

**Tenda**

# User Guide

Dual-Band Wi-Fi 6 Router



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# Preface

Thank you for choosing Tenda!

This user guide walks you through all functions of the Dual-Band Wi-Fi 6 Router. All the screenshots and product figures herein, unless otherwise specified, are taken from RX2 Pro/TX2 Pro.

This user guide is applicable to the following routers:

Product model	Description
RX2 Pro/TX2 Pro	Dual-Band Gigabit Wi-Fi 6 Router
RX2/TX2	
RX1 Pro/TX1 Pro	Dual-Band Wi-Fi 6 Router
RX1/TX1	





**TIP**  
The web UI of different models may differ. The web UI displayed shall prevail.

## Conventions

The typographical elements that may be found in this document are defined as follows.

Item	Presentation	Example
Cascading menus	>	<b>System &gt; Live Users</b>
Parameter and value	Bold	Set <b>User Name</b> to <b>Tom</b> .
Variable	Italic	Format: <i>XX:XX:XX:XX:XX:XX</i>
UI control	Bold	On the <b>Policy</b> page, click the <b>OK</b> button.
Message	“ ”	The “Success” message appears.

The symbols that may be found in this document are defined as follows.

Symbol	Meaning
 NOTE	It is used to highlight information of importance or special interest. Ignoring this type of note may result in ineffective configuration, loss of data or damage to the device.
 TIP	It is used to supplement or explain relevant operations.

## For more documents

If you want to get more documents about the device, visit [www.tendacn.com](http://www.tendacn.com) and search for the corresponding product model.

The related documents are listed below.

Document	Description
Datasheet	It introduces the basic information about the device, including product overview, selling points, and specifications.
Quick Installation Guide	It introduces how to set up the device quickly for internet access, the descriptions of LED indicators, ports, and buttons, FAQs, statement information, and so on.
User Guide (App)	It introduces how to set up more functions of the device for more requirements through the Tenda WiFi app.
User Guide (web UI)	It introduces how to set up more functions of the device for more requirements, including all functions on the web UI of the device.

## Technical support

Contact us if you need more help. We will be glad to assist you as soon as possible.

Email address: [support@tenda.cn](mailto:support@tenda.cn)

Website: [www.tendacn.com](http://www.tendacn.com)

## Revision history

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

Version	Description	Date
V1.2	Added the description of the <a href="#">whitelist</a> function.	2022-12-29
V1.1	1. Added the description of the <a href="#">TR069</a> function. 2. Optimized sentence expression.	2022-11-10
V1.0	Original publication.	2022-10-06

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# 1

# Get to know your device

This chapter introduces the product in the following sections:

- [Product overview](#)
- [Appearance](#)

## **1.1 Product overview**

The dual-band Wi-Fi 6 router adopts the Wi-Fi 6 (802.11ax) standard on 5 GHz bandwidth, bringing a fast Wi-Fi 6 network with low latency. With high-performance signal enhancement module, the router features high-quality signal transmission and reception sensitivity. It incorporates MU-MIMO and OFDMA technologies, allowing you to connect multiple devices simultaneously with lower lag.

## 1.2 Appearance

### 1.2.1 LED indicator



RX2 Pro is used as an example here.



This product has only one LED indicator. Its behavior varies in different stages, as described in the following table.

Scenario	Status	Description
Startup	Solid green	Starting up
	Solid green	Connected to the internet
Internet connection	Blinking green slowly	Not configured and not connected to the internet
	Blinking red slowly	Configured but the internet connection failed
	Blinking orange slowly	Configured but no Ethernet cable is connected to the WAN port
WPS	Blinking green quickly	Pending for or performing WPS negotiation (valid within 2 minutes)
Ethernet cable connection	Blinking green quickly for 3 seconds	Device connected to or disconnected from an Ethernet port of the router
PPPoE user name and password importing	Blinking green quickly for 8 seconds	PPPoE user name and password imported successfully
Resetting	Blinking orange quickly	Resetting

## 1.2.2 Buttons and Ports



RX2 Pro is used as an example here.

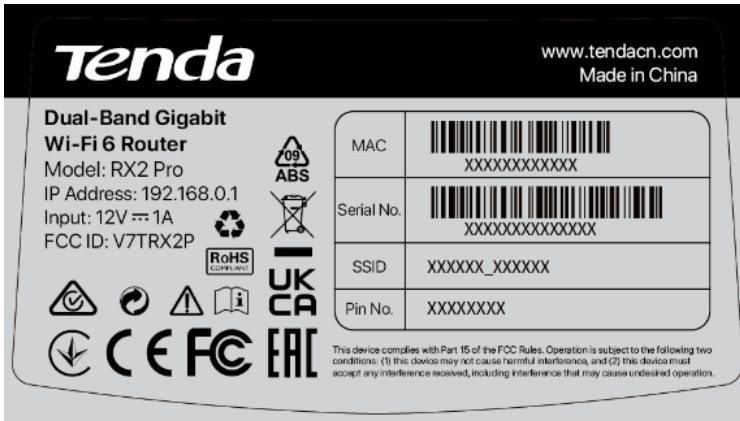


The following table describes the functions of the buttons and ports on the back of the product. The sequence of buttons and ports may differ. The actual product prevails.

Jack/Port/Button	Description
IPTV/3	<p>LAN/IPTV port.</p> <p>It is a LAN port by default. When the IPTV function is enabled, it can only serve as an IPTV port to connect to a set-top box.</p>
1, 2	<p>LAN port.</p> <p>Used to connect to such devices as computers, switches and game machines.</p>
WAN	<p>WAN port.</p> <ul style="list-style-type: none"> <li>In the Router mode, this port is used to connect to a modem or the Ethernet jack for internet access.</li> <li>In the AP mode, this port functions as the LAN port.</li> <li>In the Client+AP mode, this port cannot be connected to any device.</li> </ul>
WPS/RST	<p>Used to start the WPS negotiation process, or to reset the router.</p> <ul style="list-style-type: none"> <li><b>WPS:</b> Through the WPS negotiation, you can connect to the Wi-Fi network of the router without entering the Wi-Fi password. <b>Method:</b> Press the button, and the LED indicator blinks green fast. Within 2 minutes, enable the WPS function of the other WPS-supported device to establish a WPS connection.</li> <li><b>Reset:</b> When the router is working normally, hold the button down for about 8 seconds, and then release it when the LED indicator blinks orange fast. The router is reset.</li> </ul>
POWER	Power jack.

### 1.2.3 Label

The bottom label shows such information about the device as the login IP address, MAC address, serial number, SSID, and Wi-Fi password of the device. The following is an example of what the label might look like:



**Model:** Specifies the device model.

**IP Address:** Specifies the default address used to log in to the web UI of the device.

**Input:** Specifies the power of the device.

**FCC ID:** Specifies the Federal Communications Commission Identification number of the device.

**MAC:** Specifies the MAC address of the LAN port of the device.

**Serial No.:** Specifies the serial number required if you need technical assistance to repair your device.

**SSID:** Specifies the default Wi-Fi name of the device.

**Pin No.:** Specifies the PIN code of the device. Used to perform a WPS connection by entering the PIN code of your router on your wireless client.

# 2 Quick setup

This chapter describes how to connect the devices and enable internet access through the quick setup wizard. It contains the following sections:

- [Connect the router](#)
- [Connect the router to the internet](#)

## 2.1 Connect the router

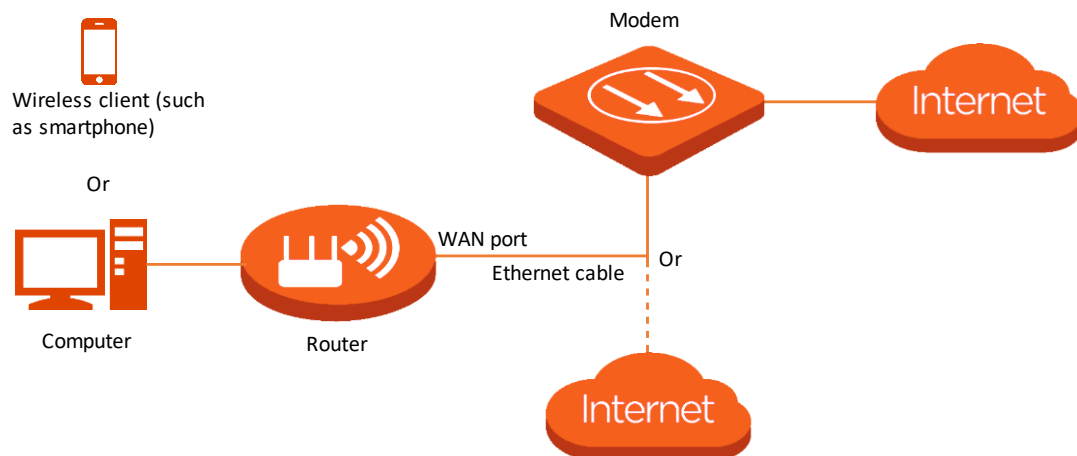


If you use a modem for internet access, power off the modem first before connecting the WAN port of the router to the LAN port of your modem and power it on after the connection.

- Step 1** Power on the router.
- Step 2** Connect the WAN port of the router to the LAN port of your modem or the Ethernet jack using an Ethernet cable.
- Step 3** Connect your wireless client such as a smartphone to the Wi-Fi network of the router, or use an Ethernet cable to connect the computer to the **1, 2** or **IPTV/3** port of the router.



The default Wi-Fi name can be found on the bottom label of the device.



---End

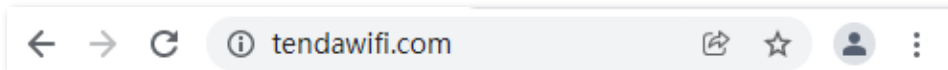


## 2.2 Connect the router to the internet

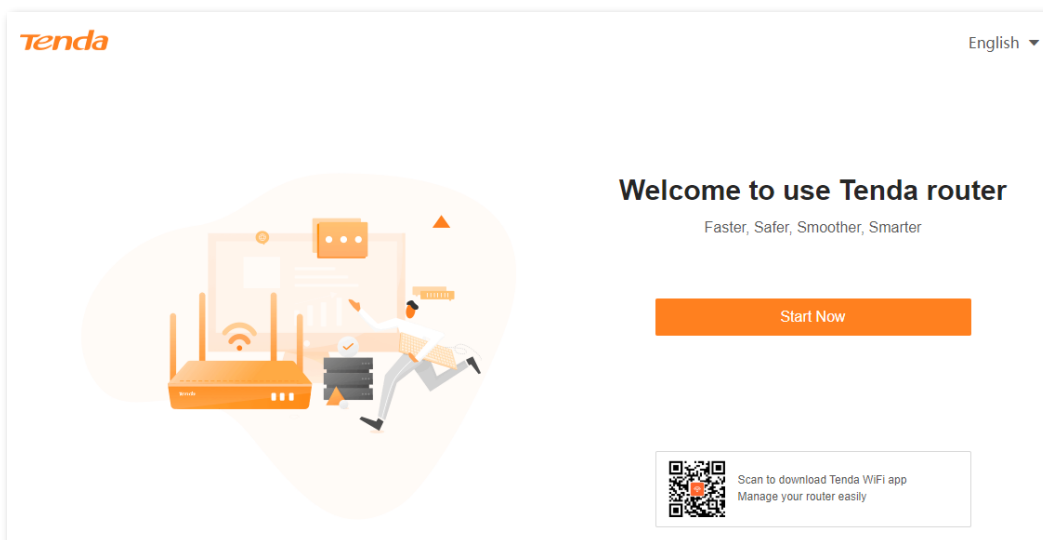
After connecting your router, you can complete quick setup for internet access by following the instructions on the web UI wizard. This wizard only occurs upon your first setup.

To connect your router to the internet through the quick setup wizard:

**Step 1** Start a browser on the computer or wireless device and enter **tendawifi.com** in the address bar to access the web UI. (the computer is used for illustration here)



**Step 2** Click **Start Now**.



If your internet connection is normal, the following page is displayed and you can continue the setup in [Step 3](#).

1 Detect Internet Connection Type
 2 Internet Settings
 3 WiFi Settings
 4 Complete

Please select your internet connection type

ISP Type:

Internet Connection Type:

Select this type if you access the internet using the PPPoE account and PPPoE password. If you forget the PPPoE user name and password, you can [Import PPPoE user name and password from the original router.](#)

PPPoE Username:

PPPoE Password:

**Next**

[Skip](#)

If your internet connection is abnormal, the following page is displayed. Rectify the fault as instructed on the page, and click **Detect Again**.

**Tenda** English ▾

Internet access is a few steps away!

1 Detect Internet Connection Type
 2 Internet Settings
 3 WiFi Settings
 4 Complete

**Detection error**

1. Ensure that the Ethernet cable for internet connection is connected to the WAN port of the router.
2. Ensure that the Ethernet cable is not damaged and well-connected, and the PPPoE modem or optical modem is powered on.
3. If the problem persists, please contact your ISP.

**Detect Again**

You can also choose [Ignore and continue setup](#)

**Step 3** Set **ISP Type**, **Internet Connection Type** and other parameters as required. Then, click **Next**.





You can click **Import PPPoE user name and password from your original router** to see how to import PPPoE user name and password from your original router. After you import your PPPoE user name and password into the router, **ISP Type, Internet Connection Type, PPPoE Username and PPPoE Password** will be set automatically.

The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description
ISP Type	<p>Specifies the type of your ISP, such as <b>Normal, Russia, Unifi, Maxis, Celcom, Digi</b> and <b>Manual</b>. The parameters required for each option may differ.</p> <p>Refer to the following to choose your connection type:</p> <ul style="list-style-type: none"> <li>• <b>Normal, Unifi, Maxis, Celcom</b> and <b>Digi</b>: Select these options when your ISP provides no setup information, except for the PPPoE user name and password, or static IP address information.</li> <li>• <b>Russia</b>: Select this option when your ISP provides dual access information, such as PPTP, and L2TP connection information.</li> <li>• <b>Manual</b>: Select this option when your ISP provides VLAN ID information, besides the PPPoE user name and account, or static IP address.</li> </ul> <p>If you are still not sure, contact your ISP for reference.</p>

Parameter	Description
Internet Connection Type	<p>Specifies how your router connects to the internet, including:</p> <ul style="list-style-type: none"> <li>• <b>PPPoE, Russia PPPoE:</b> Select this type if you access the internet using the PPPoE account and PPPoE password. <b>Russia PPPoE</b> is available only when you set <b>ISP Type</b> to <b>Russia</b>.</li> <li>• <b>Dynamic IP:</b> Select this type if you can access the internet by simply plugging in an Ethernet cable.</li> <li>• <b>Static IP:</b> Select this type if you want to access the internet using fixed IP information.</li> <li>• <b>Russia PPTP, Russia L2TP:</b> These types are available when <b>ISP Type</b> is set to <b>Russia</b>.</li> </ul>
PPPoE Username	When the internet connection type is PPPoE, you need to enter the user name and password provided by your ISP to access the internet.
PPPoE Password	
IP Address	
Subnet Mask	When the internet connection type is static IP, you need to enter the fixed IP address information provided by your ISP.
Default gateway	 <b>TIP</b>
Primary DNS	If your ISP provides only one DNS server, you can leave <b>Secondary DNS</b> blank.
Secondary DNS	
Address Type	<p>When you set <b>ISP Type</b> to <b>Russia</b>, this parameter is required.</p> <p>It specifies the method for obtaining IP address information to access the “local” network, where the internal resources of the ISP are located.</p>
DNS Settings	<p>This parameter is required only when <b>ISP Type</b> is set to <b>Russia</b>. It specifies how the WAN port DNS address is obtained, which is <b>Auto</b> by default.</p> <ul style="list-style-type: none"> <li>• <b>Auto:</b> The router obtains a DNS server address from the DHCP server of the upstream network automatically.</li> <li>• <b>Manual:</b> The DNS server address is configured manually.</li> </ul>
Server IP Address/Domain Name	These parameters are used for setting up internet access in the dual access network environment. When you set <b>ISP Type</b> to <b>Russia</b> and <b>Internet Connection Type</b> to <b>Russia PPTP</b> or <b>Russia L2TP</b> , these parameters are required.
User Name	
Password	

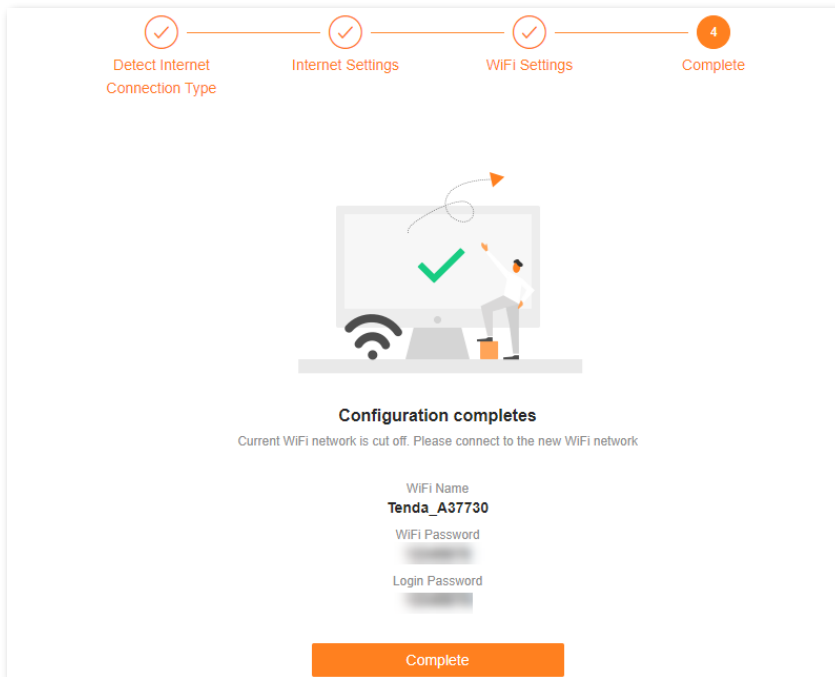
Parameter	Description
Area	<p>When you set <b>ISP Type</b> to <b>Maxis</b>, <b>Celcom</b> or <b>Digi</b>, this parameter is required.</p> <p>It specifies the ISP area, including:</p> <ul style="list-style-type: none"> <li>• <b>Maxis:</b> <b>Maxis</b> and <b>Maxis-Special</b></li> <li>• <b>Celcom:</b> <b>Celcom West(BIZ)</b>, <b>Celcom West(HOME)</b>, <b>Celcom East(BIZ)</b> and <b>Celcom East(HOME)</b></li> <li>• <b>Digi:</b> <b>Digi-TM</b>, <b>Digi</b>, <b>Digi-CT Sabah</b> and <b>Digi-TNB</b></li> </ul>
Internet VLAN ID	When you select <b>Manual</b> for <b>ISP Type</b> , you can configure these parameters.
IPTV VLAN ID	<p> <b>TIP</b></p> <p><b>Internet VLAN ID</b> is required, while <b>IPTV VLAN ID</b> is optional. Blank VLAN ID indicates that the IPTV function is disabled.</p>

**Step 4** Set parameters as required, and click **Next**.



- If you do not want to use a Wi-Fi password, select **Not encrypted**. In this case, any client can access the network without a password. This option is not recommended as it leads to low network security.
- To use the same password for Wi-Fi access and web UI login, keep **Set WiFi password to router login password** selected, which is the default setting.
- To use different passwords for Wi-Fi access and web UI login, deselect **Set WiFi password to router login password**, and set **Wi-Fi Name** and **WiFi Password** for Wi-Fi login and **Login Password** and **Confirm Password** for web UI login.

**Step 5** If the following information is displayed, the quick setup for internet access is finished. Click **Complete**.



---End

Now you can access the internet with:

- Wired devices: Connect to the LAN ports of your router
- Wireless devices: Connect to your Wi-Fi network using the Wi-Fi name and password you set



Only the 2.4 GHz Wi-Fi name is displayed after the quick setup is complete. The 5 GHz Wi-Fi name is suffixed with **\_5G** after the 2.4 GHz Wi-Fi name. For example, if the 2.4 GHz Wi-Fi name is **Tenda\_A37730**, the 5 GHz Wi-Fi name is **Tenda\_A37730\_5G**.

# 3 Login

This chapter introduces how to log in to the web UI or log out of the web UI of the router in the following sections:

- [Log in to the web UI](#)
- [Log out of the web UI](#)

## 3.1 Log in to the web UI

### 3.1.1 By using the computer

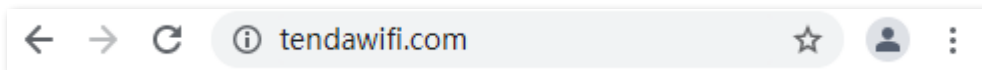
**Step 1** Use an Ethernet cable to connect your computer to the **1, 2** or **IPTV/3** port of the router.



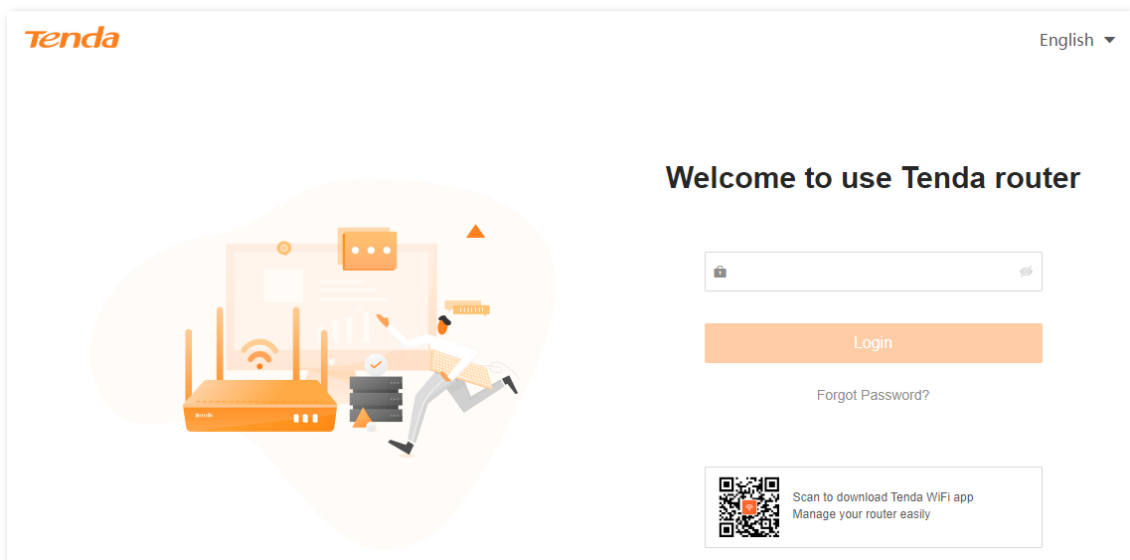
TIP

The default Wi-Fi name can be found on the bottom label of the router.

**Step 2** Start a browser on the computer and enter **tendawifi.com** in the address bar to access the web UI.



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



TIP

- If this is your first login and internet access is not configured, go to [Connect the router to the internet](#).
- The login password is the one that you specified in [Connect the router to the internet](#). It is case-sensitive. If you forgot the login password, go to [Forgot my password](#).

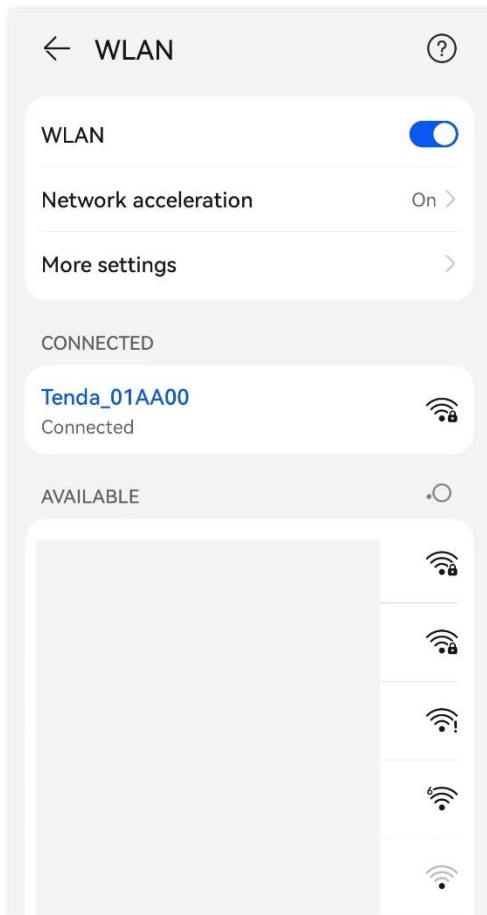
---End



### 3.1.2 By using the smartphone/laptop

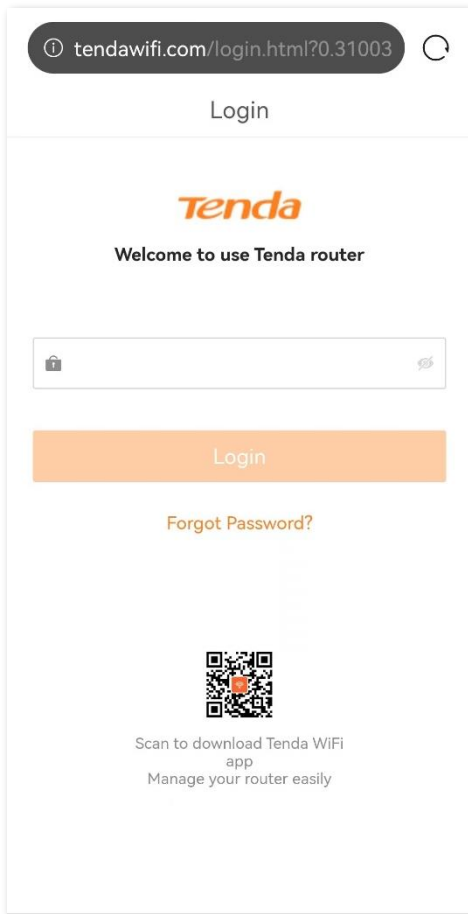
The smartphone is taken as an example here.

