WiFi 6 Range Extender A27&A33

User Guide

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Preface

Thank you for choosing Tenda! Please read this user guide carefully before you start. This user guide applies to A27 and A33. Unless otherwise specified, A33 is taken as an example in this guide.

Conventions

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

Item	Presentation	Example
Cascading menus	>	**System** > **Live Users**
Parameter and value	Bold	Set **User Name** to **Tom**.
Variable	Italic	Format: *XX:XX:XX:XX:XX:XX*
UI control	Bold	On the **Policy** page, click the **OK** button.
Message	" "	The "Success" message appears.

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

Symbol	Meaning
	This format is used to highlight information of importance or special interest. Ignoring this type of note may result in ineffective configurations, loss of data or damage to device.
	This format is used to supplement or explain the description of relevant operations.

Additional Information

For more information, search this product model on our website at www.tendacn.com.

Type	Description
Datasheet	Used to help you understand the basic parameters of your product, including product overview, specifications, etc.
Quick Installation Guide	Used to help you quickly set up your product to access the internet, including internet setup guidance, hardware instructions, FAQs, etc.
User Guide	Used to help you understand more functions for your product, including the instructions to configure the functions.

Technical Support

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

Hotline	Global: (86) 755-27657180 (China Time Zone)
	United States: 1-800-570-5892 (Toll Free: 7 x 24 hours)
	Hong Kong: 00852-81931998
	Canada: 1-888-998-8966 (Toll Free: Mon - Fri 9 am - 6 pm PST)
Email	support@tenda.cn

Revision History

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

Version	Date	Description
V1.0	2022-01-12	Original publication.

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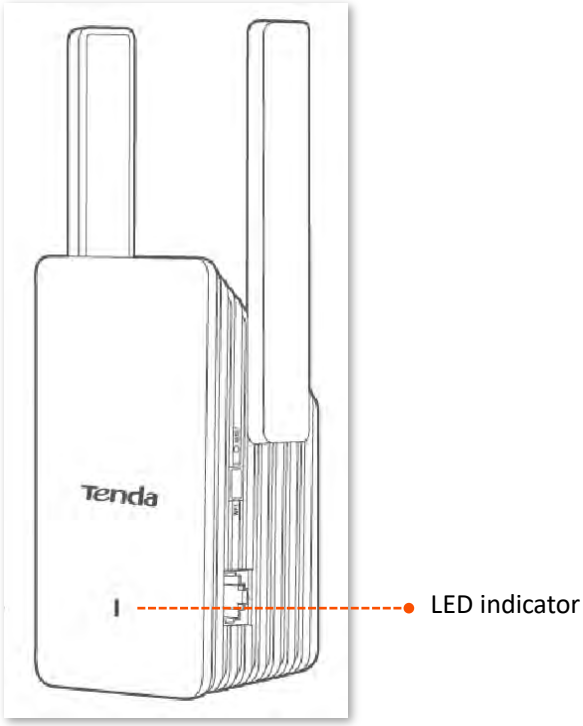
1 Get to know your device

1.1 Overview

Tenda WiFi 6 dual-band WiFi extender offers dual-band antennas to expand wireless network, efficiently delivering superspeed and seamless connectivity to every corner of your home. It supports dual-band integration technology, and the two frequency bands use the same WiFi name and password, selecting the WiFi with the best network quality for users. It can give full play to the highest performance of WiFi 6 dual-band wireless router, which is perfect for home WiFi coverage.

1.2 Appearance

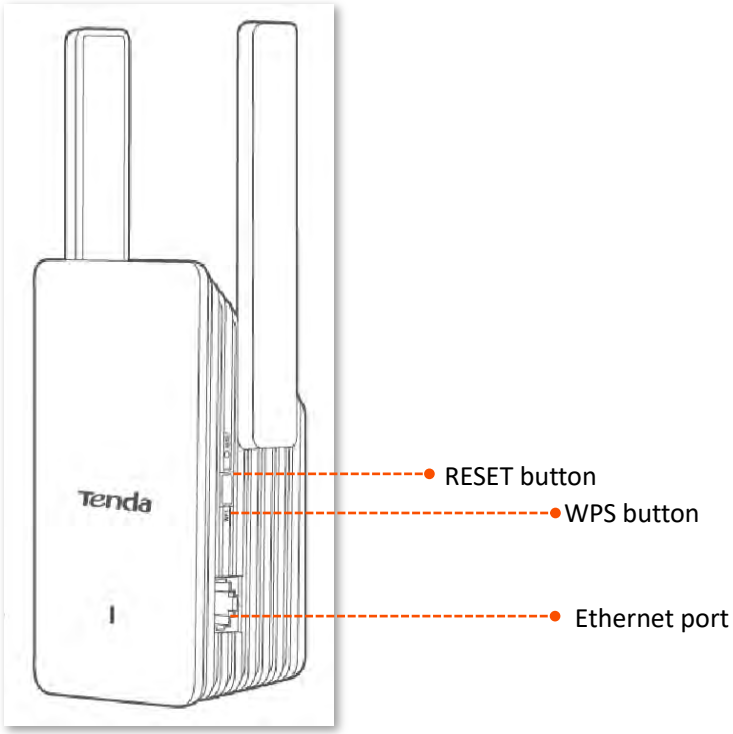
1.2.1 LED indicator



LED Indicator	Status	Description
LED indicator	Solid blue	The WiFi extender has connected to your existing router and is at a proper position or is too close to the router.

LED Indicator	Status	Description
	Solid yellow	The WiFi extender has connected to your existing router and is at a fair position. You are recommended to move it towards the router.
	Solid red	The WiFi extender has connected to your existing router, but is too far away from the router. You are recommended to move it towards the router.
	Blinking red slowly	The WiFi extender has been enabled but failed to extend the network of the upstream device.
	Blinking red quickly	The WiFi extender is connecting to your existing router through WPS.

1.2.2 Port & buttons



Button/Port	Description
WPS	Use the **WPS** button to extend WiFi network. Press the **WPS** button of the WiFi extender, and enable the WPS function of another device within 2 minutes to establish a WPS connection. Please refer to Extend your WiFi networks using WPS for details.
RESET	Hold down the **RESET** button for 1-3 seconds with a needle-like object such as the pen point. The LED indicator blinks as the reset begins. About 40 seconds later, the reset completes.
	Ethernet port.

Button/Port	Description
	In repeater mode, it is used to connect to devices, such as computer. In AP mode, it is used to connect to a router to provide wireless network for WiFi enabled devices.

2 Quick setup

2.1 Overview

The WiFi extender supports two working modes: the extender mode and the AP mode. In extender mode, you can extend your existing WiFi network for broader WiFi coverage. While in AP mode, you can connect the WiFi extender to a router through an Ethernet cable to convert the wired network to the wireless one.

Choose your scenario and perform setup.

If you want to	Set the WiFi extender to	See
Extend your current WiFi coverage	Extender mode	2.2 Extend the current WiFi coverage
Convert wired network to wireless network	AP mode	2.3 Turn wired network into WiFi network

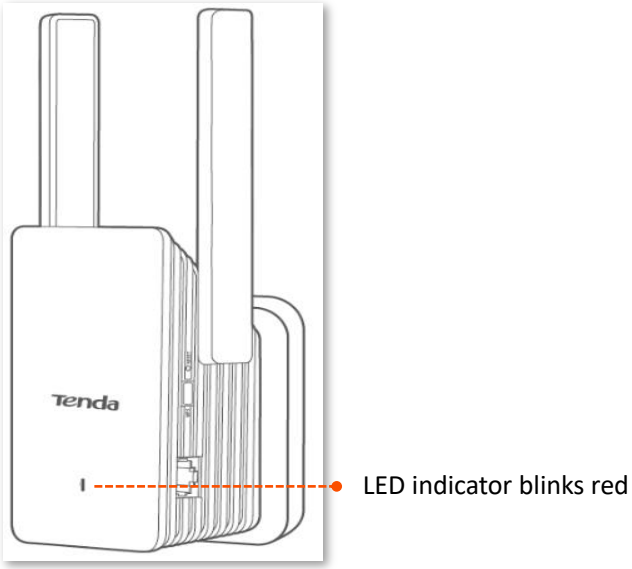
2.2 Extender mode

This WiFi extender supports two network extending methods. If your router has a WPS button, you are recommended to use Method 2.

Method 1: Extend your WiFi network using web UI

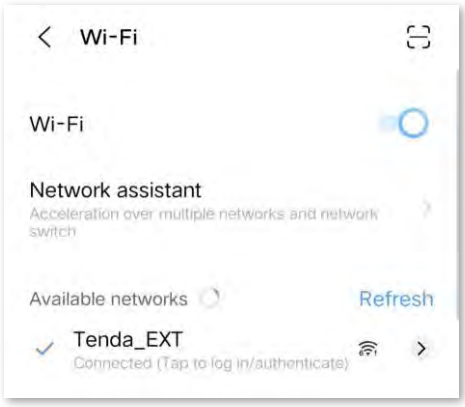
Scenario 1: **Mobile phone as the WiFi enabled device (An Android phone is used for illustration)**

Step 1 Plug the WiFi extender into a power outlet near the router in the same room. Wait until the LED indicator of the WiFi extender turns blinking red.



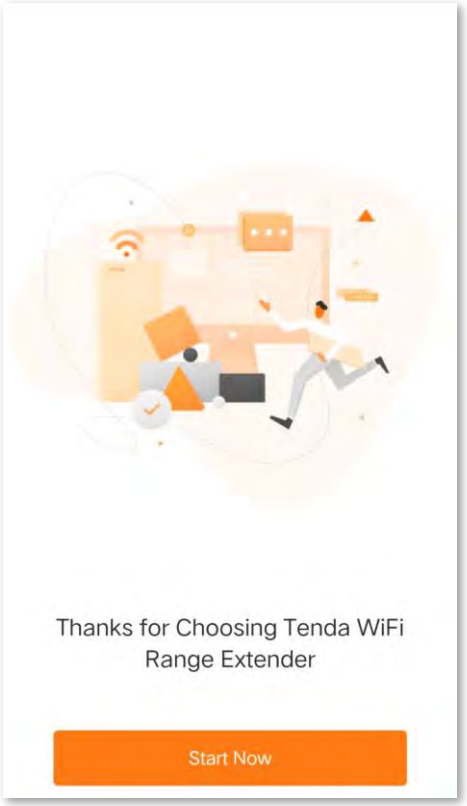
Step 2 Extend your WiFi network.

1. Connect your mobile phone to the WiFi network of the WiFi extender: **Tenda_EXT**.



A quick setup page appears automatically.

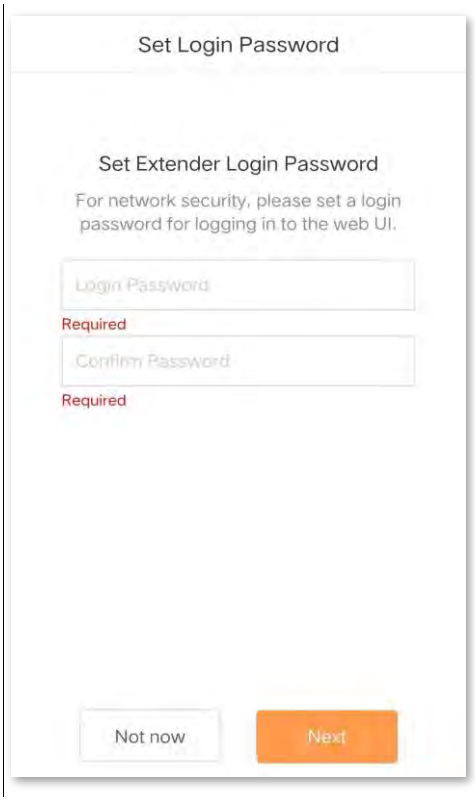
2. Tap **Start Now**.



TIP

- If the page does not appear, try the following solutions:
- Ensure that your device has connected to the WiFi network of the WiFi repeater: **Tenda_EXT**, and the **Cellular Data** (if any) function is disabled. Then manually start a web browser, enter **re.tenda.cn** in the address bar and visit the address.
- Reset the WiFi extender and try again.

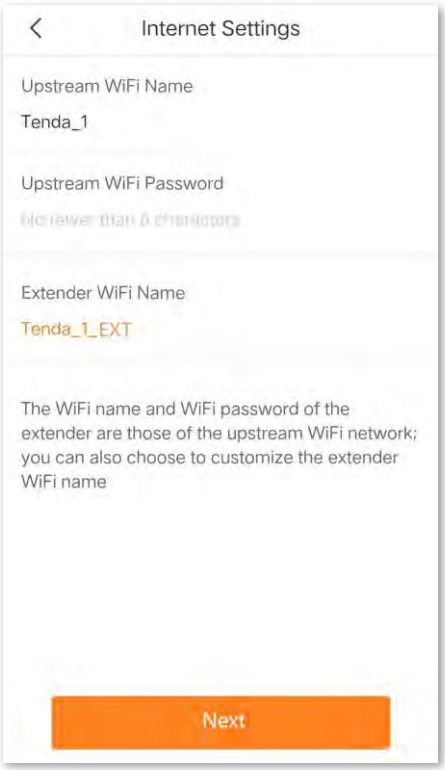
3. Set a login password for network security (recommended) and tap **Next.**



4. Select **Extender Mode**, then tap **Next.**

5. Select the WiFi network you want to extend, which is **Tenda_1** in this example.

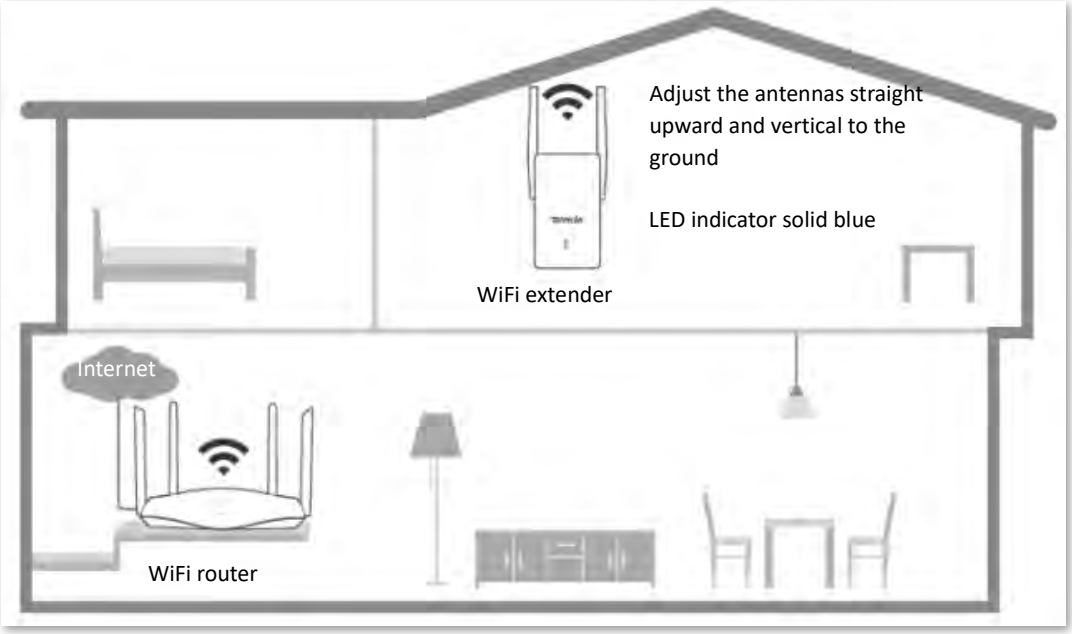
6. Enter the WiFi password of the WiFi network you selected, and modify the extender WiFi name as necessary (The WiFi name has been modified in the following example), then tap **Next**.



Configuration on the web UI completed.

Step 3 Relocate the WiFi extender.

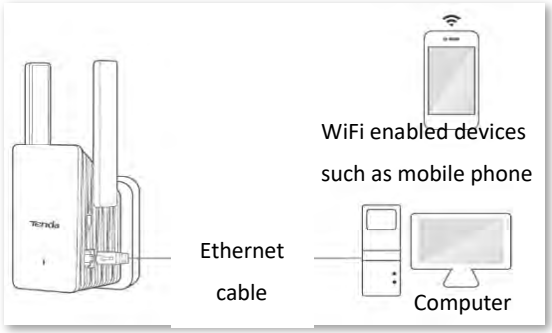
1. For better performance, you can relocate the WiFi extender as suggested below:
   - Place the WiFi extender within the range of your existing WiFi network.
   - Place it at a spacious position without obstacles.
   - Keep it away from electronics with strong interference, such as microwave ovens, bluetooth devices, and refrigerators.
2. Check the color of the LED indicator to ensure the WiFi extender is at a proper position.
   - Solid blue: Proper location.
   - Solid yellow: Fair position. Move towards the router.
   - Solid red: Too far away from the router. Move towards the router.



