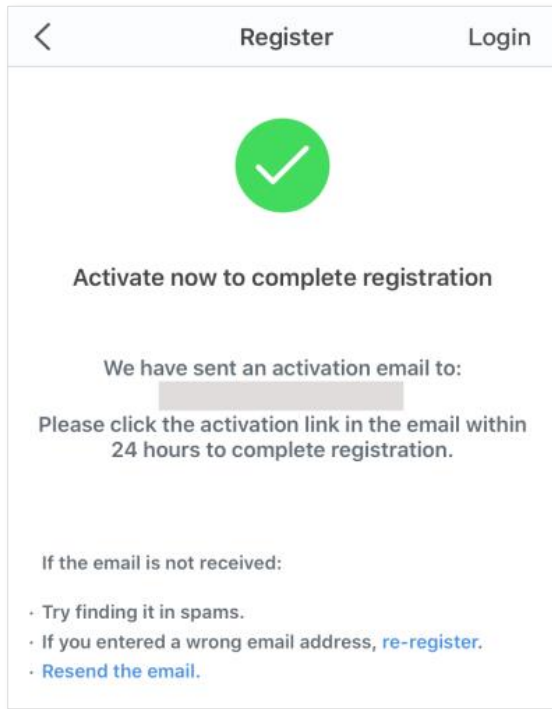


2. Tap **Register** at the top right corner, and register with an Email account.



3. Check the Email sent to your Email account and follow the instruction to finish the Email account confirmation process.

4. Tap **Login** at the top right corner of the registration page.

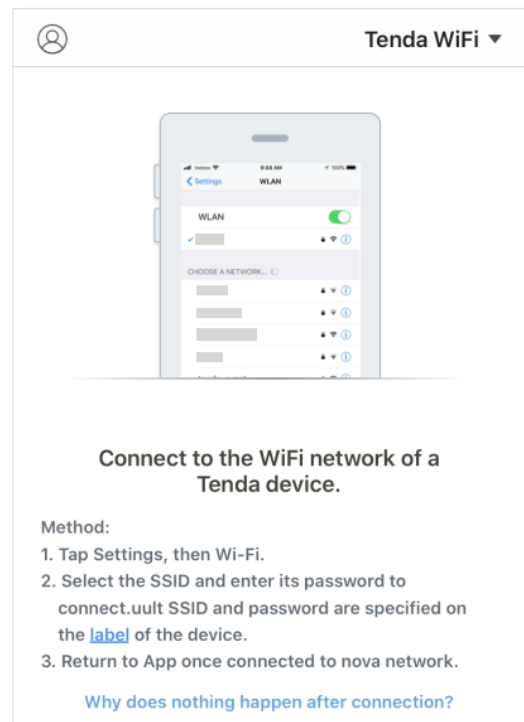
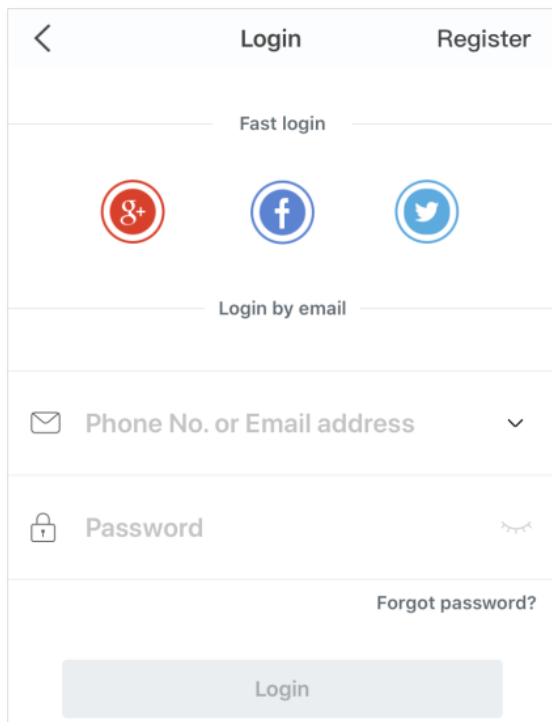


Step 3 Log in with a registered account.

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

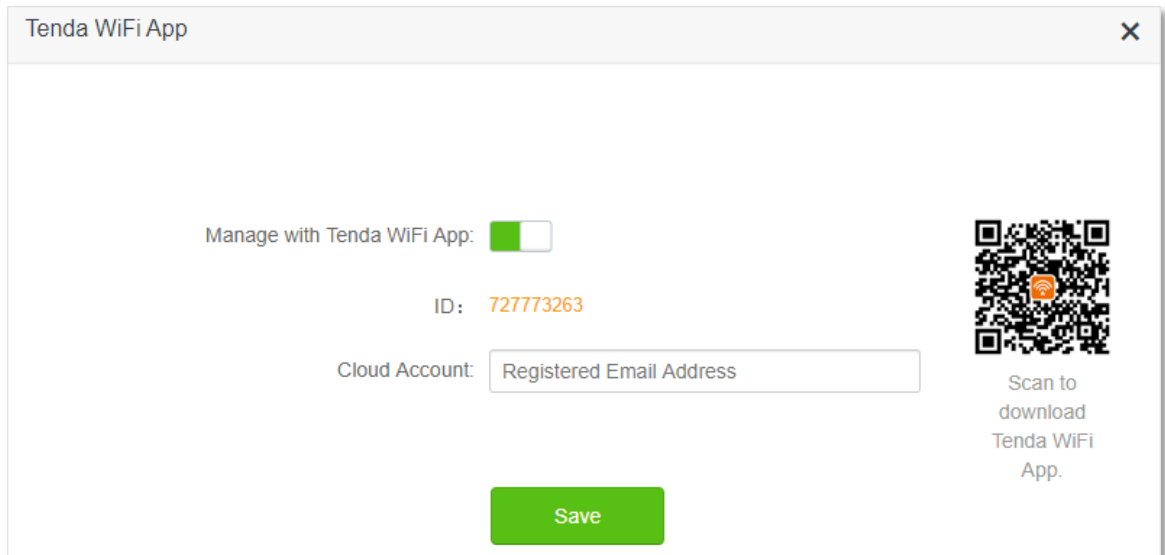


You can also choose to log in with your google, facebook and twitter account without registering a Tenda WiFi App account. Choose an option in **Fast login**.



Step 4 Bind your router with your smart phone.

1. Start a web browser on the phone connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
2. Choose **Advanced Settings > Tenda WiFi App**.
3. Enable **Manage with Tenda WiFi App**.
4. Enter an account registered in the Tenda WiFi App in **Cloud Account**.
5. Click **Save**.



The screenshot shows a web browser window titled "Tenda WiFi App". Inside the window, there is a toggle switch for "Manage with Tenda WiFi App" which is currently turned on (green). Below this, the "ID" is displayed as "727773263". The "Cloud Account" field contains the text "Registered Email Address". At the bottom center is a green "Save" button. On the right side, there is a QR code with the text "Scan to download Tenda WiFi App." below it.

---End

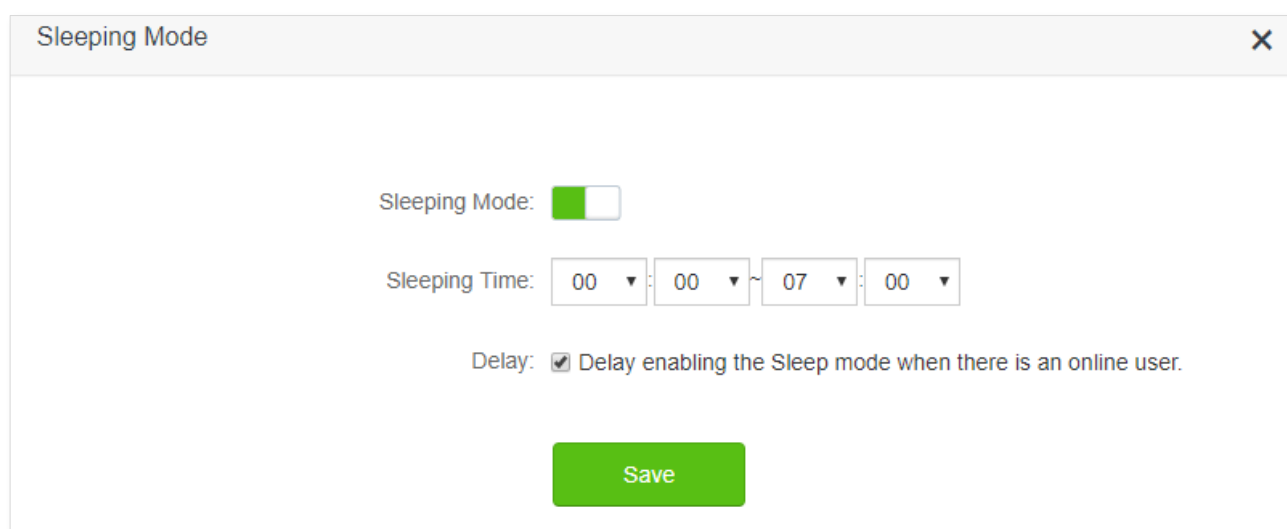
When completing the configurations, you can manage your router with Tenda WiFi App on your phone anywhere and anytime through the internet.

11.7 Sleeping mode

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

To access the configuration page, log in to the web UI of the router, and choose **Advanced Settings > Sleeping Mode**.

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



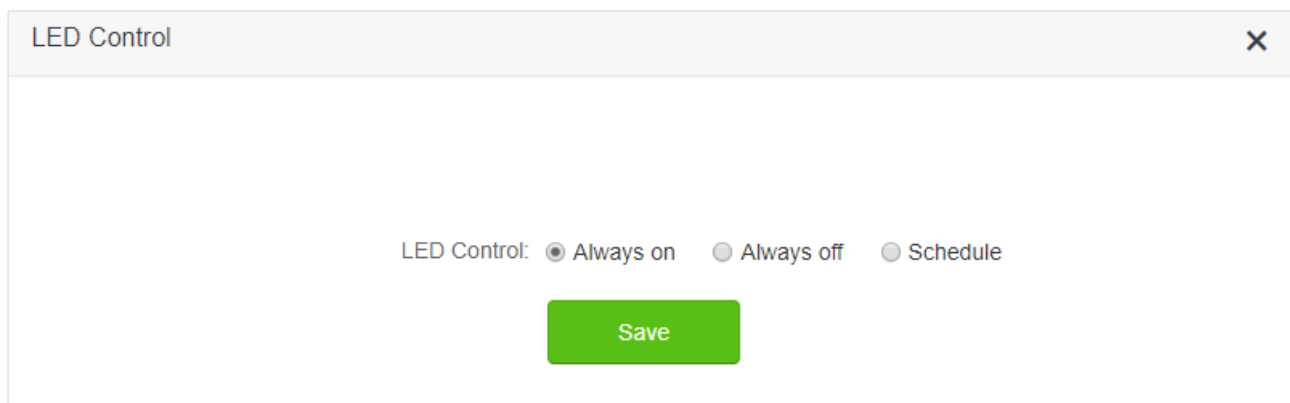
Parameter description

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 Wi-Fi network, use the Tenda WiFi App to wake up the router.
Sleeping Time	It specifies the period during which the router is under the sleeping mode.
Delay	It is used to enable or disable the Delay function. • 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 the sleeping mode. • Unticked: The function is disabled. The router enters the sleeping mode during the sleeping time.

11.8 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 of the router, and choose **Advanced Settings > LED Control**.

A screenshot of the 'LED Control' configuration window. The window has a title bar with 'LED Control' and a close button (X). The main area contains the text 'LED Control:' followed by three radio button options: 'Always on' (which is selected), 'Always off', and 'Schedule'. Below these options is a green 'Save' button.

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.

11.9 Filter MAC address

11.9.1 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 of the router, and choose **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
		+New

The blacklist is empty.

Parameter description

Parameter	Description
MAC Address Filter Mode	It specifies the MAC address filter mode. • Blacklist: Wireless devices listed are unable to connect to the Wi-Fi network of the router, and wired devices listed are unable to access the internet. • Whitelist: Wireless devices listed are able to connect to the Wi-Fi network of the router, and wired devices listed are able to 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	+New : It is used to add new devices 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.

11.9.2 Only allow specified device to access the internet

Scenario: The Wi-Fi 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

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **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**.

The screenshot shows the 'Filter MAC Address' dialog box. At the top, there's a title bar with a close button. Below it, the 'MAC Address Filter Mode' is set to 'Whitelist' (indicated by a selected radio button). The mode description is '(To allow only the listed devices to access the internet)'. Below this, there's a table with three columns: 'Whitelisted Device', 'MAC Address', and 'Operation'. The first row shows 'Wife's phone' in the device name field, '94:C6:91:29:C2:12' in the MAC address field, and a '+New' button in the operation column. The second row shows 'Unknown' as the device name, '8C:EC:4B:B3:04:92' as the MAC address, and 'Local Host' as the operation.

- 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**.

The screenshot shows the 'Filter MAC Address' dialog box after adding two more devices. The 'MAC Address Filter Mode' remains 'Whitelist'. The table now has three rows: 1. An empty device name field, an empty MAC address field, and a '+New' button. 2. 'Unknown' device name, '8C:EC:4B:B3:04:92' MAC address, and 'Local Host' operation. 3. 'Wife's phone' device name, '94:C6:91:29:C2:12' MAC address, and a trash icon operation. 4. 'Daughter's phone' device name, '98:9C:57:19:D0:1B' MAC address, and a trash icon operation.

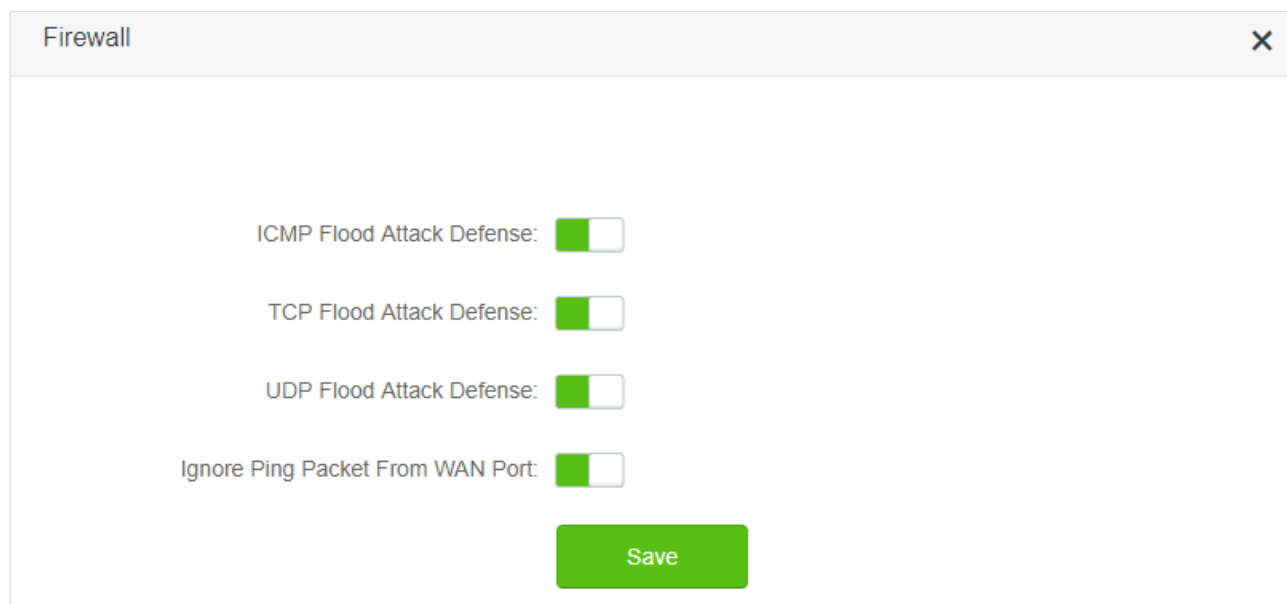
---End

When configuration is completed, only the three devices added are able to access the internet through the router.

11.10 Firewall

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

To access the configuration page, log in to the web UI of the router, and choose **Advanced Settings > Firewall**.