**Step 1** Connect your smartphone to the Wi-Fi network of the router, which is **Tenda\_01AA00** in this example.



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

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



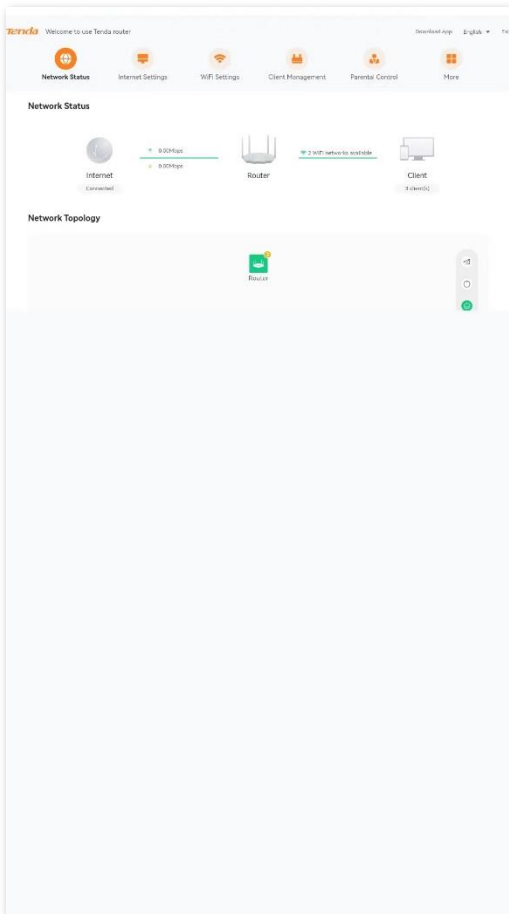
---End



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

- Ensure that the smartphone is connected to the Wi-Fi network of the router.
  - Use the default IP address **192.168.0.1** of the router to log in to the web UI.
  - [Restore the router to factory settings](#) and try again.
-

The following page appears.



## 3.2 Log out of the web UI

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

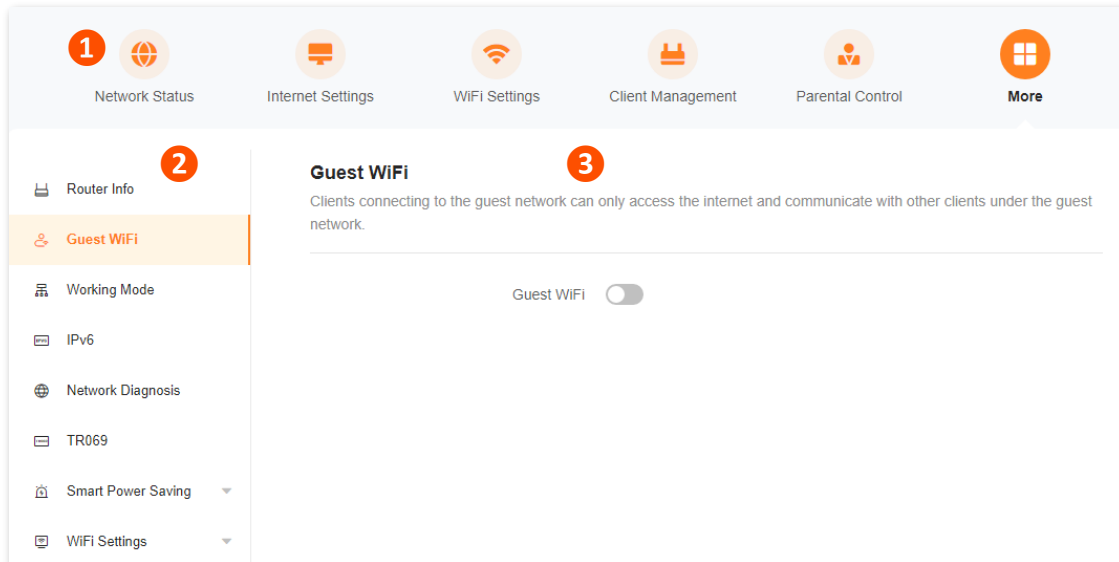
# 4 Web UI

This chapter introduces basic information about the web UI in the following sections:

- [Web UI layout](#)
- [Change the language](#)

## 4.1 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.

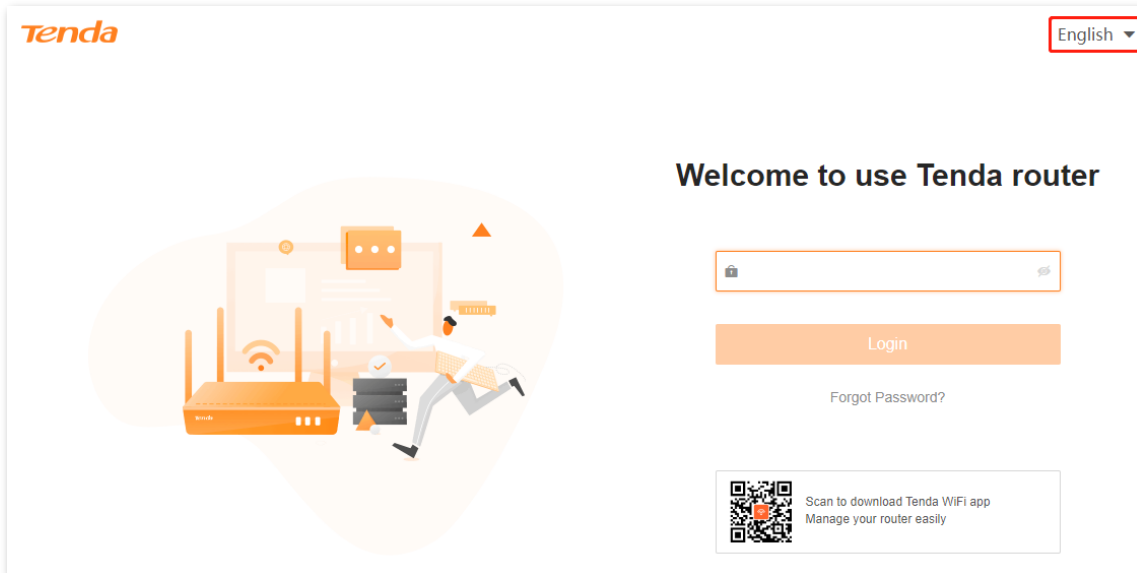


Features displayed in gray are not available or cannot be configured under the current condition.

No.	Name	Description
1	Navigation bar	Used to display the function menu of the router. Users can select functions in the navigation bar.
2		
3	Configuration area	Used to modify or view your configuration.

## 4.2 Change the language

The default language displayed is **English**. You can select another language from the drop-down list in the upper right corner.



# 5

# Network status

This module allows you to view basic network information and perform quick setup on the router, such as one-click optimization, rebooting, and turning on/off all indicators.

This chapter includes the following sections:

- [Network status](#)
- [Network topology](#)



## 5.1 Network status

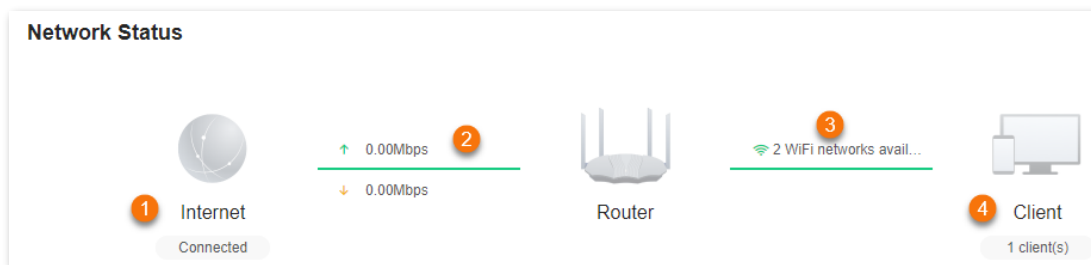
To view the network status:

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

**Step 2** Navigate to **Network Status**.

---End

The following page is displayed.



The following table describes the information displayed under **Network Status**.

No.	Description
1	<p>Indicates the internet connection status.</p> <ul style="list-style-type: none"> <li>• <b>Connected:</b> The router is connected to the internet successfully.</li> <li>• <b>Disconnected:</b> The router is disconnected from the internet.</li> </ul>
2	<p>The information here varies depending on the internet connection status.</p> <ul style="list-style-type: none"> <li>• <b>X.xx Mbps:</b> The internet is connected successfully, and the real-time upload and download speeds are displayed, as shown in the figure above.</li> <li>• <b>Connecting:</b> The router is connecting to the internet.</li> <li>• Other information (for example, <b>No Ethernet cable is connected to the WAN port</b>): The internet connection failed. Click the prompt message to view tips for troubleshooting. If the problem persists, contact technical support for help.</li> </ul>
3	<p>Indicates the number of available Wi-Fi networks. You can hover your mouse over it to see the Wi-Fi names and frequency bands.</p>
4	<p>Indicates the number of clients connected to the network.</p>

## 5.2 Network topology

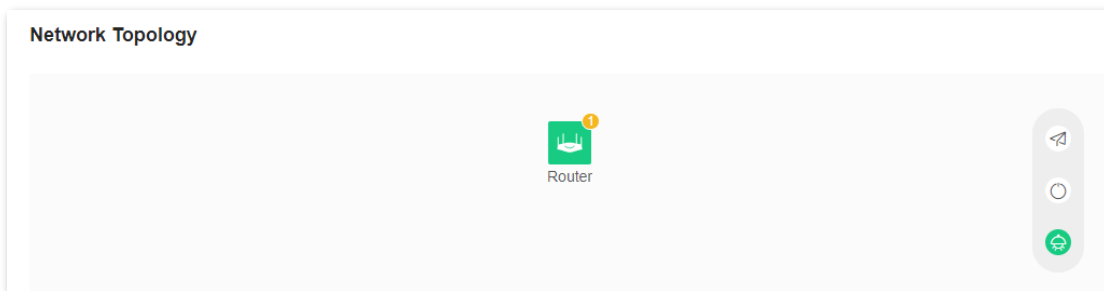
To view the basic information of the network topology and perform quick operations:

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





**Step 2** Navigate to **Network Status**.

---End

The following page is displayed.



The following table describes the information displayed under **Network Topology**.

Button	Description
	Click it to view the basic information about the router and connected devices. For details, see <a href="#">Basic router information</a> .
	Used for <a href="#">One-click optimization</a> .
	Used to <a href="#">Reboot the router</a> .
	Used to <a href="#">Turn on/off the indicator</a> .

### 5.2.1 Basic router information

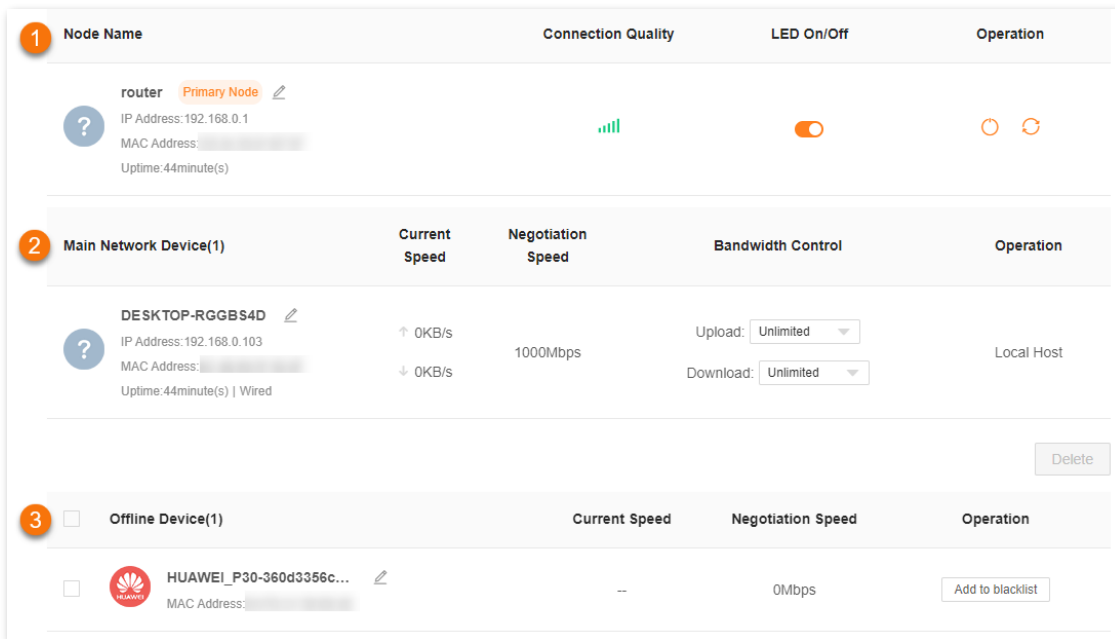
To view the information about and perform quick operations on the router and clients in the network:

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

**Step 2** Navigate to **Network Status**. Then, click  under **Network Topology**.

---End






The following dialog box is displayed.



The following table describes the information and operation shortcuts displayed under **Node info**.

No.	Description
-----	-------------

This area displays the information and operation shortcuts of the router, including:


- **Node Name:** Indicates the name of the router, which is **router** by default. You can change the name by clicking  beside it.
- **IP address:** Indicates the IP address of the LAN port of the router.
- **MAC address:** Indicates the MAC address of the LAN port of the router.
- **Uptime:** Indicates the network connection time of the router.
- **Connection Quality:** Shows the connection signal strength with the router. You can hover your mouse over  to see the strength value.
- **LED On/Off:** Provides a  button for turning on/off the LED indicator of the router. You can use this function to check which device you are operating. [Turn on/off the indicator](#) prevails to this operation.
- **Operation:** Provides a  button for rebooting the router and a  button for resetting the router.



Resetting clears all configurations and restores the device to factory settings. Please operate with caution.


No.	Description
-----	-------------

This area displays the information and operation shortcuts of main network clients, including:

- Client name: You can change the client name by clicking  .
- **IP Address:** Indicates the IP address of the client.
- **MAC Address:** Indicates the MAC address of the client.
- **Uptime:** Indicates the network connection time of the client and the networking mode, such as **Wired, 2.4G** and **5G**.
- **Current Speed:** Indicates the real-time upload and download speeds.
- **Negotiation Speed:** Indicates the speed of negotiation.
- **Bandwidth Control:** Used to set the maximum upload and download speeds, including:
  - **Unlimited:** The speed is not limited.
  - **128 KB/s, 256 KB/s:** The maximum speed is limited to 128 KB/s or 256 KB/s.
  - **Custom (KB/s):** You can set any speed in the range of 64 KB/s to 128000 KB/s.
- **Operation:**
  - **Local Host:** Indicates that this client is the local host, which is the computer connected to the router in this example. For the local host, no operation is available here.
  - **Add to blacklist:** Used to blacklist a client. Once blacklisted, the client cannot access the internet through the router.

2

This area displays the information and operation shortcuts of offline clients, including:

- Client name: You can change the client name by clicking  .
- **MAC Address:** Indicates the MAC address of the client.
- **Current Speed:** Unavailable.
- **Negotiation Speed:** Displays the speed of negotiation.
- **Operation:** Provides an **Add to blacklist** button for blacklisting clients. Once blacklisted, the client cannot access the internet through the router.

3



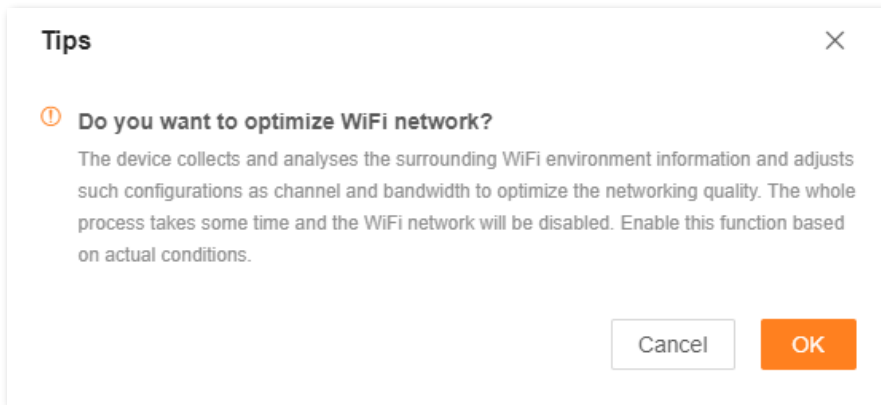
A maximum of 30 offline clients can be displayed here. A client will be automatically deleted from the list if it is offline for 3 days. A client is displayed under **Offline Device** after it is disconnected from the network for 90 seconds (wired client)/5 minutes (wireless client).

## 5.2.2 One-click optimization

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

**Step 2** Navigate to **Network Status**. Then, click  under **Network Topology**.

**Step 3** Click **OK**.



---End

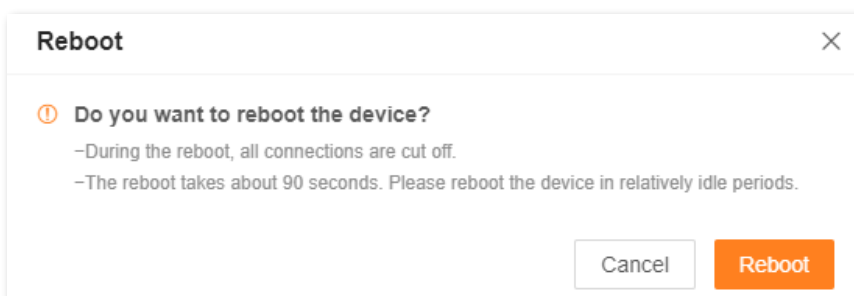
After you click **OK**, the Wi-Fi network is disabled and it takes some time for the optimization process. Wait until the network is enabled again.

## 5.2.3 Reboot the router

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

**Step 2** Navigate to **Network Status**. Then, click  under **Network Topology**.



**Step 3** Click **Reboot**. Wait until all nodes are restarted.



---End

## 5.2.4 Turn on/off the indicator

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

**Step 2** Navigate to **Network Status**. Then, click  or  under **Network Topology**.

---End

The indicator turns on/off immediately.

# 6 Internet settings

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

If you are configuring the router for the first time or after restoring it to factory settings, refer to [Connect the router to the internet](#) to configure the internet access. After that, you can change the internet settings by following the instructions in this chapter.

This chapter includes the following parts:

- [Overview](#)
- [Access the internet with a PPPoE account](#)
- [Access the internet through a dynamic IP address](#)
- [Access the internet with a set of static IP address information](#)
- [Set up dual access connection](#)

## 6.1 Overview



Parameters for internet access are provided by your ISP. Contact your ISP for any doubts.

To access the internet settings page, [log in to the web UI](#), and navigate to **Internet Settings**.

The following page is displayed.

**Internet Settings**

Network Status Connected

Connected time 16minute(s)

ISP Type

Internet Connection Type   
Select this type if you access the internet using the PPPoE account and PPPoE password.

PPPoE Username

PPPoE Password

Advanced ^

Server Name

Service Name

MTU

MAC Address Clone   
Default MAC Address:C8:3A:35:81:B7:88

DNS Settings

Disconnect


The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description
Network Status	<p>Indicates the internet connection status.</p> <ul style="list-style-type: none"> <li>• <b>Connected:</b> The internet connection is successful.</li> <li>• Other information (for example, <b>No Ethernet cable is connected to the WAN port</b>): The internet connection failed. Perform troubleshooting according to the tips displayed.</li> </ul>
Connected time	Indicates the network connection time of the router.

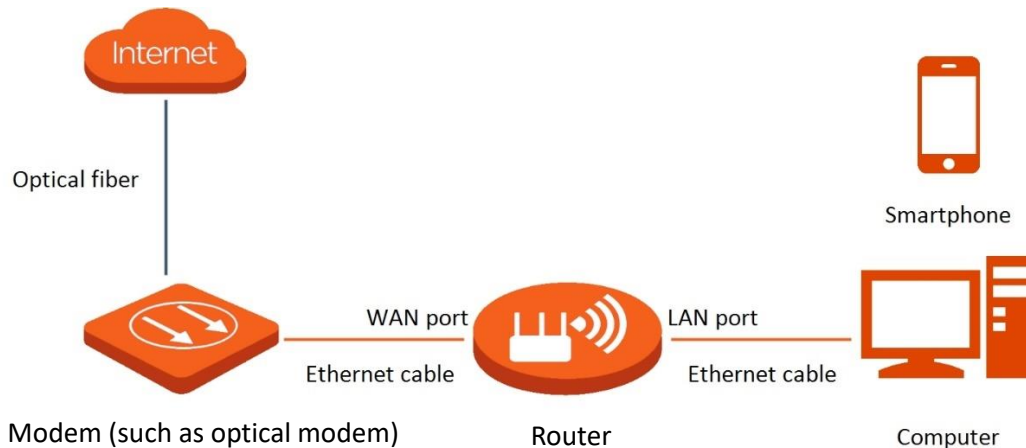


Parameter	Description
ISP Type	
Internet Connection Type	
PPPoE Username	
PPPoE Password	
IP Address	
Subnet Mask	
Default gateway	
Primary DNS	
Secondary DNS	See <b>Parameter description</b> in <a href="#">Connect the router to the internet</a> .
Address Type	
DNS Settings	
Server IP Address/Domain Name	
User Name	
Password	
Area	
Internet VLAN ID	
IPTV VLAN ID	
Server Name	Displayed after you click <b>Advanced</b> if the connection type is PPPoE. They specify the PPPoE server name and PPPoE service name of the broadband service that you purchased.
Service Name	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.

Parameter	Description
MTU	<p>Displayed after you click <b>Advanced</b>.</p> <p>It specifies the largest data packet transmitted by a network device. Do not change the value unless:</p> <ul style="list-style-type: none"> <li>• Your ISP or our technical support suggests you change it when you have problems connecting to your ISP or other internet services.</li> <li>• You used a program to optimize MTU for performance reasons, and now you have connectivity or performance problems.</li> </ul> <p> <b>TIP</b></p> <p>A wrong/improper MTU value may cause Internet communication problems. For example, you may be unable to access certain Websites, frames within Websites, secure login pages, FTP or POP servers.</p> <p>The MTU value range is as follows:</p> <ul style="list-style-type: none"> <li>• When the internet connection type is PPPoE, the default value is <b>1480</b>. Its allowed range is 1280 to 1492.</li> <li>• When the internet connection type is dynamic IP or static IP, the default value is <b>1500</b>. Its allowed range is 1280 to 1500.</li> <li>• When the internet connection type is PPTP/L2TP, the default value is <b>1400</b>. Its allowed range is 1280 to 1460.</li> </ul>
MAC Address Clone	<p>Used to clone and change the MAC address of the WAN port of router.</p> <p>If the router cannot be connected to the Internet after internet settings, the reason may be that the ISP binds internet access information to a MAC address. At this point, perform MAC address clone and try to surf the internet.</p> <ul style="list-style-type: none"> <li>• <b>Default MAC:</b> Keep the factory setting of MAC address.</li> <li>• <b>Clone Local Host MAC:</b> Set the MAC address of the router to the same as that of the device which is configuring the router.</li> <li>• <b>Custom:</b> Manually set a MAC address.</li> </ul>
Custom MAC Address	<p>Required when you select <b>Custom</b> for <b>MAC Address Clone</b> under <b>Advanced</b>. You can enter the customized MAC address here.</p>

## 6.2 Access the internet with a PPPoE account

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



To access the internet with a PPPoE account:

**Step 1** [Log in to the web UI](#), and navigate to **Internet Settings**.

**Step 2** Set **ISP Type**.



If you select **Manual** for **ISP Type**, enter **Internet VLAN ID** and **IPTV VLAN ID** (if any) provided by your ISP. Blank VLAN ID indicates that the IPTV function is disabled.

**Step 3** Set **Internet Connection Type** to **PPPoE**.

**Step 4** Enter the **PPPoE Username** and **PPPoE Password** provided by your ISP.

**Step 5** Click **Connect**.

**Internet Settings**

Network Status: Disconnected

ISP Type:

Internet Connection Type:

Select this type if you access the internet using the PPPoE account and PPPoE password.

PPPoE Username:

PPPoE Password:

Advanced v

---End

Wait until the network status changes to **Connected**, then you can access the internet.