---End

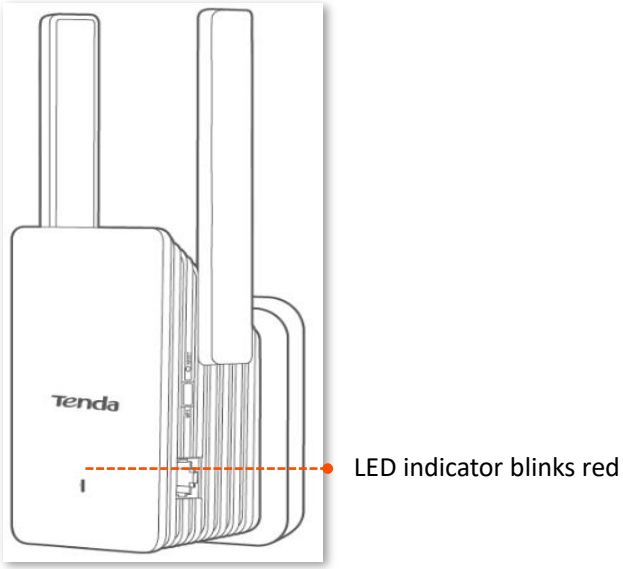
Connect your WiFi enabled devices to the extended network of the WiFi extender to access the internet.

- **WiFi Name**: WiFi name you set or WiFi name of the router
- **WiFi Password**: Wifi password of the router



Scenario 2: Computer as the WiFi enabled device

Step 1 Plug the WiFi extender into a power outlet near the router in the same room. Wait until the LED indicator of the WiFi extender turns blinking red.

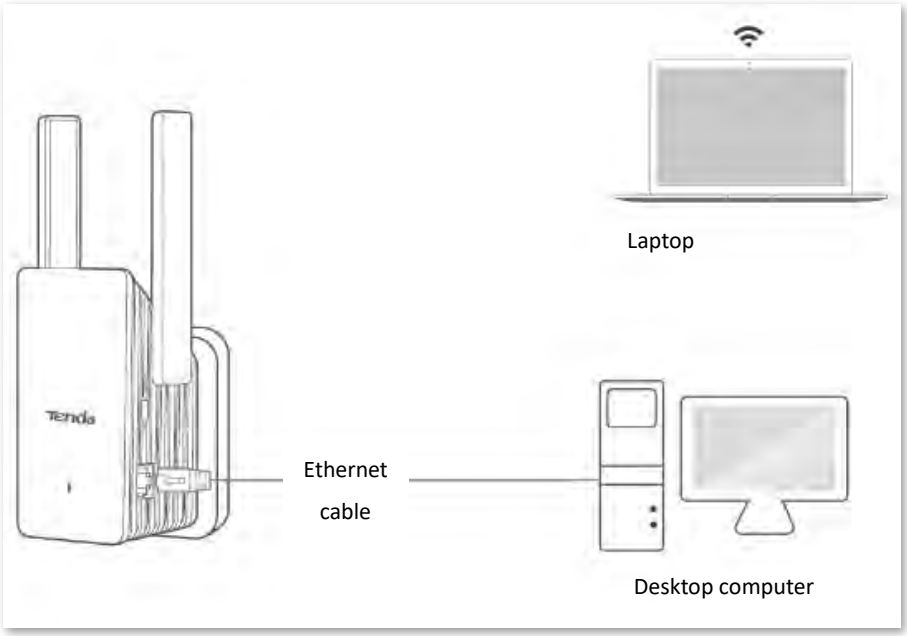


Step 2 Extend your WiFi network

1. Connect your laptop to the WiFi network of the WiFi extender: **Tenda_EXT**, or connect your desktop computer to the LAN port of the WiFi extender with an Ethernet cable.

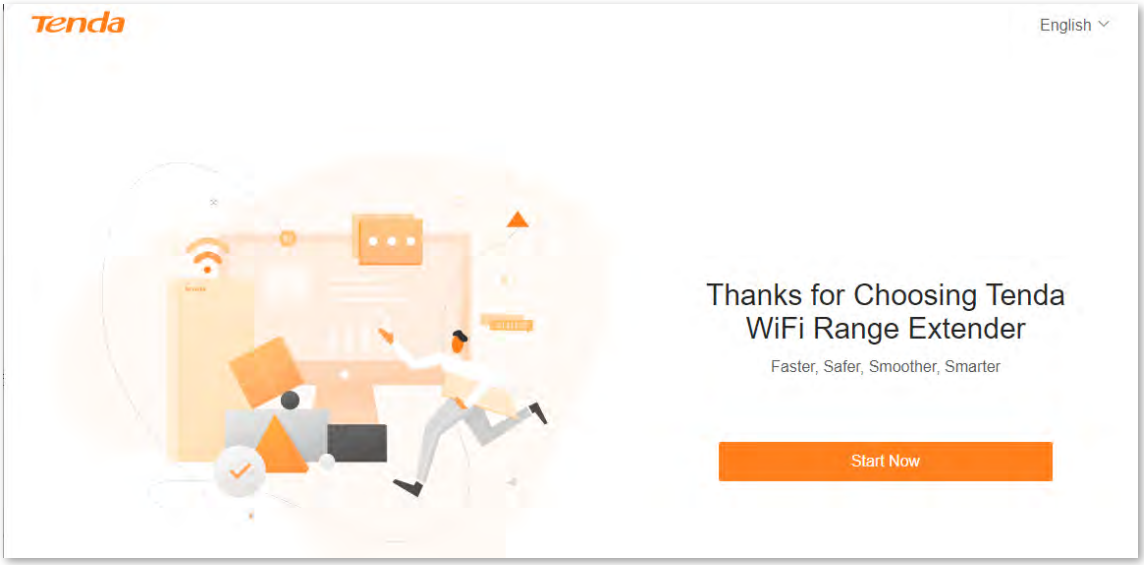
TIP

If you want to connect to the wireless network of the WiFi extender through a desktop computer, you need to install a wireless network card in the desktop computer.



A quick setup page appears automatically.

2. Click **Start Now**.

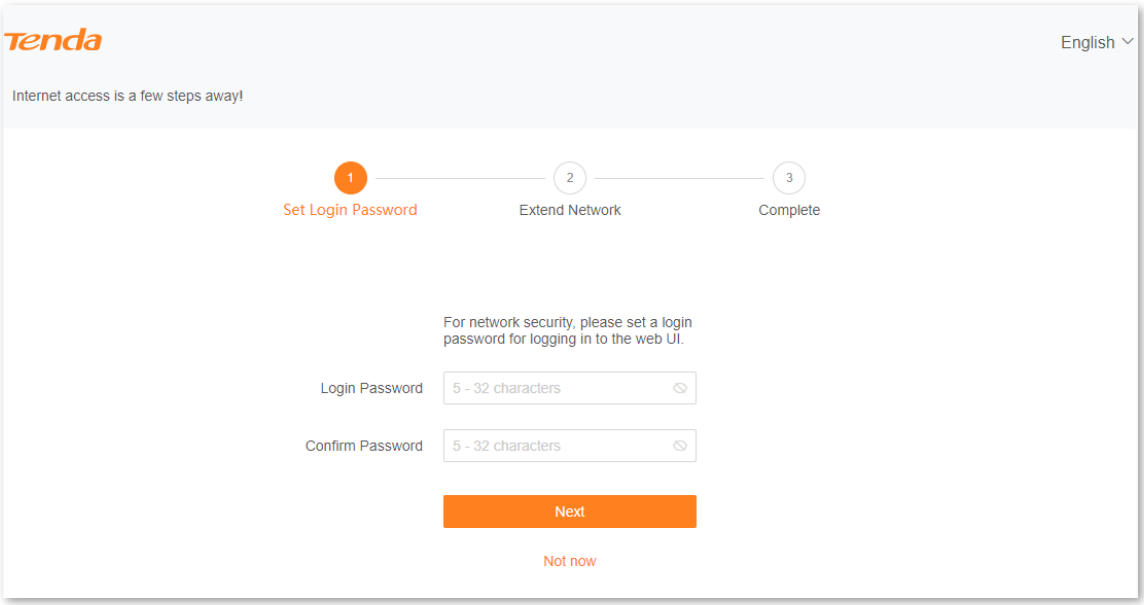


TIP

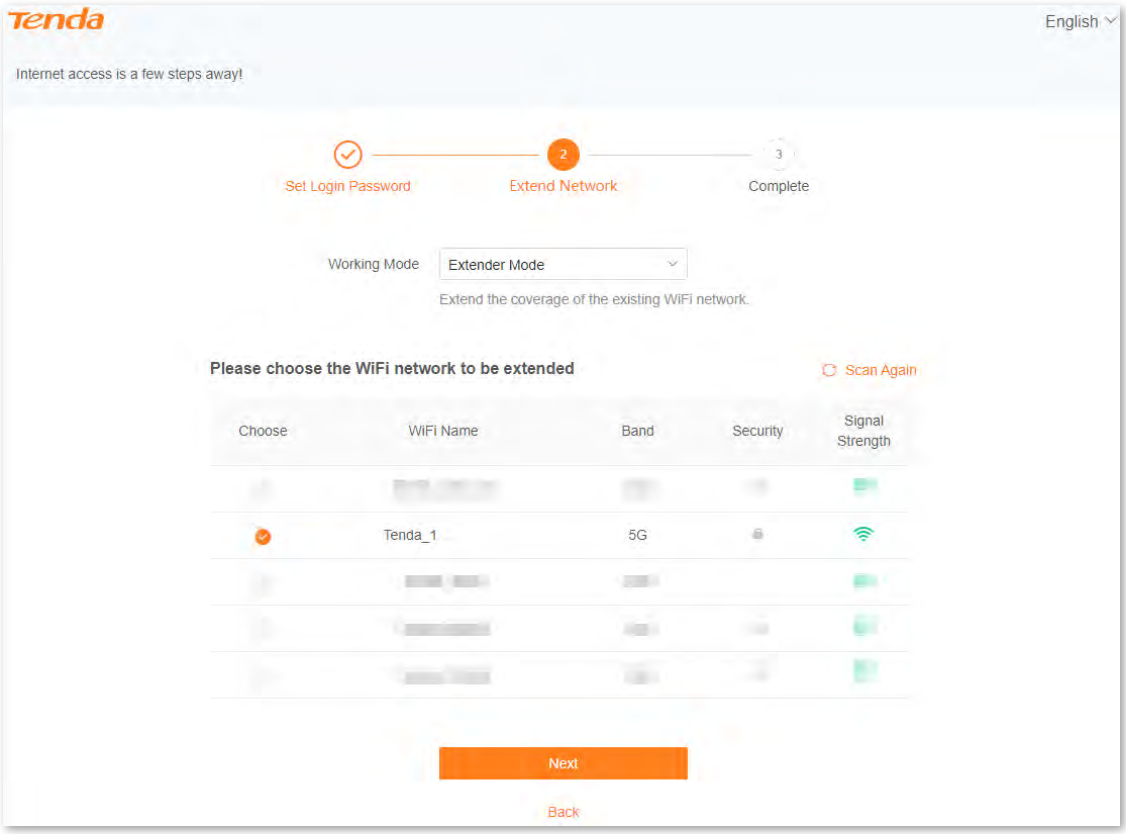
If the page does not appear, try the following solutions:

- Ensure that your computer has set to **Obtain an IP address automatically** and **Obtain DNS server address automatically**.
- You can manually start a web browser, enter re.tenda.cn in the address bar and visit the address.

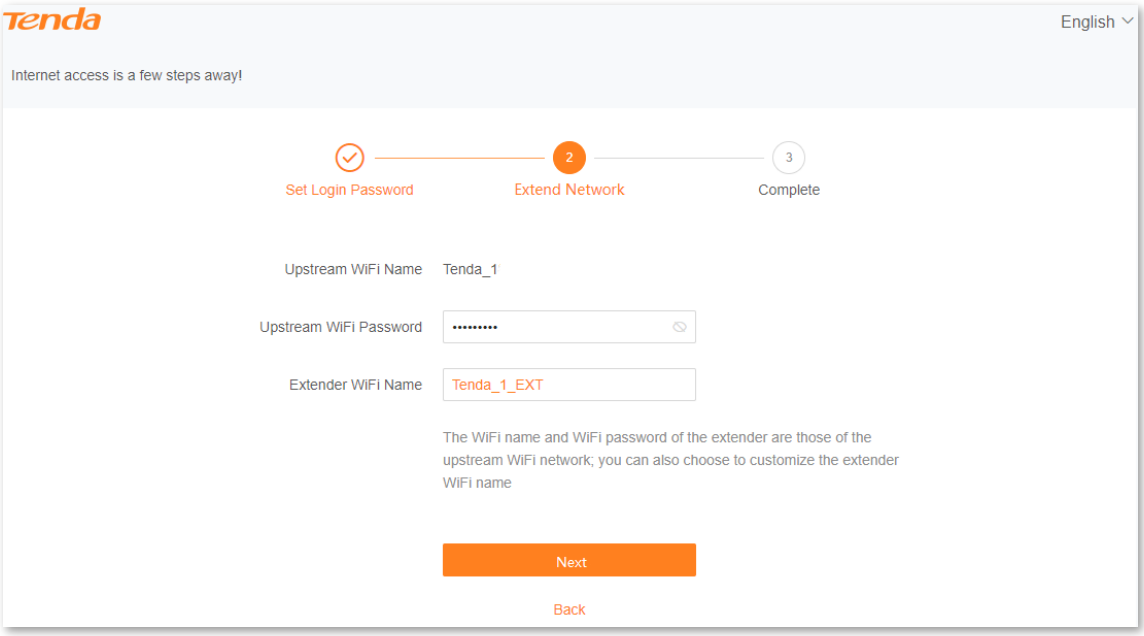
3. Set a login password for network security (recommended) and click **Next**.



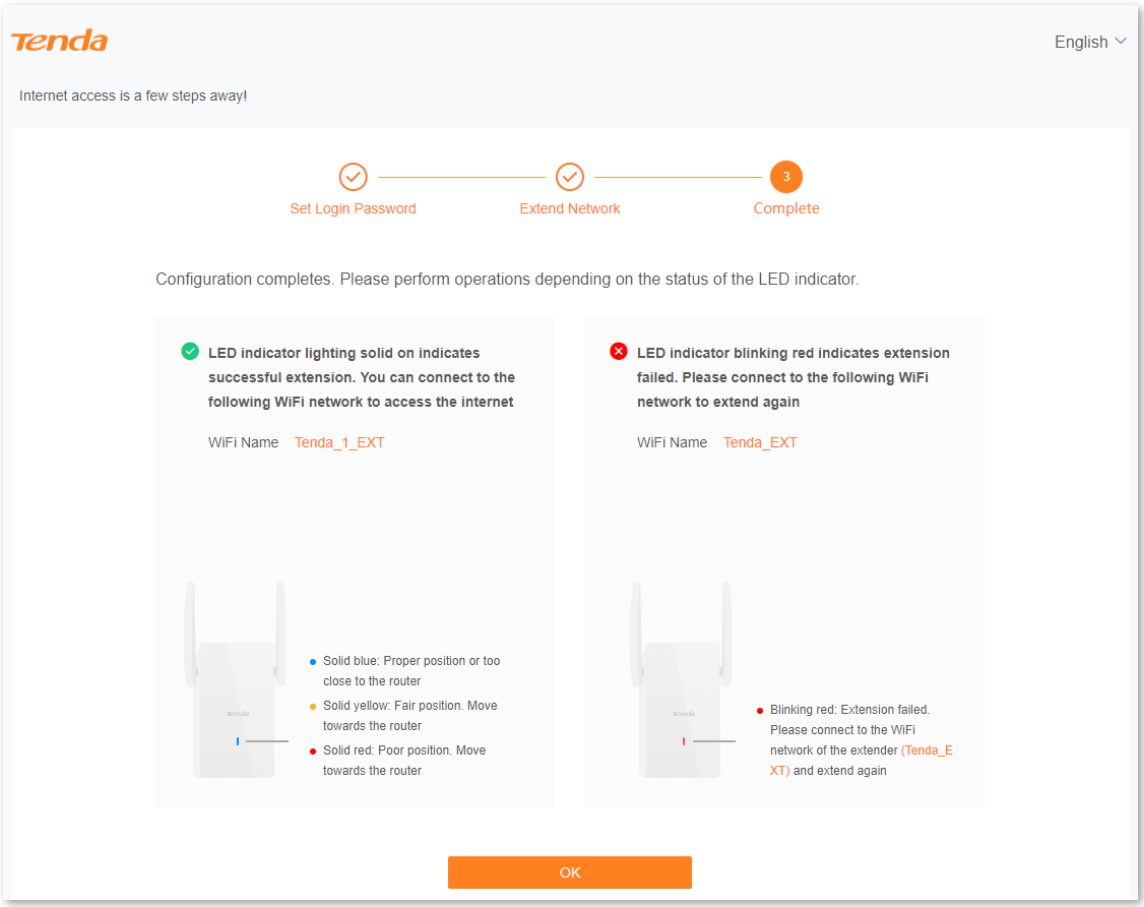
4. Set the **Working Mode** of the WiFi extender as **Extender Mode**, select the WiFi network you want to extend, which is **Tenda_1** in this example, and click **Next**.



5. Enter the WiFi password of the WiFi network you selected, modify the extender WiFi name as necessary (The WiFi name has been modified in the following example), and click **Next**.