Parameter description

Parameter	Description
ICMP Flood Attack Defense	It is used to enable or disable the ICMP flood attack defense. 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.
TCP Flood Attack Defense	It is used to enable or disable the TCP flood attack defense. 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 of time, and then suspends in a semi-connected state, thereby occupying a large amount of server resources until the server denies any services.
UDP Flood Attack Defense	It is used to enable or disable the UDP flood attack defense. The UDP flood attack is implemented in a similar way with 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.
Ignore Ping Packet From WAN Port	It is used to enable or disable the Ignore Ping packet from WAN Port function. When it is enabled, the router automatically ignores the ping to its WAN from hosts from the internet and prevent itself from being exposed, while preventing external ping attacks.

11.11 Static route

11.11.1 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 of the router, and choose **Advanced Settings > Static Route**.

Static Route				
Destination Network	Subnet Mask	Gateway	WAN	Operation
			WAN1	<button>+New</button>
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	It specifies the IP address of the destination network. When the Destination Network and Subnet Mask are both 0.0.0.0, it indicates that this is the default route.  TIP When the route of packets cannot be found in the routing table, the router will forward the packets using the default route.
Subnet Mask	It specifies the subnet mask of the destination network.

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.

11.11.2 Add a static route rule

Scenario: You have a 4G09 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 are able to access both the internet and intranet at the same time.

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



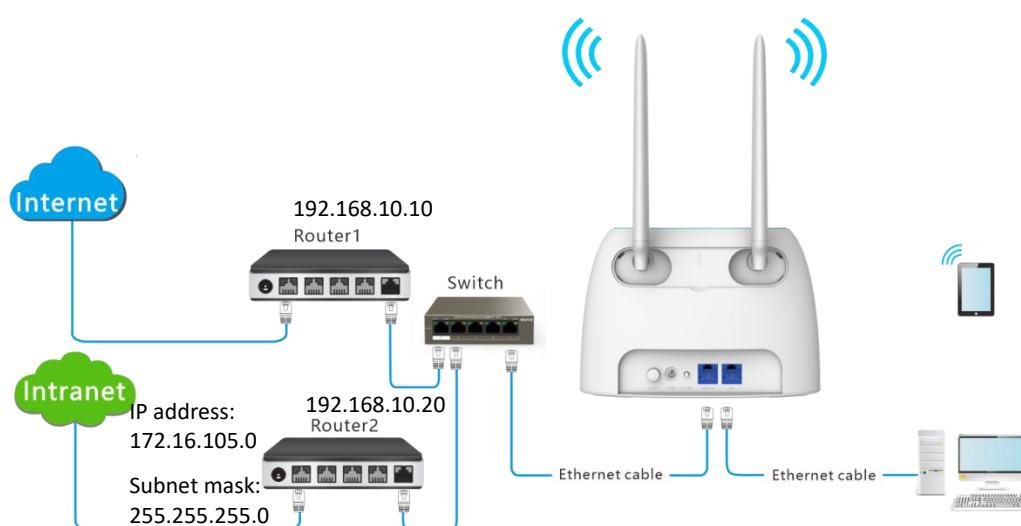
This scenario and solution is only applicable when the router is under wireless router mode.

Assume the LAN IP addresses of these devices are:

- 4G09: 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



Configuring procedure:

LAN: 192.168.0.1

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

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

4G09.

The screenshot shows the 'Internet Settings' window. At the top, there's a globe icon and the title 'Internet Settings', and a language dropdown set to 'English'. Below this, the 'WAN Port' is set to 'Ethernet cable connected' with a small icon. The 'Connection Type' is set to 'Dynamic IP Address' in a dropdown menu. The 'DNS Settings' are set to 'Automatic' in another dropdown menu. The 'Connection Status' is 'Connected. You can access the internet now.' in green text. The 'Connection Duration' is '0 s'. At the bottom, there is a green 'Disconnect' button.

Step 3 Add a static route rule on 4G09.

1. Choose **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**.

The screenshot shows the 'Static Route' configuration window. It has a title bar with a close button. Below the title bar is a table with the following columns: 'Destination Network', 'Subnet Mask', 'Gateway', 'WAN', and 'Operation'. The table contains one row with the following values: '172.16.105.0', '255.255.255.0', '192.168.10.20', 'WAN1', and a '+New' button.

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

---End

When completing the configurations, you can access both the internet and intranet through 4G09 at the same time.

11.12 DDNS

11.12.1 Overview

DDNS normally interworks with 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 of the router, and choose **Advanced Settings > 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.

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

Scenario: You have set up a 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 using 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:

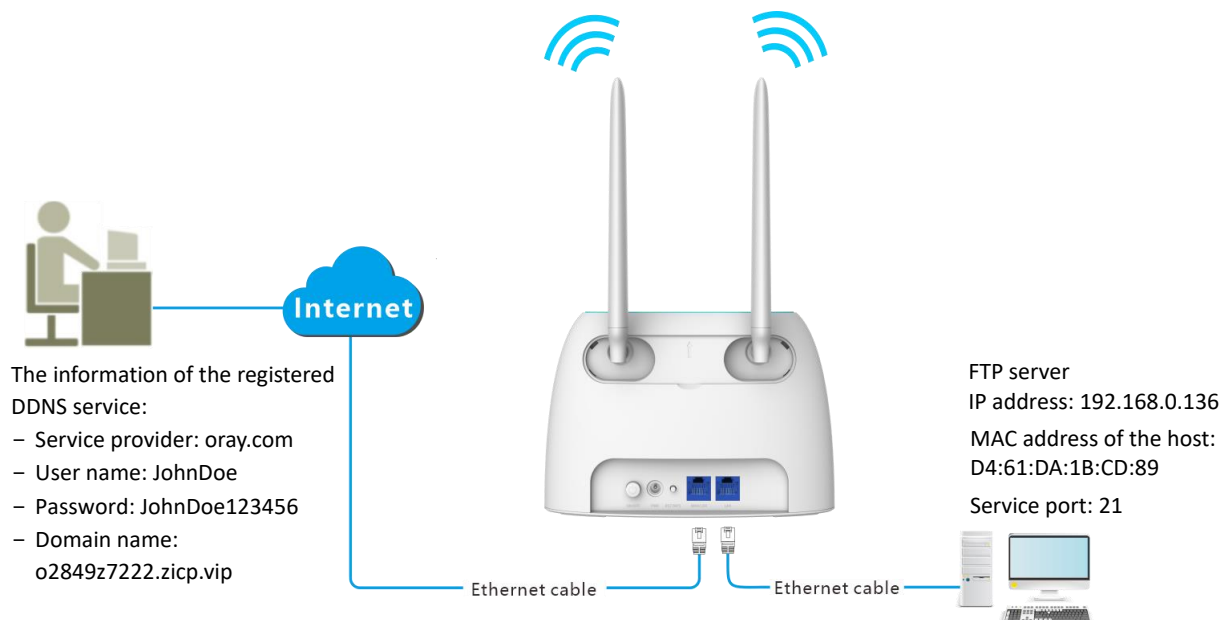
- IP address: 192.168.0.136
- MAC address of the host: D4:61:DA:1B:CD:89
- Service port: 21

The information of the registered DDNS service:

- Service provider: oray.com
- User name: JohnDoe
- Password: JohnDoe123
- Domain name: o2849z7222.zicp.vip

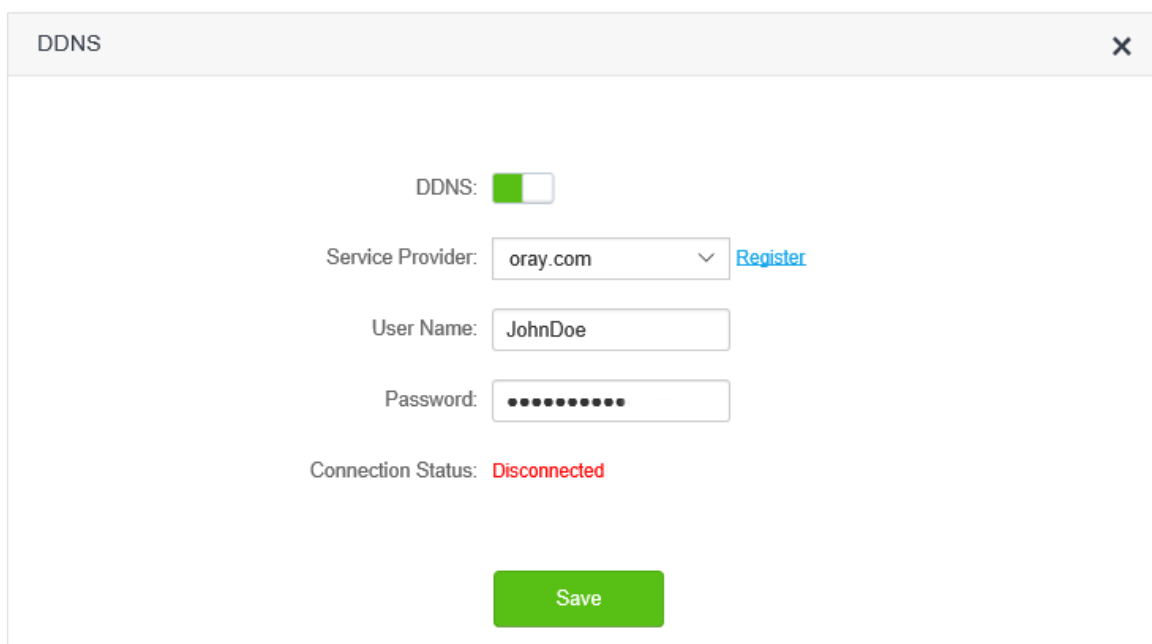


Please ensure that router obtains an IP address from the public network. This function may not work on a host with an IP address of a private network or an intranet IP address assigned by ISPs that start with 100. Common IPv4 addresses are classified into class A, class B and class C. Private IP addresses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



Configuration procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Configure the DDNS function.
1. Choose **Advanced Settings > DDNS**.
 2. Enabled the **DDNS** function.
 3. Choose a service provider, which is **oray.com** in this example.
 4. Enter the user name and password, which are **JohnDoe** and **JohnDoe123** in this example.
 5. Click **Save**.

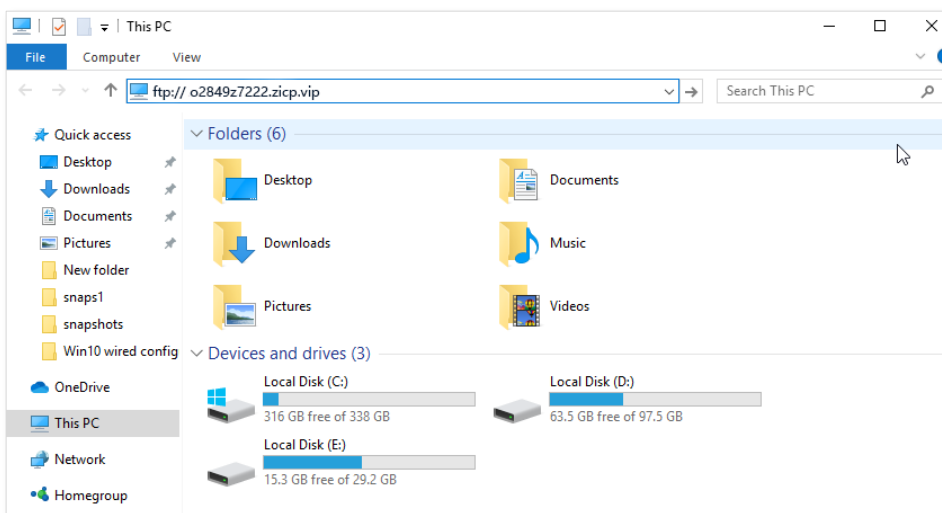


Wait a moment, when the Connection Status turns **Connected**, the configurations succeed.

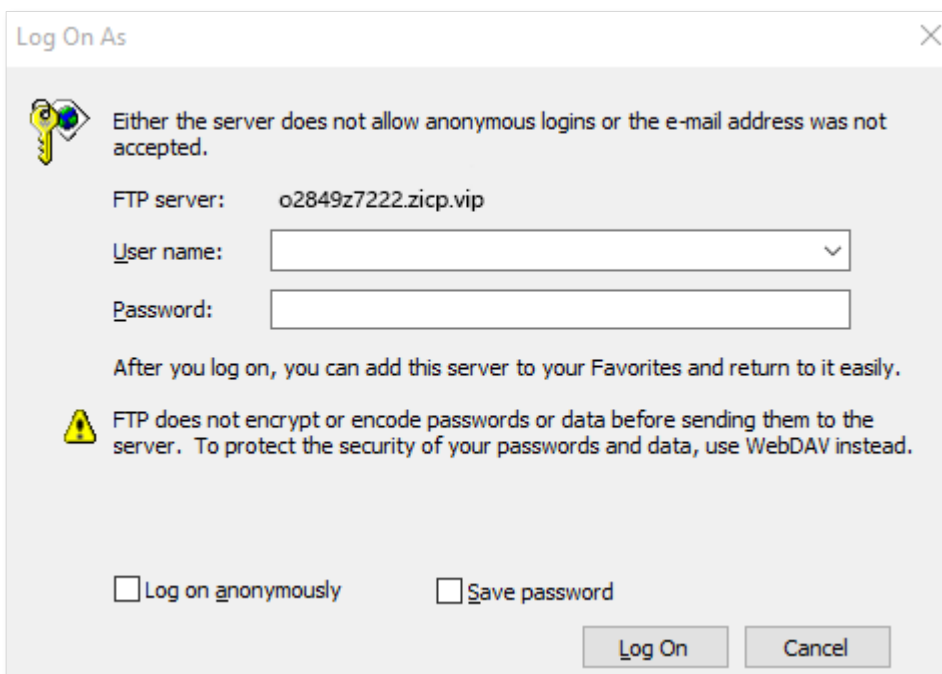
- Step 3** Configure the virtual server function (refer to [Virtual server](#))

---End

When completing the configurations, users from the internet can access the virtual 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.

11.13 Virtual server

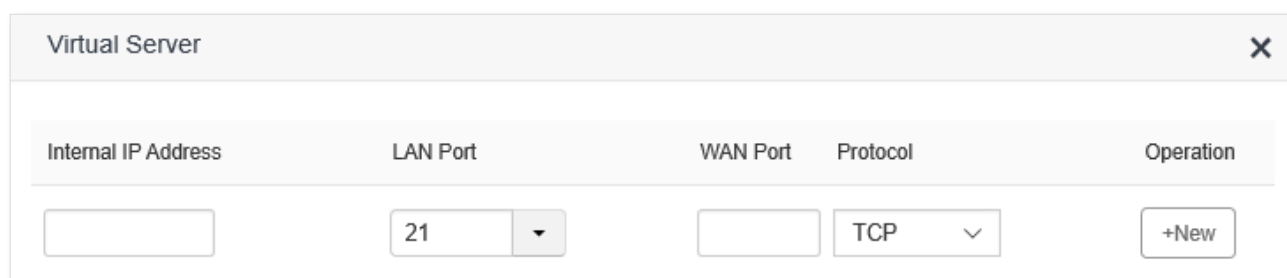
11.13.1 Overview

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 of the router, and choose **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:  : It is used to add a new virtual server rule.  : It is used to delete existing virtual server rules.

11.13.2 Enable internet users to access LAN resources

Scenario: You have set up a 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.

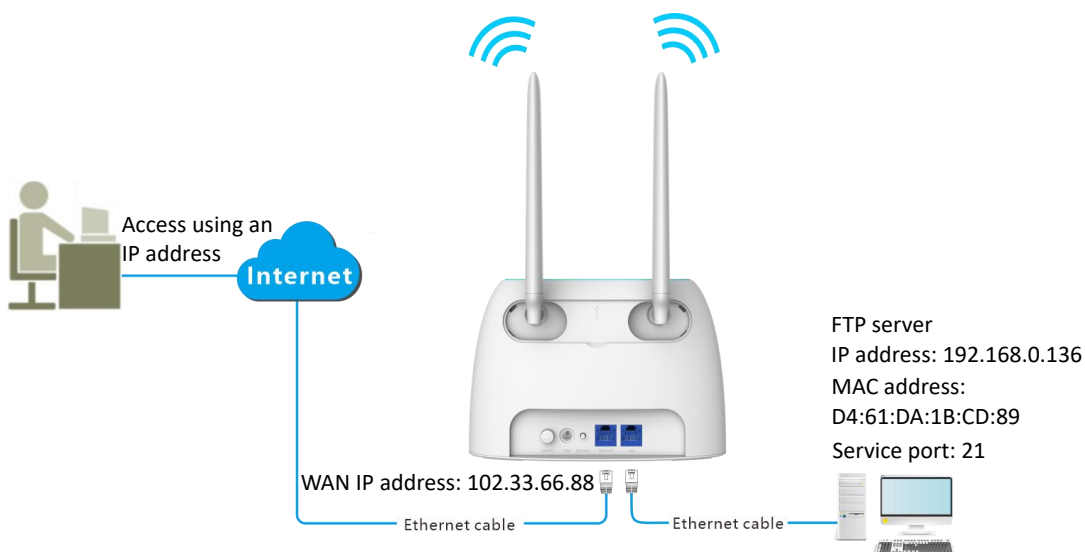
Solution: You can configure the virtual server function to reach the goal.