### Internet Settings

Network Status **Connected**



If there is no response from the remote server, troubleshoot as prompted under **Network Status** on the **Internet Settings** page.

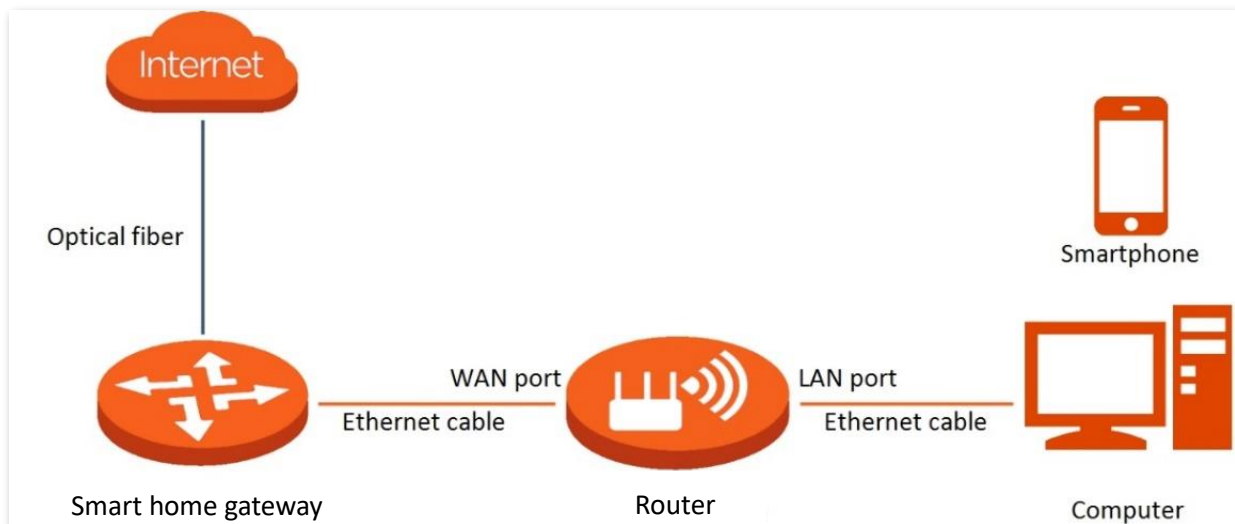
---

## 6.3 Access the internet through a dynamic IP address

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

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

The application scenario is shown below.



To access the internet through dynamic IP address:

**Step 1** [Log in to the web UI](#), and navigate to **Internet Settings**.

**Step 2** Set **ISP Type**.



If you select **Manual** for **ISP Type**, enter **Internet VLAN ID** and **IPTV VLAN ID** (if any) provided by your ISP. Blank VLAN ID indicates that the IPTV function is disabled.

**Step 3** Set **Internet Connection Type** to **Dynamic IP**.

**Step 4** Click **Connect**.

**Internet Settings**

Network Status Disconnected

ISP Type Normal

Internet Connection Type Dynamic IP

Select this type if you can access the internet simply by plugging in an Ethernet cable for internet connection.

Advanced

Connect

**---End**

Wait until the network status changes to **Connected**, then you can access the internet.

**Internet Settings**

Network Status Connected

## 6.4 Access the internet with a set of static IP address information

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

To access the internet with a set of static IP address information:

**Step 1** [Log in to the web UI](#), and navigate to **Internet Settings**.

**Step 2** Set **ISP Type**.



If you select **Manual** for **ISP Type**, enter **Internet VLAN ID** and **IPTV VLAN ID** (if any) provided by your ISP. Blank VLAN ID indicates that the IPTV function is disabled.

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

**Step 4** Set **IP Address**, **Subnet Mask**, **Default gateway** and **Primary DNS**, and **Secondary DNS** with the information provided by your ISP.

**Step 5** Click **Connect**.

**Internet Settings**

Network Status: Verifying your PPPoE user name and password... Please wait

ISP Type:

Internet Connection Type:   
Select this type if you access the internet using the fixed IP address information.

IP Address:  .  .

Subnet Mask:  .  .

Default gateway:  .  .

Primary DNS:  .  .

Secondary DNS:  .  .

Advanced

---End

Wait until the network status changes to **Connected**, then you can access the internet.

**Internet Settings**

Network Status **Connected**

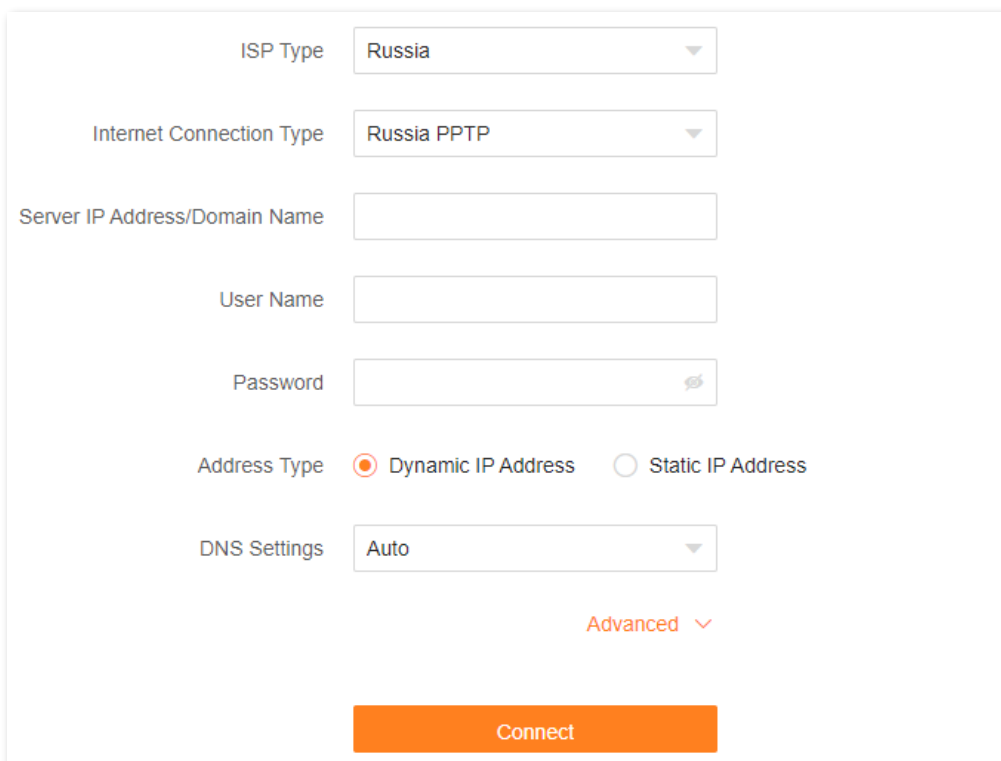


## 6.5 Set up dual access connection

In countries like Russia, the ISP may require you to set up dual access. One is for access to the internet through PPPoE, PPTP or L2TP, and the other is for access to the “local” resources where the ISP is located through DHCP or static IP address. If your ISP provides such connection information, you can set up dual access to access the internet.

To set up dual access connection:

- Step 1** [Log in to the web UI](#), and navigate to **Internet Settings**.
- Step 2** Set **ISP Type** to **Russia**.
- Step 3** Set **Internet Connection Type**, which is **Russia PPTP** in this example, and fill in required parameters.



The screenshot shows the 'Internet Settings' configuration page. It includes the following fields and options:

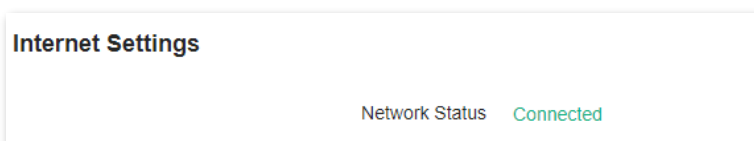
- ISP Type:** A dropdown menu set to 'Russia'.
- Internet Connection Type:** A dropdown menu set to 'Russia PPTP'.
- Server IP Address/Domain Name:** An empty text input field.
- User Name:** An empty text input field.
- Password:** A text input field with a password icon on the right.
- Address Type:** Two radio buttons: 'Dynamic IP Address' (selected) and 'Static IP Address'.
- DNS Settings:** A dropdown menu set to 'Auto'.
- Advanced:** A red text label with a downward arrow.
- Connect:** A large orange button at the bottom.

**Step 4** Set **Address type**, and fill in required parameters.

**Step 5** Click **Connect**.

**---End**

Wait until the network status changes to **Connected**, then you can access the internet.



# 7 Wi-Fi settings

This chapter introduces basic Wi-Fi settings, including changing the Wi-Fi name, Wi-Fi password and encryption mode, and separating the 2.4 GHz and 5 GHz networking.

This chapter includes the following sections:

- [Basic settings](#)
- [Unify the 2.4 GHz and 5 GHz Wi-Fi networks](#)
- [Separate the 2.4 GHz and 5 GHz Wi-Fi networks](#)

## 7.1 Basic settings

To access the Wi-Fi settings page, [log in to the web UI](#), and navigate to **WiFi Settings**.

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

**WiFi Settings**

Unify 2.4 GHz & 5 GHz

The 2.4 GHz WiFi network and 5 GHz WiFi network share the same WiFi name and WiFi password, so clients can automatically connect to the best WiFi network.

**2.4 GHz WiFi**

WiFi Name

Security

WiFi Password ⓘ

**5 GHz WiFi**


WiFi Name



Security

WiFi Password ⓘ

The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description
Unify 2.4 GHz & 5 GHz	<p>Used to enable or disable the Unify 2.4 GHz &amp; 5 GHz function.</p> <p>When this function is enabled, the 2.4 GHz and 5 GHz Wi-Fi networks share the same SSID and password. WiFi-enabled clients connected to it will use the frequency with better connection quality. For details, see <a href="#">Separate the 2.4 GHz and 5 GHz Wi-Fi networks</a>.</p> <p> <b>TIP</b></p> <p>If any device that supports 2.4 GHz network only needs to connect to the Wi-Fi network, do not enable this function.</p>
WiFi Name	Specifies the Wi-Fi network name (SSID) of the corresponding Wi-Fi network.

Parameter	Description
Security	<p>Specifies the encryption mode supported by the router, including:</p> <ul style="list-style-type: none"> <li>• <b>Not encrypted:</b> 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.</li> <li>• <b>WPA2-PSK (Recommended):</b> The network is encrypted with WPA2-PSK/AES.</li> <li>• <b>WPA3-SAE/WPA2-PSK:</b> The network is encrypted with both WPA3-SAE and WPA2-PSK, improving both security and compatibility. This option is only available for the 5 GHz Wi-Fi network.</li> </ul> <p> <b>TIP</b></p> <p>WPA3-SAE is the upgraded version of WPA2-PSK. If your WiFi-enabled client does not support WPA3-SAE, or you get poor Wi-Fi experience, it is recommended to use <b>WPA2-PSK (Recommended)</b>.</p>
WiFi Password	<p>Specifies the password for connecting to the Wi-Fi network. You are strongly recommended to set a Wi-Fi password for security.</p> <p> <b>TIP</b></p> <p>It is recommended to use a combination of numbers, uppercase letters, lowercase letters and special symbols in the password to enhance the security of the Wi-Fi network.</p>

## 7.2 Unify the 2.4 GHz and 5 GHz Wi-Fi networks

The router supports 2.4 GHz and 5 GHz Wi-Fi networks, which are separated by default. You can unify their Wi-Fi names and passwords as required.

To unify the Wi-Fi names of the networks:

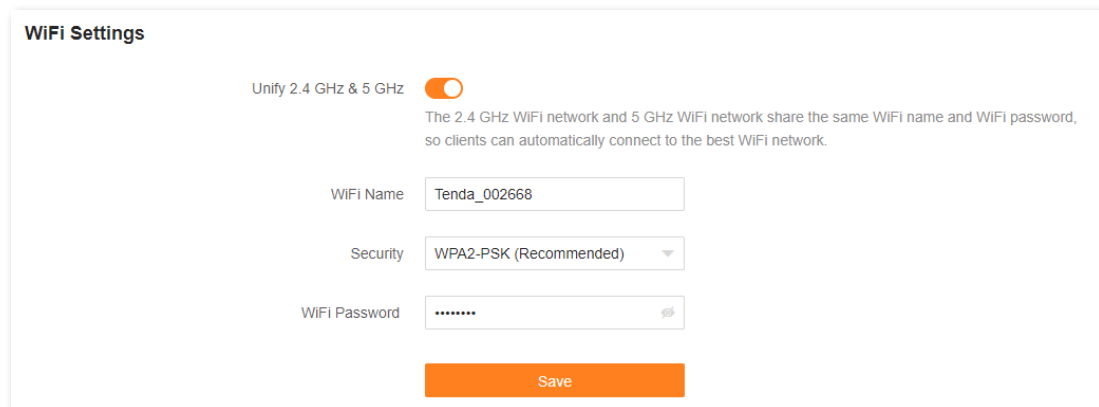
**Step 1** [Log in to the web UI](#), and navigate to **WiFi Settings**.

**Step 2** Enable the **Unify 2.4 GHz & 5 GHz** function.

**Step 3** Set **WiFi Name**, **Security**, and **WiFi Password**.

In this example, the Wi-Fi networks are named **Tenda\_002668** and **WPA2-PSK (Recommended)** is selected for **Security**.

**Step 4** Click **Save**.



**WiFi Settings**

Unify 2.4 GHz & 5 GHz

The 2.4 GHz WiFi network and 5 GHz WiFi network share the same WiFi name and WiFi password, so clients can automatically connect to the best WiFi network.

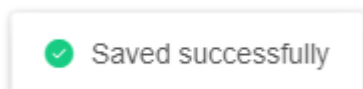
WiFi Name

Security

WiFi Password

---End

The following message is displayed, indicating that the settings are saved successfully.



Now you can connect to the Wi-Fi networks using the same Wi-Fi name and password.

## 7.3 Separate the 2.4 GHz and 5 GHz Wi-Fi networks

**Step 1** [Log in to the web UI](#), and navigate to **WiFi Settings**.

**Step 2** Disable the **Unify 2.4 GHz & 5 GHz** function.

**Step 3** Set **WiFi Name**, **Security** and **WiFi Password** of each Wi-Fi network.

In this example, the 2.4 GHz Wi-Fi network is named **Tenda\_002668**, the 5 GHz Wi-Fi network is named **Tenda\_002668\_5G**, and **WPA2-PSK (Recommended)** is selected for **Security**.

**Step 4** Click **Save**.

**WiFi Settings**

Unify 2.4 GHz & 5 GHz

The 2.4 GHz WiFi network and 5 GHz WiFi network share the same WiFi name and WiFi password, so clients can automatically connect to the best WiFi network.

**2.4 GHz WiFi**

WiFi Name

Security

WiFi Password

**5 GHz WiFi**

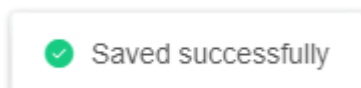
WiFi Name

Security

WiFi Password

---End

The following message is displayed, indicating that the settings are saved successfully.



Now you can connect to the Wi-Fi networks using different Wi-Fi names and passwords.

## 8

# Client management

This chapter describes how to manage your clients, including:

- [View client information](#)
- [Change a client name](#)
- [Add a client to the blacklist](#)
- [Remove a client from the blacklist](#)
- [Delete an offline client](#)

## 8.1 View client information

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

**Step 2** Navigate to **Client Management**.

The following page is displayed.


Online Device(1)	Current Speed	Negotiation Speed	Bandwidth Control	Operation
DESKTOP-RGGBS4D IP Address: 192.168.0.103 MAC Address: Uptime: 33minute(s)   Wired	↑ 0KB/s ↓ 0KB/s	1000Mbps	Upload: <input type="text" value="Unlimited"/> Download: <input type="text" value="Unlimited"/>	Local Host

---End

The following table describes the information and operation shortcuts displayed under **Client Management**.

Parameter	Description
Online Device	<p>This tab page displays the information and operation shortcuts of main network clients, including:</p> <ul style="list-style-type: none"> <li>• <b>Client name:</b> You can change the client name by clicking  .</li> <li>• <b>IP Address:</b> Indicates the IP address of the client.</li> <li>• <b>MAC Address:</b> Indicates the MAC address of the client.</li> <li>• <b>Uptime:</b> Indicates the network connection time of the client and the networking mode, such as <b>Wired, 2.4G</b> and <b>5G</b>.</li> <li>• <b>Current Speed:</b> Indicates the real-time upload and download speeds.</li> <li>• <b>Negotiation Speed:</b> Indicates the speed of negotiation.</li> <li>• <b>Bandwidth Control:</b> Used to set the maximum upload and download speeds, including:               <ul style="list-style-type: none"> <li>– <b>Unlimited:</b> The speed is not limited.</li> <li>– <b>128 KB/s, 256 KB/s:</b> The maximum speed is limited to 128 KB/s or 256 KB/s.</li> <li>– <b>Custom (KB/s):</b> You can set any speed in the range of 64 KB/s to 128000 KB/s.</li> </ul> </li> <li>• <b>Operation:</b> <ul style="list-style-type: none"> <li>– <b>Local Host:</b> Indicates that this client is the local host, which is the computer connected to the router in this example. For the local host, no operation is available here.</li> <li>– <b>Add to blacklist:</b> Used to blacklist a client. Once blacklisted, the client cannot access the internet through the router.</li> </ul> </li> </ul>




Parameter	Description
Guest Device	<p>This tab page displays the information and operation shortcuts of clients connected to the guest network, including:</p> <ul style="list-style-type: none"> <li>• <b>Current Speed:</b> Indicates the real-time upload and download speeds.</li> <li>• <b>Negotiation Speed:</b> Indicates the speed of negotiation.</li> <li>• <b>Operation:</b> Provides an <b>Add to blacklist</b> button for blacklisting clients. Once blacklisted, the client cannot access the internet through the router.</li> </ul>
Offline Device	<p>This tab page displays the information and operation shortcuts of offline clients, including:</p> <ul style="list-style-type: none"> <li>• Client name: You can change the client name by clicking  .</li> <li>• <b>MAC address:</b> Indicates the MAC address of the client.</li> <li>• <b>Current Speed:</b> Unavailable.</li> <li>• <b>Negotiation Speed:</b> Indicates the speed of negotiation.</li> <li>• <b>Operation:</b> Provides an <b>Add to blacklist</b> button for blacklisting clients. Once blacklisted, the client cannot access the internet through the router's network.</li> </ul> <p>A maximum of 30 offline clients can be displayed here. A client is displayed under <b>Offline Device</b> after it is disconnected from the network for 90 seconds (wired client)/5 minutes (wireless client). A client will be automatically deleted from this list if it is offline for 3 days.</p>
Blacklist	<p>This tab page displays the information and operation shortcuts of blacklisted clients, including:</p> <ul style="list-style-type: none"> <li>• <b>Device Name:</b> Indicates the name of the blacklisted client.</li> <li>• <b>MAC address:</b> Indicates the MAC address of the client.</li> <li>• <b>Operation:</b> Provides a <b>Remove from the blacklist</b> button for removing clients from the blacklist.</li> </ul>

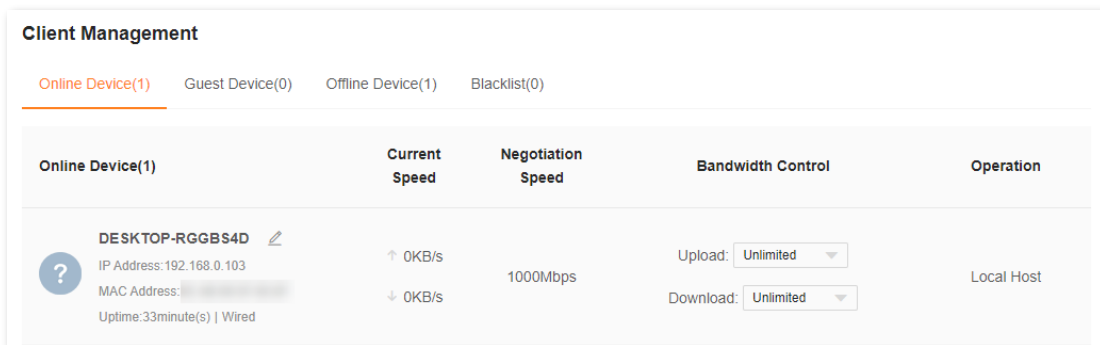
## 8.2 Change a client name

You can change the names of all clients connected to the network on the web UI. Here changing the name of an online client is used as an example. The operations for changing other client names are similar.

To change the name of a client:

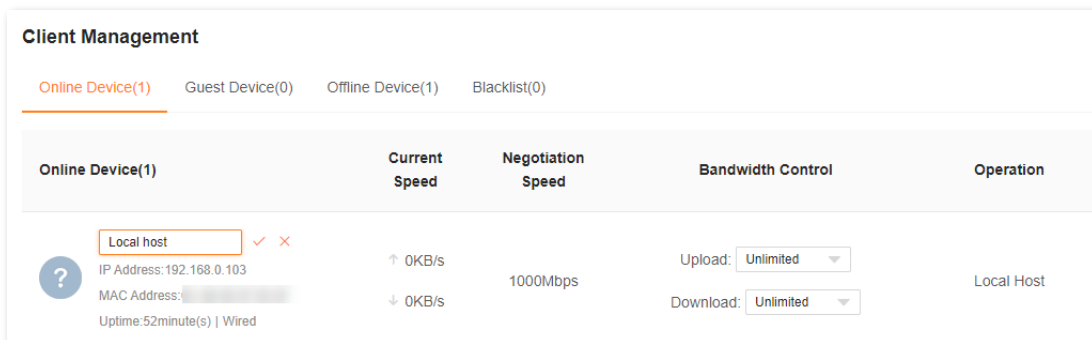
**Step 1** [Log in to the web UI](#), and navigate to **Client Management**.

**Step 2** Click  beside the client name.



The screenshot shows the 'Client Management' interface. At the top, there are tabs for 'Online Device(1)', 'Guest Device(0)', 'Offline Device(1)', and 'Blacklist(0)'. Below the tabs is a table with the following columns: 'Online Device(1)', 'Current Speed', 'Negotiation Speed', 'Bandwidth Control', and 'Operation'. The table contains one row for the client 'DESKTOP-RGGBS4D'. The client's details include a question mark icon, IP Address: 192.168.0.103, MAC Address: [blurred], and Uptime: 33minute(s) | Wired. The 'Current Speed' is 0KB/s (upload) and 0KB/s (download). The 'Negotiation Speed' is 1000Mbps. The 'Bandwidth Control' section shows 'Upload: Unlimited' and 'Download: Unlimited'. The 'Operation' column shows 'Local Host'. An edit icon (pencil) is visible next to the client name.

**Step 3** Enter a new name and click .



The screenshot shows the 'Client Management' interface after the client name has been changed. The table now shows the client 'Local host' instead of 'DESKTOP-RGGBS4D'. The client's details include a question mark icon, IP Address: 192.168.0.103, MAC Address: [blurred], and Uptime: 52minute(s) | Wired. The 'Current Speed' is 0KB/s (upload) and 0KB/s (download). The 'Negotiation Speed' is 1000Mbps. The 'Bandwidth Control' section shows 'Upload: Unlimited' and 'Download: Unlimited'. The 'Operation' column shows 'Local Host'. A text input field containing 'Local host' is visible above the client name, with a checkmark and an 'x' icon next to it, indicating the change has been saved.

**---End**

The new client name is saved.

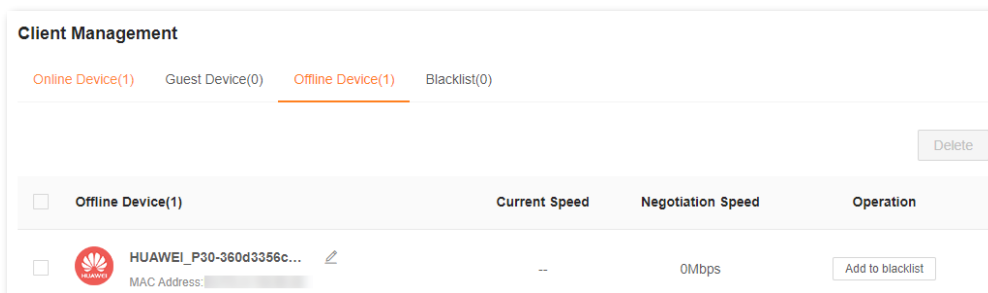
## 8.3 Add a client to the blacklist

If you find any unknown client connects to your network and you want to block it from accessing your network, you can blacklist it here. All clients connected to the network can be blacklisted, except the local host. Here blacklisting an offline client is used as an example. The operations for blacklisting other clients are similar.