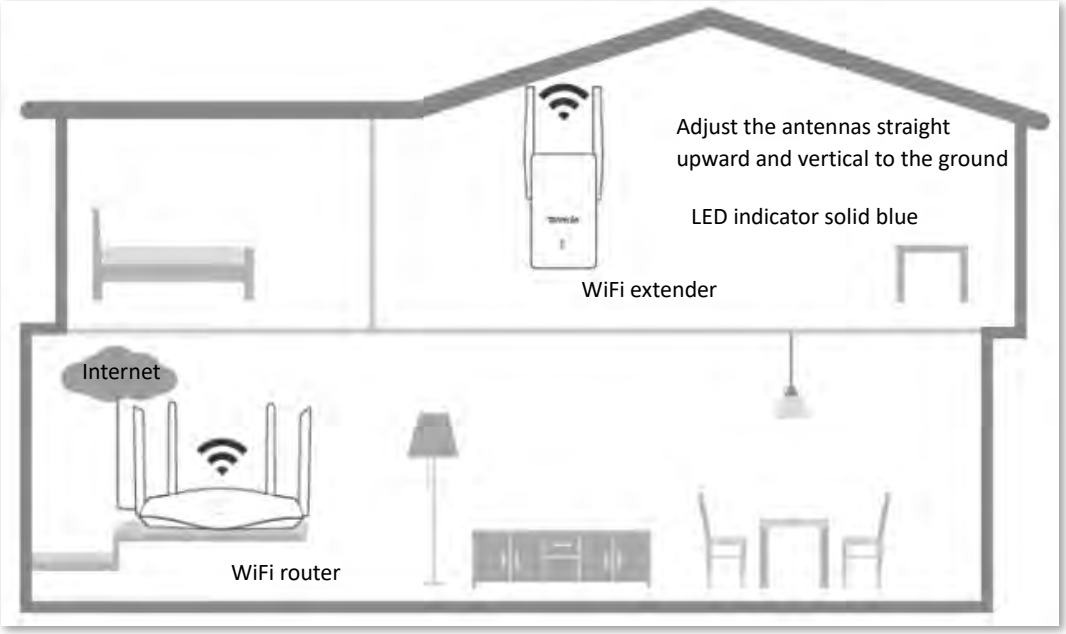


You will see a progress bar, then wait until the following page appears. Configuration completed.



Step 3 Relocate the WiFi extender.

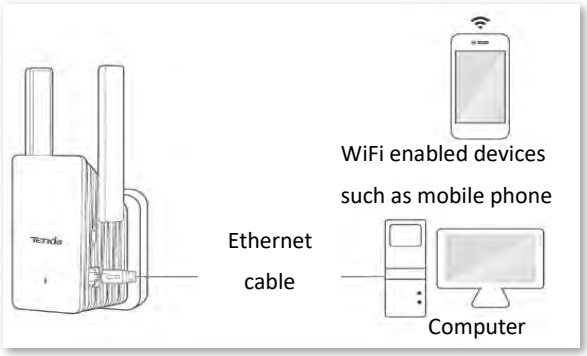
1. For better performance, you can relocate the WiFi extender as suggested below:
   - Place the WiFi extender within the range of your existing WiFi network.
   - Place it at a spacious position without obstacles.
   - Keep it away from electronics with strong interference, such as microwave ovens, bluetooth devices, and refrigerators.
2. Check the color of the LED indicator to ensure the WiFi extender is at a proper position.
   - Solid blue: Proper location.
   - Solid yellow: Fair position. Move towards the router.
   - Solid red: Too far away from the router. Move towards the router.



---End

Connect your WiFi enabled devices to the extended network of the WiFi extender to access the internet.

- **WiFi Name**: WiFi name you set or WiFi name of the router
- **WiFi Password**: WiFi password of the router

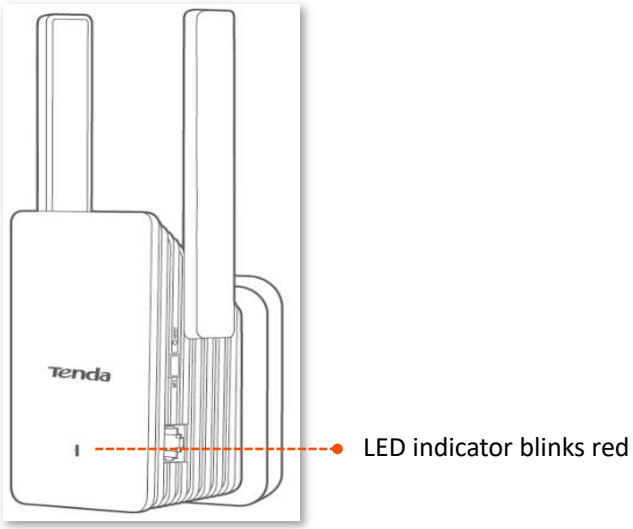


Method 2: Extend your WiFi networks using WPS

TIP

If your WiFi router has a WPS button, which may be indicated by , , or , or support Tenda WiFi + Mesh technology, this method is recommended to extend WiFi networks, sparing the trouble to enter WiFi password. Otherwise, use Method 1.

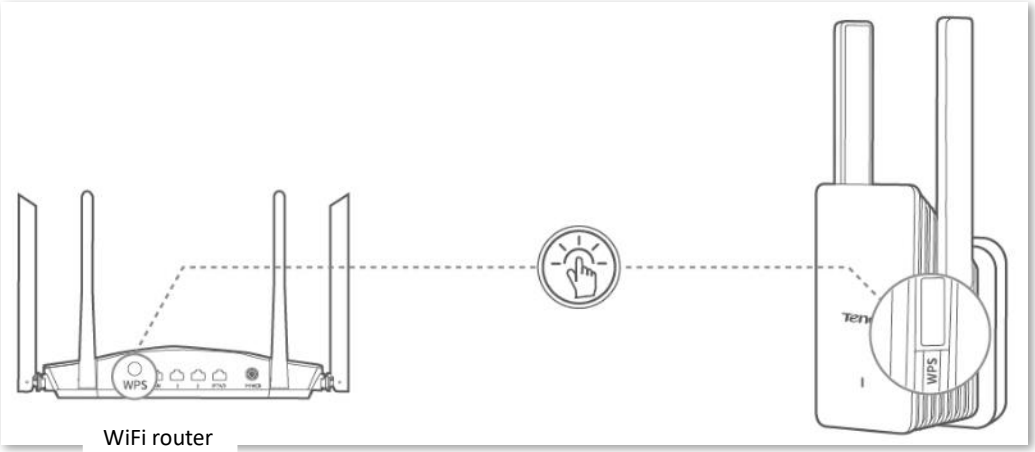
Step 1 Plug the WiFi extender into a power outlet near the router in the same room. Wait until the LED indicator turns blinking red.



Step 2 Extend your WiFi network.

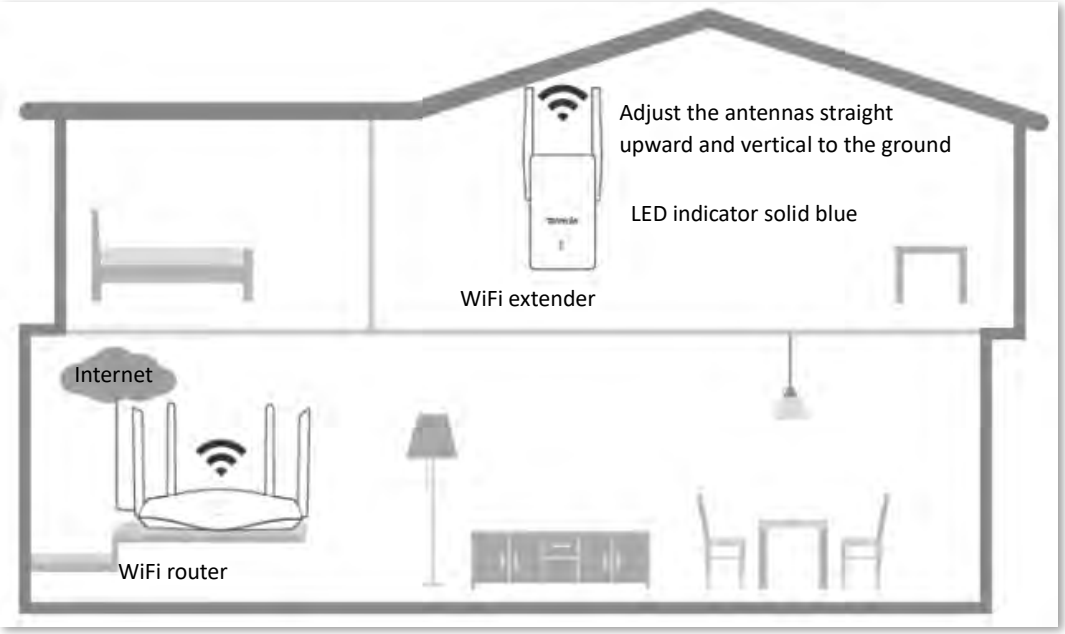
1. Press the **WPS** button on the router to enable the WPS function.
2. Press the **WPS** button on the WiFi extender within 2 minutes. The LED indicator will blink red quickly.

When the LED indicator on the WiFi extender turns solid on, the network is extended successfully.



Step 3 Relocate the WiFi extender.

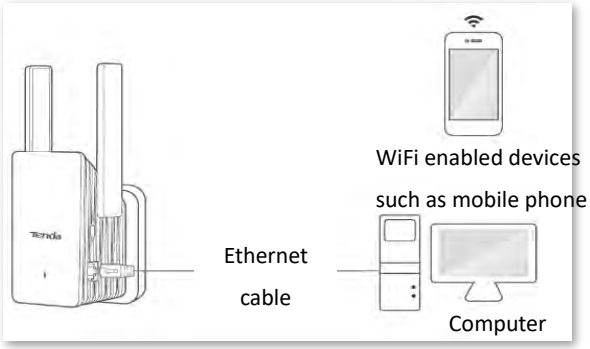
1. For better performance, you can relocate the WiFi extender as suggested below:
   - Place the WiFi extender within the range of your existing WiFi network.
   - Place it at a spacious position without obstacles.
   - Keep it away from electronics with strong interference, such as microwave ovens, bluetooth devices, and refrigerators.
2. Check the color of the LED indicator to ensure the WiFi extender is at a proper position.
   - Solid blue: Proper location.
   - Solid yellow: Fair position. Move towards the router.
   - Solid red: Too far away from the router. Move towards the router.



---End

Connect your WiFi enabled devices to the extended network of the WiFi extender to access the internet.

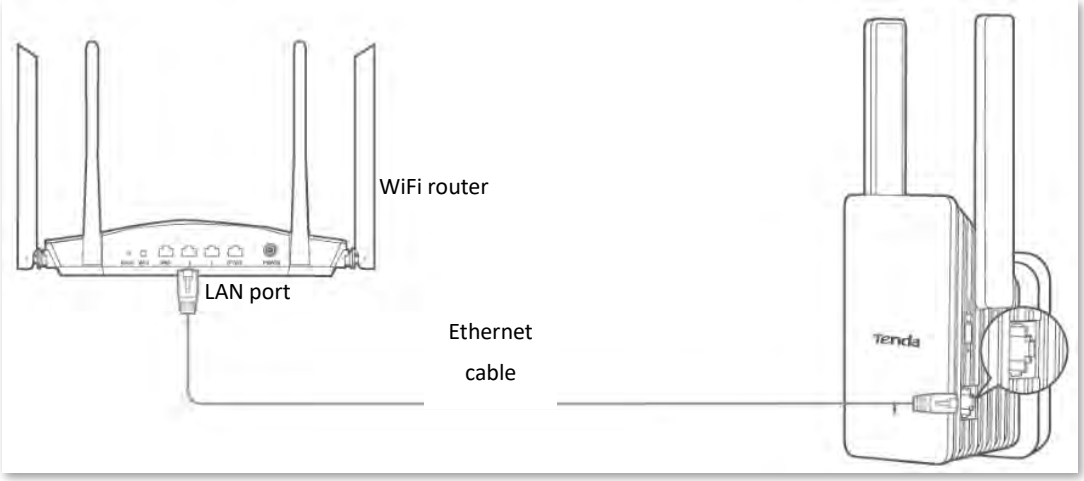
- **WiFi Name:** WiFi name you set or WiFi name of the router
- **WiFi Password:** WiFi password of the router



2.3 AP mode

This section uses an Android phone for illustration. You can also perform the following steps for configuration on a tablet or laptop.

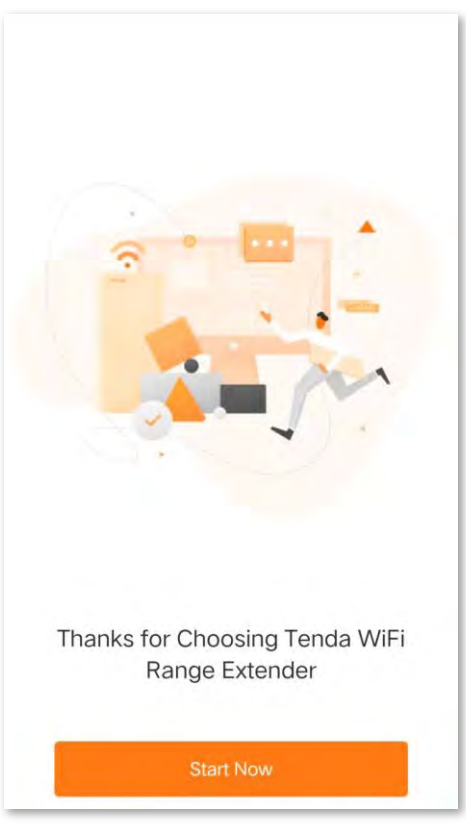
Step 1 Use an Ethernet cable to connect the Ethernet port of the WiFi extender to a LAN port of the router.



Step 2 Connect your mobile phone to the WiFi network of the WiFi extender: **Tenda_EXT**.

A quick setup page appears automatically.

Step 3 Tap **Start Now**.

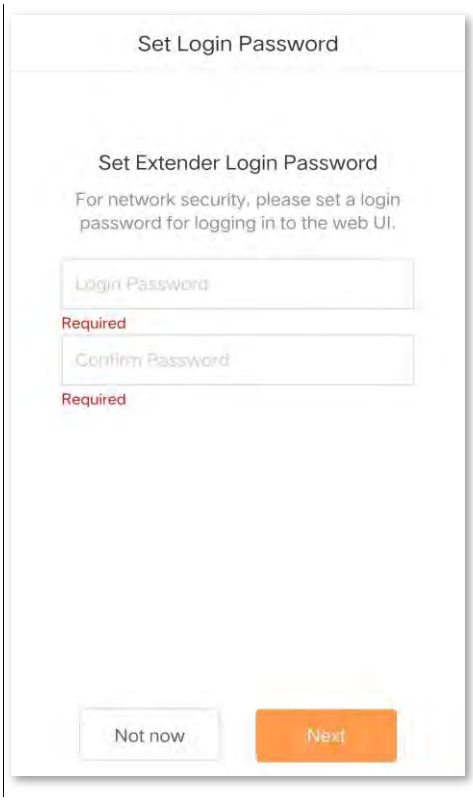


TIP

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

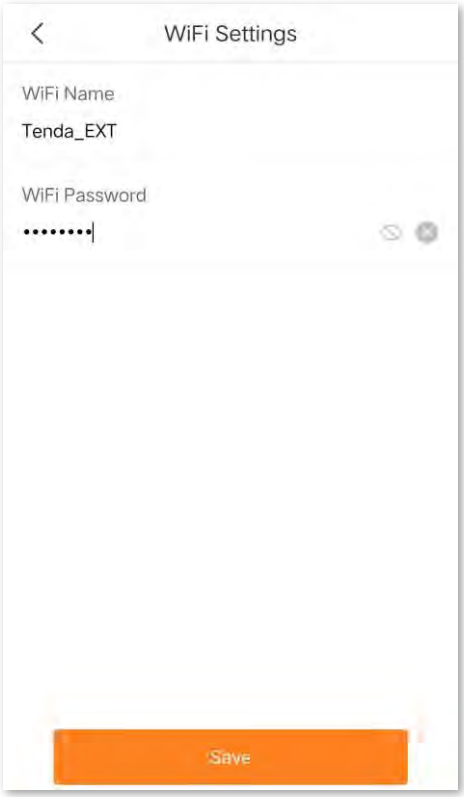
- Ensure that your device has connected to the WiFi network of the WiFi repeater: **Tenda_EXT**, and the **Cellular Data** (if any) function is disabled. Then manually start a web browser, enter **re.tenda.cn** in the address bar and visit the address.
- Reset the WiFi repeater and try again.

Step 4 Set a login password for network security (recommended) and tap **Next**.



Step 5 Select **AP Mode**, then tap **Next**.

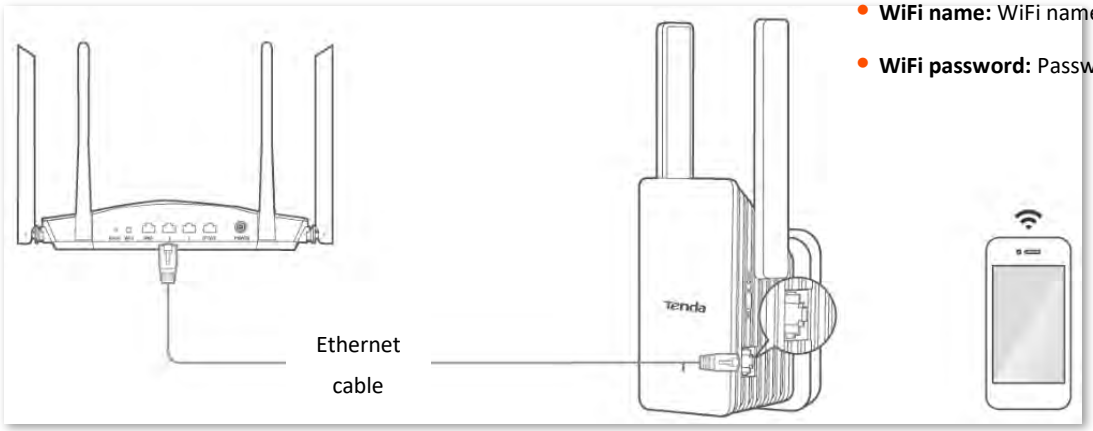
Step 6 Set a WiFi name and password for the WiFi extender, then tap **Save**.