Assume that the information of the FTP server includes:

- IP address: 192.168.0.136
- 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 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.



Configuration procedure:

Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Add a virtual server rule.

1. Choose **Advanced Settings > Virtual Server**.
2. Enter the **Internal IP Address**, which is **192.168.0.136** in this example.
3. Choose a **LAN Port** in the drop-down box, which is **21** in this example.
4. Choose a protocol, which is **TCP&UDP** in this example.
5. Click **+New**.

Virtual Server				
Internal IP Address	LAN Port	WAN Port	Protocol	Operation
192.168.0.136	21	21	TCP&UDP	+New

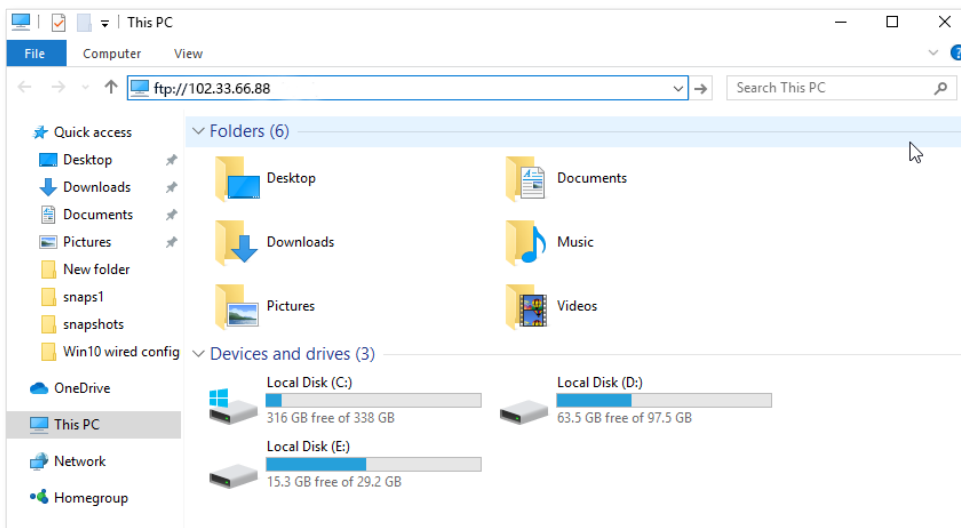
Step 3 Assign a fixed IP address to the host where the server locates.

1. Choose **System Settings > DHCP Reservation**.
2. 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 host of the server, which is **192.168.0.136** in this example.
5. Click **+New**.

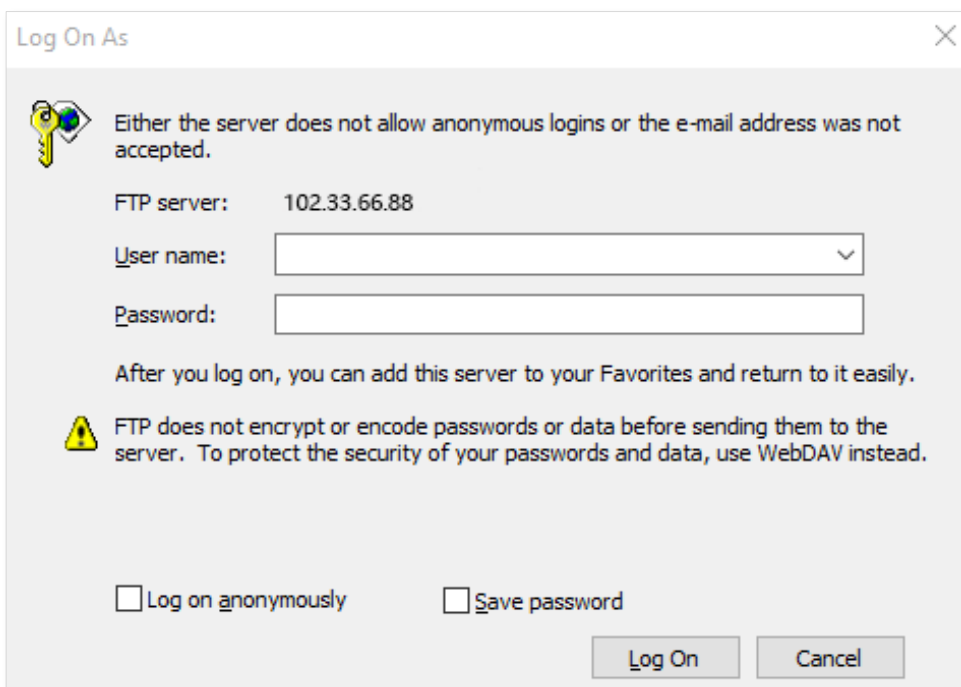
DHCP Reservation				
Device Name	MAC Address	IP Address	Status	Operation
FTP server	:61:DA:1B:CD:89	192.168.0.136	---	+New
DESKTOP-5LII2L5	8c:ec:4b:b3:04:92	192.168.0.136		

---End

When completing the configurations, users from the internet can access the virtual 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 [View system information](#).



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 [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.

11.14 DMZ host

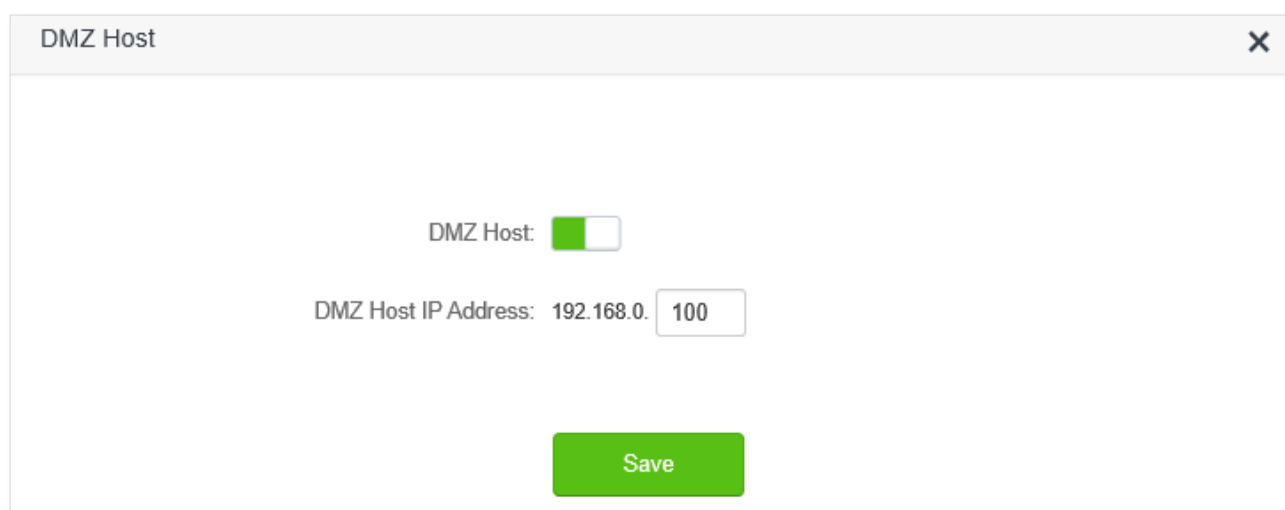
11.14.1 Overview

A DMZ host on a LAN is free from restrictions in communicating with the internet. It is useful for getting 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.
- Manually set a fixed IP address of the LAN computer that functions as a DMZ host (Refer to [DHCP Reservation](#) function), as a changeable IP address may result in DMZ function failures.
- 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 of the router, and choose **Advanced Settings > DMZ Host**.



The image shows a web-based configuration window titled "DMZ Host". Inside the window, there is a toggle switch labeled "DMZ Host:" which is currently turned on (green). Below this, there is a label "DMZ Host IP Address:" followed by a text input field containing "192.168.0." and a numeric input field containing "100". At the bottom center of the window is a green button labeled "Save".

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.

11.14.2 Enable internet users to access LAN resources

Scenario: You have set up a 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.

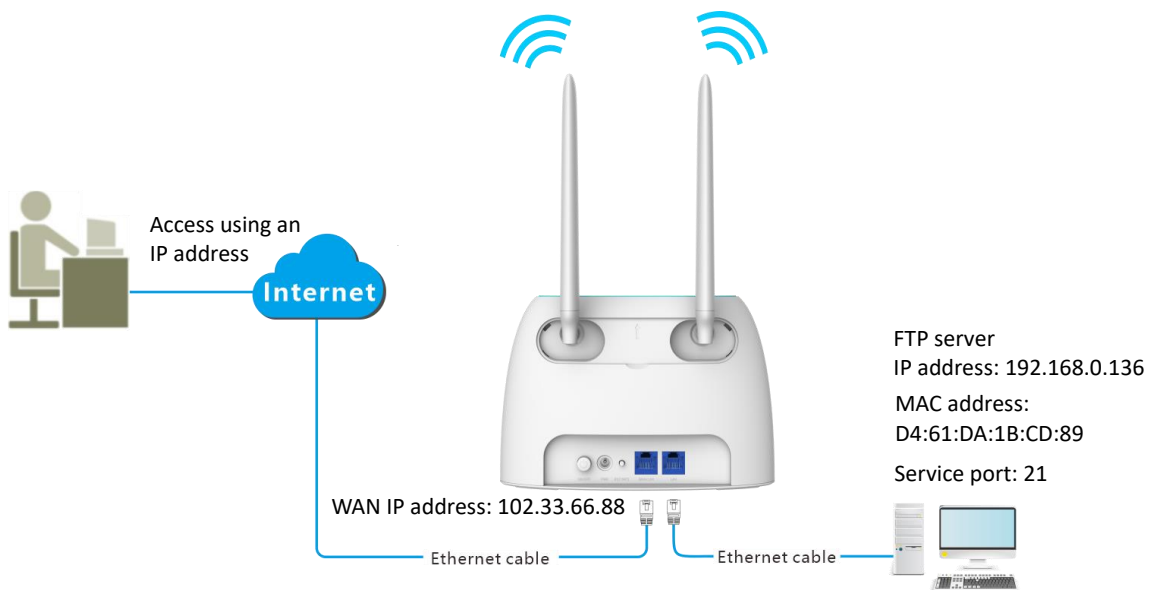
Assume that the information of the FTP server includes:

- IP address: 192.168.0.136
- MAC address: D4:61:DA:1B:CD:89
- Service port: 21
- The WAN IP address of the router: 102.33.66.88.



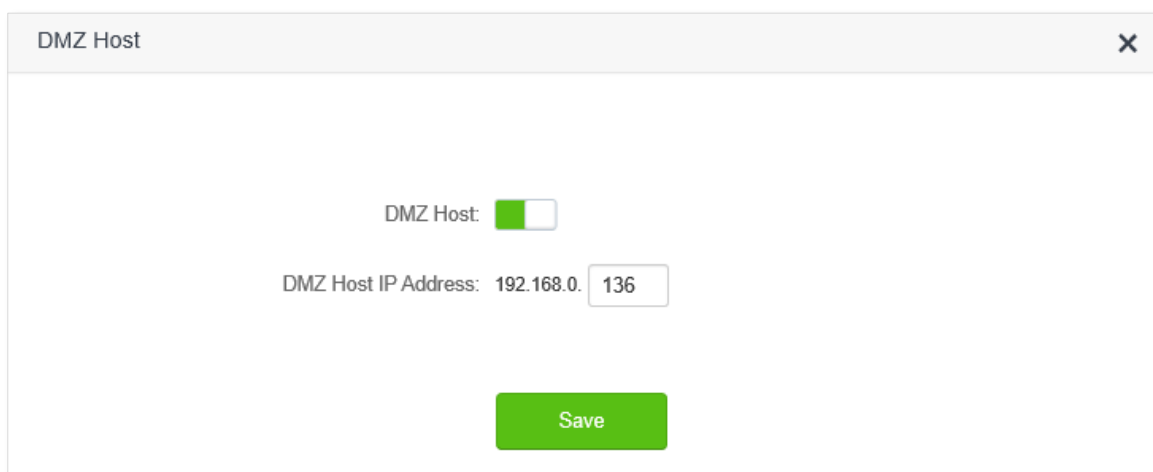
TIP

Please ensure that 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.



Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Set the server host as the DMZ host.
1. Choose **Advanced Settings > DMZ Host**.
 2. Enable **DMZ Host**.
 3. Enter the IP address of the host, which is **192.168.0.136** in this example.
 4. Click **Save**.



DMZ Host

DMZ Host: ☒

DMZ Host IP Address: 192.168.0.

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

1. Choose **System Settings > DHCP Reservation**.
2. 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 **192.168.0.136** in this example.
5. Click **+New**.

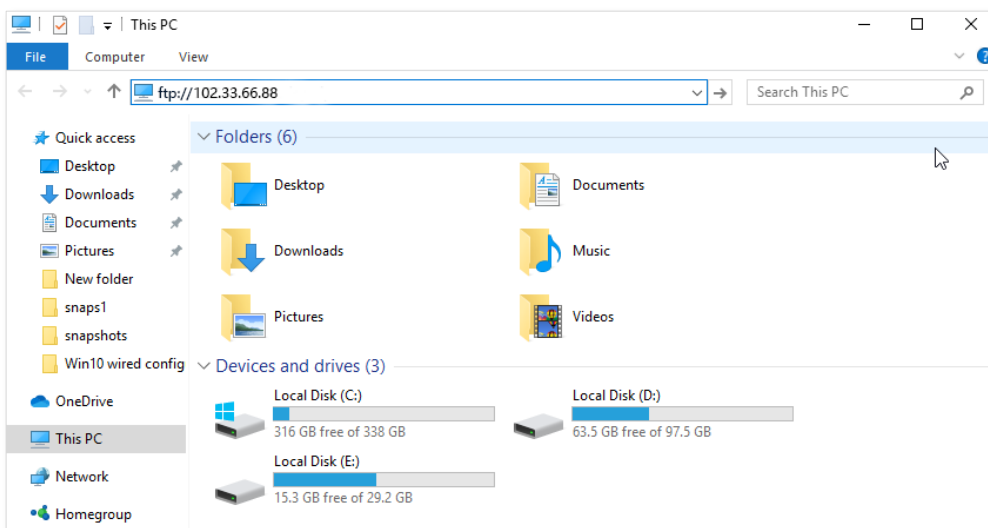


Device Name	MAC Address	IP Address	Status	Operation
FTP server	:61:DA:1B:CD:89	192.168.0.136	---	+New
DESKTOP-5LII2L5		192.168.0.136 v		

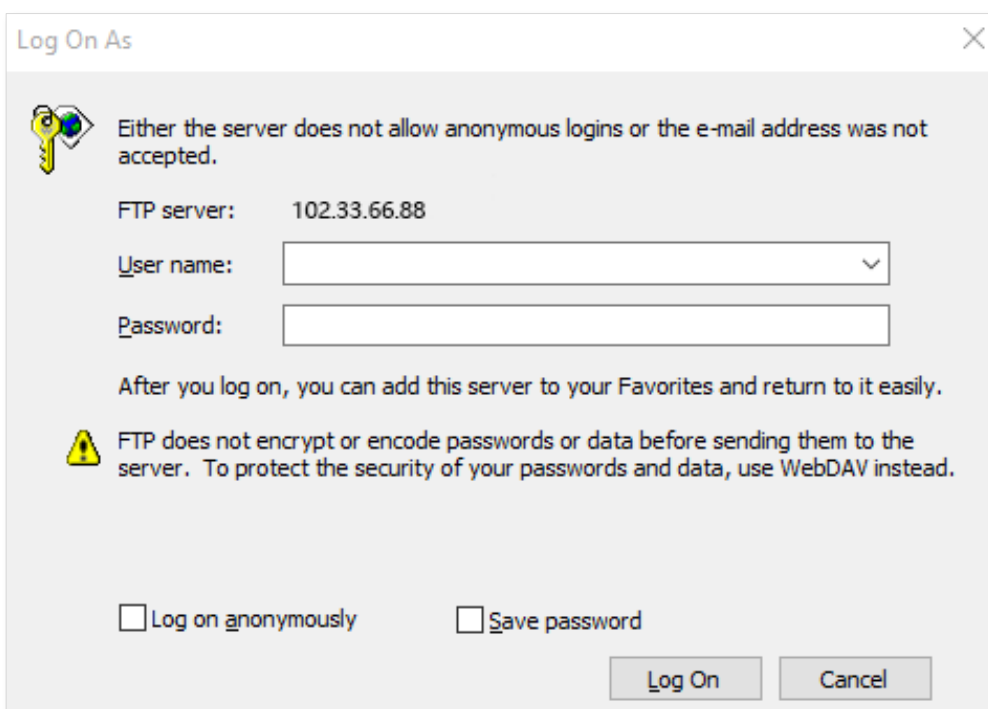
-----End

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 [View system information](#).