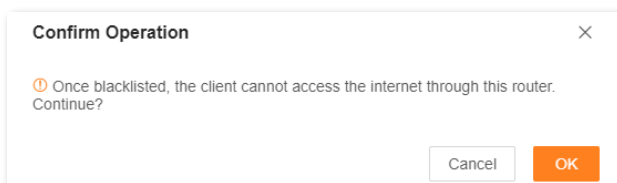
To blacklist a client:

**Step 1** [Log in to the web UI](#), and navigate to **Client Management**.

**Step 2** Click **Add to blacklist** under **Operation** in the line of the client to be blacklisted.

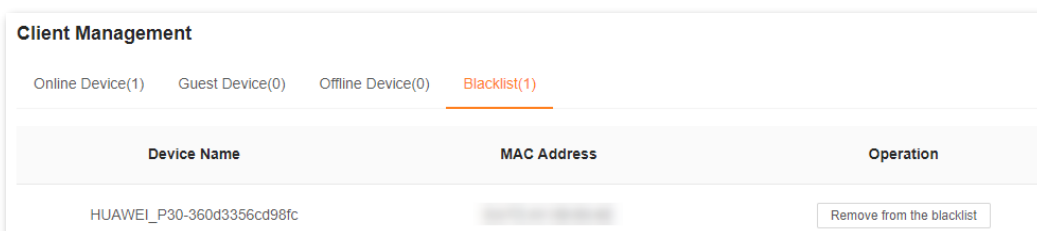


**Step 3** Click **OK**.



---End

The client is removed from the device list and displayed on the blacklist now.



TIP

- If you blacklist a wired client, the wired client will fail to access the network.
- If you blacklist a wireless client, the wireless client will be kicked offline and cannot connect to the router again.
- A maximum of 32 clients can be blacklisted.
- The blacklist rule prevails when conflicting with the parent control rule.

## 8.4 Remove a client from the blacklist

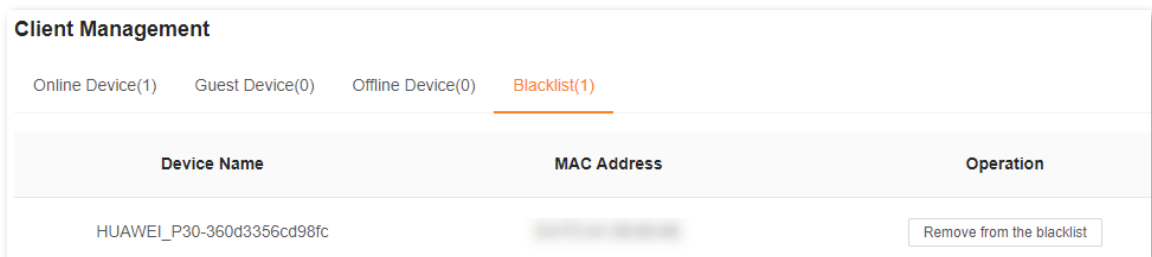
If you blacklist a client by mistake, you can remove it from the blacklist.

To remove a client from the blacklist:

**Step 1** [Log in to the web UI](#), and navigate to **Client Management**.

**Step 2** Choose **Blacklist** on the right.

**Step 3** Click **Remove from the blacklist** under **Operation** in the line of the client to be removed from the blacklist.



**Step 4** Click **OK**.



**---End**

The client is removed from the blacklist. It can access the network upon the next connection.

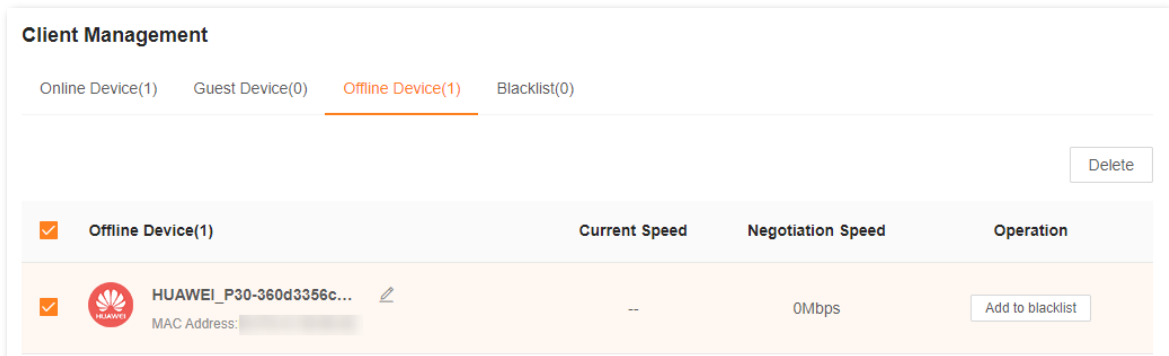
## 8.5 Delete an offline client

You can delete any offline client that is connected to the network before.


To delete an offline client:

**Step 1** [Log in to the web UI](#), and navigate to **Client Management**.

**Step 2** Click **Offline Device**, select the offline client to be deleted, and click **Delete** on the upper right corner of **Offline Device**.



The screenshot shows the 'Client Management' interface. At the top, there are four tabs: 'Online Device(1)', 'Guest Device(0)', 'Offline Device(1)', and 'Blacklist(0)'. The 'Offline Device(1)' tab is selected and underlined. In the top right corner of the main content area, there is a 'Delete' button. Below the tabs is a table with the following structure:

<input checked="" type="checkbox"/>	Offline Device(1)	Current Speed	Negotiation Speed	Operation
<input checked="" type="checkbox"/>	 HUAWEI_P30-360d3356c... MAC Address: [REDACTED]	--	0Mbps	<input type="button" value="Add to blacklist"/>



TIP

The deleted client can be displayed in the device list again upon its next network access.

---End

The client you selected is removed from the device list.

# 9 Parental control

This function allows you to configure various parental control rules to control access to certain websites or block certain clients from accessing the internet.

This chapter includes the following sections:

- [Create a parental control rule](#)
- [Other operations on the parental control rules](#)

## 9.1 Create a parental control rule

### 9.1.1 Add a parental control rule

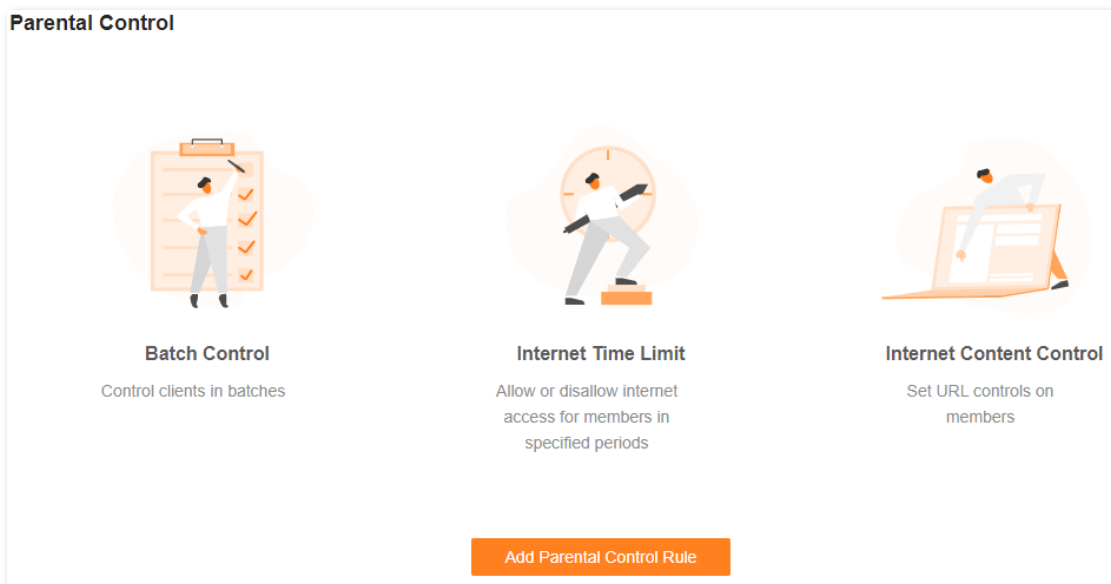


- The blacklist rule prevails when conflicting with the parent control rule.
- A maximum of 10 rules can be added.
- A maximum of 30 clients can be controlled.

To add a parental control rule:

**Step 1** [Log in to the web UI](#), and navigate to **Parental Control**.

- If you did not add a parental control rule before, the following page is displayed.



- If you have added parental control rules before, the following page is displayed.

Group Name	Control Period	URL Filter	Parental Control	Operation
Blacklist1	06:00-22:00 Mon. ~ Sun.	Disallowed facebook	<input checked="" type="checkbox"/>	

**Step 2** Click **Add Parental Control Rule** or .

**Step 3** Set the parameters as required.



A maximum of 10 control periods and 10 URLs can be added.

**Add Parental Control Rule**
✕

**Client**

Group Name

Selected clients +

**Control Period**

Internet Access  🕒 Mon. ✕ +6 ▼

Add control period

**URL Filter**

Filter mode  Only block access to listed URLs  
 Only allow access to listed URLs

URL

Add URL

Cancel
Save

**Step 4** Click **Save**.

---End

The parental control rule that you set is displayed on the **Parental Control** page.

The following table describes the parameters under **Add Parental Control Rule**.

#### Parameter description

Parameter	Description
Group Name	Specifies the name of the client group that the parental control rule applies to.
Selected clients	Specifies the clients that the parental control rule applies to.
Control Period	<p>Specifies whether the parental control rule takes effect.</p> <ul style="list-style-type: none"> <li>• When it is enabled, internet access is allowed only in the period specified by <b>Internet Access</b>.</li> <li>• When it is disabled, internet access is allowed all the time.</li> </ul>



Parameter	Description
Internet Access	Required when the <b>Control Period</b> function is enabled. It specifies the period during which the client can access the internet.
Add control period	Available when the <b>Control Period</b> function is enabled. If you want to set multiple periods, click this button.
URL Filter	Specifies whether the URL filter rule is applied. <ul style="list-style-type: none"> <li>When it is enabled, <b>Filter mode</b> and <b>URL</b> must be set. The parental control rule takes effect on specific websites.</li> <li>When it is disabled, the URL filter rule is not applied.</li> </ul>
Filter mode	Required when <b>URL Filter</b> is enabled. Two modes are available here. <ul style="list-style-type: none"> <li><b>Only block access to listed URLs:</b> The <b>Selected clients</b> are only blocked from accessing the websites specified by <b>URL</b>.</li> <li><b>Only allow access to listed URLs:</b> The <b>Selected clients</b> can only access the websites specified by <b>URL</b>.</li> </ul>
URL	Specifies the websites that the <b>Selected clients</b> are blocked from accessing or allowed to access.
Add URL	Available when <b>URL Filter</b> is enabled. If you want to set multiple URLs, click this button.

## 9.1.2 Example of adding parental control rules

**Scenario:** The final exam for your kid is approaching and you want to configure your kid's internet access through the router.

**Goal:** Your kid cannot access such websites as Facebook, Twitter, Youtube and Instagram from 8:00 to 22:00 on weekends and cannot access the internet at all between 22:00 to 8:00 on weekends using the computer at home.

**Solution:** You can configure a parental control rule to reach the goal.

To add such a rule:

**Step 1** [Log in to the web UI](#), and navigate to **Parental Control**.

**Step 2** Click **Add Parental Control Rule** or .

**Step 3** Set **Group Name**, for example, **Parental control rule 1**.

**Step 4** Click  beside **Selected clients**.

The following dialog box is displayed.




- Step 5** Select the clients to which this parental control rule is applied, and click **Save**.
- Step 6** Enable the **Control Period** function.
- Step 7** Specify the period during which the target websites are blocked, which is **08:00** to **22:00** on weekends in this example.
1. Click the left field to set **Start Time** to **08:00** and **End Time** to **22:00**.
  2. Select **Sat.** and **Sun.** from the right drop-down list box.

- Step 8** Enabled the **URL Filter** function.
- Step 9** Select **Only block access to listed URLs** for **Filter mode**.
- Step 10** Enter **Facebook**, **Twitter**, **Youtube**, and **Instagram** for URL.

**Step 11** Click **Save**.

**---End**

The following page is displayed, and your kid can access any websites except for Facebook, Twitter, Youtube and Instagram from 8:00 to 22:00 on weekends and cannot access the internet at all between 22:00 to 8:00 on weekends.

Parental Control <span style="float: right;">+</span>				
Group Name	Control Period	URL Filter	Parental Control	Operation
Parental control rule 1 	08:00-22:00 Sat., Sun.	Disallowed Facebook, Twitter, Youtube, Instagram	<input checked="" type="checkbox"/>	 

## 9.2 Other operations on the parental control rules

By default, a parental control rule is enabled after you added it successfully, as shown in the following figure. You can disable, modify or delete a parental control rule after [logging in to the web UI](#) of the router and choosing **Parental Control**.

Group Name	Control Period	URL Filter	Parental Control	Operation
Parental control rule 1	08:00-22:00 Sat., Sun.	Disallowed Facebook, Twitter, Youtube, Instagram	<input checked="" type="checkbox"/>	

The following table describes the parameters under **Parental Control**.

### Parameter description

Parameter	Description
Group Name	Specifies the name of the client group that the parental control rule applies to. You can change the group name by clicking  beside it.
Control Period	Specifies the period during which the parental control rule takes effect.
URL Filter	Specifies the websites that are allowed or disallowed to be accessed by the client group. If <b>Unlimited</b> is displayed, website access is not limited.
Parental Control	Used to enable or disable the parental control rule.
Operation	The available options include: : Used to edit a parental control rule. : Used to delete a parental control rule.

# 10 More

This chapter describes other settings you may need when using the router, including:

- [Overall router information](#)
- [Guest Wi-Fi](#)
- [Working mode](#)
- [IPv6](#)
- [TR069](#)
- [Smart power saving](#)
- [Advanced Wi-Fi settings](#)
- [Network settings](#)
- [Other advanced settings](#)
- [System settings](#)

## 10.1 Overall router information

On this page, you can view the information of the router, including [Basic information](#), [WAN port information](#), [LAN information](#) and [IPv6 status](#).

To view the information about the router, [log in to the web UI](#), and navigate to **More > Router Info**.

### 10.1.1 Basic information

Basic Info	
System Time	2021-01-06 16:58:49
Runtime	5minute(s)
Firmware Version	V1.0.0.1
Hardware Version	V1.0

In this part, you can view basic information about the router, as described in the following table.

#### Parameter description

Parameter	Description
System Time	Specifies the current system time.
Runtime	Specifies the network connection time of the router.
Firmware Version	Specifies the firmware version of the router.
Hardware Version	Specifies the hardware version of the router.

## 10.1.2 WAN port information



This part is displayed only in router mode.

WAN Port Info	
Internet Connection Status	Connected
Internet Connection Type	PPPoE
Connected time	19minute(s)
IP Address	172.16.200.45
Subnet Mask	255.255.255.255
Default gateway	172.16.200.1
Primary DNS	114.114.114.114
Secondary DNS	223.5.5.5
MAC Address	██████████

In this part, you can view WAN port information of the router, as described in the following table.

### Parameter description

Parameter	Description
Internet Connection Status	Specifies the internet connection status of the WAN port.
Internet Connection Type	Specifies the internet connection type of the WAN port. <b>PPPoE</b> is used as an example here.
Connected time	Specifies the internet connection time of the router.
IP Address	Specifies the WAN IP address of the router.
Subnet Mask	Specifies the WAN subnet mask of the router.
Default gateway	Specifies the gateway IP address of the router.
Primary DNS	Specify the IP addresses of the primary and secondary DNS servers of the router.
Secondary DNS	
MAC Address	Specifies the WAN MAC address of the router.

### 10.1.3 LAN information

LAN Info	
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
MAC Address	XXXXXXXXXX
<b>2.4 GHz WiFi</b>	
Status	Visible
Wi-Fi Name	Tenda_81B787
Security	WPA2-PSK (Recommended)
Channel	10
Bandwidth	20
MAC Address	XXXXXXXXXX
<b>5 GHz WiFi</b>	
Status	Visible
Wi-Fi Name	Tenda_81B787_5G
Security	WPA2-PSK (Recommended)
Channel	36
Bandwidth	80
MAC Address	XXXXXXXXXX

In this part, you can view LAN information of the router, as described in the following table.

#### Parameter description

Parameter	Description
IP Address	Specifies the LAN IP address of the router, which is also the IP address for logging in to the web UI of the router.
Subnet Mask	Specifies the LAN subnet mask of the router.
MAC Address	Specifies the LAN MAC address of the router.
Status	Specifies the visibility of the Wi-Fi network.
Wi-Fi Name	Specifies the Wi-Fi name of the respective Wi-Fi network.
Security	Specifies the security mode of the respective Wi-Fi network.
Channel	Specifies the channel that the respective Wi-Fi network works in.
Bandwidth	Specifies the bandwidth of the respective Wi-Fi network.
MAC Address	Specifies the MAC address of the respective Wi-Fi network.



## 10.1.4 IPv6 status

IPv6 Status	
Connection Type	DHCP
IPv6 WAN Address	
Default IPv6 Gateway	--
Primary IPv6 DNS	--
Secondary IPv6 DNS	--
IPv6 LAN Address	

This part is only displayed when the IPv6 function is enabled. You can view the information on IPv6 connection, including connection type, IPv6 WAN address and IPv6 LAN address.

Parameter	Description
Connection Type	Specifies the IPv6 connection type of the router.
IPv6 WAN Address	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.
Default IPv6 Gateway	Specifies the default IPv6 gateway of IPv6 network.
Primary IPv6 DNS	Specify the primary and secondary DNS server addresses of IPv6 network.
Secondary IPv6 DNS	
IPv6 LAN Address	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.

## 10.2 Guest Wi-Fi

### 10.2.1 Overview

In this module, you can enable or disable the guest network function and change the Wi-Fi names 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 is 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 **Guest WiFi**. This function is disabled by default. The following figure shows the **Guest WiFi** page with the **Guest WiFi** function enabled.

#### Guest WiFi

Clients connecting to the guest network can only access the internet and communicate with other clients under the guest network.

---

Guest WiFi

2.4 GHz WiFi Name

5 GHz WiFi Name

WiFi Password  🔒

Validity  ▼

Shared Bandwidth  ▼

#### Parameter description

Parameter	Description
Guest WiFi	Used to enable or disable the guest network function.
2.4 GHz WiFi Name	Specify the Wi-Fi names of the router's guest networks. By default, <b>Guest WiFi</b> is for the 2.4 GHz Wi-Fi network and <b>Guest WiFi 5G</b> is for the 5 GHz Wi-Fi network.
5 GHz WiFi Name	You can change the Wi-Fi names (SSIDs) as required. To distinguish the guest network from the main network, you are recommended to set different Wi-Fi network names.

Parameter	Description
WiFi Password	Specifies the password for the router's two guest networks. It is optional and can be left blank.
Validity	Specifies the validity period of the guest networks. The guest network function will be disabled automatically out of the validity period.
Shared Bandwidth	Allows you to specify the maximum upload and download speed for all clients connected to the guest networks. By default, the bandwidth is <b>Unlimited</b> .

## 10.2.2 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 use the guest networks.

Assume that:

- 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: **Tenda+245**.
- Shared bandwidth for guests: **8 Mbps**

To achieve such a goal:

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

**Step 2** Navigate to **More > Guest WiFi**.

**Step 3** Enable the **Guest WiFi** function.

**Step 4** Set **2.4 GHz WiFi Name**, which is **John\_Doe** in this example.

**Step 5** Set **5 GHz WiFi Name**, which is **John\_Doe\_5G** in this example.

**Step 6** Set **WiFi Password**, which is **Tenda+245** in this example.

**Step 7** Select a validity period from the **Validity** drop-down box, which is **8 hours** in this example.

**Step 8** Set the bandwidth in the **Shared Bandwidth** drop-down box, which is **8 Mbps** in this example.

**Step 9** Click **Save**.

During the 8 hours after the configuration, guests can connect their WiFi-enabled devices, such as smartphones, to **John\_Doe** or **John\_Doe\_5G** to access the internet and enjoy the shared bandwidth of 8 Mbps.

**---End**

## 10.3 Working mode

You can select a working mode for the router on this page. The router can work in the router mode, access point (AP) mode and Client+AP mode. **Current Mode** is displayed after the working mode currently adopted by the router, as shown in the following figure. In this example, the current working mode is router mode.


### Working Mode

You can select a working mode for your router based on your scenario.

---

#### Router Mode


Transform the wired network provided by ISP to WiFi signals for family users to share the internet.



---

#### AP Mode


The router serves as an AP, and connects to the upstream device using an Ethernet cable to expand WiFi coverage. Under this mode, some functions are not supported. Please refer to the page.



---

#### Client+AP Mode

Expand any WiFi network easily.



You can select a working mode based on the following scenarios:

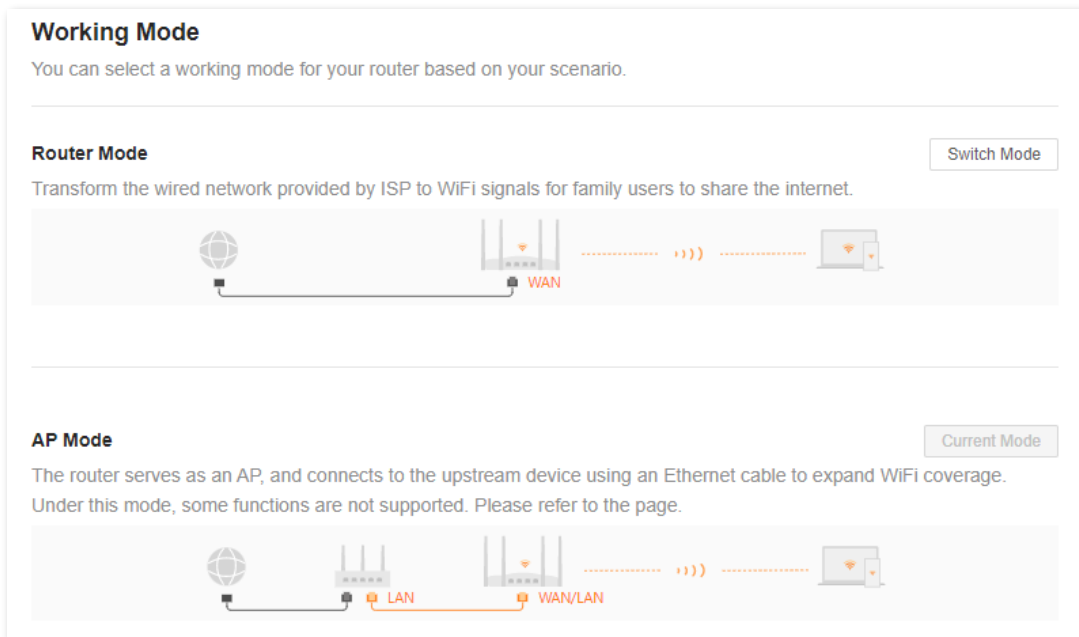
- To specify the network connection mode, select the [router mode](#).
- To use an upstream router, select the [AP mode](#).
- To bridge all kinds of Wi-Fi networks, select the [Client+AP mode](#).

## 10.3.1 Router mode

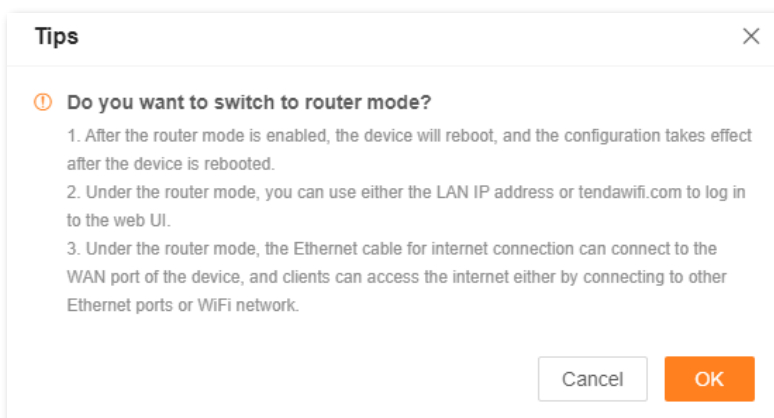
By default, the router works in router mode. All functions are available in this mode.

To switch the working mode from the other modes to router mode:

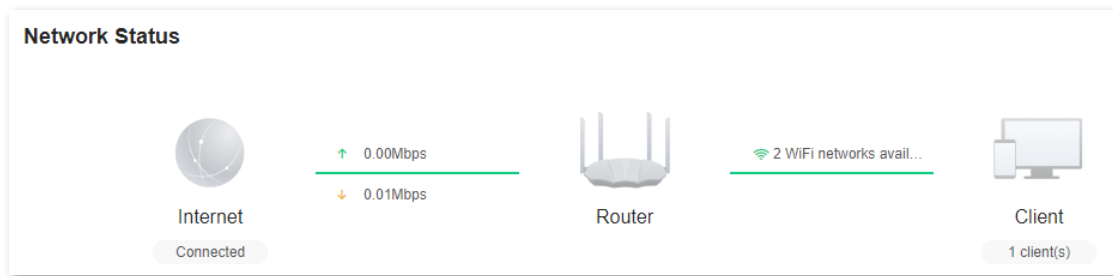
- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **More > Working Mode.**
- Step 3** Click **Switch mode.**



- Step 4** Click **OK** and wait until the device is restarted.



**Step 5** [Log in to the web UI](#) of the router again, and navigate to **Network Status** to check whether the router mode is configured successfully as shown below.



---End

## 10.3.2 AP mode

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



TIP

When the router is set to AP mode:

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

To switch the working mode to AP mode:



TIP

If you have finished the quick setup wizard before, start a web browser and visit **tendawifi.com** on a connected client, then start from **Step 3**.