Configuration completed.

---End

Connect your WiFi enabled devices to the WiFi network of the WiFi extender to access the internet.



- **WiFi name:** WiFi name you set
- **WiFi password:** Password you set

WiFi enabled devices such as mobile phone

3 Login to the Web UI

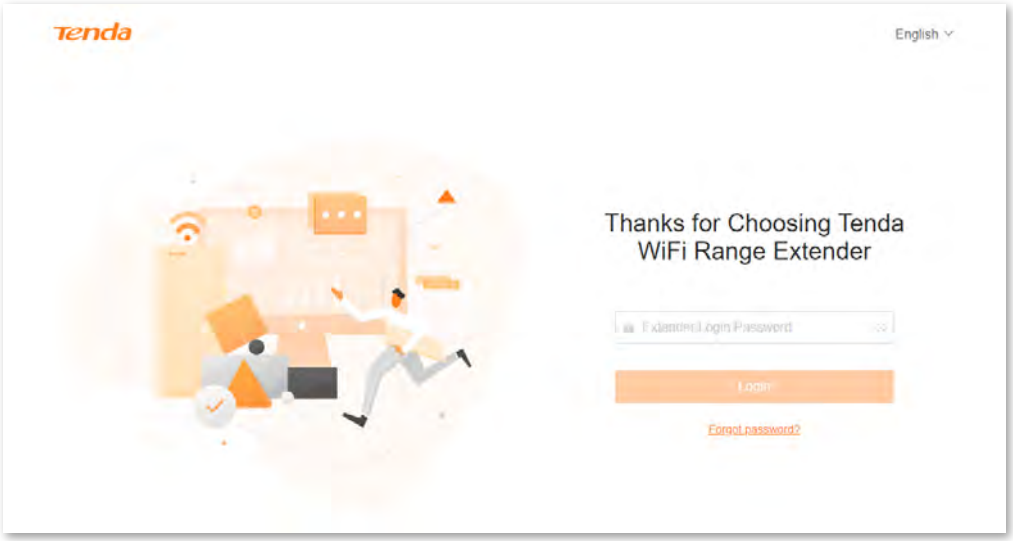
If it is the first time you use a WiFi extender or you have reset it, please see Quick setup. After a quick setup, you can refer to the following pages to log in to the web UI.

3.1 Login with a computer (applicable only to Extender Mode)

Step 1 Use an Ethernet cable to connect your computer to the Ethernet port of the WiFi extender.

Step 2 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar (not search box) to access the web UI of the WiFi extender.

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



---End

TIP

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

- Ensure that your WiFi extender is powered on properly.
- Ensure that your computer has been set to **Obtain an IP address automatically** and **Obtain DNS server address automatically**.
- Reset the WiFi extender to factory settings, then re-login to the web UI. To reset the WiFi extender to factory settings: After the WiFi extender completes startup, you can hold down RESET button using a needle-like item (such as a pin) for about 1-3 seconds. The WiFi extender is reset to factory settings when the LED indicator blinks blue.

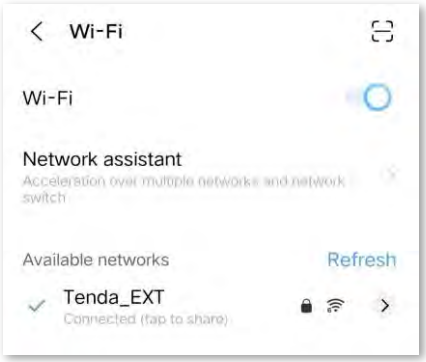
After logging in to the web UI, you will see the following page:

Tenda
Thanks for Choosing Tenda WiFi Range Extender
English
Exit
Network Status
Re-extend
WiFi Settings
Client Management
Working Mode
More
Network Status
2.4 GHz
93%
5 GHz
85%
Internet
Upstream Router/Modem
Extender
Client (2)
Upstream WiFi Name
Tenda_123456
Tenda_123456_5G
Extender WiFi Name
Tenda_EXT

3.2 Login with a mobile phone/tablet

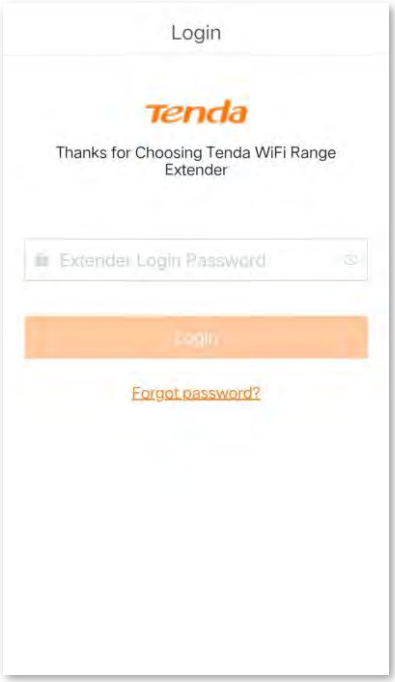
This section uses an Android phone for illustration. You can also perform the following steps for configuration on a tablet.

Step 1 Connect your mobile phone to the WiFi network (**Tenda_EXT** for example) of the WiFi extender.



Step 2 Start a web browser on the mobile phone connected to the WiFi extender, and enter **re.tenda.cn** in the address bar (not search box) to access the web UI of the WiFi extender.

Step 3 Enter your login password, then tap **Login**.



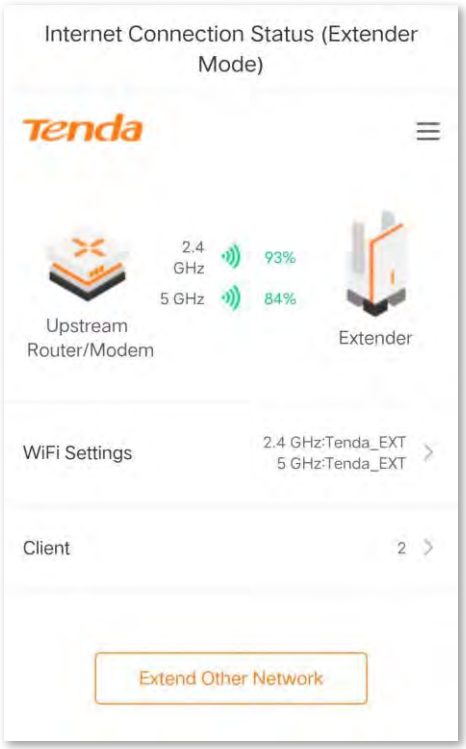
---End

TIP

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

- Ensure that your mobile phone has connected to the WiFi network of the WiFi extender.
- Ensure that the Cellular Data (if any) function of your mobile phone is disabled.
- Reset the WiFi extender to factory settings, then re-login to the web UI. To reset the WiFi extender to factory settings: After the WiFi extender completes startup, you can hold down RESET button using a needle-like item (such as a pin) for about 1-3 seconds. The WiFi extender is reset to factory settings when the LED indicator blinks blue.

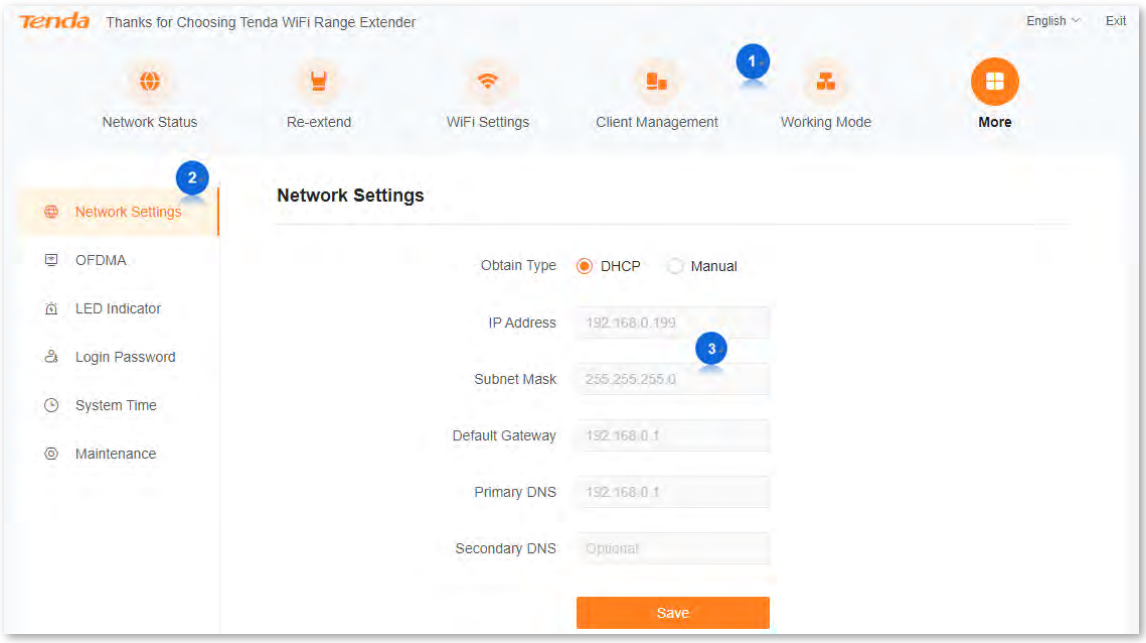
After logging in to the web UI, you will see the following page:



4 Web UI

4.1 Web UI layout

The Web UI of the WiFi extender is composed of two parts, including navigation bars and configuration area. See the following figure:



TIP

Functions or parameters in grey on the web UI are not supported by the WiFi extender or cannot be modified with the current configuration.

No.	Name	Description
1 2	Navigation bar	The navigation bar displays the function menu of the WiFi extender. When you select a function in navigation bar, the configuration of the function appears in the configuration area.
3	Configuration area	It enables you to view and modify configuration.

4.2 Common buttons

The following table describes the common buttons available on the web UI.

Common Buttons	Description
Save	It is used to save the configuration on the current page and enable the configuration to take effect.
Cancel	It is used to go back to the original configuration without saving the configuration on the current page.

5 Network Status

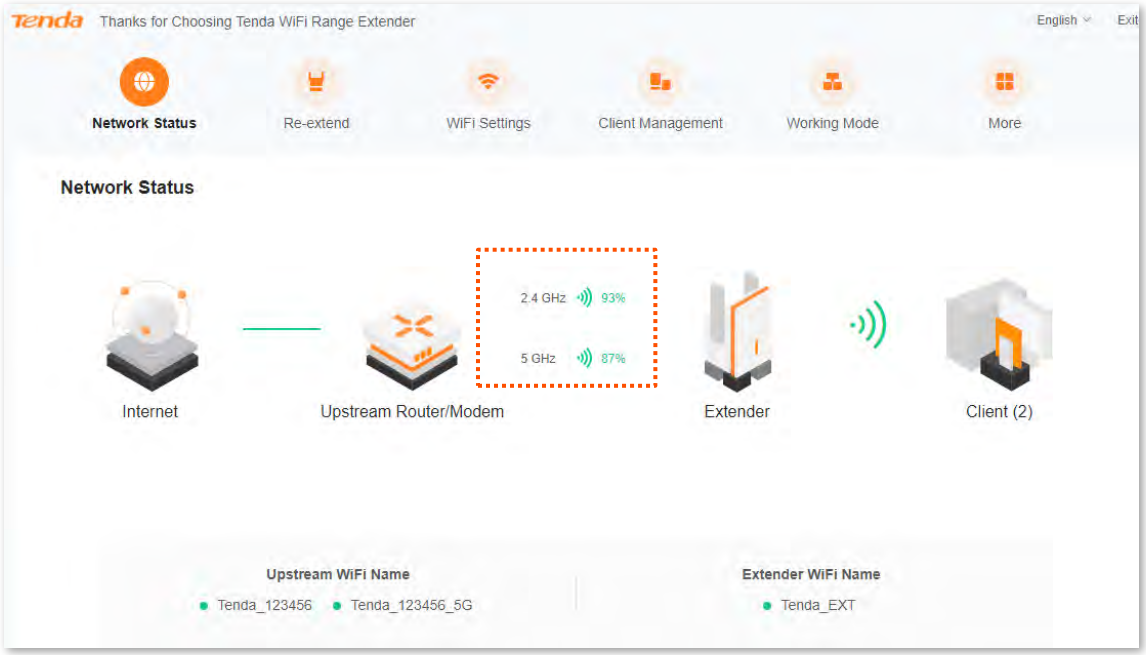
In this module, you can:

- View whether the network is extended successfully
- View network status of the WiFi extender
- View the number of WiFi enabled devices in the network
- View the WiFi name of the WiFi extender

5.1 View whether the network is extended successfully

To access the page, choose **Network Status**.

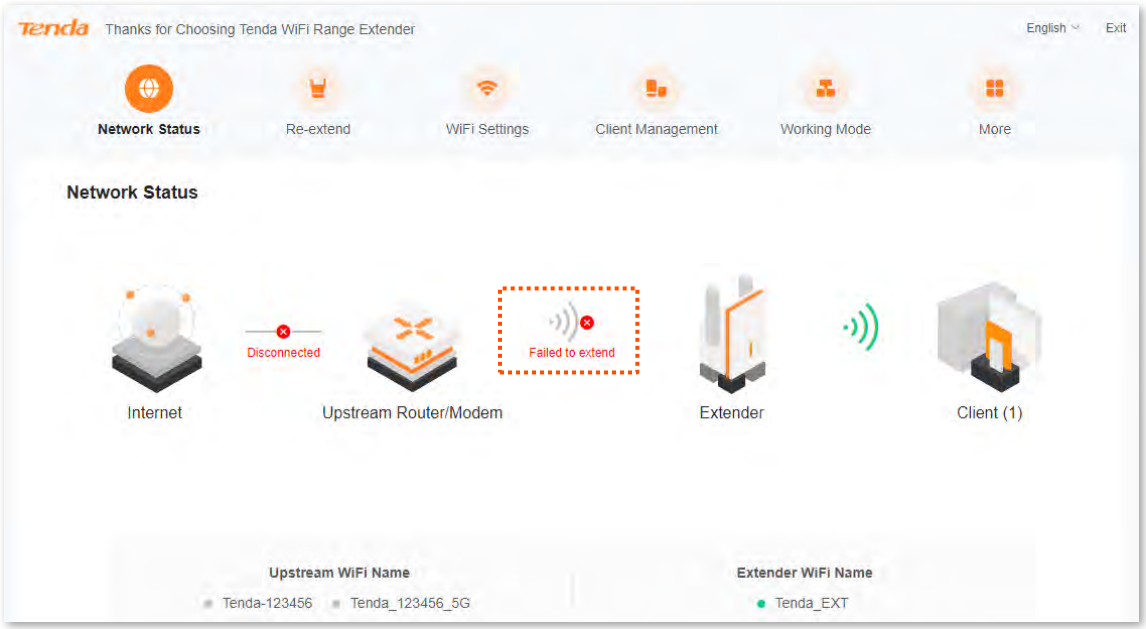
In the **extender mode**, if you see the upstream WiFi signal strength (displayed in percentage) between the **Upstream Router/Modem** and the **Extender**, which is shown as below:



It indicates:

The WiFi extender has extended the WiFi network of the upstream device. You can connect your network devices to the WiFi network or Ethernet port (with an Ethernet cable) of the WiFi extender to access the internet.