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](#) + [DDNS](#).



TIP

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.

11.15 UPnP

UPnP is short for Universal Plug and Play. 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 of the router, and choose **Advanced Settings > UPnP**.

This function is enabled by default.

UPnP

UPnP:

Remote Host	Internet Port	Local Host	Internal Port	Protocol
-------------	---------------	------------	---------------	----------

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.

UPnP

UPnP:

Remote Host	Internet Port	Local Host	Internal Port	Protocol
anywhere	15328	192.168.0.136	15328	UDP
anywhere	15328	192.168.0.136	15328	TCP

11.16 TR069

The TR069 (Technical Report - 069) protocol allows an Auto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and diagnostics to the modem router from the internet. Generally, it is used by the ISP to manage the router and is disabled by default. Contact your ISP for these parameters.

To access the configuration page, log in to the web UI of the router and choose **Advanced Settings > TR069**.

TR069 Settings

Enable TR069: ☒

ACS

URL:

ACS User Name:

ACS Password:

Enable Scheduled Notification: ☒

Scheduled Notification Interval: Unit: Second

Connection Request

Connection Request User Name:

Connection Request Password:

Port:

STUN Connection

Enable STUN: ☒

STUN Server Address:

STUN Server Port:

Save

Parameter description

Parameter	Description
Enable TR069	It is used to enable or disable the TR069 function.
URL	It specifies the domain name of the ACS.
ACS User Name	It specifies the user name used to authenticate the router when the router connects to the ACS using the TR069 protocol.
ACS Password	It specifies the password used to authenticate the router when the router connects to the ACS using the TR069 protocol.
Enable Scheduled Notification	It is used to enable or disable the scheduled notification function, which enables the router to send messages to the ACS at interval.
Scheduled Notification Interval	It specifies the interval at which the router sent messages to the ACS.
Connection Request User Name	It specifies the user name used to authenticate the ACS when it sends the connection request to the router.
Connection Request Password	It specifies the password used to authenticate the ACS when it sends the connection request to the router.
Port	It specifies the port used to receive the connection request sent by the ACS.
Enable STUN	It is used to enable or disable the STUN function, which facilitates the communication between the router and the public network when the router is under a LAN.
STUN Server Address	It specifies the IP address of the STUN server.
STUN Server Port	It specifies the port of the STUN server.

12 System settings

12.1 LAN settings

To access the configuration page, log in to the web UI of the router, and choose **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 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: 192.168.0.1

Subnet Mask: 255.255.255.0

DHCP Server: ☒

IP Address Range: 192.168.0. 100 ~ 200

Lease Time: 1 day

DNS Settings: ☐

Save

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.

Parameter		Description
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 again 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.
	Primary DNS Server	It specifies the primary DNS address of the router, which is assigned to the clients. You can change it if necessary.  TIP 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.
DNS Settings	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.

12.2 DHCP reservation

12.2.1 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 of the router, and choose **System Settings > DHCP Reservation**.

DHCP Reservation

Device Name

MAC Address

IP Address

Status

Operation

Optional

—

+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:  : 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.

12.2.2 Assign static IP addresses to LAN clients

Scenario: You have set up a 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: 192.168.0.136
- MAC address of the FTP server host: D4:61:DA:1B:CD:89

Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **System Settings > DHCP Reservation**.
- Step 3** (Optional) Enter the device name for the host.
- 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 **192.168.0.136** in this example.
- Step 6** Click **+New**.

DHCP Reservation

Device Name	MAC Address	IP Address	Status	Operation
FTP server	:61:DA:1B:CD:89	192.168.0.136	---	+New

---End

When completing the configurations, the page is shown as below and the FTP server host always gets the same IP address when connecting to the router, which is 192.168.0.136 in this example.

DHCP Reservation

Device Name	MAC Address	IP Address	Status	Operation
Optional			---	+New
DESKTOP-5LII2L5		192.168.0.135		
FTP server	D4:61:DA:1B:CD:89	192.168.0.136		

12.3 WAN settings (wireless router mode)



This function is only available under the wireless router mode. Refer to [Operating mode](#) to set the operating mode of the router.

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

12.3.1 Change MTU value

MTU (Maximum Transmission Unit) 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 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 of the router, and choose **System Settings > WAN Settings**.

The screenshot shows the 'WAN Settings' window. The 'MTU' field is highlighted with a red dashed box and contains the value '1480'. Below it, the 'Speed' is set to '1000 Mbps auto-negotiation'. The 'MAC Address' is set to 'Default'. The 'Service Name' and 'Server Name' are both set to 'Default', with a note 'Keep the default unless necessary' next to each. 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 a 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.

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

12.3.2 Change the WAN speed and duplex mode

To access the configuration page, log in to the web UI of the router, and choose **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.

WAN Settings

MTU: 1480

Speed: 1000 Mbps auto-negotiation
10 Mbps FDX
10 Mbps HDX
100 Mbps FDX
100 Mbps HDX

MAC Address: Default

Service Name: Default Keep the default unless necessary

Server Name: Default Keep the default unless necessary

Save

Parameter description

MTU	Application
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

MTU	Application
	Mbps, but the port can only receive or send data packets alternately.

12.3.3 Change the MAC address of the WAN port

If you still cannot access the internet after completing [Access the internet through the WAN port](#), 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 of the router, and choose **System Settings > WAN Settings**.

- **Default:** Keep the factory setting of 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 an MAC address.



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

Configuration procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **System Settings > WAN Settings**.
- Step 3** Click the drop-down box of **MAC Address**, choose **Clone local MAC address**, or **Set MAC address** and enter the desired MAC address.
- Step 4** Click **Save**.

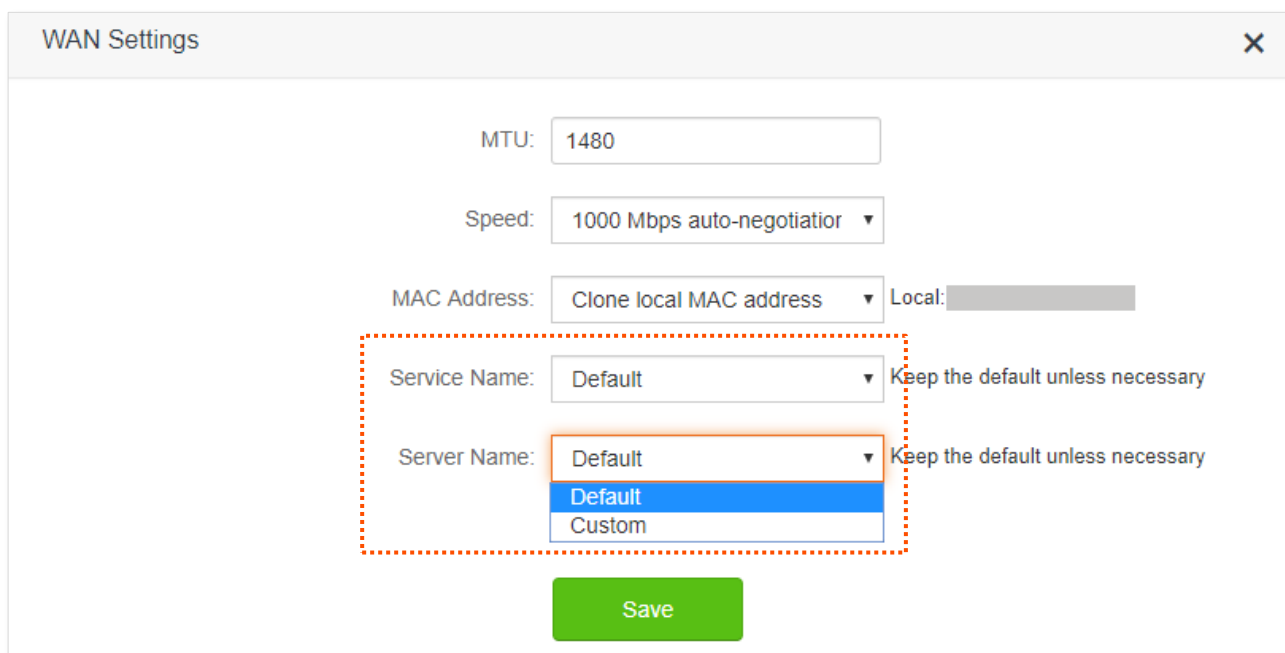
---End

12.3.4 Change the service name and server name

To access the configuration page, log in to the web UI of the router, and choose **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.



The image shows a 'WAN Settings' configuration window. It contains the following fields and options:

- MTU:** 1480
- Speed:** 1000 Mbps auto-negotiation
- MAC Address:** Clone local MAC address (Local: [greyed out])
- Service Name:** Default (Keep the default unless necessary)
- Server Name:** Default (Keep the default unless necessary). The dropdown menu is open, showing 'Default' (highlighted in blue) and 'Custom'.

A red dashed box highlights the 'Service Name' and 'Server Name' fields. A green 'Save' button is located at the bottom center.

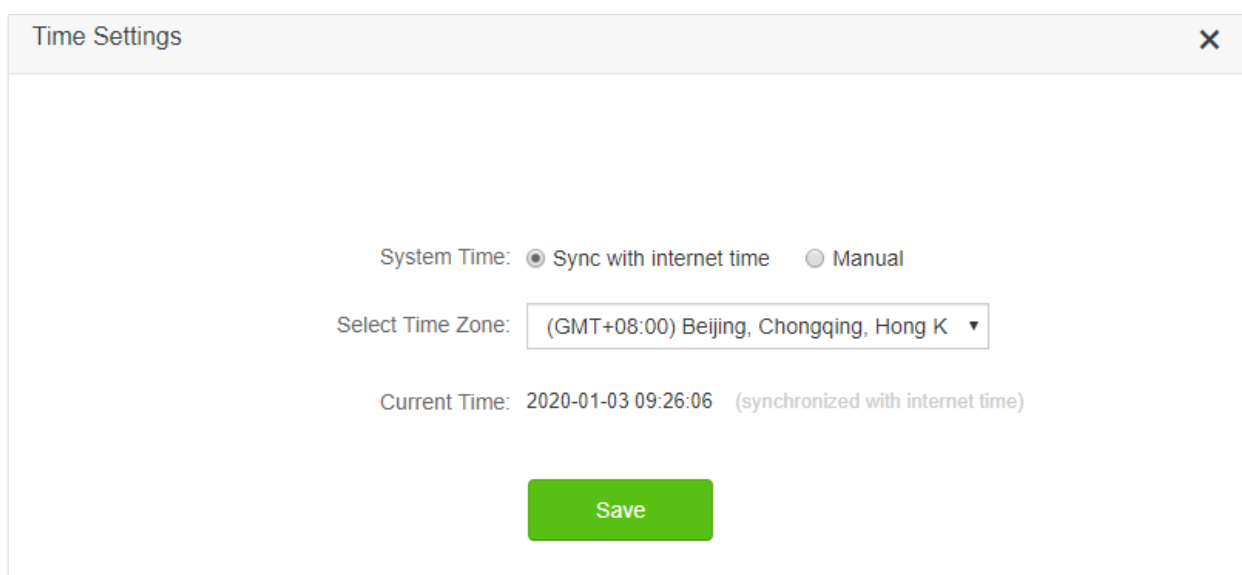
12.4 Time settings

To access the configuration page, log in to the web UI of the router, and choose **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.

12.4.1 Sync system time with the internet time

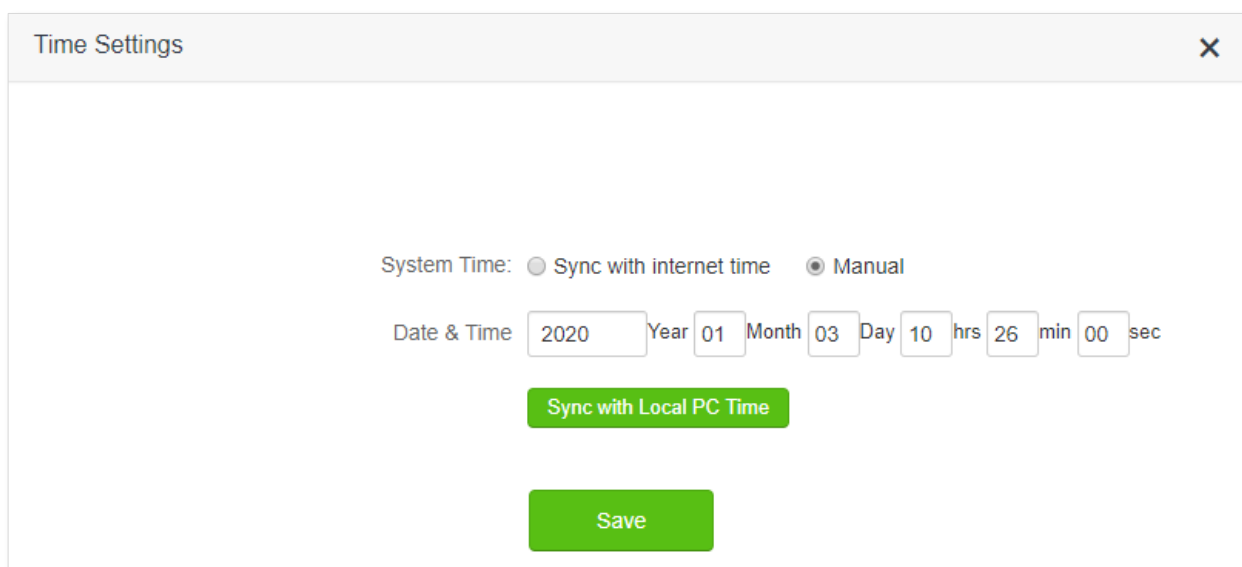
Under this mode, the router will automatically sync its time with the internet time when it is connected to the internet. You can also choose the time zone to be synchronized.



The screenshot shows the 'Time Settings' window with a close button (X) in the top right corner. The 'System Time' section has two radio buttons: 'Sync with internet time' (selected) and 'Manual'. Below this is a 'Select Time Zone' dropdown menu showing '(GMT+08:00) Beijing, Chongqing, Hong K'. The 'Current Time' is displayed as '2020-01-03 09:26:06 (synchronized with internet time)'. At the bottom is a green 'Save' button.

12.4.2 Set the time manually

When the system time is set to **Manual**, you can enter a 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.