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

**Step 2** Navigate to **More > Working Mode**.

**Step 3** Click **Switch mode** after **AP Mode**.

**Working Mode**  
You can select a working mode for your router based on your scenario.

---

**Router Mode** Current Mode  
Transform the wired network provided by ISP to WiFi signals for family users to share the internet.



---

**AP Mode** Switch Mode  
The router serves as an AP, and connects to the upstream device using an Ethernet cable to expand WiFi coverage. Under this mode, some functions are not supported. Please refer to the page.

**Step 4** Click **OK**, and wait until the device is restarted.

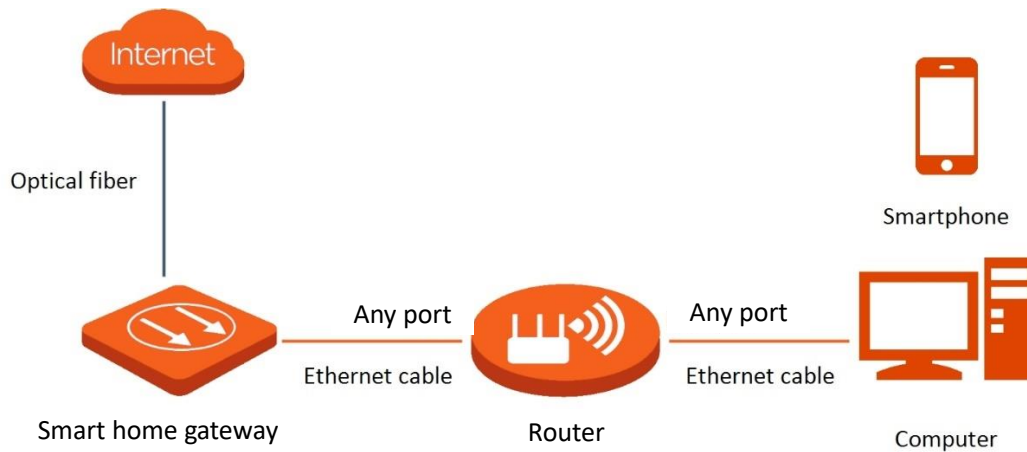
**Tips** ✕

**ⓘ Do you want to switch to AP mode?**

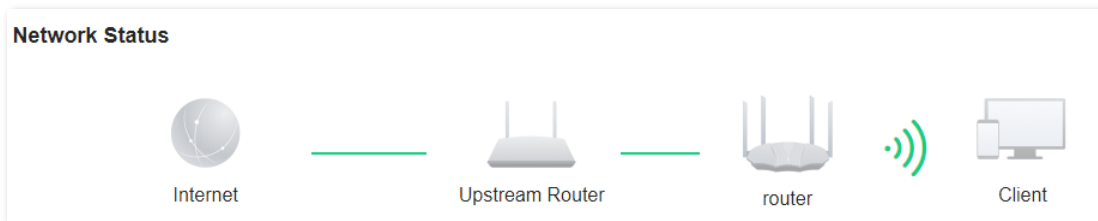
1. After the AP mode is enabled, the device will reboot, and the configuration takes effect after the device is rebooted.
2. Under the AP mode, some functions are unavailable, such as Internet Settings, Parental Control, VPN, and Port Mapping.
3. Under the AP mode, all Ethernet ports are LAN ports, and you can connect the device to the upstream device using any Ethernet port.
4. Under the AP mode, please visit [tendawifi.com](http://tendawifi.com) to log in to the web UI.

Cancel OK

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



**Step 6** [Log in to the web UI](#) of the router again, and navigate to **Network Status** to check whether the AP mode is configured successfully as shown below.



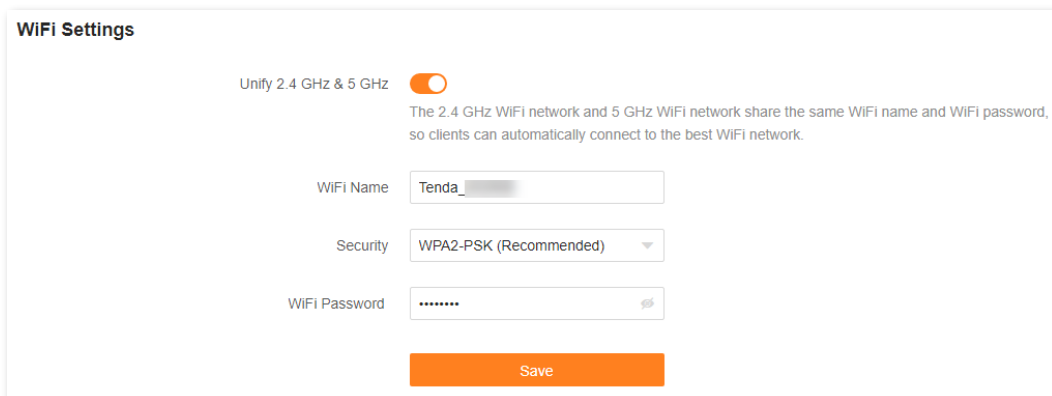
---End

#### NOTE

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

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

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







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

- Ensure that the original router is connected to the internet successfully.
- Ensure that your WiFi-enabled clients are connected to the correct Wi-Fi network of the 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.

### 10.3.3 Client+AP mode

When there is already a router with internet access at your home, you can refer to the configurations in this part to extend any type of Wi-Fi network.

To switch the working mode to Client+AP mode:



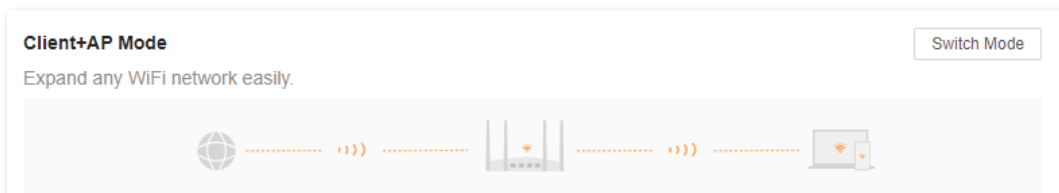
- Some functions will be unavailable. Refer to the web UI for available functions.
- If you have finished the quick setup wizard before, start a web browser and visit **tendawifi.com** on a connected client, then start from [Step 4](#).
- Do not connect any device to the WAN port of the new router.

**Step 1** Place the new router near the original router and power it on.

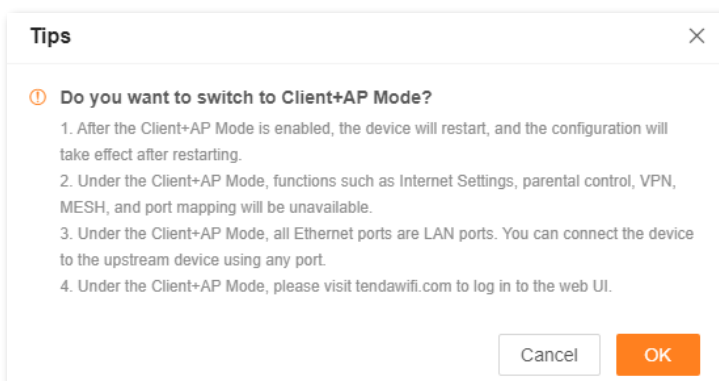
**Step 2** [Log in to the web UI](#) of the new router.

**Step 3** Navigate to **More > Working Mode**.

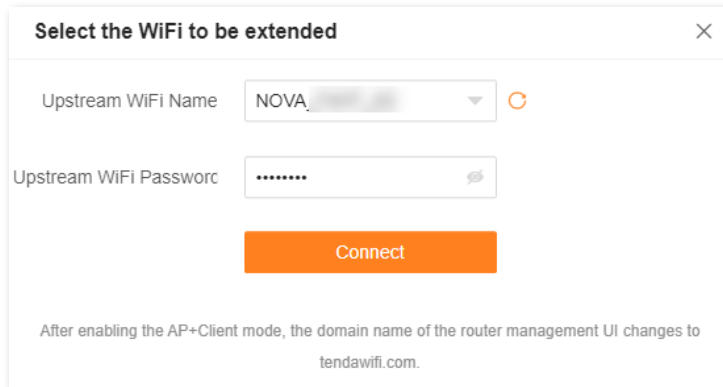
**Step 4** Click **Switch mode** after **Client+AP Mode**.



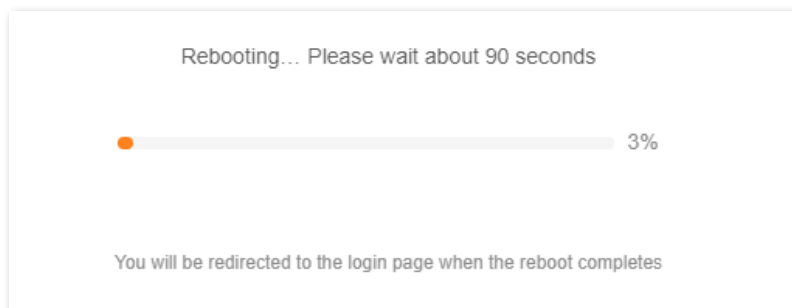
**Step 5** Click **OK**.



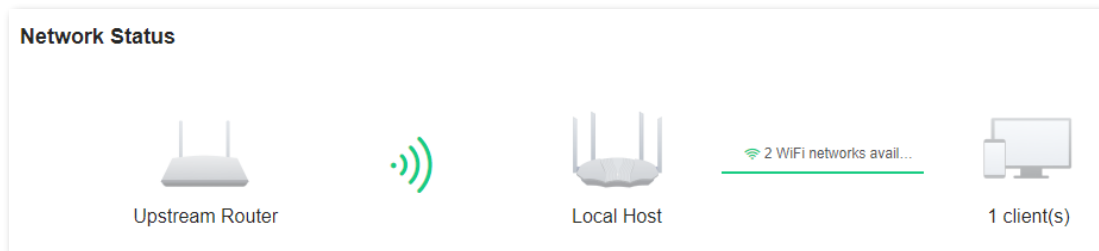
- Step 6** Select the Wi-Fi to be extended from the **Upstream WiFi Name** drop-down list box, set **Upstream WiFi Password**, and click **Connect**.



- Step 7** Wait until the device is restarted.



- Step 8** [Log in to the web UI](#) of the router again, and navigate to **Network Status** to check whether the Client+AP mode is configured successfully as shown below.



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

- Ensure that you have entered the correct Wi-Fi password of the Wi-Fi network, and mind case sensitivity.
- Ensure that **Router** is within the wireless coverage of the **Upstream router**.

**Step 9** Relocate the new router by referring to the following suggestions and power it on.

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



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

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

---End

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

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

The screenshot shows the 'WiFi Settings' page. At the top, there is a toggle switch for 'Unify 2.4 GHz & 5 GHz' which is turned on. Below this, a text box explains: 'The 2.4 GHz WiFi network and 5 GHz WiFi network share the same WiFi name and WiFi password, so clients can automatically connect to the best WiFi network.' The 'WiFi Name' field contains 'Tenda\_'. The 'Security' dropdown menu is set to 'WPA2-PSK (Recommended)'. The 'WiFi Password' field is masked with dots. At the bottom, there is an orange 'Save' button.



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

- Ensure that the original router is connected to the internet successfully.
- Ensure that your Wi-Fi-enabled devices are connected to the 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.

## 10.4 IPv6



This function is only available in router mode.

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

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

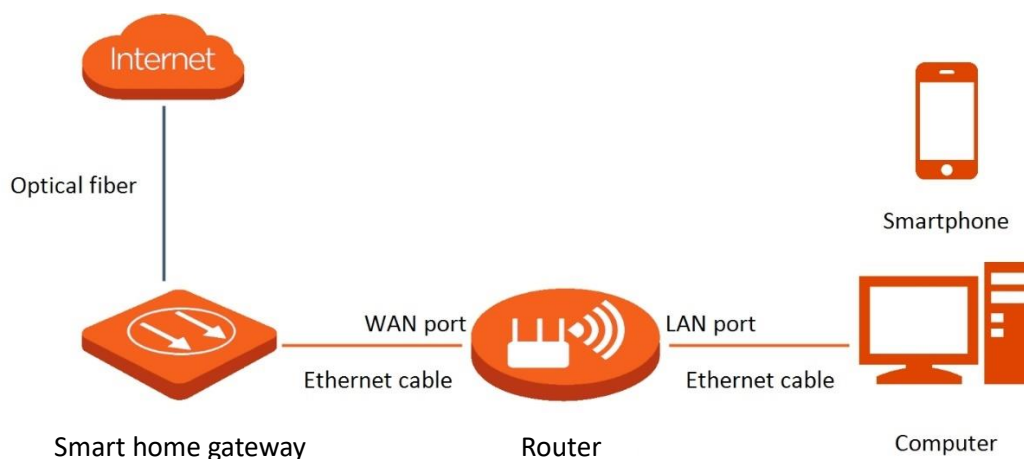


Before configuring the IPv6 function, ensure that you are within the coverage of the IPv6 network and already subscribed to the IPv6 internet service. Contact your ISP for any doubt about it.

### 10.4.1 DHCPv6

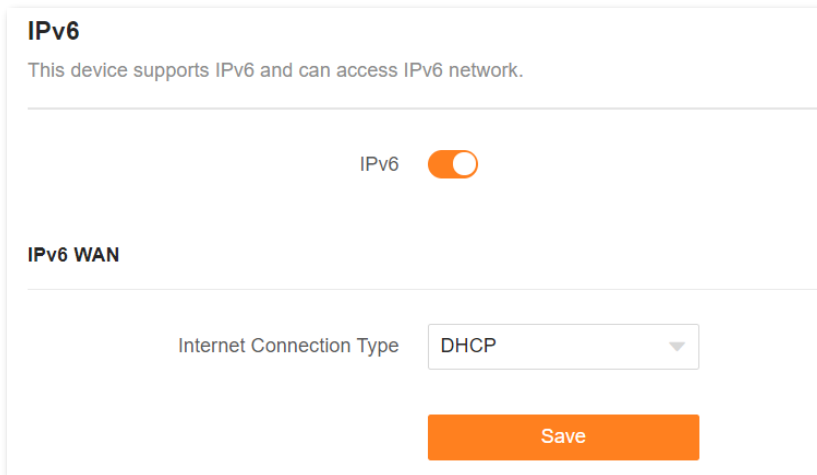
DHCPv6 enables the router to obtain an IPv6 address from the DHCPv6 server to access the internet. It is applicable in the following scenarios:

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



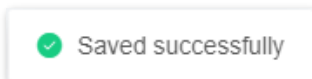
**Configuration procedure:**

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **More > IPv6**.
- Step 3** Enable the **IPv6** function.
- Step 4** Set **Internet Connection Type** to **DHCP**.
- Step 5** Click **Save**.



---End

The following message is displayed, indicating that the settings are saved successfully.

**Verification:**

You can ping an IPv6 website (**240c::6666** for example) to check whether the router accesses the IPv6 network successfully. The following steps are for your reference.

- Step 1** On a computer connected to the router, press **Windows + R** to open the **Run** dialog box.
- Step 2** Type **cmd** and then click **OK** to open a regular Command Prompt.
- Step 3** Enter **ping 240c::6666** and press **Enter**.

---End

As shown in the following figure, if the number of packets received is not 0, the router accesses the IPv6 network successfully.

```

C:\Users\user>ping 240c::6666

Pinging 240c::6666 with 32 bytes of data:
Reply from 240c::6666 bytes=32 time<1ms TTL=128
Reply from 240c::6666 bytes=32 time<1ms TTL=128
Reply from 240c::6666 bytes=32 time<1ms TTL=128
Reply from 240c::6666 bytes=32 time<1ms TTL=128

Ping statistics for 240c::6666 :
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

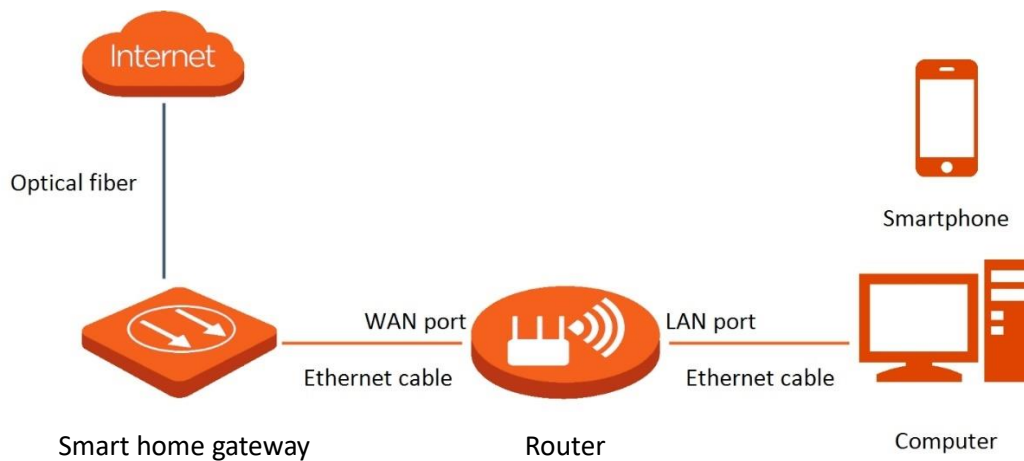
```

If the IPv6 network fails, try the following solutions:

- Ensure that clients connected to the router obtain their IPv6 address through DHCPv6.
- Consult your ISP for help.

## 10.4.2 PPPoEv6

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



### Configuration procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **More > IPv6**.
- Step 3** Enable the **IPv6** function.
- Step 4** Set **Internet Connection Type** to **PPPoEv6**.
- Step 5** Set **PPPoE Username** and **PPPoE Password** provided by your ISP, and click **Save**.

### IPv6

This device supports IPv6 and can access IPv6 network.

---

IPv6

---

#### IPv6 WAN

Internet Connection Type

PPPoE Username

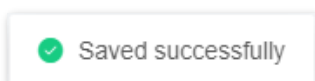
PPPoE Password

---End

## Parameter description

Parameter	Description
PPPoE Username	Specify the PPPoE user name and password provided by your ISP.
PPPoE Password	<div style="display: flex; align-items: center;"> <span style="font-size: small; color: #e67e22;">TIP</span> </div> IPv4 and IPv6 services share the same PPPoE account.

The following message is displayed, indicating that the settings are saved successfully.



## Verification:

You can ping an IPv6 website (**240c::6666** for example) to check whether the router accesses the IPv6 network successfully. The following steps are for your reference.

- Step 1** On a computer connected to the router, press **Windows + R** to open the **Run** dialog box.
- Step 2** Type **cmd** and then click **OK** to open a regular Command Prompt.
- Step 3** Enter **ping 240c::6666** and press **Enter**.

---End

As shown in the following figure, if the number of packets received is not 0, the router accesses the IPv6 network successfully.

```

C:\Users\user>ping 240c::6666
Pinging 240c::6666 with 32 bytes of data:
Reply from 240c::6666 bytes=32 time<1ms TTL=128
Reply from 240c::6666 bytes=32 time<1ms TTL=128
Reply from 240c::6666 bytes=32 time<1ms TTL=128
Reply from 240c::6666 bytes=32 time<1ms TTL=128

Ping statistics for 240c::6666 :
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss):
    Approximate round trip times in milliseconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

```

If the IPv6 network fails, try the following solutions:

- Ensure that clients connected to the router obtain their IPv6 address through DHCPv6.
- Consult your ISP for help.

### 10.4.3 Static IPv6 address

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.

**Configuration procedure:**

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **More > 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**.
- Step 6** Click **Save**.

**IPv6 WAN**

---

Internet Connection Type Static IPv6 Address ▼

IPv6 Address  /

Default IPv6 Gateway

Primary IPv6 DNS


Secondary IPv6 DNS

---End

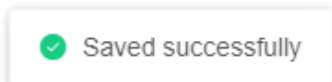
#### Parameter description

Parameter	Description
IPv6 Address	Specify the fixed IPv6 address information provided by your ISP.



Parameter	Description
Default IPv6 Gateway	 <b>TIP</b>
Primary IPv6 DNS	If your ISP only provides one DNS address, leave the secondary IPv6 DNS blank.
Secondary IPv6 DNS	

The following message is displayed, indicating that the settings are saved successfully.



### Verification:

You can ping an IPv6 website (**240c::6666** for example) to check whether the router accesses the IPv6 network successfully. The following steps are for your reference.