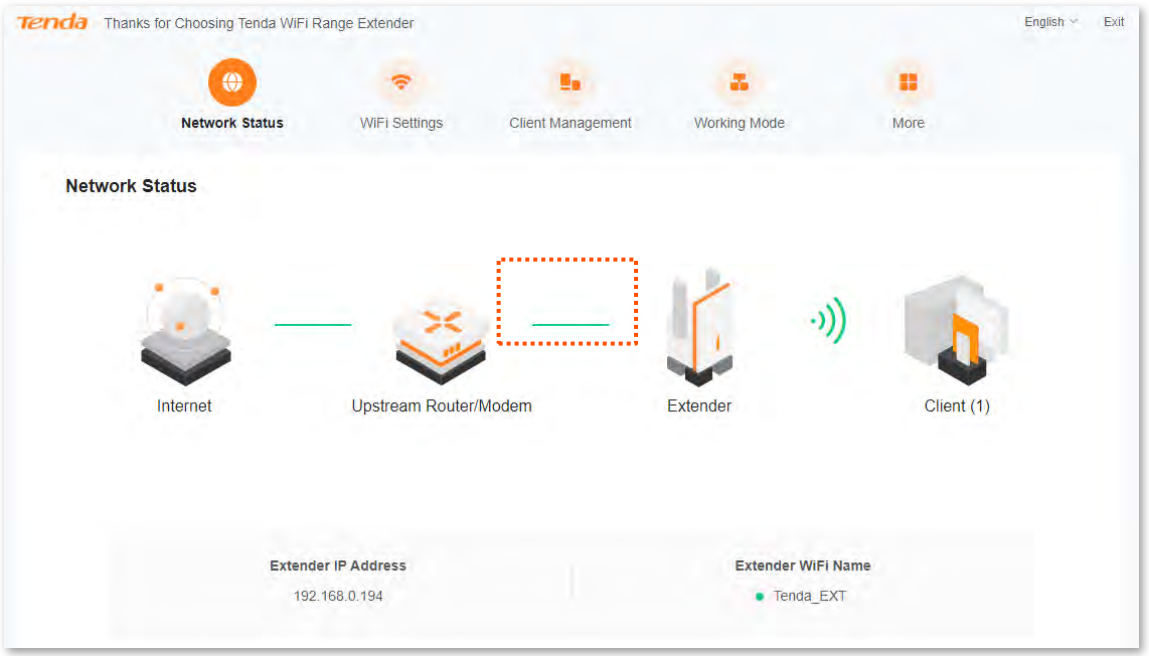
However, if you see **Failed to extend** between **Upstream Router/Modem** and the **Extender**, which is shown as below:



It indicates:

The WiFi extender failed to extend the WiFi network of the upstream device. You are recommended to access the **Re-extend** page to re-extend the WiFi network. Please refer to Re-extend for details.

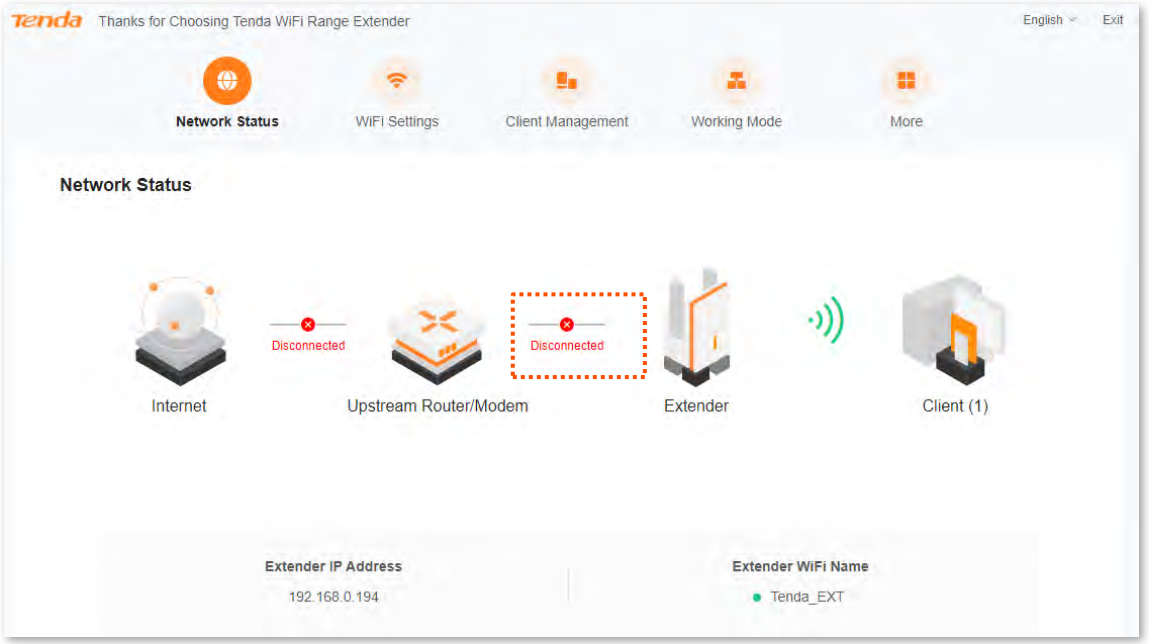
In the **AP mode**, if you see normal connection between the **Upstream Router/Modem** and the **Extender**, which is shown as below:



It indicates:

The WiFi extender has been connected to the upstream device with an Ethernet cable. You can connect your network devices to the WiFi network of the WiFi extender to access the internet.

However, if you see **Disconnected** between **Upstream Router/Modem** and the **Extender**, which is shown as below:



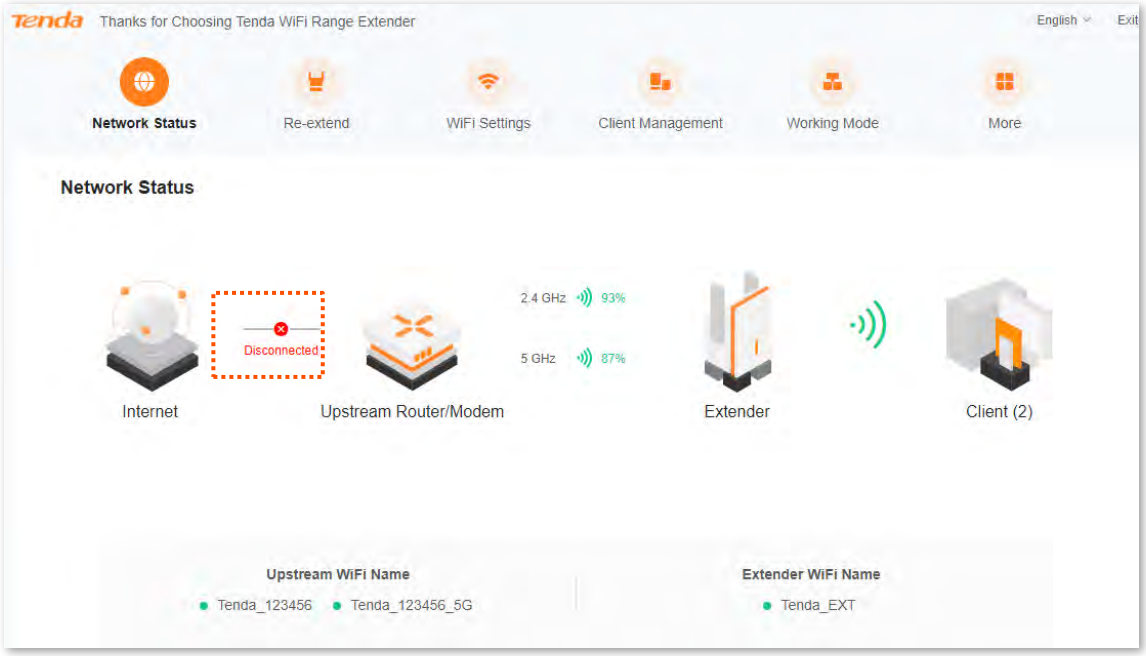
It indicates:

The WiFi extender is not properly connected to the upstream device. You are recommended to check the Ethernet cable between the WiFi extender and the upstream device to ensure that the Ethernet cable is connected to the LAN port of the upstream device and the Ethernet port of the WiFi extender properly.

5.2 View network status of the WiFi extender

To access the page, choose **Network Status**.

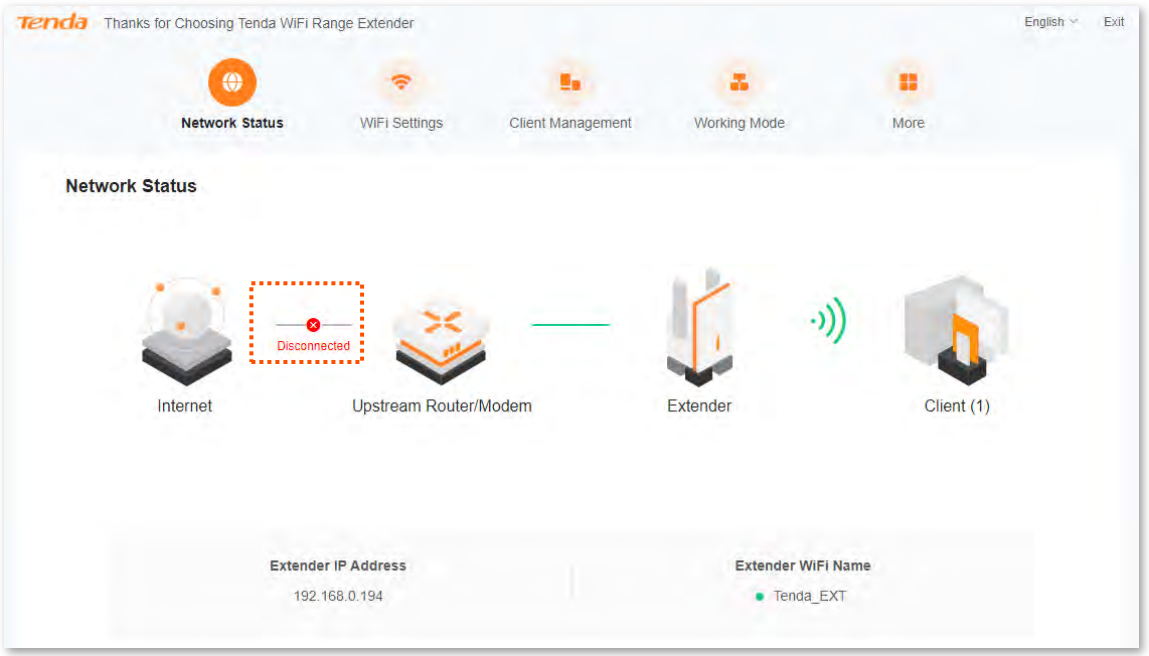
In the **extender mode**, if you see **Disconnected** between **Internet** and the **Upstream Router/Modem**, which is shown as below:



It indicates:

The upstream device is disconnected from the internet, and the WiFi extender fails to access the internet. You are recommended to check the network status of the upstream device.

In the **AP Mode**, if you see **Disconnected** between **Internet** and the **Upstream Router/Modem**, which is shown as below:



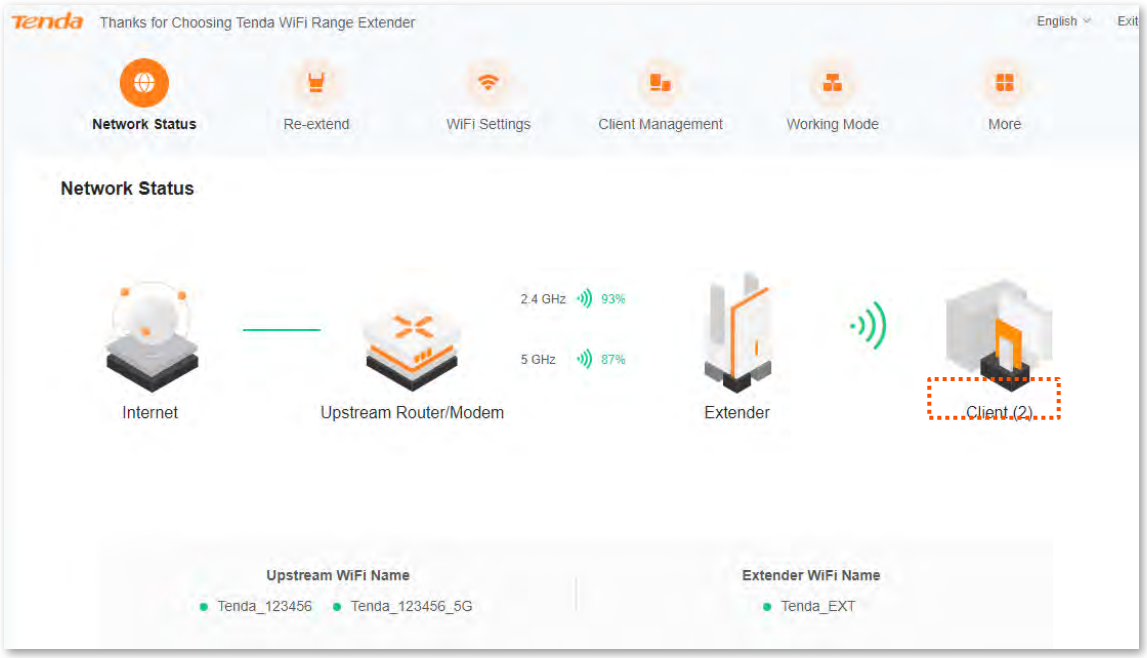
It indicates:

The upstream device is disconnected from the internet, and the WiFi extender fails to access the internet. You are recommended to check the network status of the upstream device.

5.3 View the number of WiFi enabled devices in the network

To access the page, choose **Network Status**.

On this page, you can view the number of existing WiFi enabled devices connected to the WiFi network of the WiFi Extender. Click icon, then you can access the Client Management page to perform more configurations.

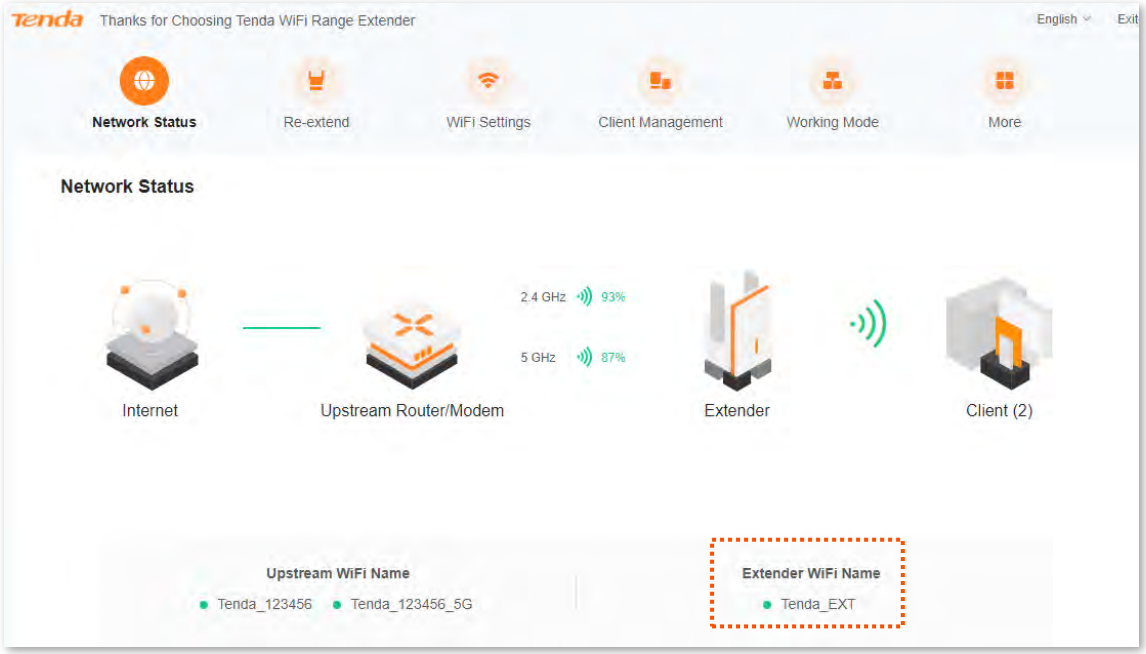


5.4 View the WiFi name of the WiFi extender

To access the page, choose **Network Status**.

On this page, you can view the WiFi name of the WiFi extender or the upstream device. You can also refer to WiFi Settings for more WiFi information about the WiFi extender.

Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender. You can view the WiFi name of the WiFi extender on the **Network Status** page.



6 Re-extend

You can configure this function only in the **Extender Mode**.

You can try re-extending the WiFi network under the following circumstance:

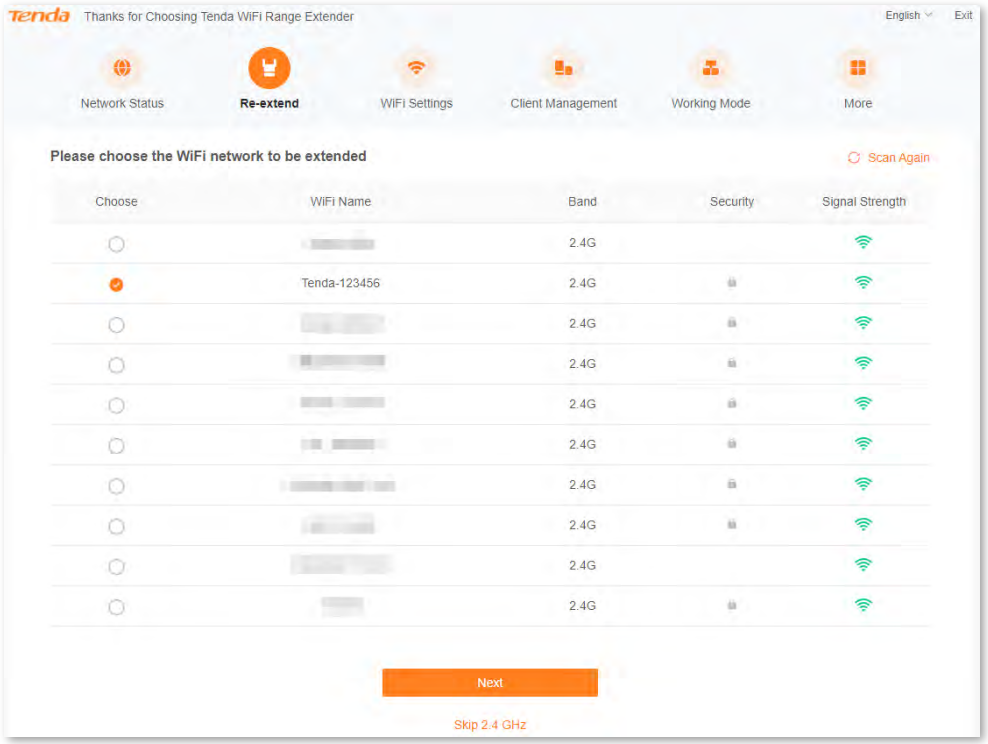
- When the WiFi extender fails to extend the WiFi network of the upstream device;
- When you have successfully extended a WiFi network but want to extend another one;
- When you only successfully extended the WiFi network in a single frequency band and are to extend the WiFi network in the other frequency band.