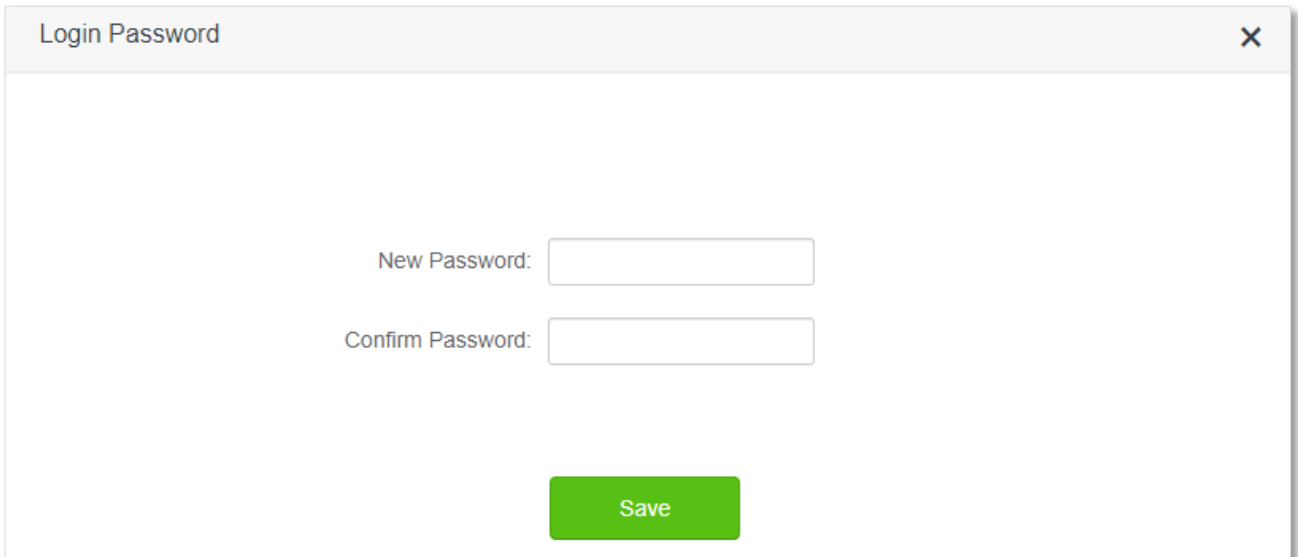
The screenshot shows the 'Time Settings' window with a close button (X) in the top right corner. The 'System Time' section has two radio buttons: 'Sync with internet time' and 'Manual' (selected). Below this is a 'Date & Time' section with input fields for Year (2020), Month (01), Day (03), Hour (10), Minute (26), and Second (00). There are two green buttons: 'Sync with Local PC Time' and 'Save'.

12.5 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.

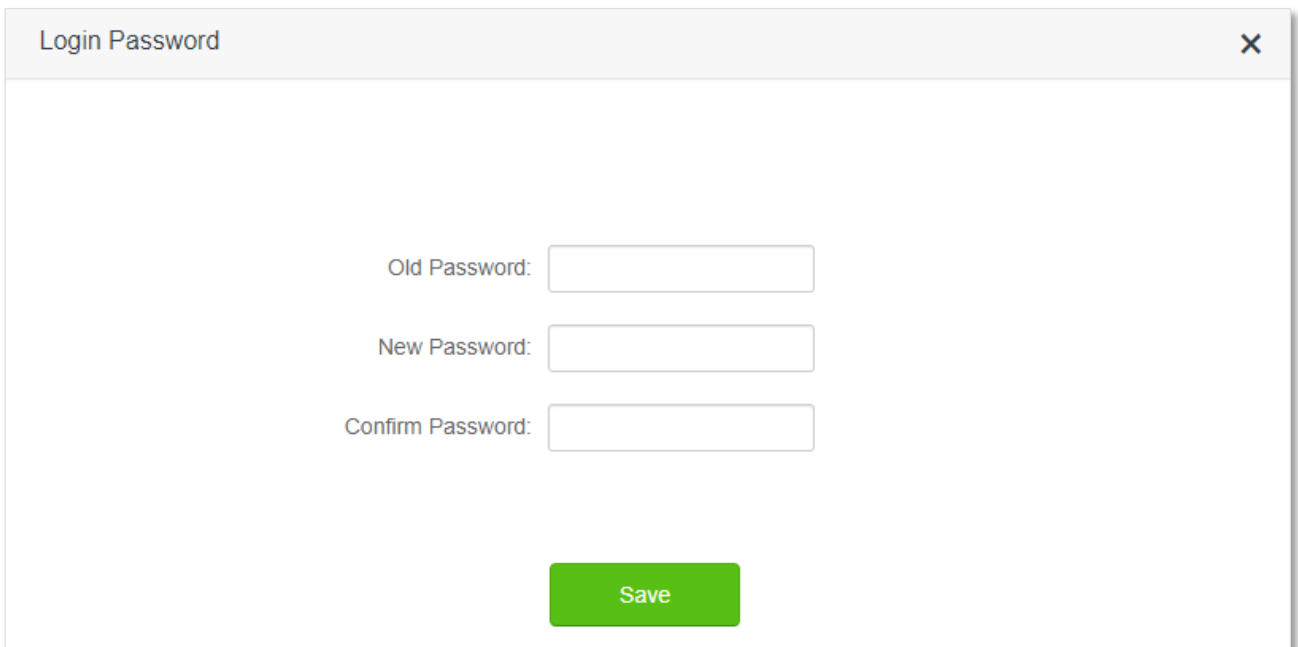
To access the login password configuration page, log in to the web UI and choose **System Settings > Login Password**.

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 interface titled "Login Password" with a close button (X) in the top right corner. The main area contains two 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 interface titled "Login Password" with a close button (X) in the top right corner. The main area contains three 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 password.

12.6 Reboot and reset

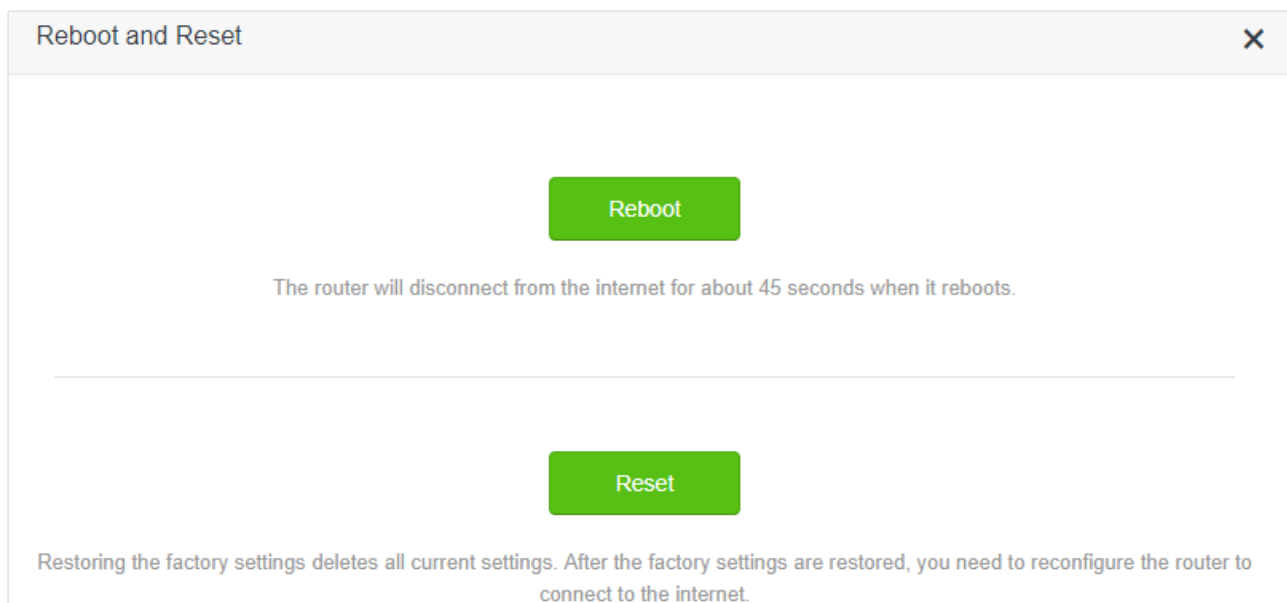
12.6.1 Reboot the router

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 of the router and choose **System Settings > Reboot and Reset**. Click **Reboot** to reboot the router.



Wait for a moment until the ongoing process finishes.

12.6.2 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.



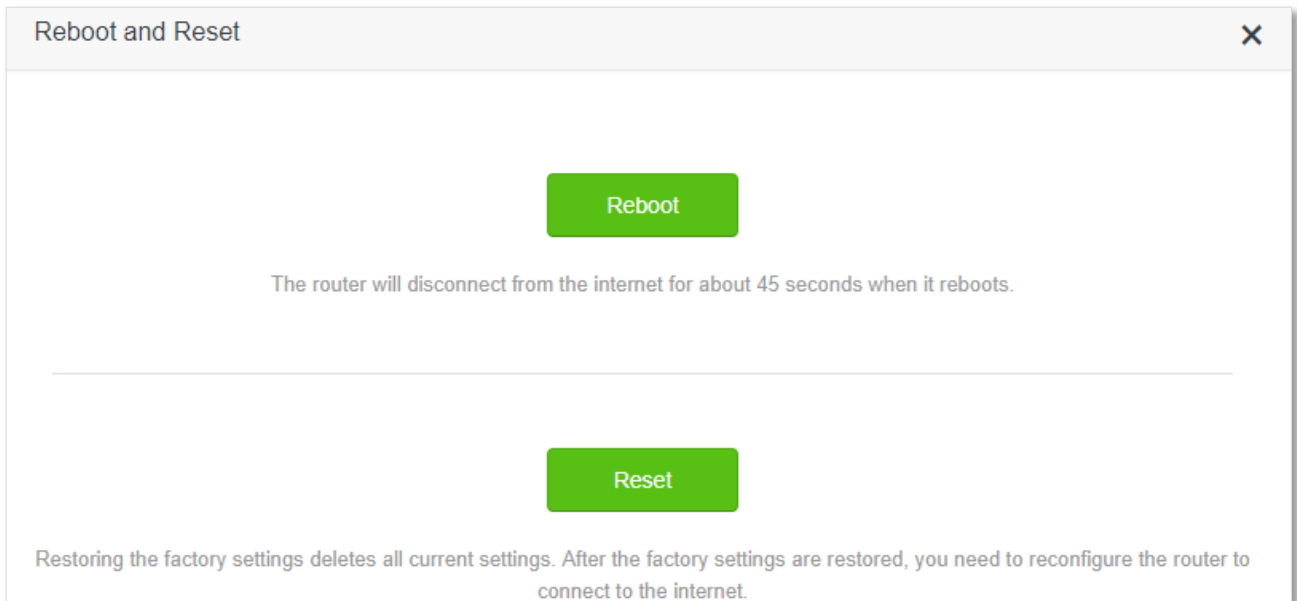
- Resetting the router is not recommended unless you cannot find a solution for the current problem anyway. You need to reconfigure the router after it is reset.
- Ensure that the power supply of the router is normal when the router is reset. Otherwise the router could be damaged.
- The default login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

Reset the router using the reset button

Hold down the **RST/WPS** button on the rear panel of the router for about 8 seconds and release when all LED indicators blink once. The router is reset and restored to factory settings.

Reset the router on the web UI

Start a web browser and log in to the web UI of the router. Choose **System Settings > Reboot and Reset**, and click **Reset**.



Wait for a moment until the ongoing process finishes.

12.7 Upgrade firmware

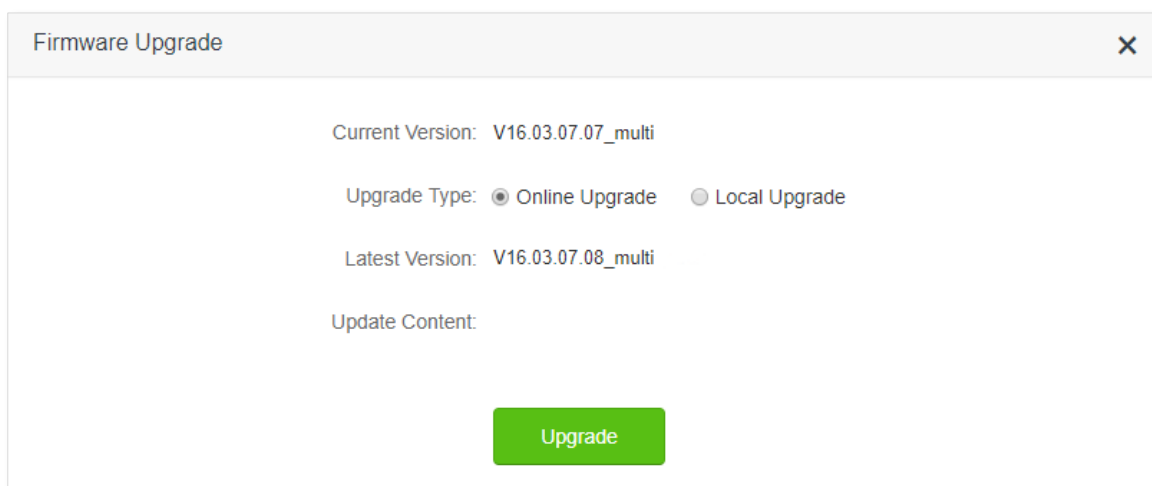
This function enables the router to obtain the latest functions and more stable performance. The router supports online firmware upgrade and local firmware upgrade.

12.7.1 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.

Configuration procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **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. Choose **System Settings > System Status** and check whether the upgrade is successful based on the **Firmware Version**.



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.

12.7.2 Local upgrade



In order to prevent the router from being damaged:

- Ensure that the firmware is applicable 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.

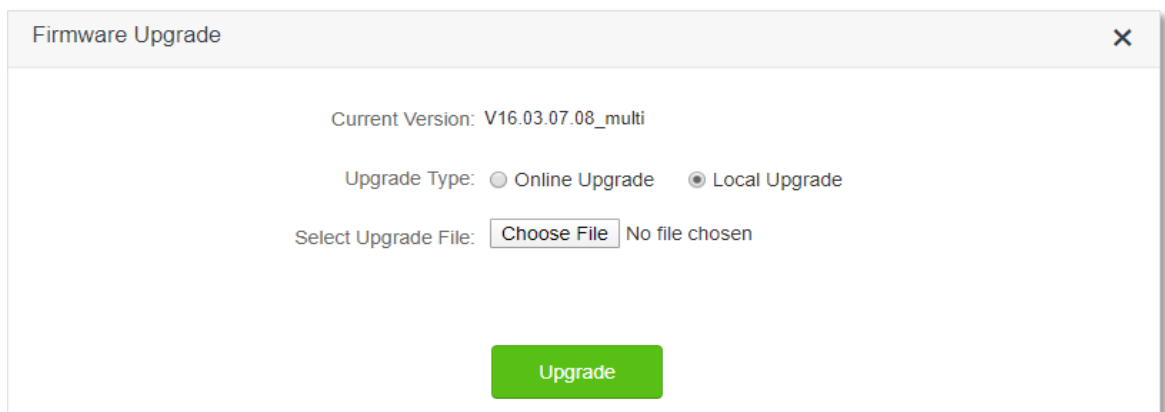
Step 1 Go to www.tendacn.com. Download an applicable firmware of the router to your local computer and unzip it.

Step 2 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

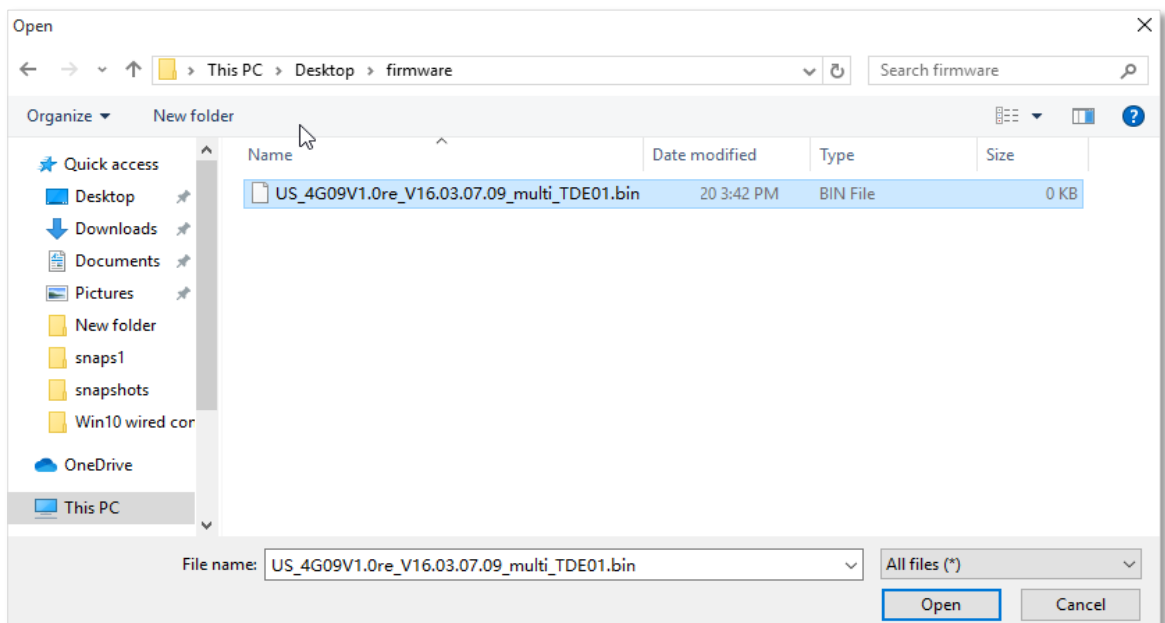
Step 3 Choose **System Settings > Firmware Upgrade**

Step 4 Choose **Local Upgrade**.