**Step 1** On a computer connected to the router, press **Windows + R** to open the **Run** dialog box.

**Step 2** Type **cmd** and then click **OK** to open a regular Command Prompt.

**Step 3** Enter **ping 240c::6666** and press **Enter**.

**---End**

As shown in the following figure, if the number of packets received is not 0, the router accesses the IPv6 network successfully.

```
C:\Users\user>ping 240c::6666
Pinging 240c::6666 with 32 bytes of data:
Reply from 240c::6666 bytes=32 time<1ms TTL=128
Reply from 240c::6666 bytes=32 time<1ms TTL=128
Reply from 240c::6666 bytes=32 time<1ms TTL=128
Reply from 240c::6666 bytes=32 time<1ms TTL=128

Ping statistics for 240c::6666 :
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss):
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

If the IPv6 network fails, try the following solutions:

- Ensure that clients connected to the router obtain their IPv6 address through DHCPv6.
- Consult your ISP for help.

## 10.5 TR069

This function is only available in RX1 Pro&TX1 Pro.

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

To access the configuration page, [log in to the web UI](#) of the router and navigate to **More > TR069**.

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

### TR069

---

TR069

### ACS

---

URL

ACS Username

ACS Password

Periodic Notification

Notification Interval

### Connection Request

---

Connection Request Username

Connection Request Password

Port

### STUN Connection

---

STUN

### Parameter description

Parameter	Description
TR069	Used to enable or disable the TR069 function.

Parameter	Description
URL	Specifies the domain name of the ACS.
ACS Username	Specify the user name and password used to authenticate the router when the router connects to the ACS using the TR069 protocol.
ACS Password	
Periodic Notification	Used to enable or disable the periodic notification function, which enables the router to send messages to the ACS at interval specified by <b>Notification Interval</b> .
Notification Interval	Specifies the interval at which the router sent messages to the ACS. This parameter is required only when <b>Periodic Notification</b> is enabled.
Connection Request Username	Specify the user name and password used to authenticate the ACS when it sends connection requests to the router.
Connection Request Password	
Port	Specifies the port used to receive connection requests sent by the ACS.
STUN	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	Specifies the IP address of the STUN server. This parameter is required only when <b>STUN</b> is enabled.
STUN Server Port	Specifies the port of the STUN server. This parameter is required only when <b>STUN</b> is enabled.

## 10.6 Smart power saving

You can turn off the LED indicators of all nodes as required to save power. By default, all the indicators are turned on.

To configure the power saving mode:

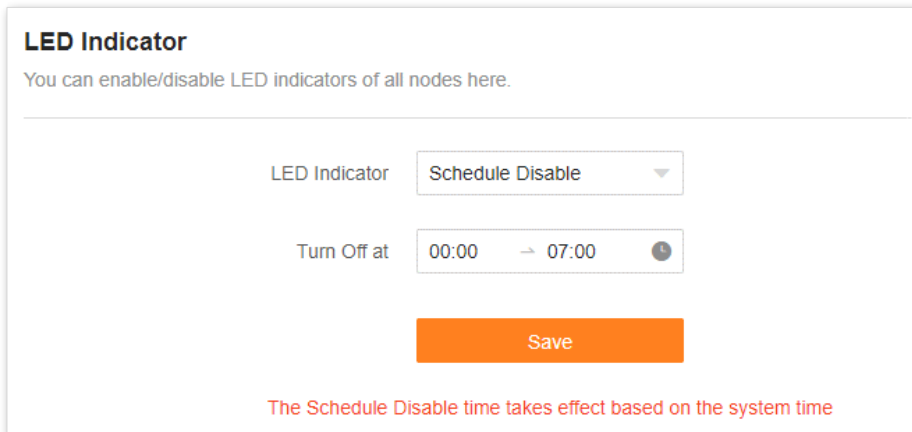
**Step 1** [Log in to the web UI.](#)

**Step 2** Navigate to **More > Smart Power Saving > LED Indicator.**

**Step 3** Set **LED Indicator** as required.

- To turn on all indicators, select **Enable**.
- To turn off all indicators all the time, select **Disable**.
- To turn off all indicators in a specific period, select **Schedule Disable** and set **Turn Off at** to the required period.

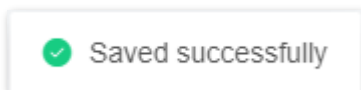
**Step 4** Click **Save**.



The screenshot shows the 'LED Indicator' configuration page. At the top, it says 'LED Indicator' and 'You can enable/disable LED indicators of all nodes here.' Below this, there are two main settings: 'LED Indicator' with a dropdown menu set to 'Schedule Disable', and 'Turn Off at' with a time range of '00:00' to '07:00' and a clock icon. A large orange 'Save' button is centered below these settings. At the bottom, a red note states: 'The Schedule Disable time takes effect based on the system time'.

---End

The following message is displayed, indicating that the settings are saved successfully.



## 10.7 Advanced Wi-Fi settings

### 10.7.1 Channel & bandwidth

In this section, you are allowed to change the network mode, Wi-Fi channel, and Wi-Fi 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 navigate to **More > WiFi Settings > Channel & Bandwidth**.

**TIP**

To ensure the wireless performance, it is recommended to maintain the default settings on this page without professional instructions.

#### Channel & Bandwidth

You can modify the advanced parameters of the WiFi network here, such as Network Mode, Channel, and Bandwidth. If no professional guidance is available, you are recommended to keep the default settings to prevent the performance from being weakened.

##### 2.4 GHz WiFi

Network Mode

Channel

Current Channel:1

Bandwidth

Current Bandwidth:20

##### 5 GHz WiFi

Network Mode

Channel

Current Channel:48

Bandwidth

Current Bandwidth:80

Save

The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description
Network Mode	<p>Specifies various protocols used for wireless transmission.</p> <p>2.4 GHz Wi-Fi network supports the 802.11b/g/n Mixed mode.</p> <ul style="list-style-type: none"> <li>• <b>802.11b/g/n</b>: Indicates that devices compliant with the IEEE 802.11b or IEEE 802.11g protocol, and devices working at 2.4 GHz and compliant with the IEEE 802.11n can connect to the 2.4 GHz Wi-Fi network of the router.</li> </ul> <p>5 GHz Wi-Fi network supports the 802.11a/n Mixed, 802.11a/n/ac Mixed and 802.11a/n/ac/ax Mixed modes.</p> <ul style="list-style-type: none"> <li>• <b>802.11a/n</b>: Indicates that devices compliant with the IEEE 802.11a protocol, and devices working at 5 GHz and compliant with the IEEE 802.11n can connect to the router.</li> <li>• <b>802.11a/n/ac</b>: Indicates that devices compliant with the IEEE 802.11a or IEEE 802.11ac protocol, and devices working at 5 GHz and compliant with the IEEE 802.11n can connect to the router.</li> <li>• <b>802.11a/n/ac/ax</b>: Indicates that devices compliant with the IEEE 802.11a or IEEE 802.11ac protocol, and devices working at 5 GHz and compliant with the IEEE 802.11n or IEEE 802.11ax protocol can connect to the router.</li> </ul>
Channel	<p>Specifies the channel in which the Wi-Fi network works.</p> <p>By default, the wireless channel is <b>Auto</b>, 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.</p>
Bandwidth	<p>Specifies the bandwidth of the wireless channel of a Wi-Fi network. Please change the default settings only when necessary.</p> <ul style="list-style-type: none"> <li>• <b>20MHz</b>: Indicates that the channel bandwidth used by the router is 20 MHz.</li> <li>• <b>40MHz</b>: Indicates that the channel bandwidth used by the router is 40 MHz.</li> <li>• <b>20/40MHz</b>: 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.</li> <li>• <b>80MHz</b>: Indicates that the channel bandwidth used by the router is 80 MHz. This option is available only at 5 GHz.</li> <li>• <b>20/40/80MHz</b>: 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.</li> </ul>

## 10.7.2 WPS

The WPS function enables WiFi-enabled devices, such as smartphones, to connect to Wi-Fi networks of the router without entering the Wi-Fi password.

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



TIP

- This function only applies to WPS-enabled Wi-Fi devices. It is enabled by default and cannot be disabled.
- Wi-Fi networks encrypted with WPA3 cannot be connected through WPS.
- The WPS negotiation times out in 120 seconds. The **WPS** button is disabled during WPS negotiation.

To connect devices to the Wi-Fi network using the WPS function:


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

**Step 2** Navigate to **More > WiFi Settings > WPS**.


**Step 3** Click the **WPS** button in the line of the node to which the device is to be connected.

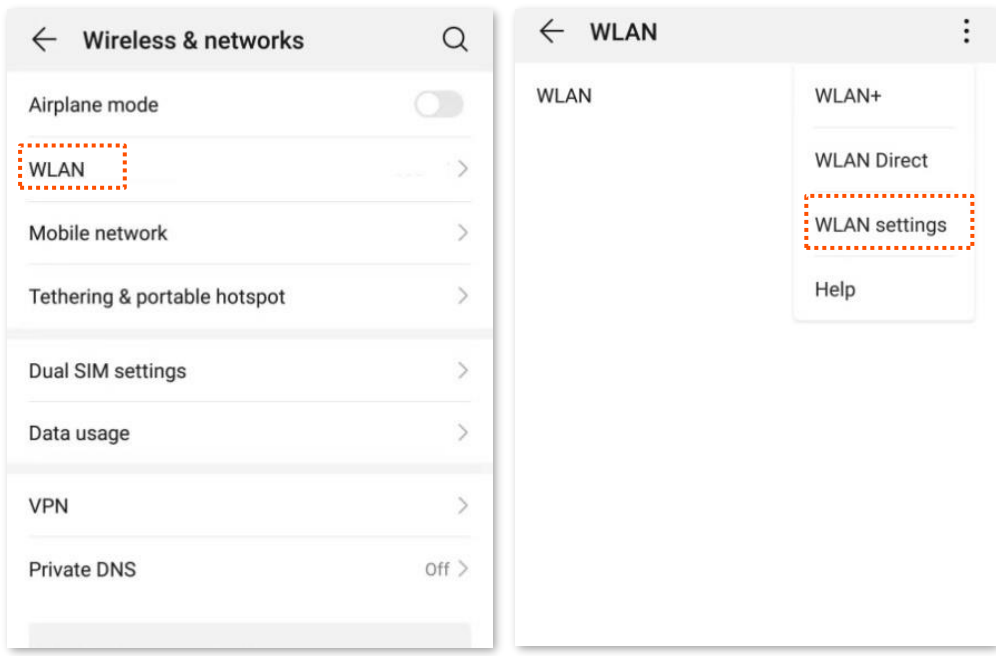
### WPS

With this function enabled, wireless clients, such as mobile phones, can connect to the router's WiFi network of the router easily.

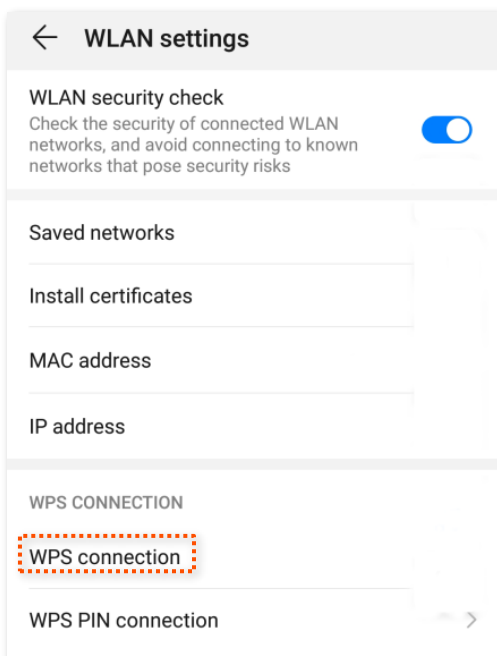
Node Name	Operation
router	

**Step 4** Configure the WPS function on your WiFi-enabled devices **within 2 minutes**. Configuration on various devices may differ (Example: HUAWEI P10).

1. Find **WLAN** settings on your phone.
2. Tap , and choose **WLAN settings**.



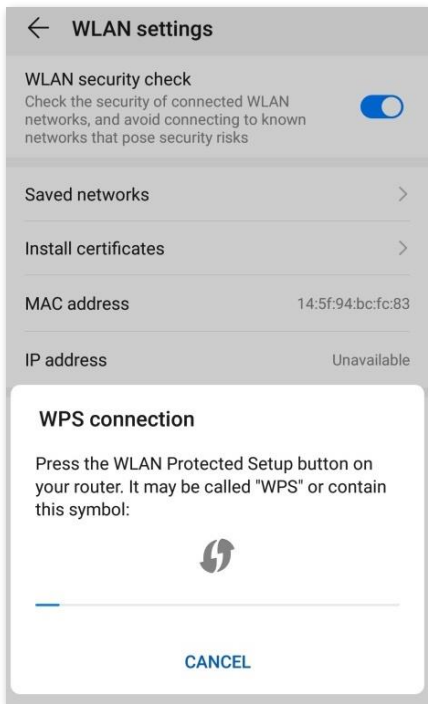
3. Choose **WPS connection**.



---End



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



## 10.8 Network settings

### 10.8.1 LAN Settings

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

#### Overview

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 addresses, subnet masks, gateways 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.
- Assign static IP addresses to LAN clients.

#### LAN Settings

Here, you can modify the Router LAN IP address, subnet mask and DHCP server parameters, and add static IP address rules.

---

LAN IP Address

192.168.0.1

Subnet Mask

255.255.255.0

DHCP Server

Once enabled, the DHCP server automatically assigns internet parameters such as IP address, subnet mask, and gateway address to the terminal device. You are recommended to enable this function.

Address Pool Range

192.168.0.100 - 200

Lease Time ⓘ

1 day ▼

DNS



Save



#### Static IP Reservation List +

Device Name	IP Address	MAC Address	Operation
123	192.168.0.143	XXXXXXXXXX	<span style="font-size: 1em; vertical-align: middle;">✎</span> <span style="font-size: 1em; vertical-align: middle; margin-left: 10px;">🗑</span>

The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description								
LAN IP Address	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	Specifies the subnet mask of the LAN port, used to identify the IP address range of the local area network.								
DHCP Server	Used to enable or disable the DHCP server. Once enabled, the DHCP server automatically assigns internet parameters such as IP address, subnet mask, and gateway address to the terminal device. You are recommended to enable this function.								
Address Pool Range	Specifies the range of IP addresses that can be assigned to clients connected to the router. The default range is 192.168.0.100 to 192.168.0.200.								
Lease Time	<p>Specifies the valid duration of the IP address that is assigned to a client.</p> <p>When the lease time reaches half, the client will send a DHCP Request to the DHCP server for renewal. If the renewal succeeds, the lease is renewed based on the time of the renewal application. If the renewal fails, the renewal process is repeated at 7/8 of the lease period. If it succeeds, the lease is renewed based on the time of the renewal application. If it still fails, the client needs to reapply for IP address information after the lease expires.</p> <p>It is recommended to keep the default value.</p>								
DNS	<p>Specifies whether to allocate another DNS address to the client. When it is disabled, the LAN port IP address of the router is used as the DNS address of the client. When it is enabled, <b>Primary DNS</b> must be set and <b>Secondary DNS</b> is optional.</p> <p> <b>TIP</b></p> <p>This router has the DNS proxy function.</p>								
Primary DNS	<p>Specifies the primary DNS address allocated to the client by the router.</p> <p> <b>TIP</b></p> <p>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.</p>								
Secondary DNS	Specifies the secondary DNS server address of the router used to assign to the clients. It is optional.								
Static IP Reservation List	<table border="1"> <thead> <tr> <th>Device Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td></td> <td>Specifies the name of the client.</td> </tr> <tr> <th>IP Address</th> <th>Description</th> </tr> <tr> <td></td> <td>Specifies the IP address reserved for the client.</td> </tr> </tbody> </table>	Device Name	Description		Specifies the name of the client.	IP Address	Description		Specifies the IP address reserved for the client.
Device Name	Description								
	Specifies the name of the client.								
IP Address	Description								
	Specifies the IP address reserved for the client.								

Parameter	Description
MAC Address	Specifies the MAC address of the client.
Operation	<p>The available options include:</p> <p> : Used to edit a static IP address reservation rule.</p> <p> : Used to delete a static IP address reservation rule.</p>

## Assign a static IP address to a LAN client:

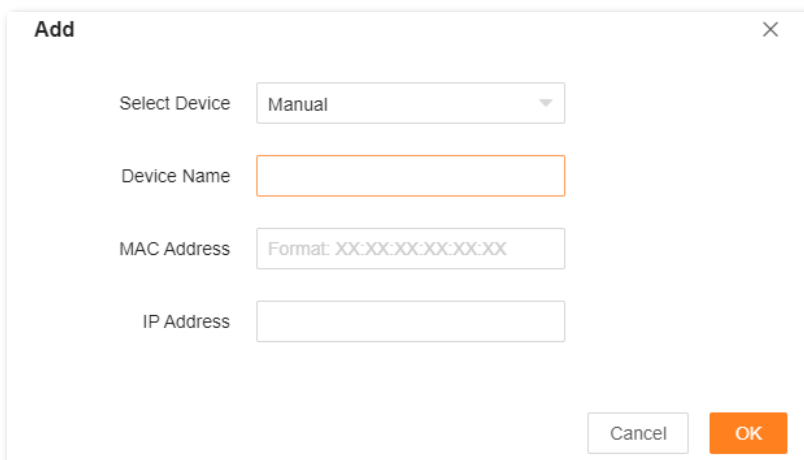
**Step 1** [Log in to the web UI.](#)

**Step 2** Navigate to **More > Network Settings > LAN Settings.**

**Step 3** Click  in **Static IP Reservation List.**

**Step 4** Set **Select Device.**

- You can directly select a client from the drop-down list box, which requires no further settings on **MAC Address** and **IP Address**.
- If you select **Manual**, you need to set **Device Name**, **MAC Address**, and **IP Address** manually.



**Step 5** Click **OK.**

**---End**

The following message is displayed, indicating that the settings are saved successfully.



Saved successfully. The configurations will take effect when the client connects to the WiFi network the next time.

## 10.8.2 IPTV

IPTV is the technology integrating internet, multimedia, telecommunication and many other technologies to provide interactive services, including digital TV, for family users by internet broadband lines.

You can set the multicast and set-top box (STB) functions here.

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

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

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

### IPTV

You can configure multicast and IPTV functions here.

---

Multicast

STB

VLAN

Once enabled, you can watch the multicast video source on the WAN side of the router from your client.

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

The following table describes the parameters displayed on this page.

### Parameter description

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

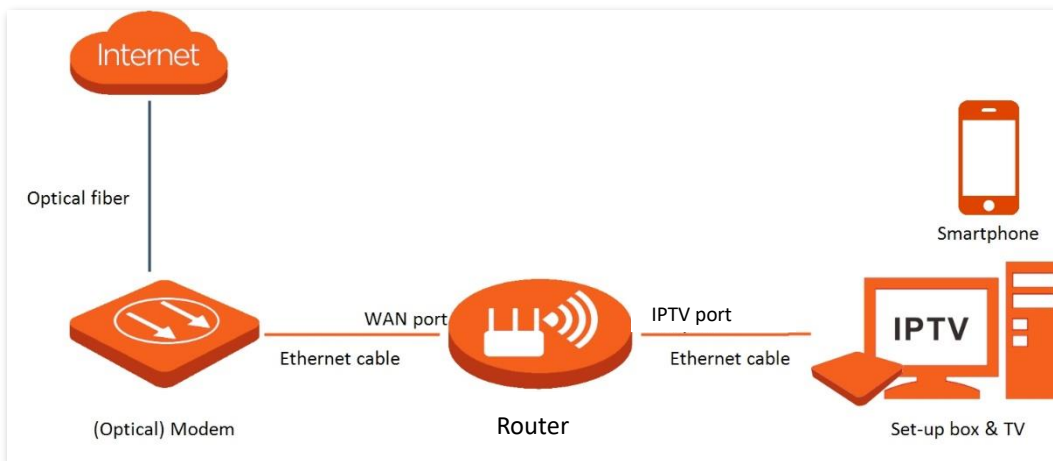
Parameter	Description
VLAN	<p>Specifies the VLAN ID of your IPTV service.</p> <ul style="list-style-type: none"> <li>If your ISP does not provide any VLAN ID information when the IPTV service is available, keep <b>Default</b>.</li> <li>If you have obtained the VLAN ID from your ISP when the IPTV service is available, choose <b>Custom VLAN</b> and enter the VLAN value.</li> </ul>

## 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:** Watch IPTV programs through the router.

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



### Configuration procedure:

**Step 1** Set your router.

1. [Log in to the web UI](#).
2. Navigate to **More > Network Settings > IPTV**.
3. Enable the **STB** function.

4. Click **Save**.

### IPTV

You can configure multicast and IPTV functions here.

Multicast

Once enabled, you can watch the multicast video source on the WAN side of the router from your client.

STB

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

VLAN

**Save**

5. Click **OK**.

### Confirm Operation

ⓘ The device will reboot to make your configurations effective. Continue?

6. Wait until the router is restarted.

Rebooting... Please wait about 90 seconds

2%

You will be redirected to the login page when the reboot completes

**Step 2** Configure the set-top box.

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

**---End**

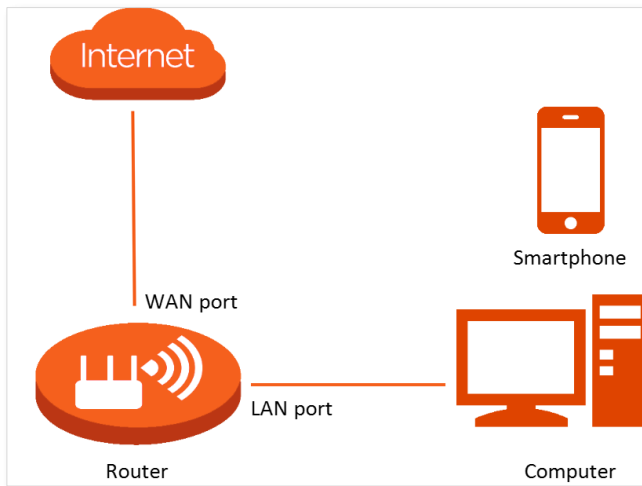
After completing the configuration, you can watch IPTV programs on your TV.

## Watch multicast videos through the router

**Scenario:** You have the address of multicast videos.

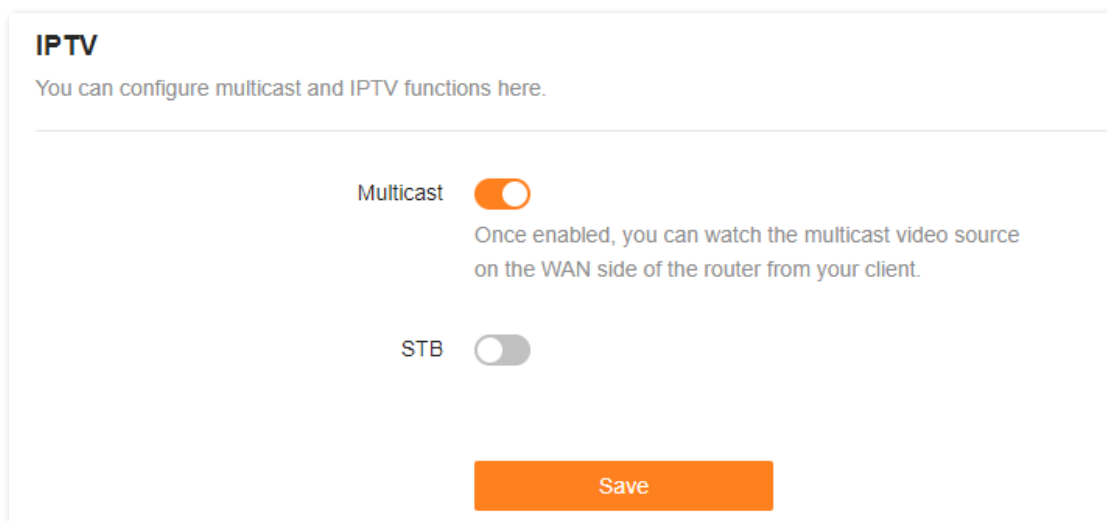
**Goal:** You can watch multicast videos.

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



### Configuration procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **More > Network Settings > IPTV.**
- Step 3** Enable the **Multicast** function.
- Step 4** Click **Save.**



---End

After completing the configuration, you can watch multicast videos on your terminal devices.



### 10.8.3 WAN parameters

When the Ethernet cable is intact and connected to the WAN port properly, but **No Ethernet cable is connected to the WAN port** is still shown on the **Internet Settings** page, you can try to change the **Speed** to **10 Mbps full duplex** or **10 Mbps half duplex** to solve the problem. Otherwise, keep the default settings.

To access the configuration page, [log in to the web UI](#) of the router, and navigate to **More > Network Settings > WAN Parameters**.

The screenshot shows the 'WAN Parameters' configuration page. The 'Speed' dropdown menu is currently set to '1000 M Auto-negotiation'. Below the dropdown, it indicates 'Current: 1000 Mbps full duplex'. At the bottom of the configuration area, there is an orange 'Save' button.

The following table describes the parameters displayed on this page.

#### Parameter description

Speed	Application
1000 M Auto-negotiation	Indicates that the speed and duplex mode are determined through the negotiation with the peer port.
100 Mbps full duplex	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 half duplex	Indicates that the WAN port is working at the speed of 100 Mbps, but the port can only receive or send data packets alternately.
10 Mbps full duplex	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 half duplex	Indicates that the WAN port is working at the speed of 10 Mbps, but the port can only receive or send data packets alternately.

## 10.9 Other advanced settings

### 10.9.1 App remote management

The router can be managed remotely using the Tenda WiFi app. The app remote management function is disabled by default. You can enable this function as required.

To access the configuration page, [log in to the web UI](#) of the router, and navigate to **More > Advanced > APP Remote Management**.

**APP Remote Management**  
Manage the router anytime, anywhere

APP Remote Management

Once enabled, you can remotely manage the router by Tenda WiFi app

ID

Cloud Account

The following table describes the parameters displayed on this page.

#### Parameter description

Parameter	Description
APP Remote Management	Used to enable or disable the app remote management function. It is enabled by default.
ID	Specifies the ID of the router, which is automatically allocated.
Cloud Account	Specifies the account bound on your <b>Tenda WiFi</b> app.

## 10.9.2 MAC address filter

### Overview

With this function, you can add devices to the whitelist or blacklist to enable or disable specified clients to access the internet through the router.



TIP

- The whitelist function may be unavailable for some models. Please refer to the product you purchased.
- If you blacklist a wired client, the client will fail to access the network, but it can still connect to the router.
- If you blacklist a wireless device, the client will be kicked offline and cannot connect to the router again.
- A maximum of 32 devices can be blacklisted.

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