Configuration procedure:

Step 1 Plug the WiFi extender into a power outlet near the router in the same room.

Step 2 Re-extend your WiFi network.

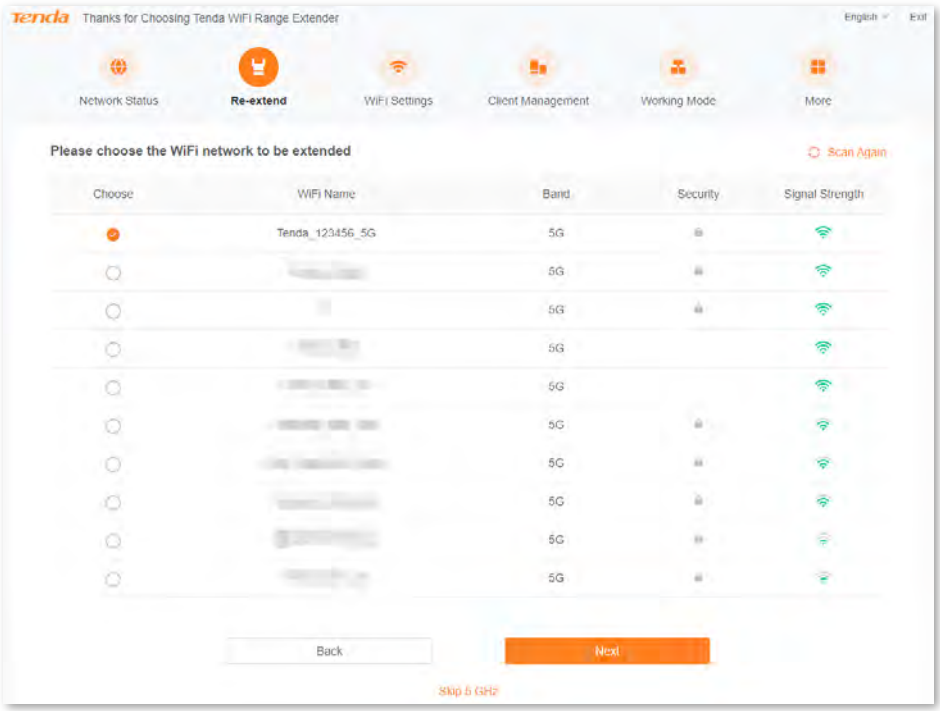
1. Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.
2. Click **Re-extend**.
3. If you want to re-extend 2.4 GHz WiFi, please select the WiFi name of 2.4 GHz WiFi to be extended, for example, “Tenda-123456”, and click **Next**. Otherwise, you can click **Skip 2.4 GHz**.



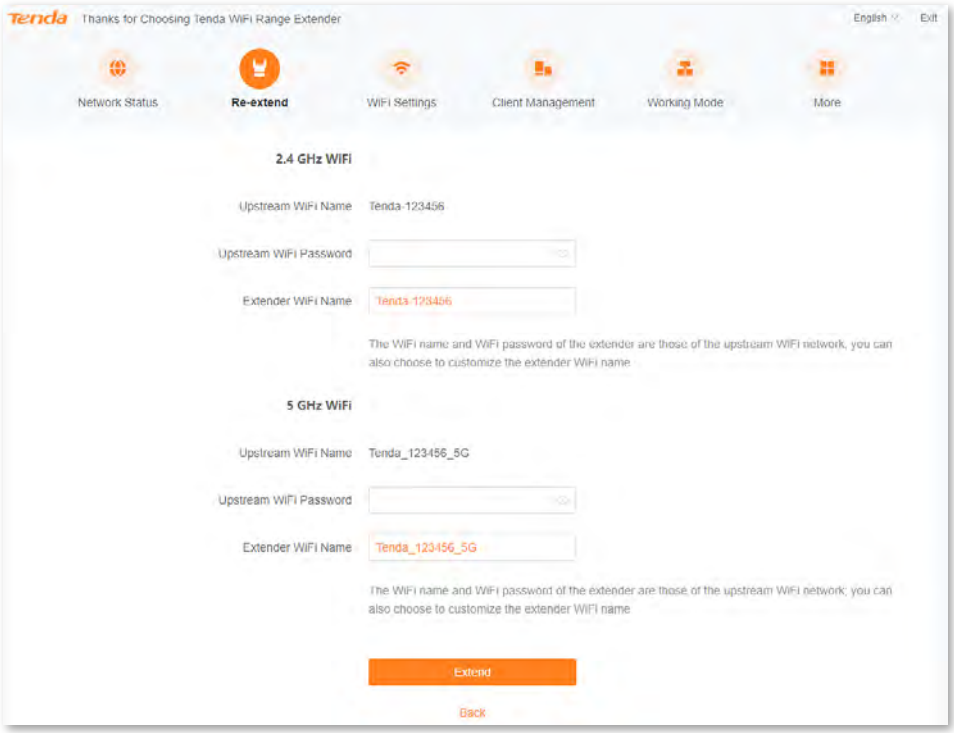
4. If you want to re-extend 5 GHz WiFi, please select the WiFi name of 5 GHz WiFi to be extended, e.g. “Tenda_123456_5G”, and click **Next**. Otherwise, you can click Skip 5 GHz.

NOTE

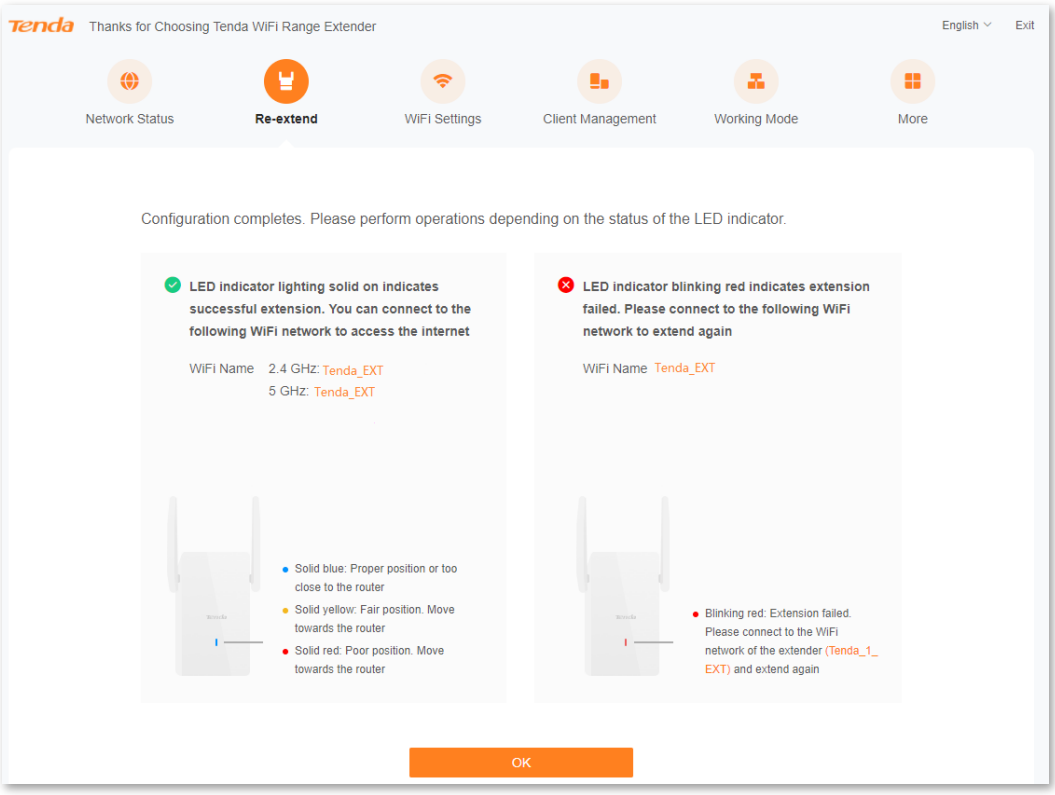
You must choose a WiFi network at least in one frequency band.



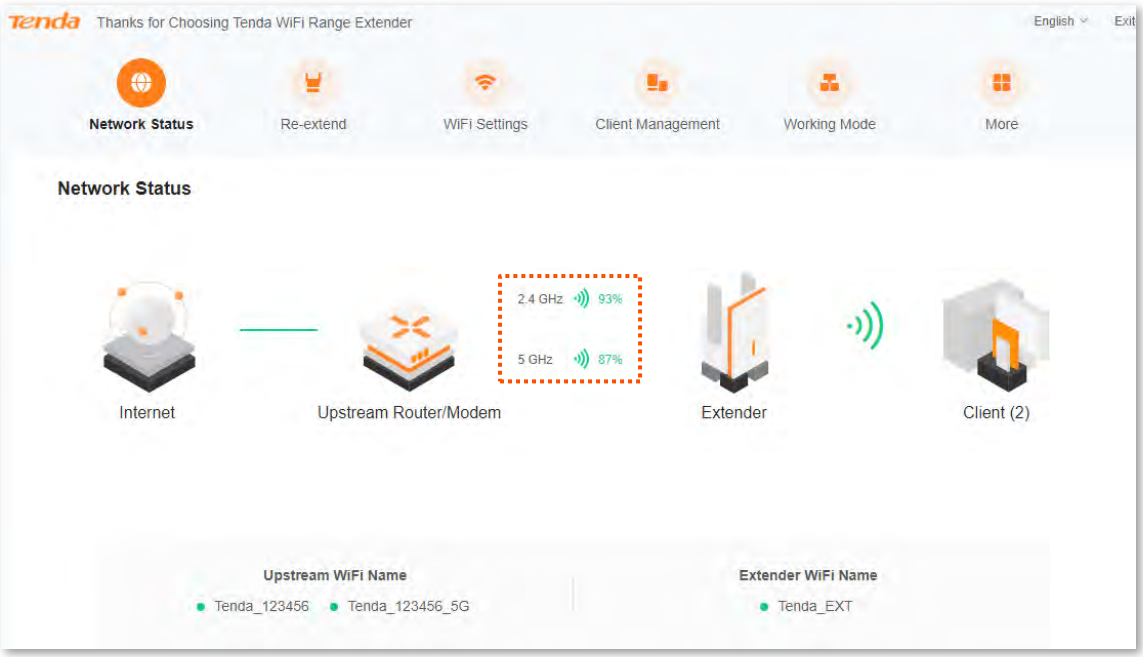
5. Enter the WiFi name of the network to be extended, and modify the extender WiFi name of the 2.4 GHz & 5 GHz WiFi as necessary, then click **Extend**.



You will see a progress bar, then wait until the following page appears. Configuration completed.

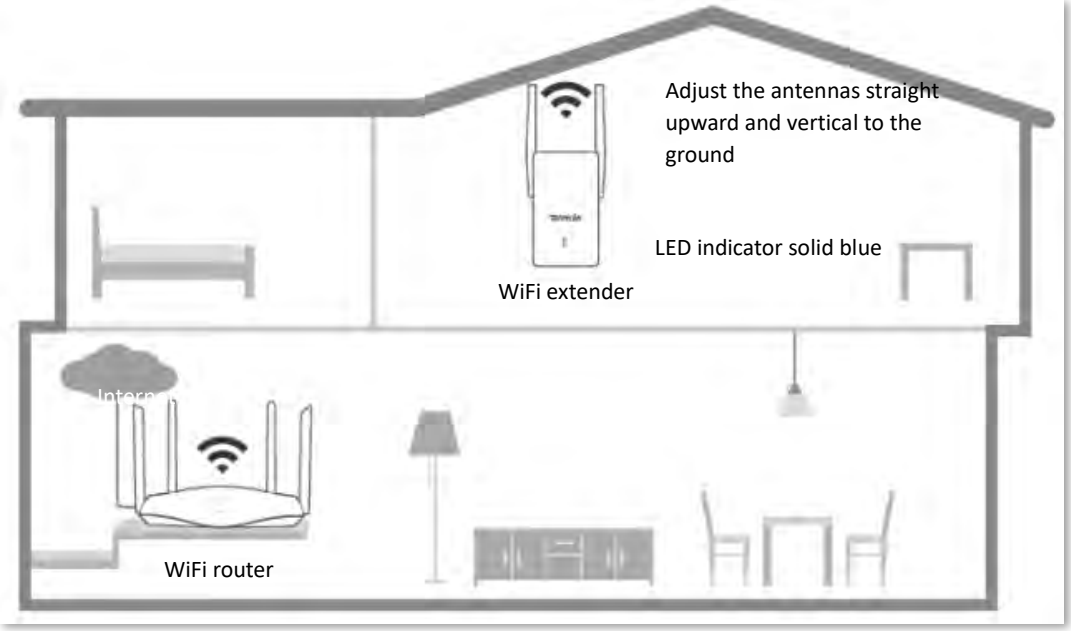


6. Re-log in to the web UI of the WiFi extender, and click **Network Status**. The WiFi extender has successfully extended the WiFi network of the upstream device if you see the upstream WiFi signal strength between the **Upstream Router/Modem** and the **Extender**, which is shown as below:



Step 3 Relocate the WiFi extender.

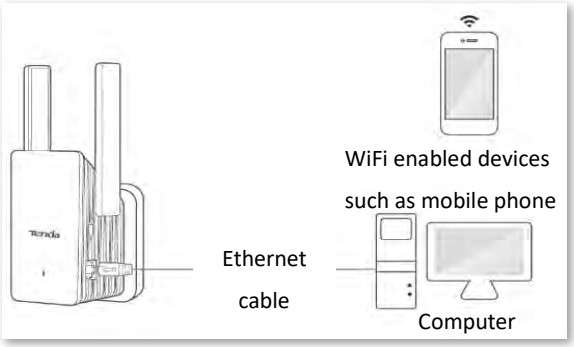
1. For better performance, you can relocate the WiFi extender as suggested below:
   - Place the WiFi extender within the range of your existing WiFi network.
   - Place it at a spacious position without obstacles.
   - Keep it away from electronics with strong interference, such as microwave ovens, bluetooth devices, and refrigerators.
2. Check the color of the LED indicator to ensure the WiFi extender is at a proper position.
   - Solid blue: Proper location.
   - Solid yellow: Fair position. Move towards the router.
   - Solid red: Too far away from the router. Move towards the router.



---End

Connect your WiFi enabled devices to the extended network of the WiFi extender to access the internet.

- **WiFi Name:** WiFi name you set or WiFi name of the router
- **WiFi Password:** WiFi password of the router

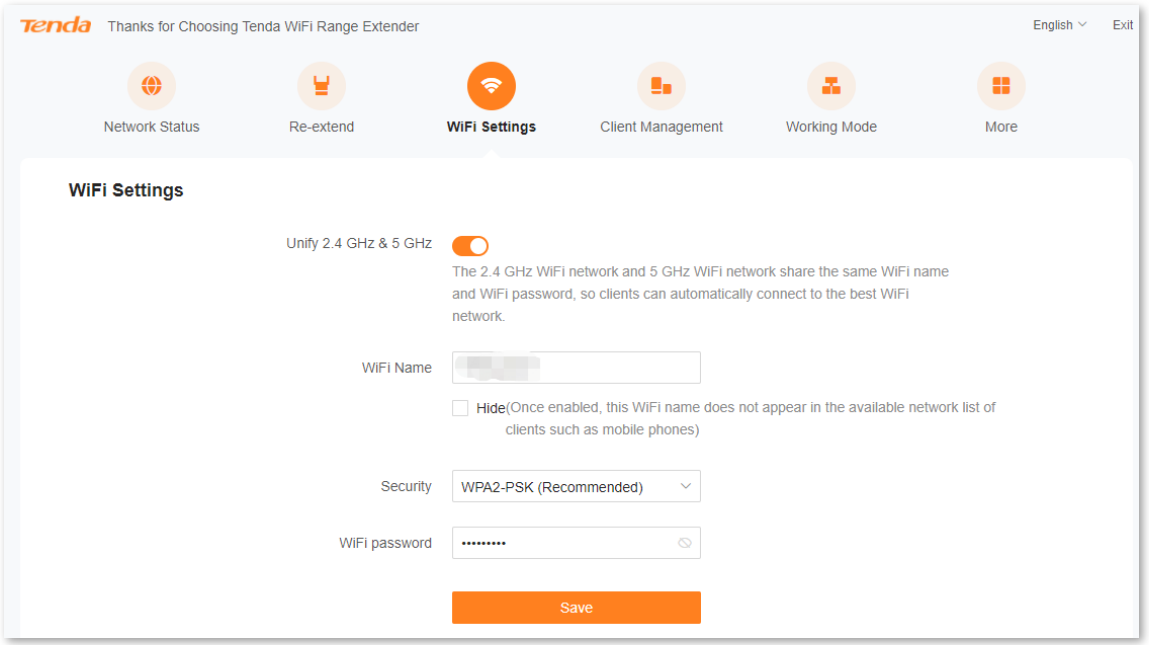


7 WiFi Settings

7.1 Overview

To access the page, choose **WiFi Settings**.