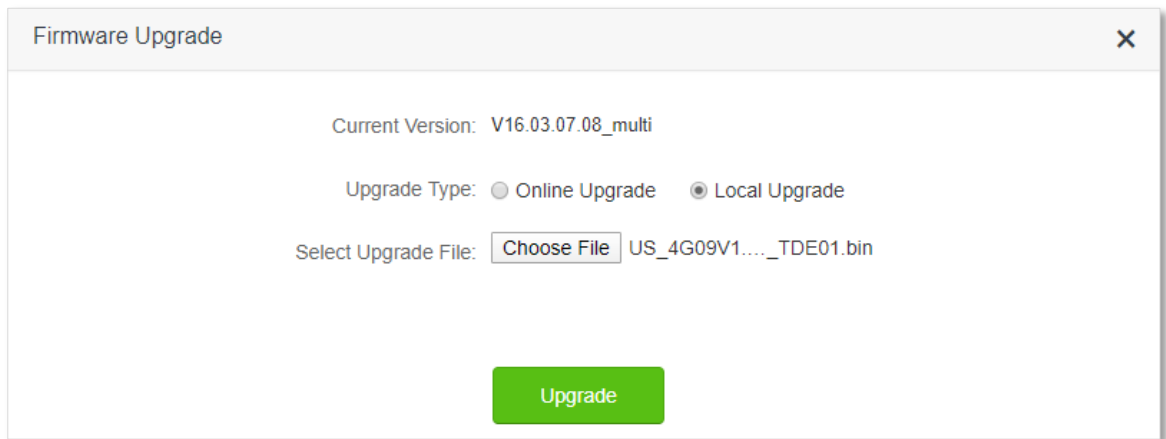
Step 5 Click **Choose File**.



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



Step 7 Click **Upgrade**.

A screenshot of a 'Firmware Upgrade' dialog box. The title bar says 'Firmware Upgrade' with a close button (X) on the right. The main content area shows 'Current Version: V16.03.07.08_multi'. Below that, 'Upgrade Type:' has two radio buttons: 'Online Upgrade' (unselected) and 'Local Upgrade' (selected). Underneath, 'Select Upgrade File:' is followed by a 'Choose File' button and the text 'US_4G09V1...._TDE01.bin'. At the bottom center is a large green 'Upgrade' button.

Firmware Upgrade

Current Version: V16.03.07.08_multi

Upgrade Type: ☐ Online Upgrade ☒ Local Upgrade

Select Upgrade File: US_4G09V1...._TDE01.bin

Upgrade

---End

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



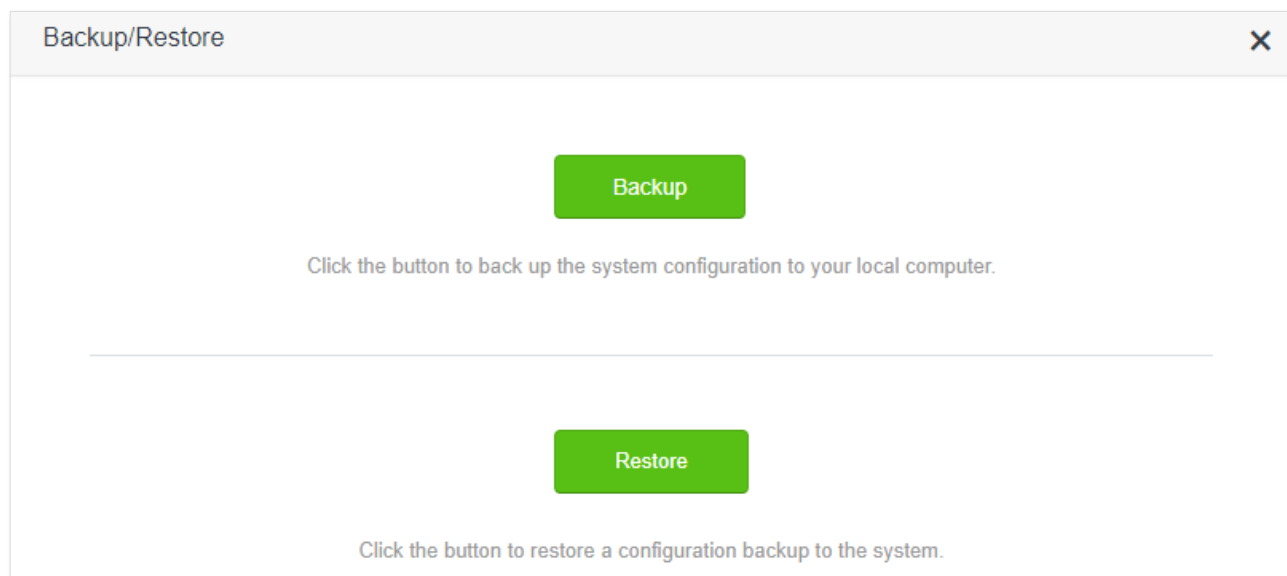
For better performance of the new firmware, you are recommended to reset the router to factory default settings and re-configure the router when the upgrading is completed.

12.8 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.

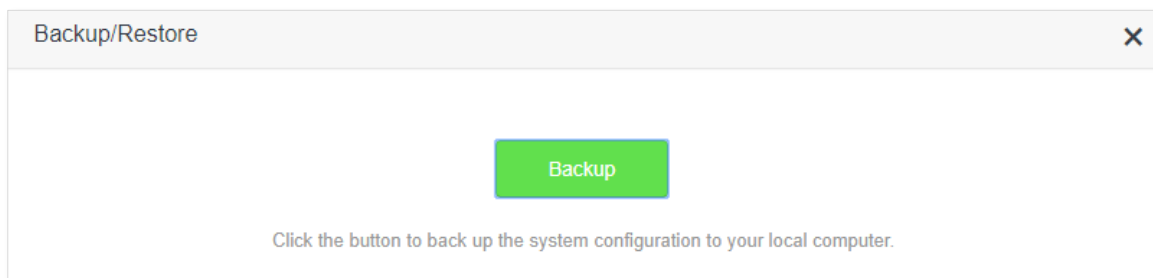
To access the configuration page, log in to the web UI of the router, and choose **System Settings > Backup/Restore**.



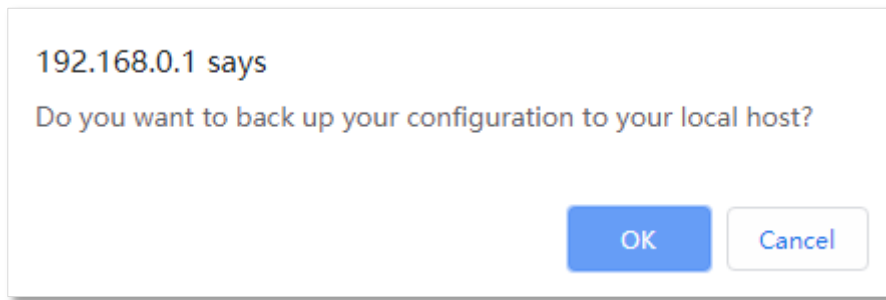
12.8.1 Backup the configurations of the router

To back up the configurations of the router:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **System Settings > Backup/Restore**.
- Step 3** Click **Backup**.



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



---End

After the file is downloaded, you can name it **RouterCfm.cfg**.

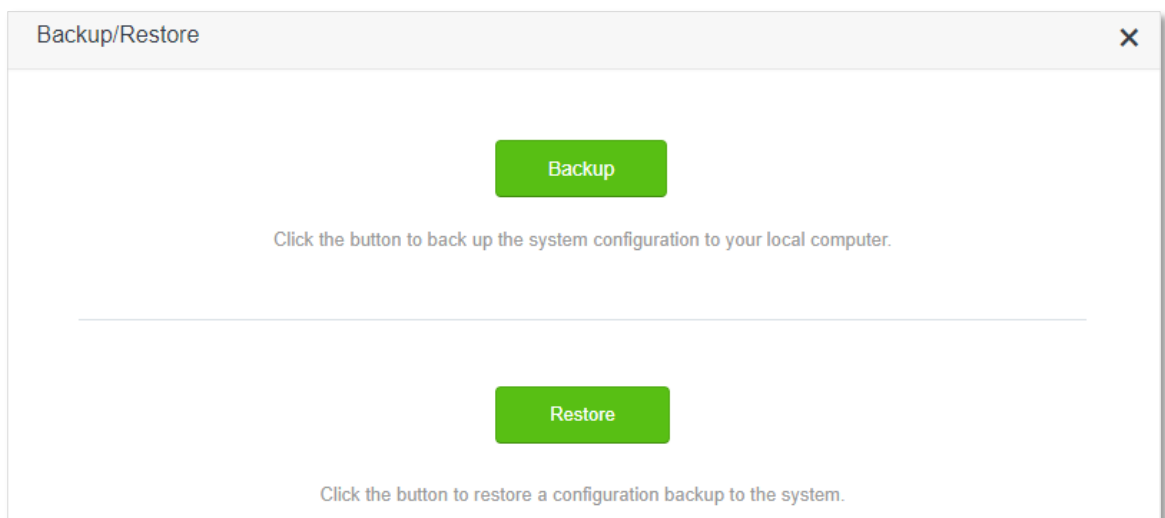
12.8.2 Restore previous configurations of the router

To restore the previous configurations of the router:

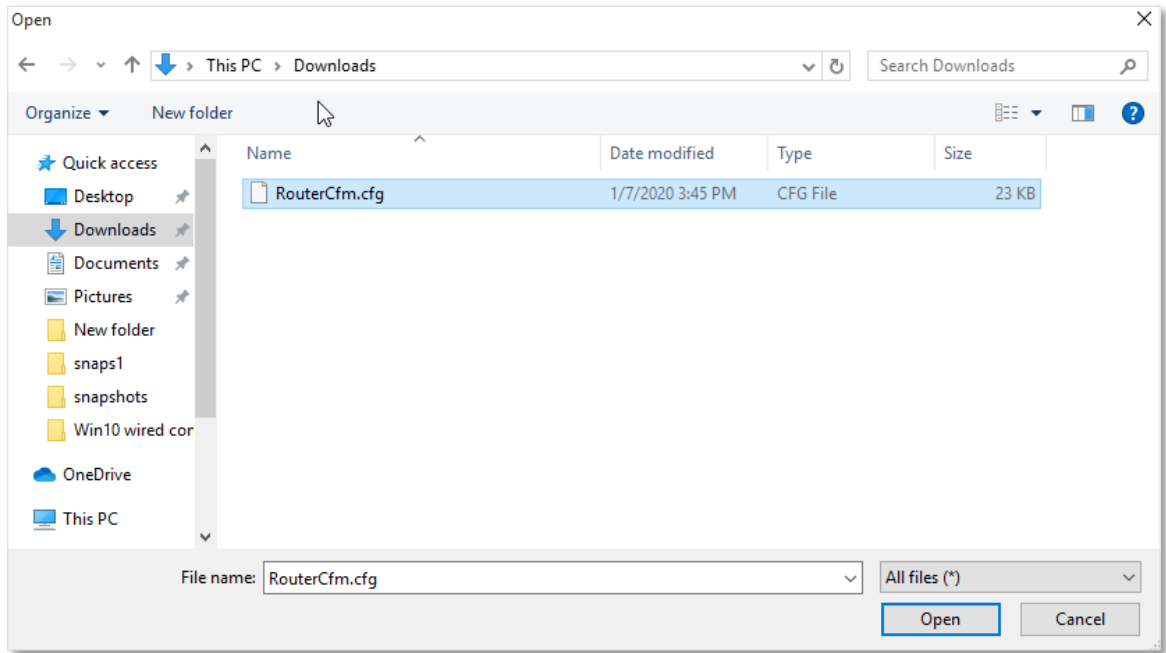
Step 1 Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.

Step 2 Choose **System Settings > Backup/Restore**.

Step 3 Click **Restore**.



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



---End

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

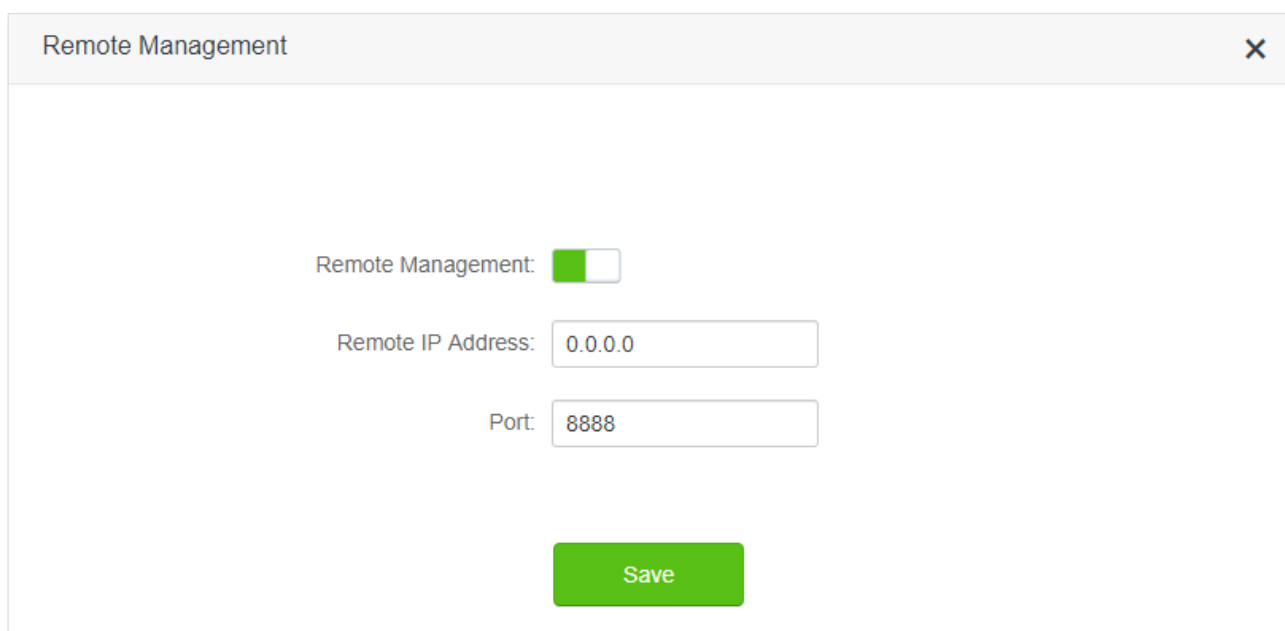
12.9 Remote management

12.9.1 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 of the router, and choose **System Settings > Remote Management**.

By default, this function is disabled. When this function is enabled, the page is shown as below.



Remote Management

Remote Management: ☐

Remote IP Address:

Port:

Save

Parameter description

Parameter	Description
Remote Management	It is used to enable or disable the remote management function of the router.
Remote IP Address	It specifies the IP address of the host which can access the web UI of the router remotely. 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).
Port	It specifies the port number of the router which is opened for remote management. Change it as required.  TIP - 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".