### MAC Address Filter

Allow or disallow internet access through this router for specified clients.

---

MAC Address Filter

Filter mode  Blacklist(Only block internet access from client with listed MAC address)  
 Whitelist  
(Only users with listed MAC addresses are allowed to access the internet)


**Blacklist Device** +

Device Name	MAC Address	Operation
No Data		

The following table describes the parameters displayed on this page.

#### Parameter description

Parameter	Description
MAC Address Filter	Used to enable or disable the MAC address filter function.

Parameter	Description
Filter mode	<p>Specifies the MAC address filter mode.</p> <ul style="list-style-type: none"> <li>• <b>Blacklist:</b> WiFi-enabled clients listed are unable to connect to the Wi-Fi network of the router.</li> <li>• <b>Whitelist:</b> WiFi-enabled devices listed are able to connect to the WiFi network of the router.</li> </ul>
Device Name	Specifies the name of the client.
MAC Address	Specifies the MAC address of the client.
Operation	 : Used to remove a client from the blacklist/whitelist.
Add all online devices to the whitelist	Used to add all currently connected devices to the whitelist.

## Only prohibit specified clients from accessing the internet

**Scenario:** As an important test is coming, you want to prohibit your kid's phone from accessing the internet.


**Goal:** Only prohibit your kid's phone from accessing the internet.

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

Assume that:

Client	MAC address	Status
Your kid's phone	8C:EC:4B:B3:04:92	Connected

### Configuration procedure:

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **More > Advanced > MAC Address Filter.**
- Step 3** Enable the **MAC Address Filter** function.
- Step 4** Set **Filter Mode** to **Blacklist.**
- Step 5** Click  .

### MAC Address Filter

Allow or disallow internet access through this router for specified clients.

MAC Address Filter

Filter mode  Blacklist(Only block internet access from client with listed MAC address)  
 Whitelist  
 (Only users with listed MAC addresses are allowed to access the internet)

**Blacklist Device** +

Device Name	MAC Address	Operation
No Data		

**Step 6** Set **Device Name**, which is **Kid's phone** in this example.

**Step 7** Enter **MAC Address** of the client, which is **8C:EC:4B:B3:04:92** in this example.

**Add Blacklist** ×

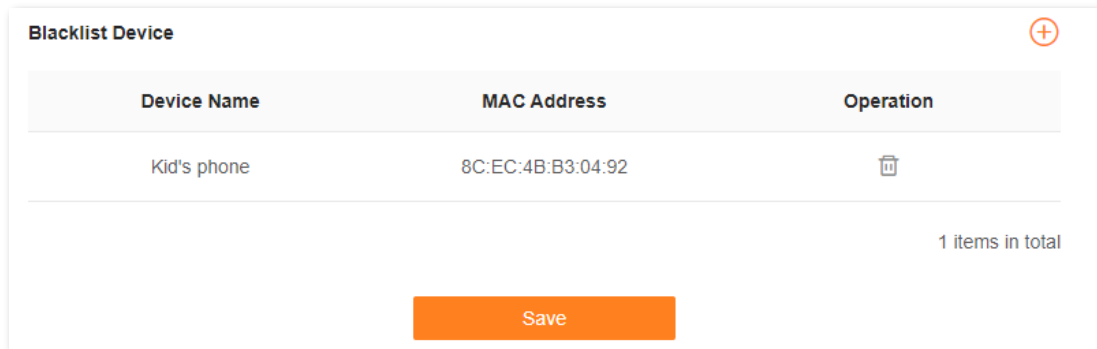
Select Device

Device Name

MAC Address

**Step 8** Click **OK**.

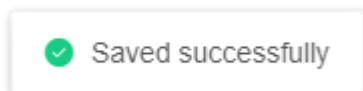
The blacklisted client is displayed under **Blacklist Device**.



**Step 9** Click **Save**.

---End

The following message is displayed, indicating that the settings are saved successfully.



After the configuration is completed, only your kid's phone is prohibited from accessing the internet through the router.

## Only allow specified device to access the internet

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

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

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

Assume that:

Device	MAC address	Status
Your own phone	8C:EC:4B:B3:04:92	Connected
Family member's phone	94:C6:91:29:C2:12	Disconnected

### Configuring procedure:

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

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

**Step 3** Enable the **MAC Address Filter** function.

**Step 4** Set **Filter Mode** to **Whitelist**.

**Step 5** Click .

### MAC Address Filter

Allow or disallow internet access through this router for specified clients.

MAC Address Filter

Filter mode  Blacklist(Only block internet access from client with listed MAC address)  
 Whitelist  
 (Only users with listed MAC addresses are allowed to access the internet)

**Whitelist** Add all online devices to the whitelist +

Device Name	MAC Address	Operation
No Data		

**Step 6** Set **Device Name**, which is **My phone** in this example.

**Step 7** Enter **MAC Address** of the client, which is **8C:EC:4B:B3:04:92** in this example.

#### Add Whitelist ×

Select Device



Device Name

MAC Address

**Step 8** Click **OK**.

**Step 9** Repeat **Step 5** to **Step 8** to add **Family member's phone (94:C6:91:29:C2:12)** to the whitelist.

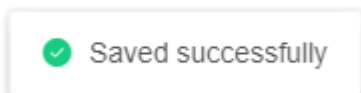
The whitelisted clients are displayed under **Whitelist Device**.

Whitelist <span style="color: orange;">Add all online devices to the whitelist</span> <span style="float: right;">+</span>		
Device Name	MAC Address	Operation
My phone	8C:EC:4B:B3:04:92	
Family member's phone	94:C6:91:29:C2:12	

**Step 10** Click **Save**.

---End

The following message is displayed, indicating that the settings are saved successfully.



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

### 10.9.3 Firewall

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

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

**Firewall**

This router can detect and defend against flooding attacks, and can also ignore the Ping packets from the WAN port.

---

ICMP Flood Attack Defense

TCP Flood Attack Defense

UDP Flood Attack Defense

Block Ping from WAN

**Save**



The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description
ICMP Flood Attack Defense	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	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, and then suspends in a semi-connected state, thereby occupying a large number of server resources until the server denies any services.
UDP Flood Attack Defense	Used to enable or disable the UDP flood attack defense.  The UDP flood attack is implemented similarly with the ICMP flood attack, during which the attacker sends a large number of UDP packets to the target host, causing the target host to be busy processing these UDP packets, but unable to process normal packet requests or responses.
Block Ping From WAN	Used to enable or disable the Block Ping From WAN function.  When it is enabled, the router automatically ignores the ping to its WAN from hosts from the internet and prevents itself from being exposed, while preventing external ping attacks.

## 10.9.4 DMZ host

### Overview

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



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

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

### DMZ Host

The DMZ host has all ports opened. You can enable this function when you need to communicate with the internet without restrictions. For example, you can set this device as the DMZ host when you are having a video conference or playing online games to improve smoothness.

---

DMZ Host

1. The DMZ host device will be exposed to the internet and the firewall of the router will no longer safeguard the host.
2. Hackers may use the DMZ host to attack the local network. Please use this function with caution.
3. When using this function, please disable the security software and firewall of the DMZ host temporarily.

DMZ Host IP Address

The following table describes the parameters displayed on this page.

#### Parameter description

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

### Example of enabling internet users to access LAN resources

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

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

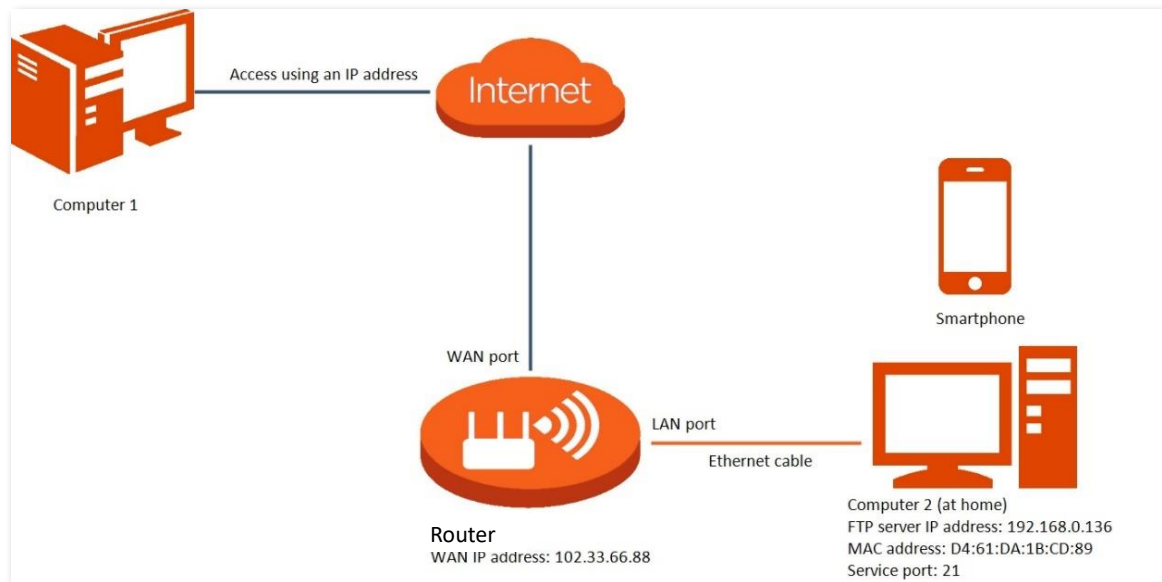
**Solution:** You can configure the DMZ host function to reach the goal.

Assume that the information of the FTP server includes:

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



Ensure that the router obtains an IP address from the public network. This function may not work on a host with an IP address of a private network or an intranet IP address assigned by ISPs that starts 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 to 172.31.255.255. Private IP addresses of class C range from 192.168.0.0 to 192.168.255.255.



### Configuration procedure:

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

**Step 2** Set the server host as the DMZ host.

1. Navigate to **More > Advanced > DMZ Host**.
2. Enable the **DMZ Host** function.
3. Enter the IP address of the host, which is **192.168.0.136** in this example.
4. Click **Save**.

### DMZ Host

The DMZ host has all ports opened. You can enable this function when you need to communicate with the internet without restrictions. For example, you can set this device as the DMZ host when you are having a video conference or playing online games to improve smoothness.

---

DMZ Host

1. The DMZ host device will be exposed to the internet and the firewall of the router will no longer safeguard the host.
2. Hackers may use the DMZ host to attack the local network. Please use this function with caution.
3. When using this function, please disable the security software and firewall of the DMZ host temporarily.

DMZ Host IP Address

Save

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

1. Navigate to **More > Network Settings > LAN Settings**.
2. Click **+**.
3. Set **Device Name** for the server host, which is **FTP server** in this example.
4. Enter the MAC Address of the host of the server, which is **D4:61:DA:1B:CD:89** in this example.
5. Enter the reserved IP Address for the server host, which is **192.168.0.136** in this example.
6. Click **OK**.

**----End**

The client is displayed under **Static IP Reservation List**.

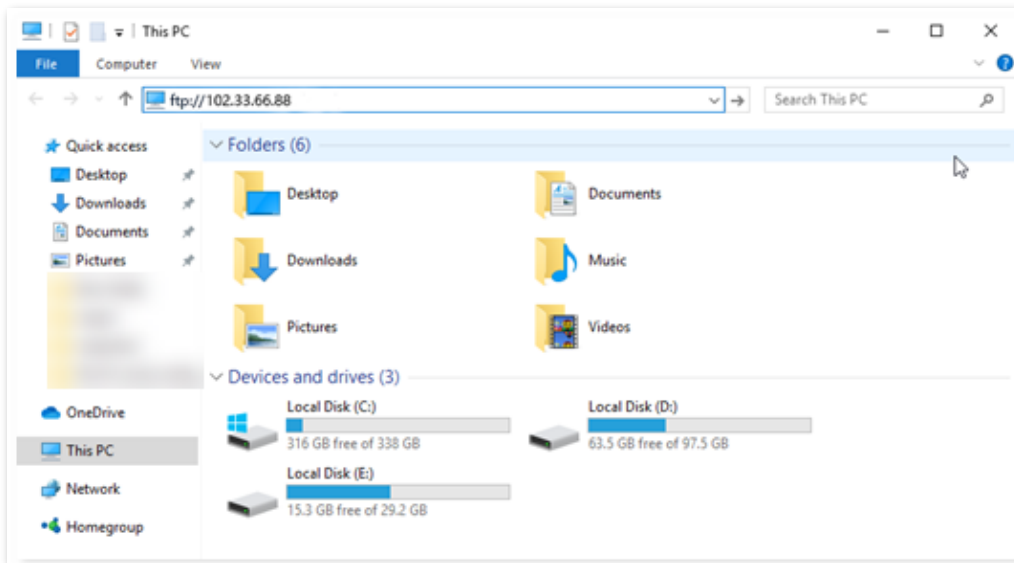
Static IP Reservation List <span style="float: right;">+</span>			
Device Name	IP Address	MAC Address	Operation
FTP server	192.168.0.136	d4:61:da:1b:cd:89	✎ 🗑

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

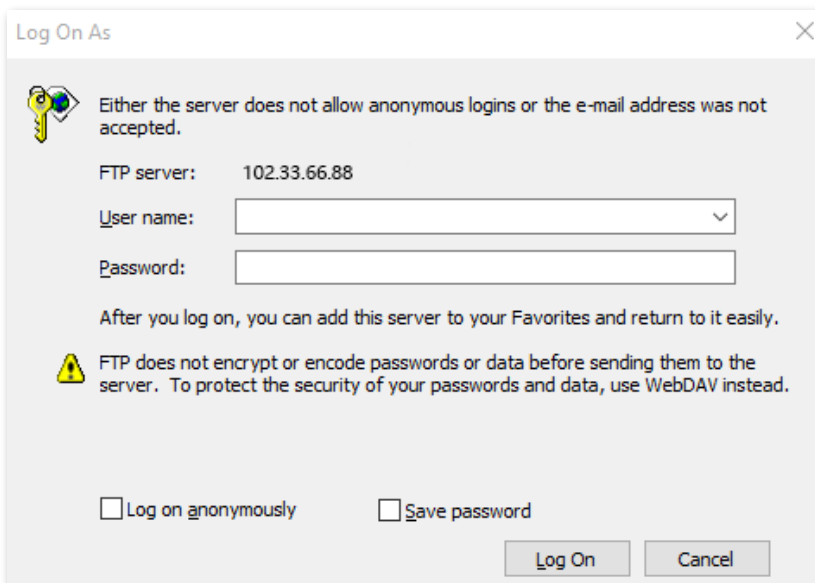
In this example, the address is “**ftp://102.33.66.88**”. You can find the WAN IP address of the router in [WAN port information](#).



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



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



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



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

## 10.9.5 Remote web management

### Overview

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

To access the configuration page, [log in to the web UI](#) of the router, and navigate to **More > Advanced > Remote Web Management**.

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

### Remote Web Management

Under circumstances with special need (such as remote technical support), you can enable this function to allow remote access to the web UI of the router.

---

Remote Web Management


Remote IP Address

Port

The following table describes the information displayed on this page.

### Parameter description

Parameter	Description
Remote Web Management	Used to enable or disable the remote web management function of the router.
Remote IP Address	<p>Specifies the IP address of the host which can access the web UI of the router remotely.</p> <ul style="list-style-type: none"> <li>• <b>Any IP Address:</b> Indicates that hosts with any IP address from the internet can access the web UI of the router. It is not recommended for security.</li> <li>• <b>Specified IP Address:</b> 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).</li> </ul>

Parameter	Description
Port	<p>Specifies the port number of the router which is opened for remote management. You can change it as required.</p> <p> <b>TIP</b></p> <ul style="list-style-type: none"> <li>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 conflict.</li> <li>Remote web management can be achieved by visiting “http://WAN IP address of the router:Port number”. If the DDNS host function is enabled, the web UI can also be accessed through “http://Domain name of the router’s WAN port:Port number”.</li> </ul>

## Example of enabling Tenda technical support to access and manage the web UI

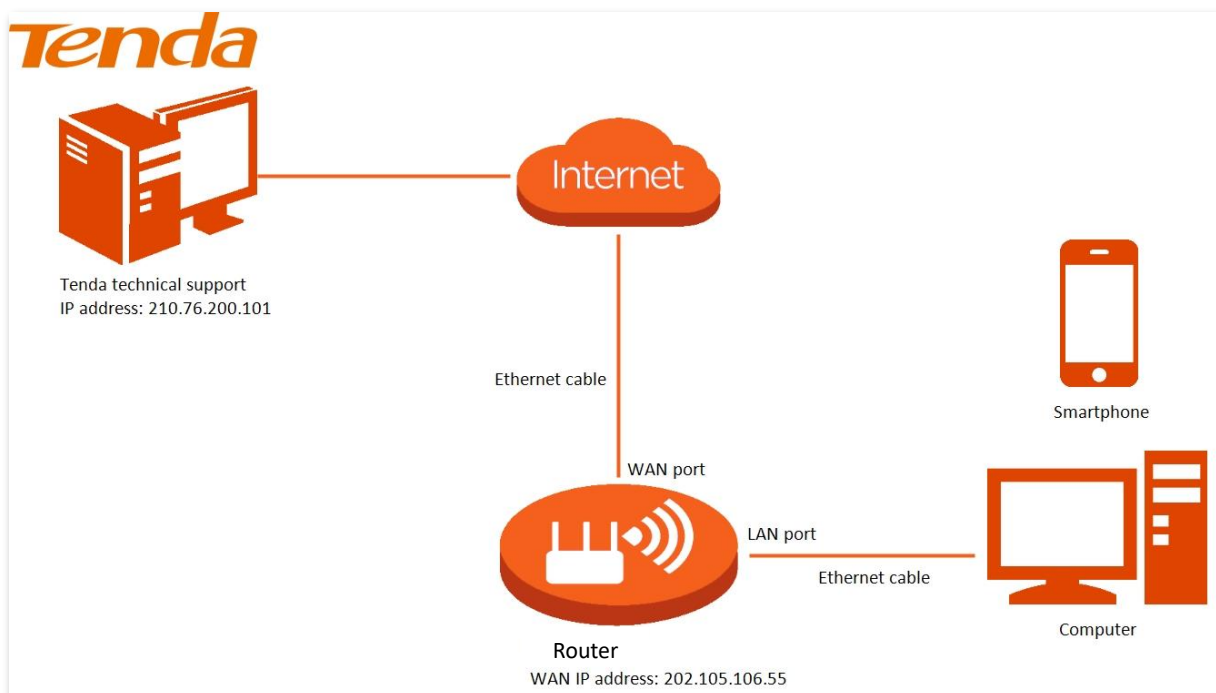
**Scenario:** You encounter a problem in configuring the router, and the router can access the internet.

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

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

Assume that:

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



**Configuration procedure:**

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **More > Advanced > Remote Web Management.**
- Step 3** Enable the **Remote Web Management** function.
- Step 4** Select **Specified IP Address** for **Remote Web Management.**
- Step 5** Enter the IP address that is allowed to access the web UI remotely for **Specified IP Address**, which is **210.76.200.101** in this example.
- Step 6** Click **Save.**

### Remote Web Management

Under circumstances with special need (such as remote technical support), you can enable this function to allow remote access to the web UI of the router.

Remote Web Management

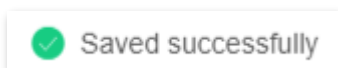
Remote IP Address

Specified IP Address

Port

---End

The following message is displayed, indicating that the settings are saved successfully.



When the configuration is complete, 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.

## 10.9.6 Static routing

### 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 destination network, subnet mask, default gateway, and interface. The destination network and subnet mask are used to determine a destination 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 navigate to **More > Advanced > Static Routing**. A maximum of 10 static routes can be added here.

### Static Routing

After a static route is added, data whose destination address is the same as the destination network of the static route will be directly forwarded according to the specified path.

---



**Routing Table** +

Destination Network	Subnet Mask	Gateway	WAN	Operation
172.16.105.0	255.255.255.0	192.168.10.20	WAN1	
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
239.0.0.0	255.0.0.0	0.0.0.0	br0	System

The following table describes the parameters displayed on this page.

#### Parameter description

Parameter	Description
Destination Network	<p>Specifies the IP address of the destination network.</p> <p>If <b>Destination Network</b> and <b>Subnet Mask</b> are both <b>0.0.0.0</b>, this is the default route.</p> <p> <b>TIP</b></p> <p>When no route of packets can be found under <b>Routing Table</b>, the router will forward the packets using the default route.</p>
Subnet Mask	Specifies the subnet mask of the destination network.

Parameter	Description
Gateway	Specifies the ingress IP address of the next hop router after the data packet exits from the interface of the router.  <b>0.0.0.0</b> indicates that the destination network is directly connected to the router.
WAN	Specifies the interface that the packet exits from.
Operation	The available options include:   : Used to modify a static routing rule.   : Used to delete a static routing rule.

## Example of adding a static routing rule

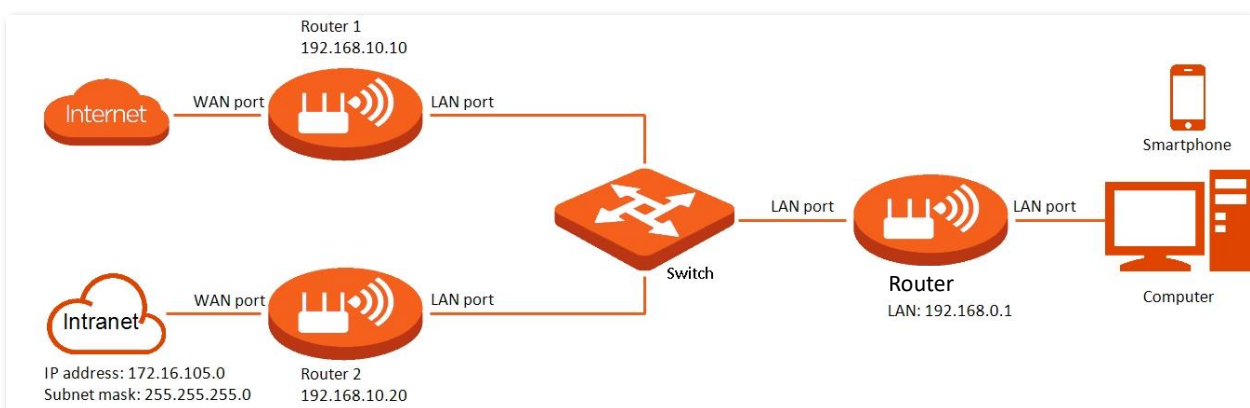
**Scenario:** You have a router and another two routers. Router1 is connected to the internet and its DHCP server is enabled. Router2 is connected to an intranet and its DHCP server is disabled.

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

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

Assume the LAN IP addresses of these devices are:

- Router: 192.168.0.1
- Router1: 192.168.10.10
- Router2: 192.168.10.20
- Information about the intranet:
- IP address: 172.16.105.0
- Subnet mask: 255.255.255.0



**Configuration procedure:****Step 1** [Log in to the web UI.](#)**Step 2** Refer to [Access the internet through a dynamic IP address](#) to configure the internet access for RX2 Pro.

**Internet Settings**

Network Status Connected

Connected time 23minute(s)

ISP Type

Internet Connection Type

Select this type if you can access the internet simply by plugging in an Ethernet cable for internet connection.

Advanced ▼

**Step 3** Add a static routing rule on RX2 Pro.

1. Navigate to **More > Advanced > Static Routing**.
2. Click +.
3. Enter the IP address of the destination network, which is **172.16.105.0** in this example.
4. Enter the subnet mask of the destination network, which is **255.255.255.0** in this example.
5. Enter the ingress IP address of the next hop router, which is **192.168.10.20** in this example.
6. Click **OK**.

**Add Static Route** ×

Destination Network

Subnet Mask

Gateway

WAN

**---End**

The new static routing rule is displayed under **Routing Table**.

**Static Routing**

After a static route is added, data whose destination address is the same as the destination network of the static route will be directly forwarded according to the specified path.

---

**Routing Table** +

Destination Network	Subnet Mask	Gateway	WAN	Operation
172.16.105.0	255.255.255.0	192.168.10.20	WAN1	 

After completing the configuration, you can access both the internet and intranet through RX2 Pro at the same time.

## 10.9.7 DDNS

### Overview

DDNS normally interworks with the port mapping, DMZ host and remote web management, so that 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 navigate to **More > Advanced > DDNS**.

**DDNS**

Always map the WAN IP address of the router (a public IP address) to a fixed domain name, so that internet users can access the router through this domain name.

---

DDNS

ISP Please select Register Now

User Name

Password

Domain Name

Connection Status Disconnected

The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description
DDNS	Used to enable or disable the DDNS function.
ISP	Specifies the DDNS service provider.
User Name	Specify the user name and password registered on a DDNS service provider's website for logging in to the DDNS service.
Password	
Domain Name	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	Specifies the current connection status of the DDNS service.

## Example of enabling internet users to access LAN resources using a domain name

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

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

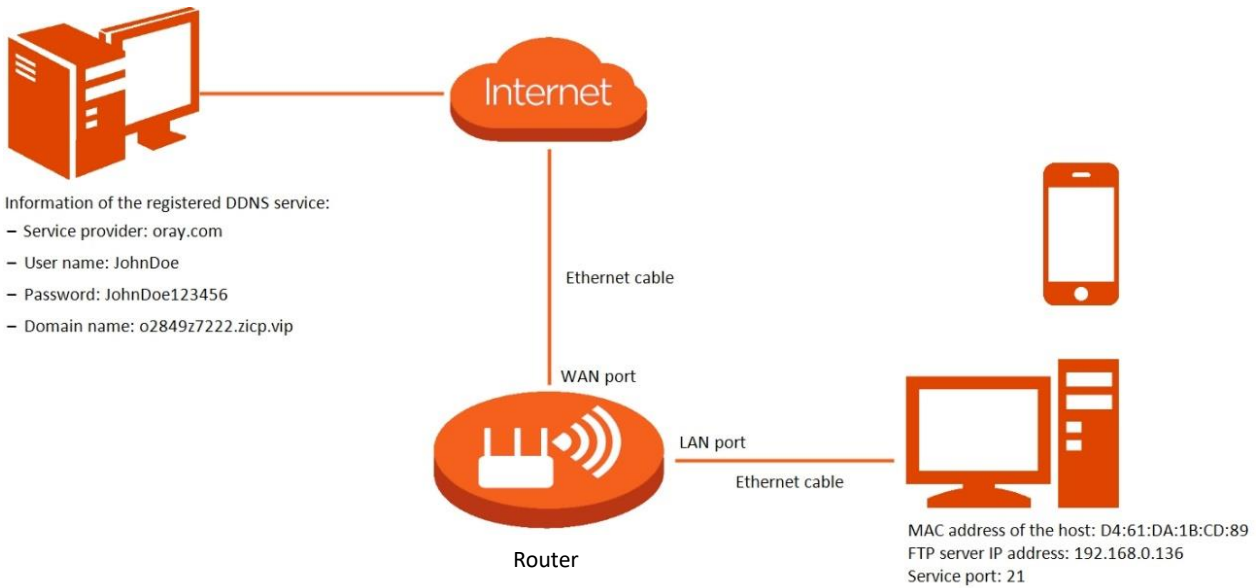
**Solution:** You can configure the DDNS plus port mapping functions to reach the goal.

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**
- Information of the registered DDNS service:
  - Service provider: **oray.com**
  - User name: **JohnDoe**
  - Password: **JohnDoe123456**
  - Domain name: **o2849z7222.zicp.vip**



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



### Configuration procedure:

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

**Step 2** Configure the DDNS function.

1. Navigate to **More > Advanced > DDNS**.
2. Enable the **DDNS** function.
3. Select a service provider for **ISP**, which is **oray.com** in this example.
4. Enter the user name and password, which are **JohnDoe** and **JohnDoe123456** in this example.
5. Click **Save**.

**DDNS**

Always map the WAN IP address of the router (a public IP address) to a fixed domain name, so that internet users can access the router through this domain name.

---

DDNS

ISP  [Register Now](#)

User Name

Password

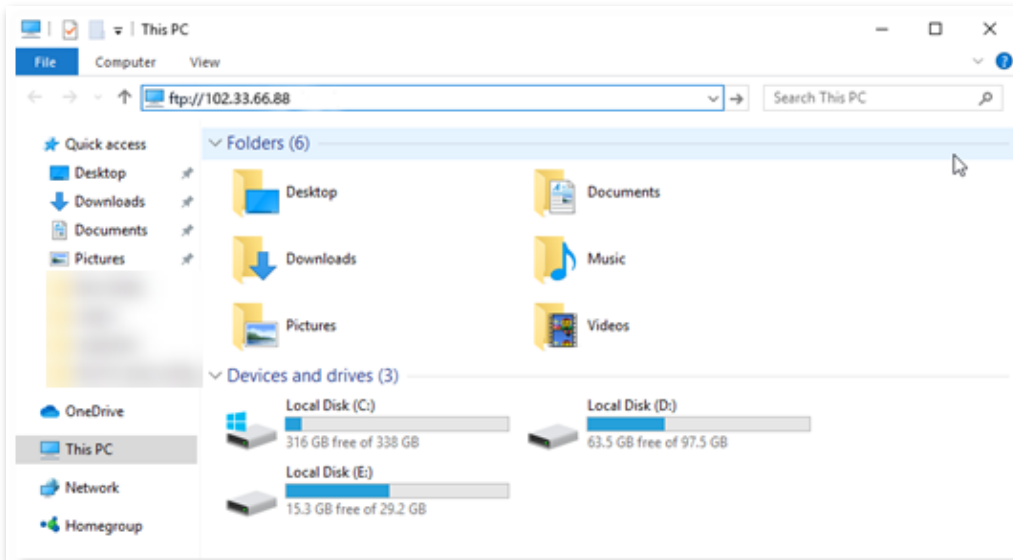
Connection Status Disconnected