On this page, you can set basic WiFi parameters, including enabling/disabling Unify 2.4 GHz & 5 GHz function, changing the WiFi extender's WiFi name and password and hiding the WiFi network.



Parameter description

Parameter	Description
Unify 2.4 GHz & 5 GHz	It is used to enable or disable the **Unify 2.4 GHz & 5 GHz** function. With this function enabled, the 2.4 GHz and 5 GHz networks of the WiFi extender are unified under one WiFi name and password. You can see only one WiFi network, and your network devices will automatically connect to the WiFi with stronger signal strength when connecting to the WiFi network of the WiFi extender.
2.4 GHz Wi-Fi 5 GHz Wi-Fi	These two parameters appear only when the **Unify 2.4 GHz & 5 GHz** function is disabled. - If your mobile phone and other WiFi enabled devices are far away from the WiFi extender or separated from the WiF extender by walls, you are recommended to connect your WiFi enabled devices to the 2.4 GHz Wi-Fi. - If your mobile phone and other WiFi enabled devices are close to the WiFi extender, you are recommended to connect your WiFi enabled devices to the 5 GHz Wi-Fi.

Parameter	Description
WiFi name	It specifies the wireless network name of the WiFi extender.
Hide	With this function enabled, no WiFi enabled device can find the corresponding WiFi name, and you need to manually enter the WiFi name on the WiFi enabled device to access the wireless network. By default, this function is disabled.
Security	The WiFi extender supports the following security modes: - Not encrypted: The WiFi extender does not encrypt its wireless network. This option is not recommended because it affects network security. - WPA2-PSK (Recommended): The wireless network is encrypted with WPA2-PSK which adopts a pre-shared key for authentication. Therefore, wireless networks encrypted with WPA2-PSK are safer than those encrypted with WAP-PSK. - WPA3-SAE/WPA2-PSK: The wireless network is encrypted with both WPA2-PSK/AES and WPA3-SAE/AES, improving its security. With Simultaneous Authentication of Equals (SAE) and Protected Management Frames (PMF), WPA3-SAE can defend dictionary attacks and prevent information leakage without requiring users to set complex passwords. TIP WPA3-SAE is the upgraded version of WPA2-PSK. If your WiFi enabled devices do not support the WPA3-SAE or you have a poor WiFi experience, you are recommended to switch the security mode back to WPA2-PSK (Recommended).
WiFi Password	It specifies the password used for wireless network connection. TIP You are recommended to use the combination of digits, letters and special characters for higher security.

7.2 Unify 2.4 GHz and 5 GHz

The WiFi extender supports both 2.4 GHz WiFi and 5 GHz WiFi. If you want to unify the wireless network in the two frequency bands, you can operate as follows:

Configuration procedure:

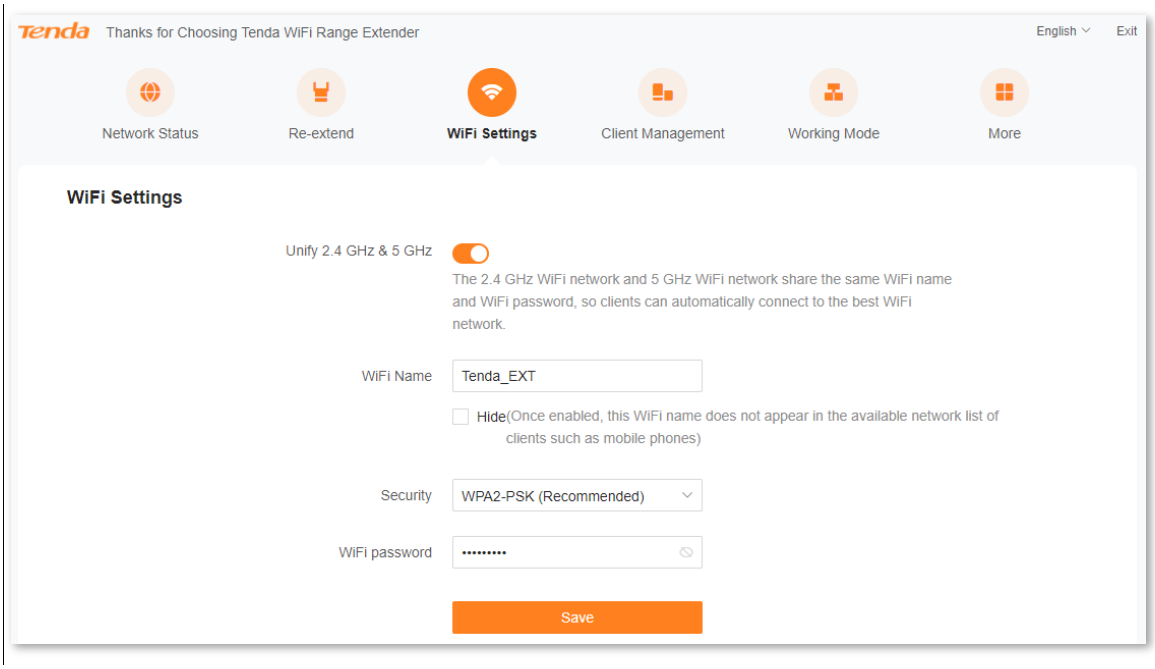
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Click **WiFi Settings**.

Step 3 Enable the **Unify 2.4 GHz & 5 GHz** function.

Step 4 Set **WiFi Name**, **Security** and **WiFi password** for the wireless network as necessary.

Step 5 Click **Save**.



---End

After the configuration completes, 2.4 GHz WiFi and 5 GHz WiFi are unified, and you can see only one WiFi name. When you connect a network device to the WiFi network of the WiFi extender, the network device will automatically connect to the WiFi with stronger signal strength.

7.3 Separate 2.4 GHz and 5 GHz

The WiFi extender supports both 2.4 GHz WiFi and 5 GHz WiFi. If you want to separate the wireless network in the two frequency bands, you can operate as follows:

Configuration procedure:

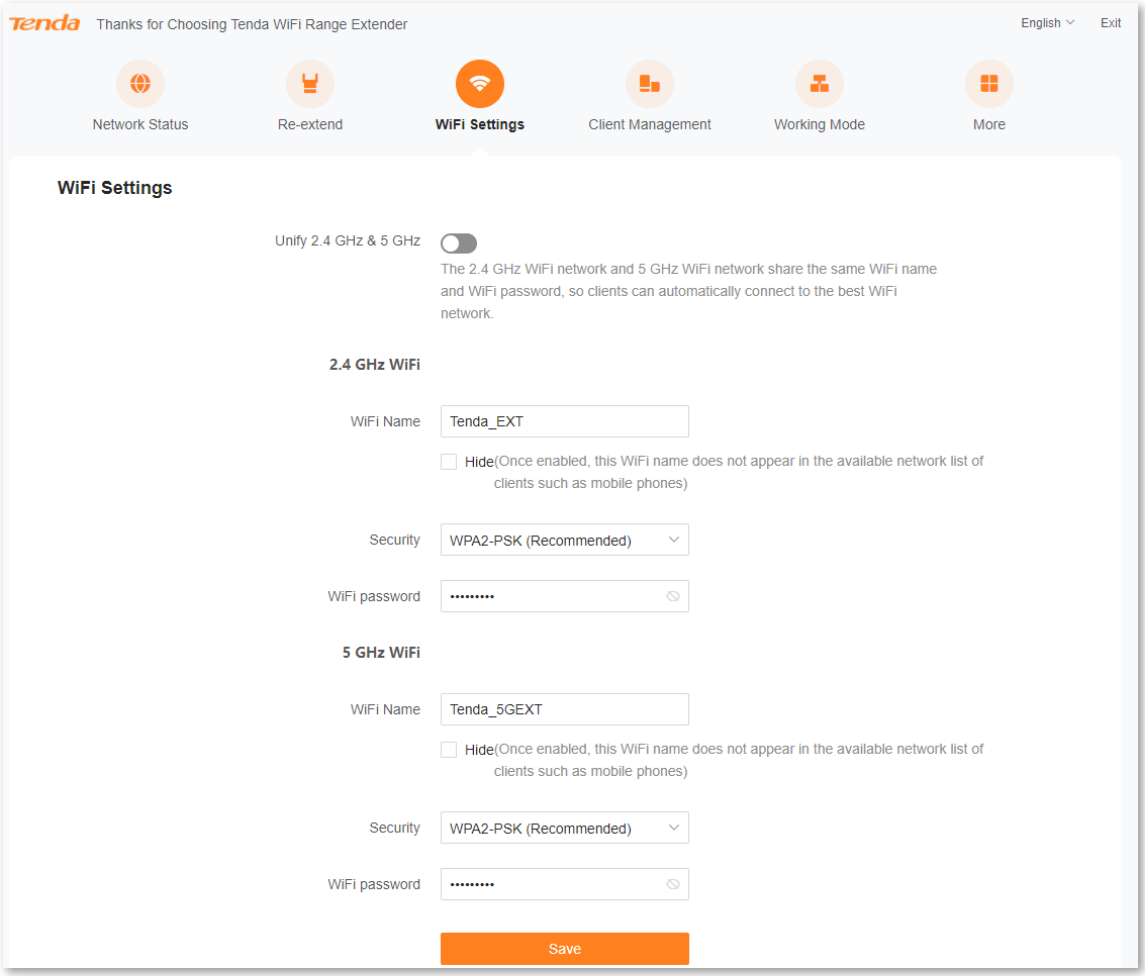
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Click **WiFi Settings**.

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

Step 4 Set WiFi name, security and WiFi password for 2.4 GHz WiFi and 5 GHz WiFi, respectively.

Step 5 Click **Save**.



---End

After the configuration completes, 2.4 GHz WiFi and 5 GHz WiFi are separated, and you can see two different WiFi names. You can use your network devices to connect any of the two networks.

7.4 Modify WiFi names and passwords

The WiFi extender supports both 2.4 GHz WiFi and 5 GHz WiFi.

Suppose that you want to severally modify the WiFi names and passwords of 2.4 GHz WiFi and 5 GHz WiFi as follows:

2.4 GHz WiFi

- WiFi name: Alice_2.4 GHz
- WiFi password: UmXmL9UK

5 GHz WiFi

- WiFi name: Alice_5 GHz
- WiFi password: CetTLb8T

Configuration procedure:

Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Click **WiFi Settings**.

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

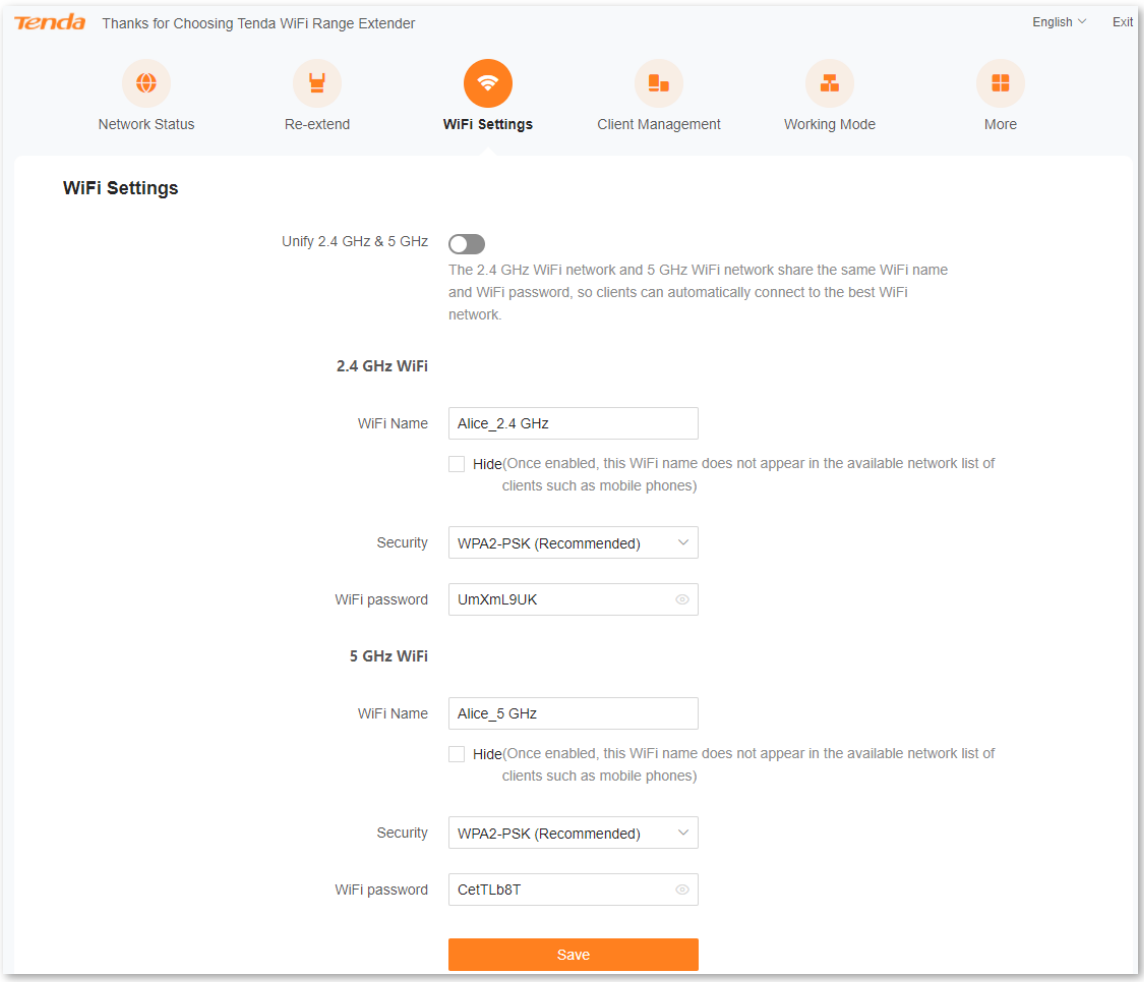
Step 4 Modify the wireless network parameters of **2.4 GHz WiFi**.

1. Modify the **WiFi name** under 2.4 GHz WiFi, which is **Alice_2.4 GHz** in this example.
2. Select a **security** mode under 2.4 GHz WiFi. **WPA2-PSK (Recommended)** is recommended.
3. Modify the **WiFi password** under 2.4 GHz WiFi, which is **UmXmL9UK** in this example.

Step 5 Modify the wireless network parameters of 5 GHz WiFi.

1. Modify the WiFi name under 5 GHz WiFi, which is **Alice_5 GHz** in this example.
2. Select a security mode under 5 GHz WiFi. **WPA2-PSK (Recommended)** is recommended.
3. Modify the WiFi password under 5 GHz WiFi, which is **CetTLb8T** in this example.

Step 6 Click **Save**.



---End

After the configuration completes, you need to connect your mobile phone and other network devices to the new WiFi for internet access.

7.5 Hide the WiFi extender's WiFi networks

The WiFi extender supports hiding its WiFi network, so that WiFi enabled devices cannot find it, thus improving the security of its WiFi network.

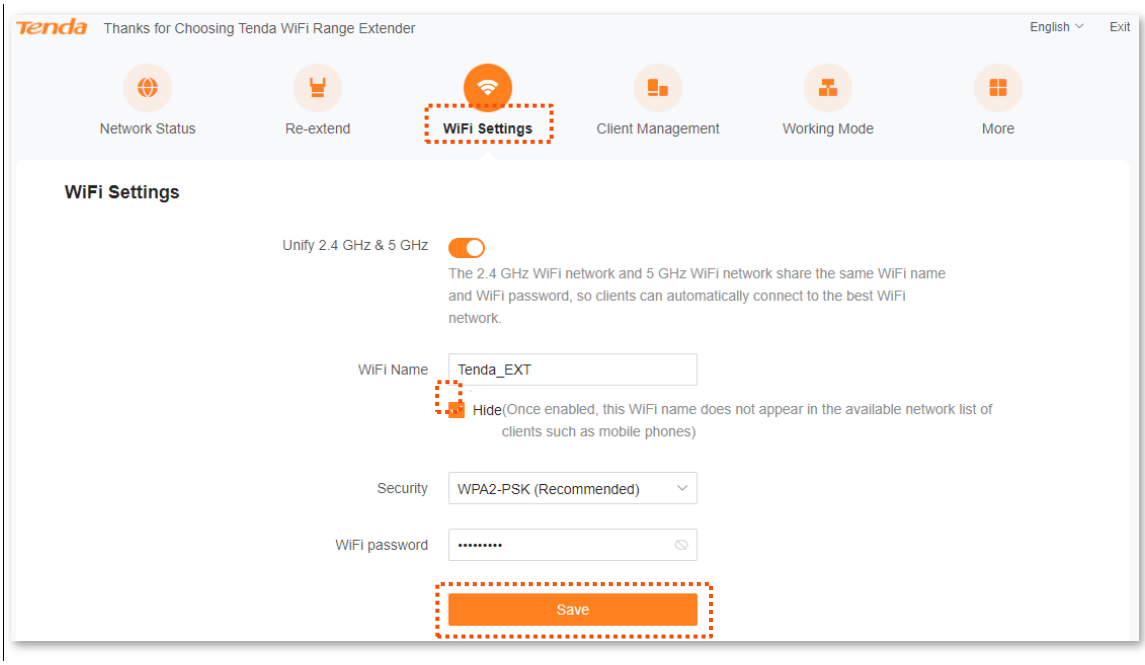
Configuration procedure:

Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Click **WiFi Settings**.