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

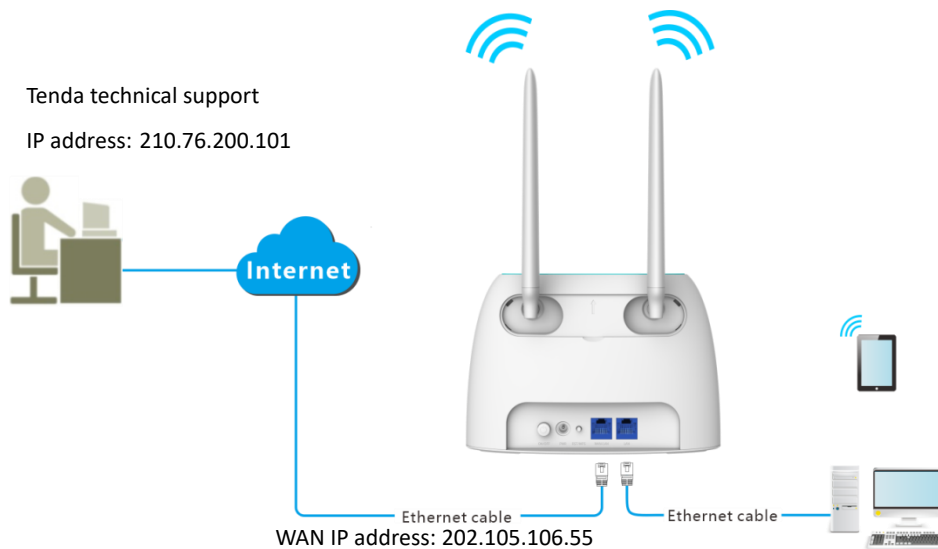
Scenario: You encounter a problem in configuring the router, and the router can access internet access.

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:

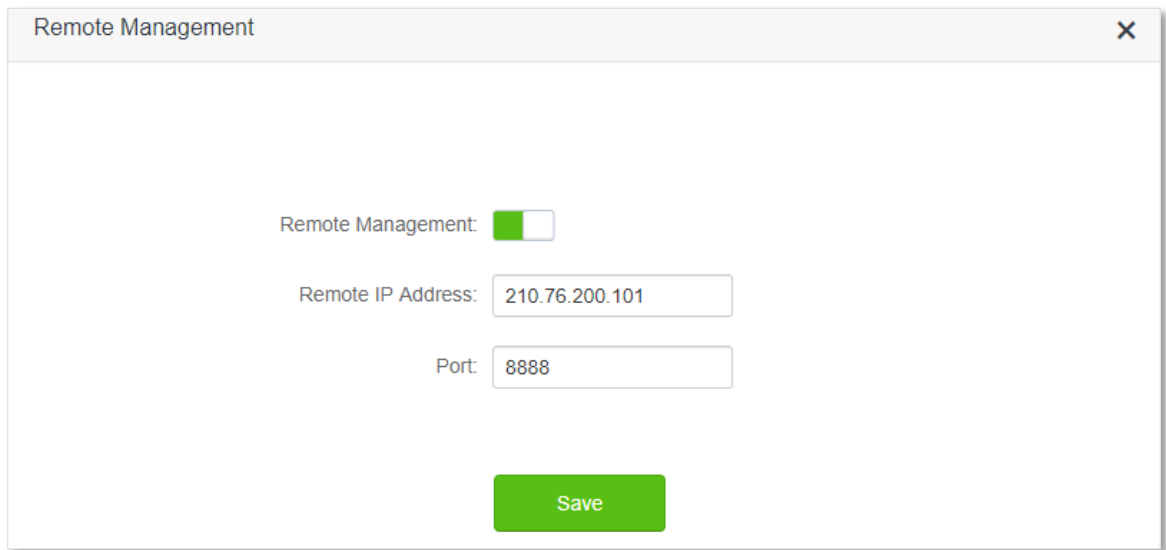
- The IP address of Tenda technical support: 210.76.200.101
- The WAN port IP address of the router: 202.105.106.55



Configuring procedure:

- Step 1** Start a web browser on a device connected to the router and visit **tendawifi.com** to log in to the web UI of the router.
- Step 2** Choose **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 screenshot shows a web-based configuration window titled "Remote Management" with a close button (X) in the top right corner. Inside the window, there are three configuration fields: a toggle switch for "Remote Management" which is currently turned on (green), a text input field for "Remote IP Address" containing the value "210.76.200.101", and another text input field for "Port" containing the value "8888". At the bottom center of the window is a green button labeled "Save".

---End

When completing the configurations, the Tenda technical support can access and manage the web UI of the router by visiting "http://202.105.106.55:8888" on the computer.

12.10 System status

On this page, you can find the basic information of the router, WAN status, LAN status, Wi-Fi status and IPv6 status.

To access the page, log in to the web UI of the router, and choose **System Settings > System Status**.

12.10.1 Basic information

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

Information

System Time: 2020-02-25 16:31:20

Uptime: 1 hour(s) 28 min 21 s

Firmware Version: V16.03.07.08_multi

Hardware Version: V1.0

Parameter description

Parameter	Description
System Time	It specifies the system time of the router.
Uptime	It specifies operating time of the router since it is powered on.
Firmware Version	It specifies the firmware version of the router.
Hardware Version	It specifies the hardware version of the router.

12.10.2 Connection status

3G/4G

Under the 3G/4G router mode, you can view the information of the SIM card and 3G/4G network in this part.

3G/4G

SIM Card Status: Ready

Connection Status: Connected

Signal Strength: Excellent

ISP:

Mobile Network: 4G

Statistics: 0.438MB

Upload Speed: 0.0KB/s

Download Speed: 0.0KB/s

IP Address: 10.136.116.154

Subnet Mask: 255.255.255.252

Default Gateway: 10.136.116.153

Primary DNS: 120.80.80.80

Secondary DNS: 221.5.88.88

MAC Address:

Parameter description

Parameter	Description
SIM Card Status	It specifies the SIM card status inserted in the router.
Connection Status	It specifies internet connection status of 3G/4G mobile network.
Signal Strength	It specifies the signal strength of 3G/4G mobile network, including Excellent, Good and Fair.
ISP	It specifies the ISP (Internet Service Provider) name of the SIM card.
Mobile Network	It specifies the current network type for internet access.

Statistics	It specifies the data traffic of the SIM card that has been used.
Upload Speed	It specifies the upload speed of the mobile network of the router.
Download Speed	It specifies the download speed of the mobile network of the router.
IP address	It specifies the IP address of the router obtained from the ISP.
Subnet Mask	It specifies the subnet mask of mobile network.
Default Gateway	It specifies the gateway IP address of the router.
Primary DNS	It specifies the IP address of primary and secondary DNS servers of the router.
Secondary DNS	
MAC Address	It specifies the 3G/4G MAC address of the router.

Wireless router mode

Under the wireless router mode, you can view the information of the WAN port, including connection type, connection status and connection duration, etc.

WAN Status

Connection Type: Dynamic IP Address

Connection Status: Connected

Connection Duration: 2 hour(s) 29 min 38 s

IP Address: 172.16.20.80

Subnet Mask: 255.255.255.0

Default Gateway: 172.16.20.20

Primary DNS: 8.8.8.8

Secondary DNS: 3.3.3.3

MAC Address:

Parameter description

Parameter	Description
Connection Type	It specifies the IPv4 connection type of the WAN port.
Connection Status	It specifies 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	It specifies the IP address of primary and secondary DNS servers of the router.
Secondary DNS	
MAC Address	It specifies the WAN MAC address of the router.

12.10.3 LAN status

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

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.

12.10.4 Wi-Fi status

In this part, you can view the information of 2.4 GHz and 5 GHz Wi-Fi network, including the connection status, visibility, hotspot name and encryption mode, etc.

Wi-Fi Status

2.4 GHz Wi-Fi Network: Visible

2.4 GHz Wi-Fi Name: Tenda_F5E8B0

Encryption Mode: None

Channel: 9

Bandwidth: 20

MAC Address:

5 GHz Wi-Fi Network: Visible

5 GHz Wi-Fi Name: Tenda_F5E8B0

Encryption Mode: None

Channel: 161

Bandwidth: 80

MAC Address:

Parameter description

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

12.10.5 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:	DHCPv6
IPv6 WAN Address:	2408:805f:e206:23a3:78ed:cbff:fe25:1627/64 fe80::78ed:cbff:fe25:1627/64 fe80::522b:73ff:fe5:e8b9/64
Default IPv6 Gateway:	fe80::50b3:fff7:3ee5:8840
Primary IPv6 DNS:	2408:805d:8::
Secondary IPv6 DNS:	2408:805c:4008::
IPv6 LAN Address:	fec0::522b:73ff:fe5:e8b0/64 fe80::522b:73ff:fe5:e8b0/64

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.
Default IPv6 Gateway	It specifies the primary DNS server address of IPv6 network.
Primary IPv6 DNS	It specifies the primary and secondary DNS server address of IPv6 network.
Secondary IPv6 DNS	
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.

12.11 System log

To access the configuration page, log in to the web UI of the router, and choose **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

X

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	2020-01-03 15:20:11	system	WiFi Configuration Start
2	2020-01-03 15:20:01	system	2.4G MAIN WIFI UP
3	2020-01-03 15:19:59	system	WiFi Basic Set
4	2020-01-03 15:19:57	system	WiFi Configuration Start
5	2020-01-03 15:19:51	system	WiFi Basic Set
6	2020-01-03 15:19:17	system	WiFi Configuration Start
7	2020-01-03 15:19:16	system	2.4G MAIN WIFI DOWN
8	2020-01-03 15:19:15	system	WiFi Basic Set
9	2020-01-03 15:19:03	system	LAN1 up
10	2020-01-03 15:16:06	system	LAN1 down

Export

<<< < > >>>



Rebooting the router will clear all previous system logs.

12.12 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 of the router, and choose **System Settings > Automatic Maintenance**.

This function is enabled by default.

Automatic Maintenance

System Reboot Schedule:

Reboot At:

02

:

00

Delay:

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

Save

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 reboot automatically every day.
Delay	It is used to enable or disable the delay function. • 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 enters the sleeping mode during the sleeping time. TIP 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 reboot when the traffic requirement for rebooting is met.

Appendix

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

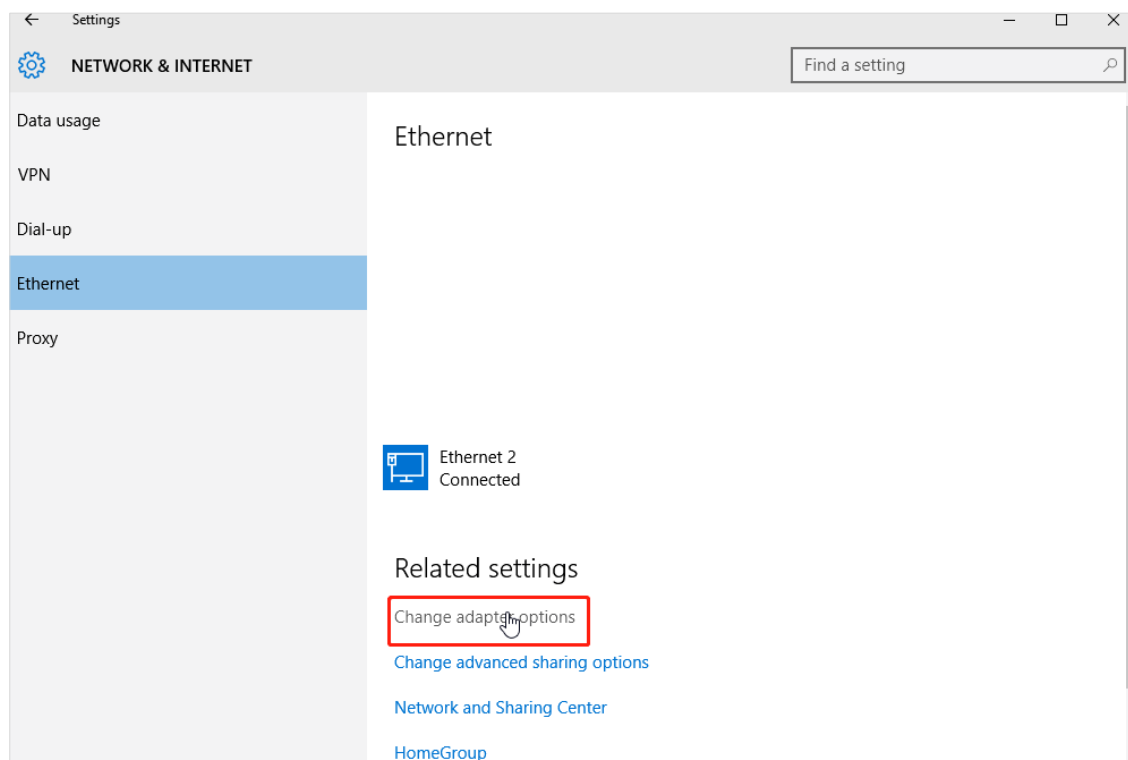
Perform the configuration procedures corresponding to [Windows 10](#), [Windows 8](#) and [Windows 7](#) and as required. A computer installed with a wired network adapter is used as an example to describe the procedures. The procedures for configuring computers installed with a Wi-Fi network adapter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

A.1.1 Windows 10

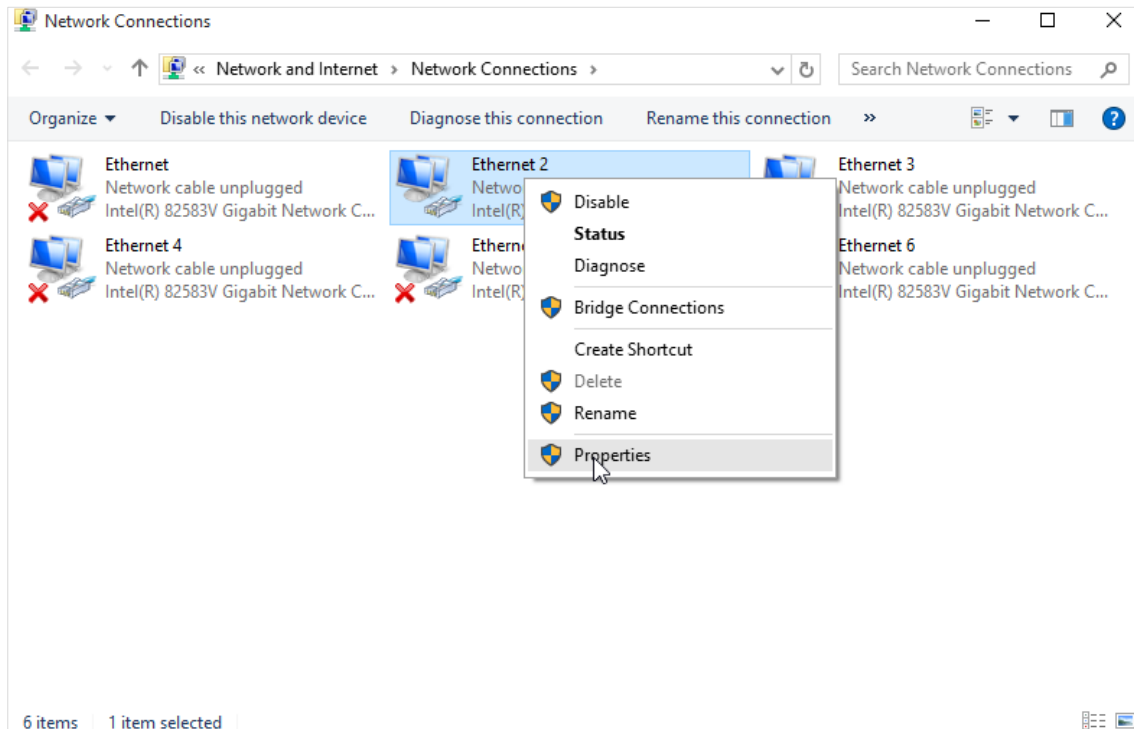
Step 1 Click  in the bottom right corner of the desktop and choose **Network settings**.