---End

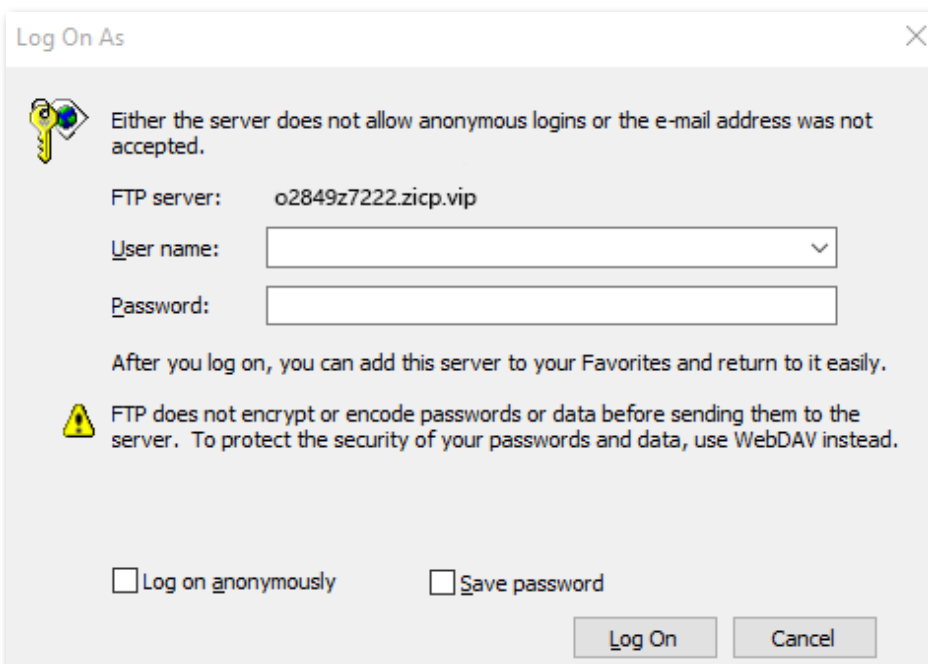
Wait until **Connected** is displayed after **Connection Status**, which indicates that the configuration is successful.

Configure the port mapping function by following the steps in [Port mapping](#).

When completing the configuration, users from the internet can access the FTP server by visiting *"Intranet service application layer protocol name://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://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 configuration, if internet users still cannot access the FTP server, try the following methods:

- Ensure that the LAN port number configured in the port mapping 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.

## 10.9.8 UPnP

UPnP is short for Universal Plug and Play. This function enables the router to 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 navigate to **More > Advanced > UPnP**.

This function is enabled by default.

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

**UPnP**

Once enabled, the router automatically opens port for application programs in the LAN that support UPnP, such as Xunlei, BitComet and Anychat, providing smoother user experience.

---

UPnP

**UPnP List**

Remote Host	External Port	Internal Host	Internal Port	Protocol
anywhere	64476	192.168.0.103	64476	UDP

The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description
UPnP	Used to enable or disable the UPnP function.
Remote Host	Specifies the address of remote host to receive and send responses.
External Port	Specifies the port set on the router to map to the outer.
Internal Host	Specifies the address of inner host to receive and send responses.



Parameter	Description
Internal Port	Specifies the host port which needs to be mapped.
Protocol	Specifies the mapping protocol.

## 10.9.9 Port mapping

### Overview

With this function, you can map an external port to an internal port, so that applications using the internal port (such as a web server) are accessible from the internet.



To access the configuration page, [log in to the web UI](#) of the router, and navigate to **More > Advanced > Port Mapping**.

#### Port Mapping

Port mapping opens a service port and maps it to a specified LAN server. With this function enabled, internet users can access the LAN server.



---

#### Port Mapping List +

Internal IP Address	Internal Port	External Port	Protocol	Operation
192.168.0.103	21	21	TCP&UDP	 

The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description
Internal IP Address	Specifies the IP address of the intranet server.
Internal Port	Specifies the service port of the intranet server.
External Port	Specifies the external port for the internal port to map with.
Protocol	Specifies the mapping protocol.
Operation	<p>The available options include:</p> <p> : Used to edit a port mapping rule.</p> <p> : Used to delete a port mapping rule.</p>

## Example of configuring port mapping

**Scenario:** You want to share some large files with your friends who are not on your LAN. However, it is not convenient to transfer such large files across the network.

**Goal:** Set up your own PC as an FTP server and let your friends access these files.

**Solution:** You can configure the port mapping function to reach the goal.

Assume that:

- IP address of the FTP server: **192.168.0.100**
- User name and password of the FTP server: **admin**
- Port of the FTP server: **21**
- IP address of the WAN port: **172.16.200.72**

To achieve such a goal:

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

**Step 2** Navigate to **More > Advanced > Port Mapping.**

**Step 3** Click .

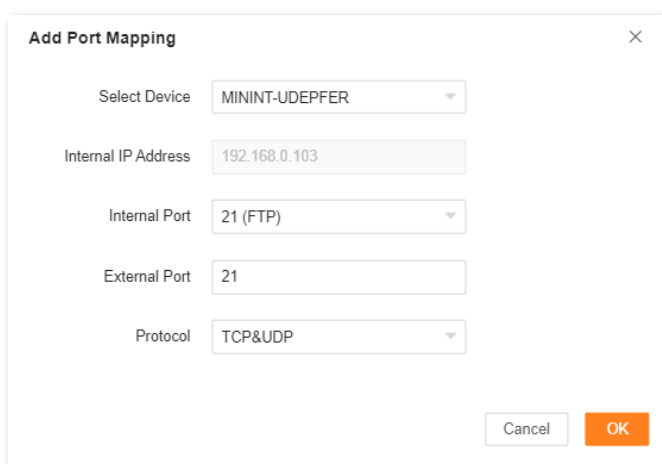
**Step 4** Select your computer for **Select Device**, **21 (FTP)** for **Internal Port**, and **TCP&UDP** for **Protocol**.



TIP

- You can directly select a client from the drop-down list box, which requires no further settings on **Internal IP Address**.
- If you select **Manual**, you need to set **Internal IP Address** manually.

**Step 5** Click **OK**.



---End

Now your friends can access your files by visiting **ftp:// 172.16.200.72** using their computers with internet access.

## 10.10 System settings

### 10.10.1 Login password

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

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

- If you did not set a login password before, you can set one on this page.
- If you have already set a login password, you can change the password on this page and the original password is required.

**Login Password**

You can modify the login password of the router here.

---

Old Password

New Password

Confirm Password

[Save](#)

The following table describes the parameters displayed on this page.

#### Parameter description

Parameter	Description
Old Password	Specifies the original login password that you set before.
New Password	Specify the new login password that you want to set.
Confirm Password	



If you forgot your login password, see [Forgot my password](#).

### 10.10.2 System time

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

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

### System Time

Functions such as Parental Control, Smart Power Saving and Auto System Maintenance are all involve time. To make sure they take effect properly, you are recommended to select Sync with internet time.

---

System Time 2021-09-14 14:37:00

Sync Status Synced

Sync Mode Sync with internet time ▼

Time Zone (GMT+08:00) Beijing, Chongqing, Hong Kong, Urur ▼

DST

Start 2021 Mar. ▼ 2nd ▼  
Sun. ▼ 02:00 ▼

End 2021 Nov. ▼ 1st ▼  
Sun. ▼ 02:00 ▼

Status DST not use

Save

The following table describes the parameters displayed on this page.

#### Parameter description

Parameter	Description
System Time	Specifies the current system time.
Sync Status	Specifies whether the system is synced.
Sync Mode	Specifies the sync mode of the system time. <ul style="list-style-type: none"> <li>• <b>Sync with internet time:</b> Indicates that the system time is synced with the internet time. <b>Time Zone</b> must be set when this option is selected.</li> <li>• <b>Sync with local time:</b> Indicates that the system time is automatically synced with the local time on your host, and you do not need to select a time zone.</li> </ul>
Time Zone	Required when <b>Sync with internet time</b> is selected for <b>Sync Mode</b> . It specifies the time zone used for the system time. Select one option as required.

Parameter	Description
Local Time	Displayed when <b>Sync with local time</b> is selected for <b>Sync Mode</b> . It specifies the local time set on your host.
DST	Used to enable or disable the Daylight Saving Time (DST) function. It is disabled by default.
Start 2021	Required when <b>DST</b> is enabled. It specifies the start time of DST.
End 2021	Required when <b>DST</b> is enabled. It specifies the end time of DST.
Status	Displayed when <b>DST</b> is enabled. It specifies whether the DST is used.

### 10.10.3 Firmware upgrade

With this function, you can upgrade the firmware of the router to obtain the latest functions and more stable performance. The router supports one-click upgrade, online upgrade and local upgrade.

To access the configuration page, [log in to the web UI](#) of the router, and navigate to **More > System Settings > Firmware Upgrade**.

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

#### Firmware Upgrade

Through firmware upgrades, the router can get new functions or more stable performance. Do not power off the router or disconnect it from the internet during the upgrade; otherwise, the upgrade may fail or the router may be damaged.

Device Name	Current Firmware Version	Operation
<b>router</b> <small>New Version Available: <a href="#">V16.03.30.04(1194)_circle</a> <a href="#">Details</a></small>	V16.03.30.04_multi	<div style="text-align: center;"> <input type="button" value="Online Upgrade"/>  <input type="button" value="Local Upgrade"/> </div>

If auto-detection does not start, you can click **Detect New Version** to check for new versions.

## Online upgrade

To perform online upgrade on a single node:

- Step 1** [Log in to the web UI.](#)
  - Step 2** Navigate to **More > System Settings > Firmware Upgrade.**
  - Step 3** Click **Online Upgrade** in the line of the node to be upgraded.
- End

Wait until the upgrade completes. Then, access the **Firmware Upgrade** page again and check whether the upgrade is successful based on **Current Firmware Version.**



TIP

For better performance of the new firmware of the router, you are recommended to reset the router to factory settings and re-configure the router after the upgrade completes.

## Local upgrade

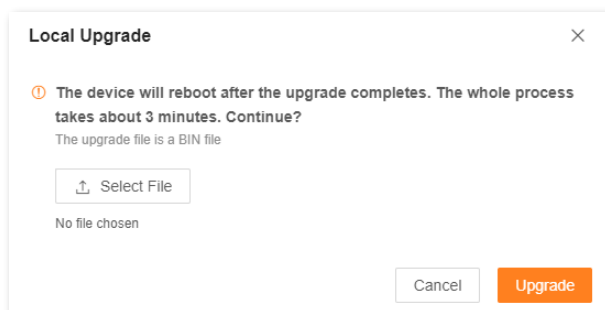


NOTE

To prevent the router from being damaged:

- Ensure that the firmware applies to the router.
- When you are upgrading the firmware, do not power off the router.

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



- Step 6** Target the firmware file downloaded previously (extension: bin), and click **Open.**
  - Step 7** Click **Upgrade.**
- End

Wait until the upgrade completes. Then, access the **Firmware Upgrade** page again and check whether the upgrade is successful based on **Current Firmware Version**.



For better performance of the new firmware, you are recommended to reset the router to factory settings and re-configure the router after the upgrade completes.

## 10.10.4 Backup & restore

In this module, you can back up the current configuration 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.

If you forget your Wi-Fi password or fail to fix network connection problems with other solutions, you can reset the router to factory settings on this page.

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

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

### Backup & Restore

---

**Backup**  
Save the current configuration to local host Backup

---

**Restore**  
Restore to the previous configurations you backed up (the backup file is a CFG file). Restore

---

**Reset**  
Resetting clears all configurations and restores the device to factory settings. Please operation with caution.

Device Name	Operation
router	<span style="border: 1px solid #ccc; padding: 5px 15px;">Reset</span>

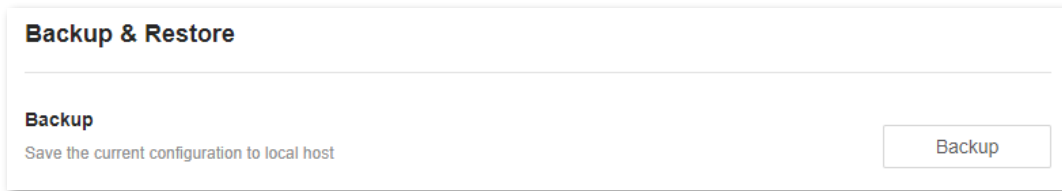
### Back up the configuration of the router

To back up the configuration of the router:

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

**Step 2** Navigate to **More > System Settings > Backup & Restore**.

**Step 3** Click **Backup**.



**---End**

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

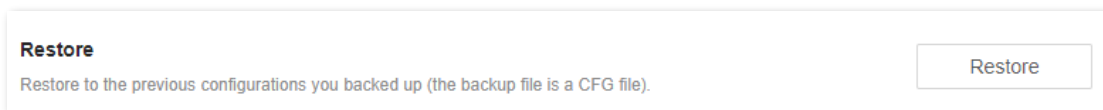
## Restore the previous configuration of the router

To restore the previous configuration of the router:

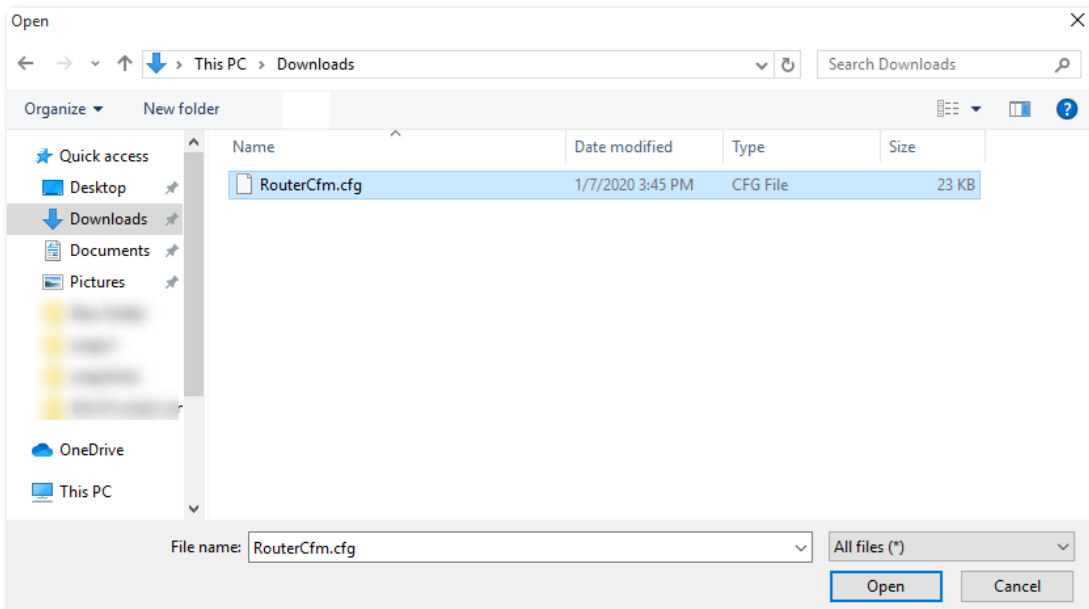
**Step 1** [Log in to the web UI](#).

**Step 2** Navigate to **More > System Settings > Backup & Restore**.

**Step 3** Click **Restore**.



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



**---End**

Wait until the ongoing process finishes, and previous settings are restored to the router.



## Reset a node



Resetting clears all configurations and restores the router to factory settings. Please operate with caution.

To reset a node:

- Step 1** [Log in to the web UI.](#)
- Step 2** Navigate to **More > System Settings > Backup & Restore.**
- Step 3** Click **Reset** in the line of the node to be reset.

Reset	
Resetting clears all configurations and restores the device to factory settings. Please operation with caution.	
Device Name	Operation
router	Reset

- Step 4** Click **Reset** in the displayed dialog box.

**Reset** ×

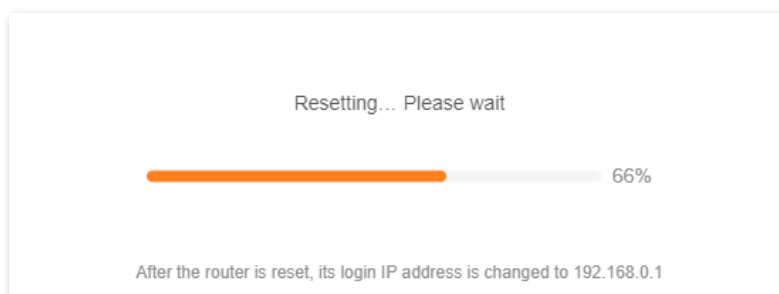
**ⓘ Do you want to reset the primary node?**

After the primary node is reset, the whole network loses internet availability and needs to be reconfigured. You are recommended to back up the configurations first.

Do not cut off the power supply of the device during the reset. Otherwise, the device may be damaged.

---End

Wait until the reset completes.



## 10.10.5 Auto system maintenance

Auto system maintenance enables you to restart the router 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 navigate to **More > System Settings > Auto System Maintenance**.

### Auto System Maintenance

Here, you can set a auto reboot time point for the router to improve the lifetime and system stability.

---

Auto System Maintenance

Reboot at

Delay Reboot

Delay the reboot if a client is connected and the traffic is higher than 3 KB/s

The following table describes the parameters displayed on this page.

### Parameter description

Parameter	Description
Auto System Maintenance	Used to enable or disable the auto system maintenance function.
Reboot at	Specifies the time when the router reboots automatically every day.
Delay Reboot	<p>Used to enable or disable the reboot delay function.</p> <ul style="list-style-type: none"> <li>• 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, the router will delay rebooting.</li> <li>• Unticked: The function is disabled. The router reboots immediately when the specified time for rebooting approaches.</li> </ul>

## 10.10.6 System log

To access the configuration page, [log in to the web UI](#) of the router, and navigate to **More > 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 computer by clicking **Export to Local**.

**System Log**

The system logs record the events of the system. You can check them for troubleshooting in case of network failure.

Export to Local

No.	Time	Type	Log Content
1	2022-05-10 14:24:47	wan	Broadcasting DHCP_DISCOVER
2	2022-05-10 14:24:04	wan	Broadcasting DHCP_DISCOVER
3	2022-05-10 14:23:21	wan	Broadcasting DHCP_DISCOVER
4	2022-05-10 14:22:38	wan	Broadcasting DHCP_DISCOVER
5	2022-05-10 14:21:55	wan	Broadcasting DHCP_DISCOVER
6	2022-05-10 14:21:12	wan	Broadcasting DHCP_DISCOVER
7	2022-05-10 14:20:29	wan	Broadcasting DHCP_DISCOVER
8	2022-05-10 14:19:46	wan	Broadcasting DHCP_DISCOVER
9	2022-05-10 14:19:03	wan	Broadcasting DHCP_DISCOVER
10	2022-05-10 14:18:20	wan	Broadcasting DHCP_DISCOVER

300 items in total < 1 2 3 4 5 6 7 ... 30 >



**TIP**  
Rebooting the router will clear all previous system logs.

# 11 FAQ

## 11.1 Failed to access the web UI

Use the following method to troubleshoot the fault, and then try again.

- If you are using a wireless device, such as a smartphone:
  - Ensure that it is connected to the Wi-Fi network of the router.
  - Ensure that the cellular network (mobile data) of the client is disabled.
  - Use another smartphone or tablet to log in to the web UI.
- If you are using a wired device, such as a computer:
  - Ensure that the Ethernet cable between your computer and the router is connected properly.
  - Ensure that your computer is set to **Obtain an IP address automatically**.
  - Ensure that the login IP address (**192.168.0.1** by default) you entered is correct.
  - Clear the cache of your browser, or use another browser.
  - Use another computer to log in to the web UI.
  - Hold down the **WPS/RST** button for about 8 seconds to restore the router to factory settings.

## 11.2 Internet detection failed upon the first set up

Use the following method to troubleshoot the fault, and then try again.

- Ensure that the Ethernet cable for the internet connection is connected to the WAN port of the router.
- Ensure that the Ethernet cable is well-connected and not damaged, and the modem is powered on.
- If the problem persists, contact your ISP.

## 11.3 Failed to find or connect my wireless network

Use the following method to troubleshoot the fault.

- If you cannot find any wireless network:
  - Check that the wireless function is enabled when you are using a laptop with a built-in wireless adapter.
  - Check that the wireless adapter is installed properly and enabled successfully.
- If you can find other wireless networks except yours, ensure that your device is in the Wi-Fi network coverage range of your routers.

## 11.4 Forgot my password

Use the following method to troubleshoot the fault.

- If you used the same password for Wi-Fi login and web UI login, reset the router by holding down the WPS/RST button with a needle-like item (such as a pin) for about 8 seconds, and perform settings again.
- If you used different passwords for Wi-Fi login and web UI login:
  - If you forgot the web UI login password, reset the router by holding down the **WPS/RST** button with a needle-like item (such as a pin) for about 8 seconds, and perform settings again.
  - If you remember the web UI login password but forget the Wi-Fi login password, log in to the web UI and navigate to **WiFi Settings** to check the Wi-Fi login password.

# Appendixes

## A.1 Factory settings

Parameter		Default value
Login	IP address	192.168.0.1
	Password	No login password by default
LAN parameters	IP address	192.168.0.1
	Subnet mask	255.255.255.0
DHCP server	DHCP server	Enabled
	Start IP address	192.168.0.100
	End IP address	192.168.0.200
	Preferred DNS server	192.168.0.1
Operating mode		Router mode
Wireless settings	Wi-Fi name	See the label on the bottom of the router.
IPv6		Disabled
Unify 2.4 GHz & 5 GHz		Disabled
Guest Wi-Fi		Disabled
IPTV		Disabled
App remote management		Disabled
MAC address filter		Disabled
DMZ host		Disabled
Remote web management		Disabled

<b>Parameter</b>	<b>Default value</b>
DDNS	Disabled
UPnP	Enabled
Time sync mode	Sync with internet time
DST	Disabled
Auto system maintenance	Enabled Default reboot time: 02:00

## A.2 Acronyms and abbreviations

Acronym or Abbreviation	Full Spelling
ACS	Auto-Configuration Server
AES	Advanced Encryption Standard
AP	Access point
DDNS	Dynamic Domain Name System
DHCP	Dynamic Host Configuration Protocol
DHCPv6	Dynamic Host Configuration Protocol for IPv6
DMZ	Demilitarized zone
DNS	Domain Name System
DSL	Digital subscriber line
DST	Daylight Saving Time
FTP	File Transfer Protocol
ICMP	Internet Control Message Protocol
IEEE	Institute of Electrical and Electronics Engineers
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



<b>Acronym or Abbreviation</b>	<b>Full Spelling</b>
LED	Light-emitting diode
MAC	Medium access control
MPPE	Microsoft Point-to-Point Encryption
MTU	Maximum Transmission Unit
OFDMA	Orthogonal frequency-division multiple access
OS	Operating system
PIN	Personal Identification Number
POP	Post Office Protocol
PPPoE	Point-to-Point Protocol over Ethernet
PPTP	Point to Point Tunneling Protocol
RA	Router Advertisement
SSID	Service Set Identifier
STB	Set-top box
TCP	Transmission Control Protocol
TR069	Technical Report - 069
UDP	User Datagram Protocol
UI	User interface
UPnP	Universal Plug and Play
URL	Uniform Resource Locator
USB	Universal Serial Bus
VLAN	Virtual local area network
WAN	Wide area network

<b>Acronym or Abbreviation</b>	<b>Full Spelling</b>
WISP	Wireless Internet Service Provider
WLAN	Wireless local area network
WPA	Wi-Fi Protected Access
WPA-PSK	WPA Pre-shared Key
WPA3-SAE	WPA3-Simultaneous Authentication of Equals
WPS	Wi-Fi Protected Setup