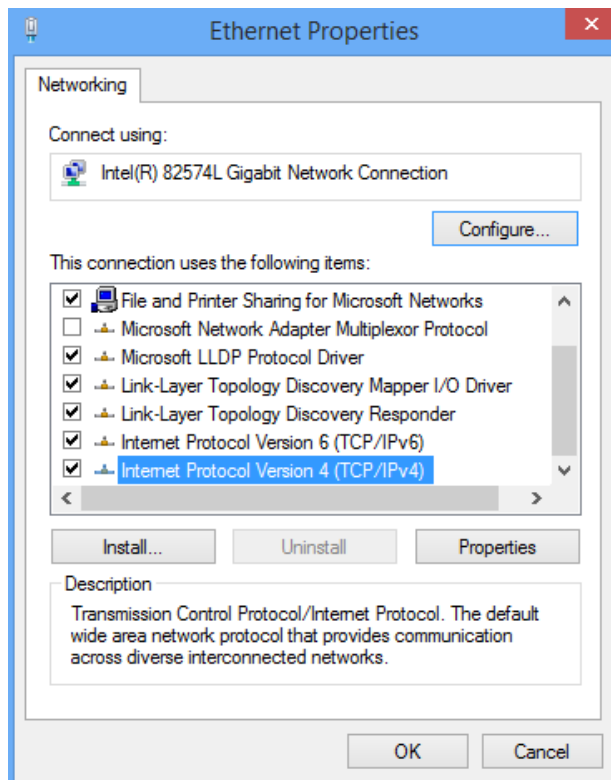
Step 2 Click **Change adapter options**.



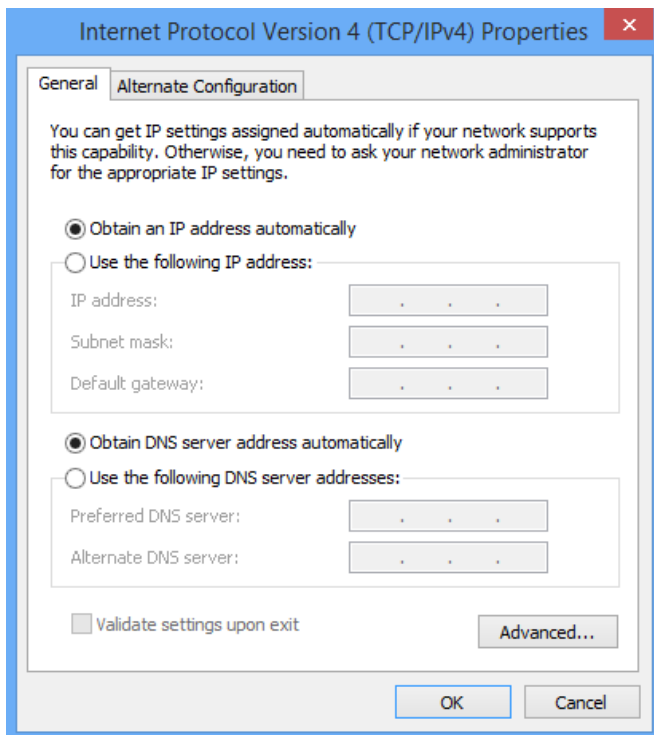
Step 3 Right click on the connection which is being connected, and then click **Properties**.



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**.

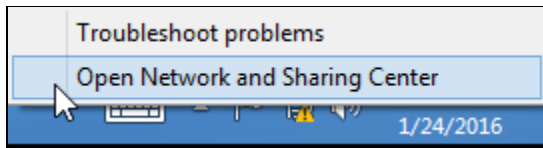


Step 6 Click **Close** in the **Ethernet Properties** window.

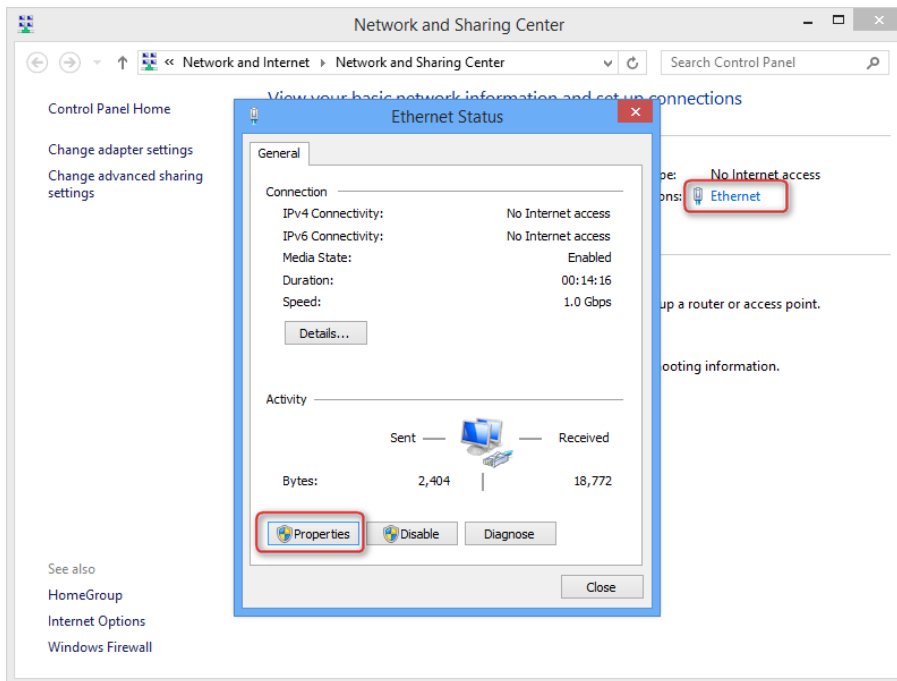
---End

A.1.2 Windows 8

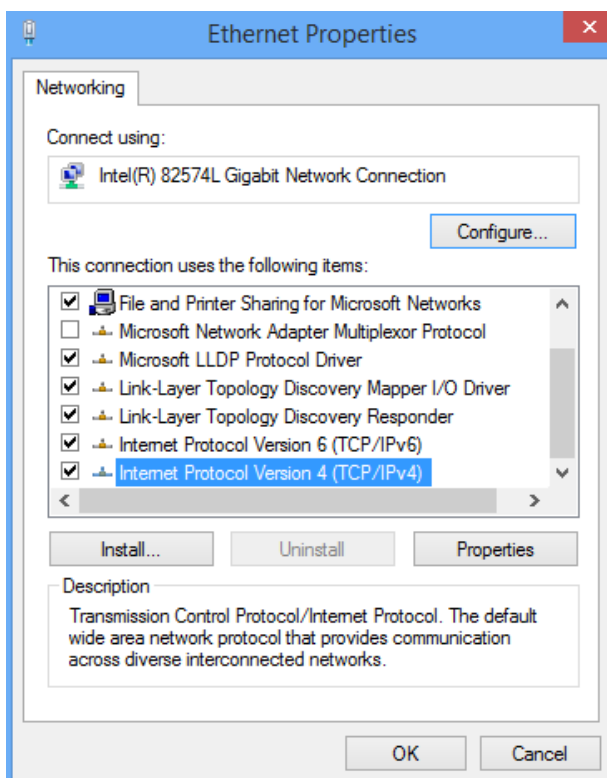
Step 1 Right-click  in the bottom right corner of the desktop and choose **Open Network and Sharing Center**.



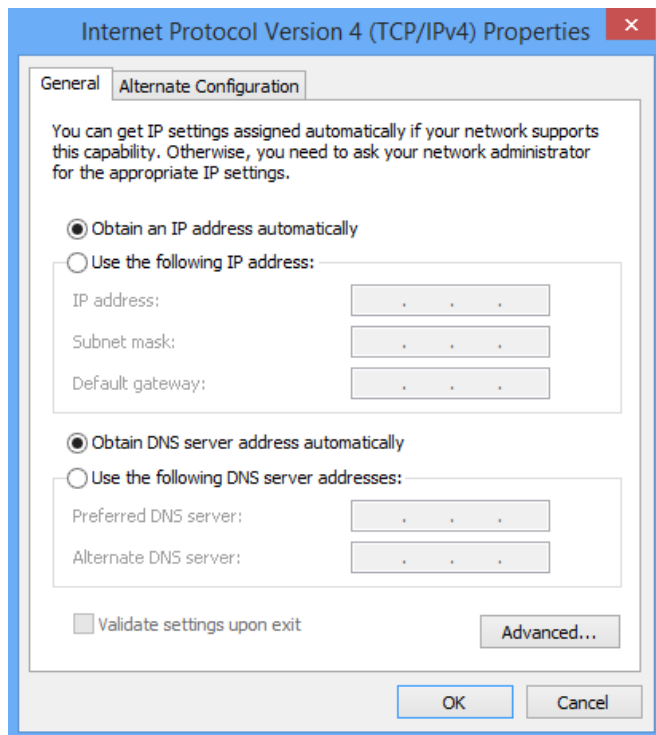
Step 2 Click **Ethernet** and then **Properties**.



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**.

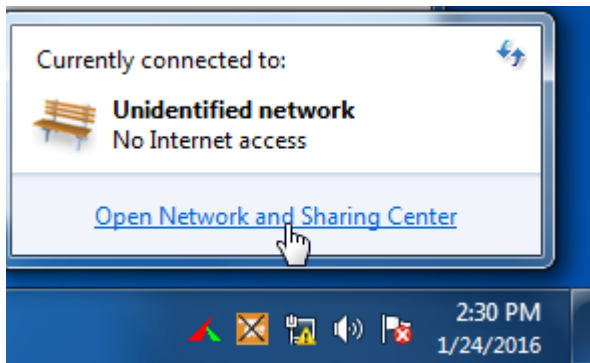


Step 5 Click **OK** in the **Ethernet Properties** window.

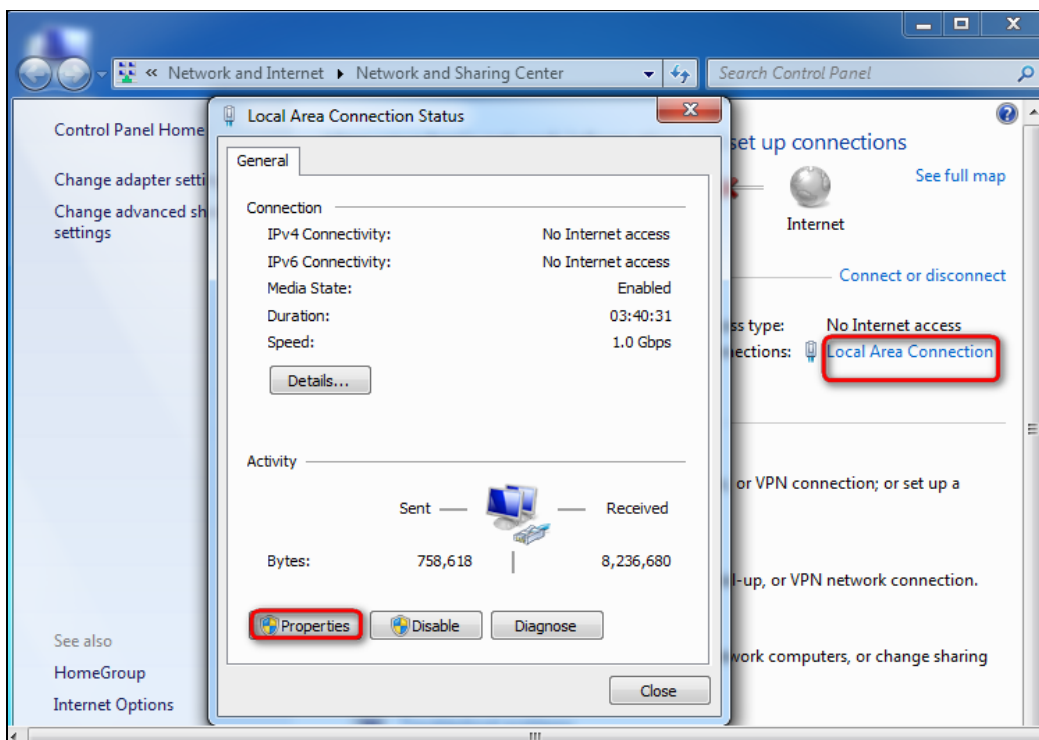
---End

A.1.3 Windows 7

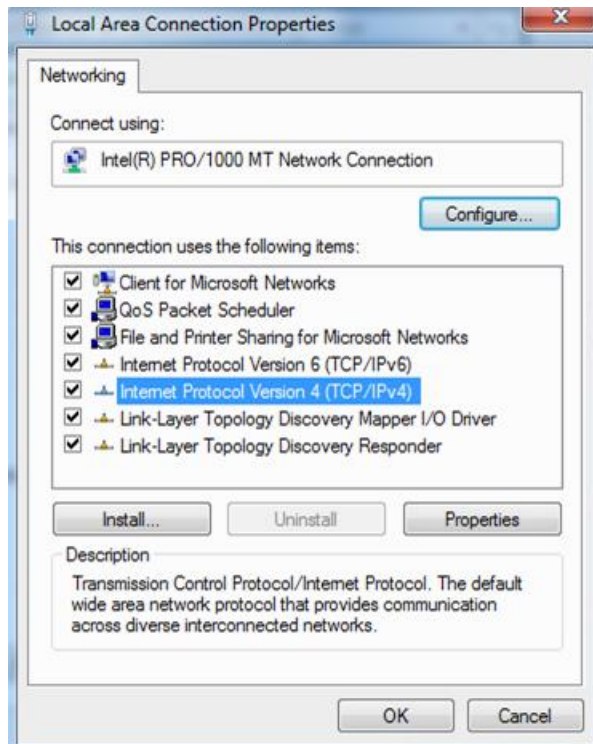
Step 1 Click  in the bottom right corner of the desktop and choose **Open Network and Sharing Center**.



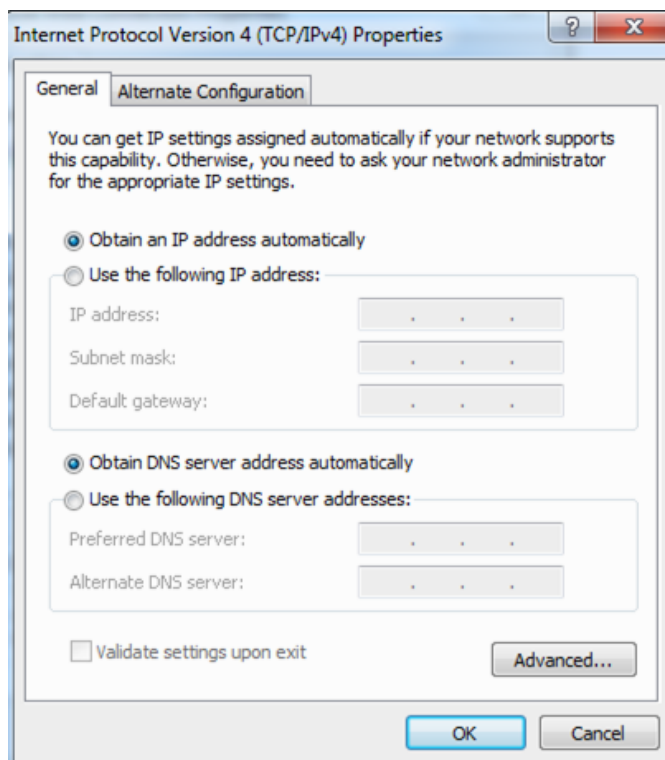
Step 2 Click **Local Area Connection** and then **Properties**.



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
BR	Border Relay
CE	Customer Edge
DDNS	Dynamic Domain Name System
DHCP	Dynamic Host Configuration Protocol
DMZ	Demilitarized Zone
DNS	Domain Name System
GMT	Greenwich Mean Time
IP	Internet Protocol
IPTV	Internet Protocol Television
IPv4	Internet Protocol Version 4
IPv6	Internet Protocol Version 6
ISP	Internet Service Provider
L2TP	Layer 2 Tunneling Protocol
LAN	Local Area Network
MAC	Medium Access Control
MTU	Maximum Transmission Unit
PIN	Personal Identification Number
PPPoE	Point-to-Point Protocol over Ethernet
PPTP	Point to Point Tunneling Protocol
PUK	Personal Identification Number Unlock Key
SIM	Subscriber Identity Module
SMS	Short Message Service
SSID	Service Set Identifier
TCP	Transmission Control Protocol
UDP	User Datagram Protocol
UPnP	Universal Plug and Play
USSD	Unstructured Supplementary Service Data

Acronym or Abbreviation	Full Spelling
WAN	Wide Area Network
WISP	Wireless Internet Service Provider
WPA-PSK	WPA-Pre-shared Key