Step 3 Tick **Hide** under the input box after **WiFi Name.**

Step 4 Click **Save**.



---End

After the configuration completes, your mobile phone and other WiFi enabled devices will be disconnected from the WiFi network of the WiFi extender and cannot find its WiFi name anymore.

7.6 Connect to the hidden WiFi network

To connect to the hidden WiFi network of the WiFi extender, you need to manually enter its WiFi name and password on your WiFi enabled devices.

Suppose that you have enabled **Unify 2.4 GHz & 5 GHz** function of the WiFi extender, and set relevant parameters as follows:

- WiFi name: Alice
- Security: WPA2-PSK (Recommended)
- WiFi password: UmXmL9UK

TIP

If you forgot the above parameters, please log in to the web UI of the WiFi extender and view relevant parameters on **WiFi Settings** page.

Configuration procedure:

An Android phone is used for illustration.

Step 1 Tap **Settings** on the homepage of your mobile phone to enter the setting page.

Step 2 Tap **WLAN** to enter the WLAN page, then enable WLAN.

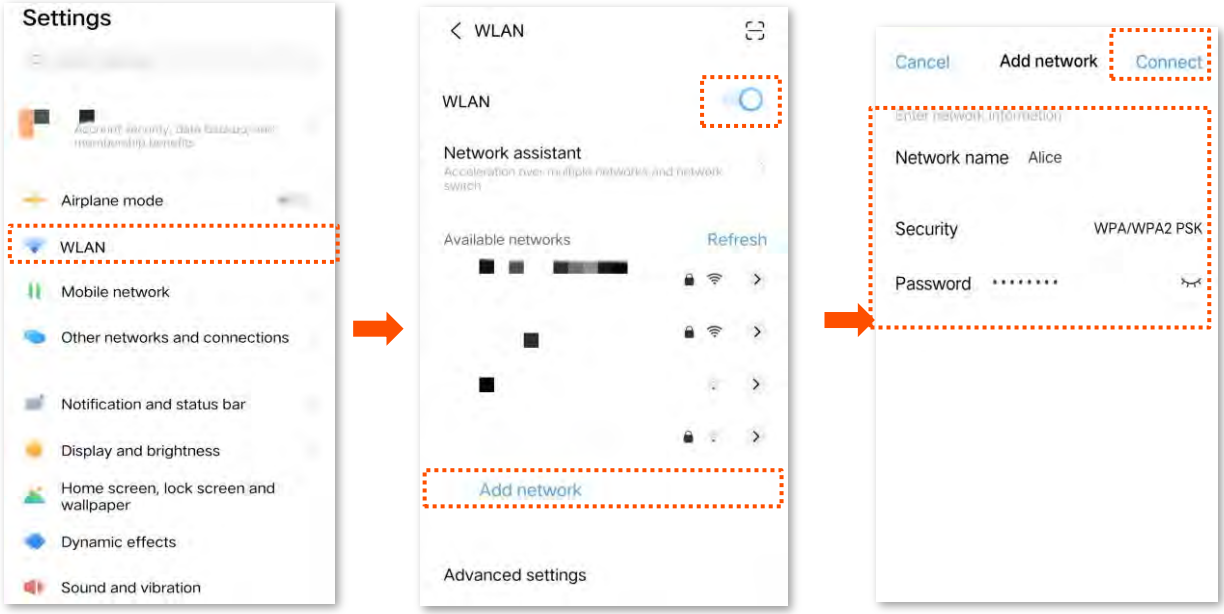
Step 3 Scroll down to the bottom of the WLAN page, and tap **Add network.**

Step 4 Enter the **network name**, which is **Alice**.

Step 5 Set the **security** mode as **WPA/WPA2 PSK**. If your mobile phone does not support WPA /WPA2 PSK, please select another mode containing WPA2-PSK.

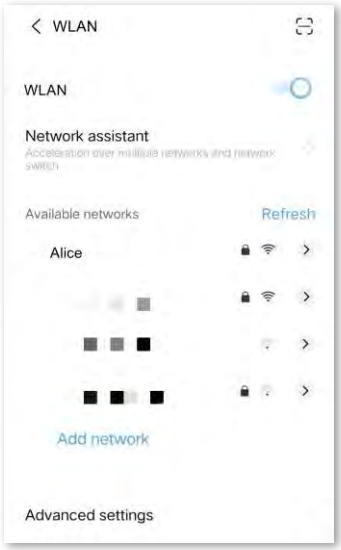
Step 6 Enter the password, which is **UmXmL9UK** in this example.

Step 7 Tap **Connect.**



---End

Wait until your mobile phone connects to the WiFi network of the WiFi extender, then you can access the internet.



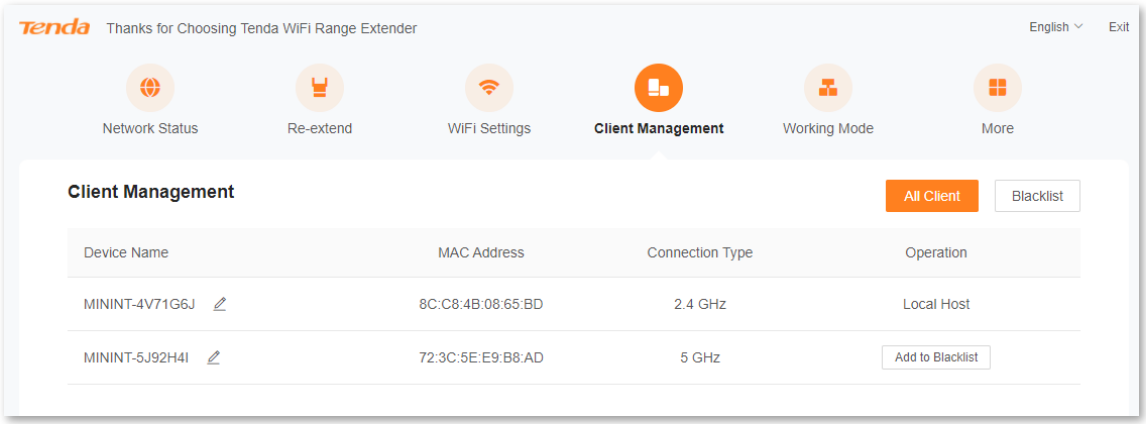
8 Client management

8.1 Overview

To access the page, choose **Client Management**.

On this page, you can view the wireless clients currently connected to the WiFi network of the WiFi extender, view the blacklist, and add a wireless client to the blacklist or remove a wireless client from the blacklist.

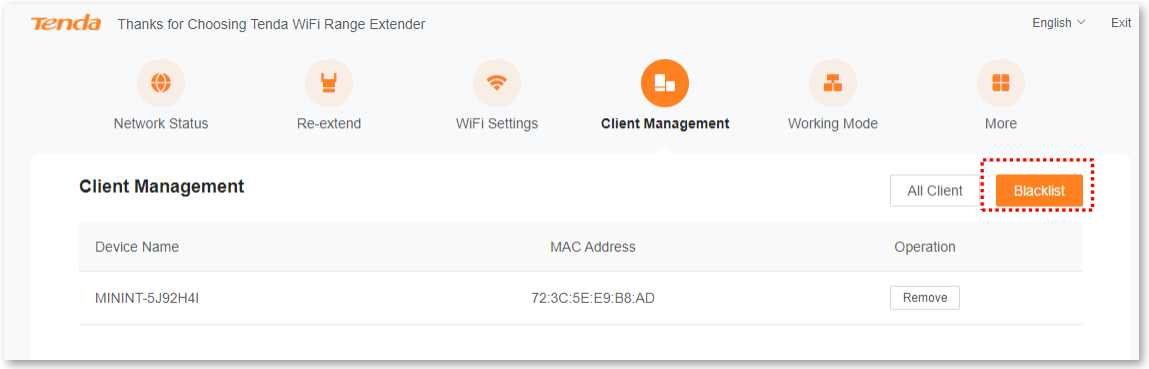
After entering the **Client Management** page, you are led to **All Client** module by default, which is shown as below:



Parameter description

Parameter	Description
Device Name	It specifies the name of the wireless client.
Mac Address	It specifies the Mac address of the wireless client.
Connection Type	It specifies the wireless client's type of connection to the WiFi extender.
Operation	Click **Add to Blacklist**, then the corresponding wireless client is added to the blacklist.

After entering the **Client Management** page, click **Blacklist**, then you can view all blacklisted devices.



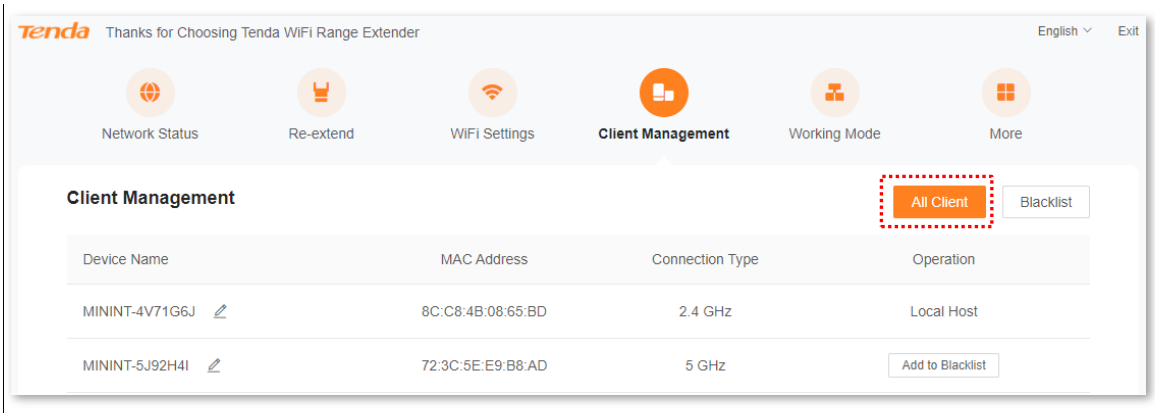
Parameter description

Parameter	Description
Device Name	It specifies the name of the wireless client.
Mac Address	It specifies the Mac address of the wireless client.
Operation	Click **Remove**, then the corresponding wireless client is removed from the blacklist.

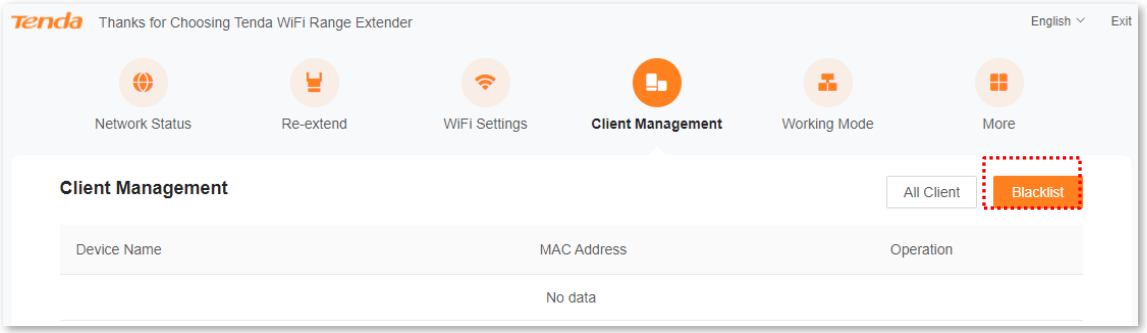
8.2 View all online wireless clients/the blacklist

Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Click **Client Management**. You will enter **All Client** module, where you can view all wireless clients currently connected to the WiFi network of the WiFi extender.



Step 3 Click **Blacklist**, then you can view all blacklisted devices.



---End

8.3 Add a wireless client to the blacklist

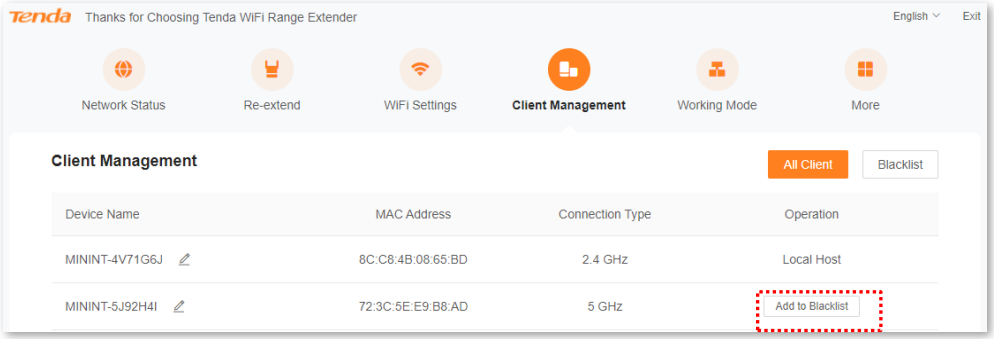
Clients added to the blacklist cannot connect to the wireless network of the WiFi extender for internet access.

Configuration procedure:

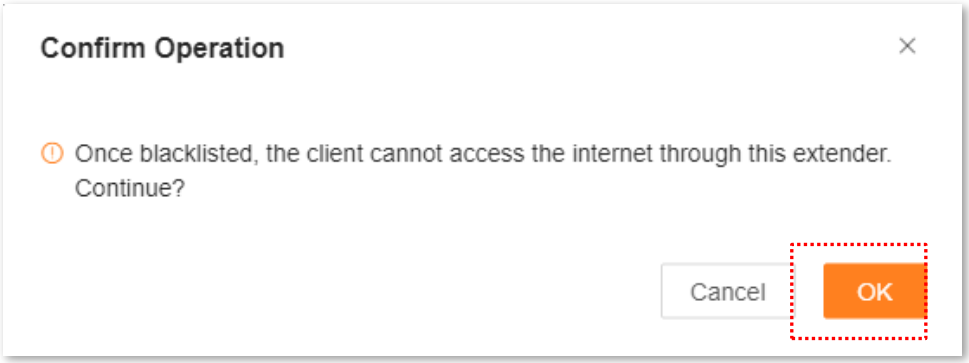
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Click **Client Management**.

Step 3 Find the client you want to blacklist, then click **Add to Blacklist**.

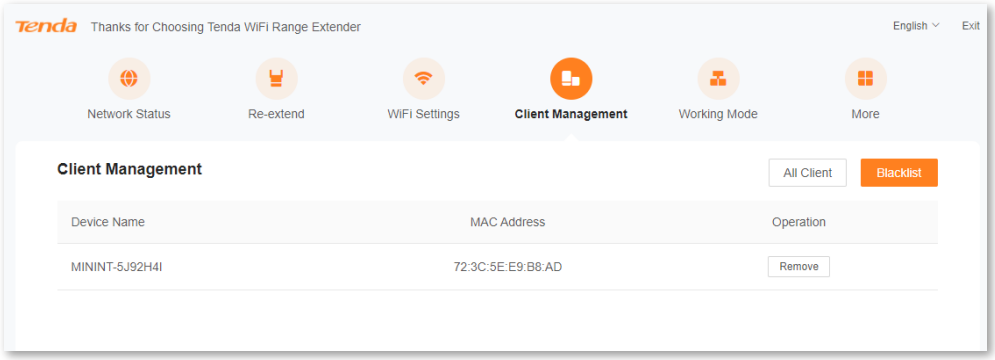


Step 4 Confirm the prompt message and click **OK**.



---End

After the configuration completes, you can view the blacklisted devices by clicking **Blacklist** on the **Client Management** page.



8.4 Remove a wireless client from the blacklist

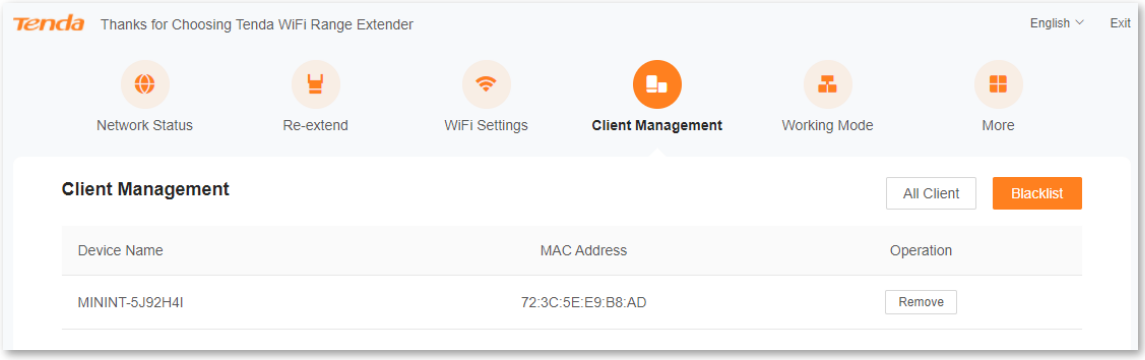
You can also remove a wireless client from the blacklist on the **Blacklist** page.

Configuration procedure:

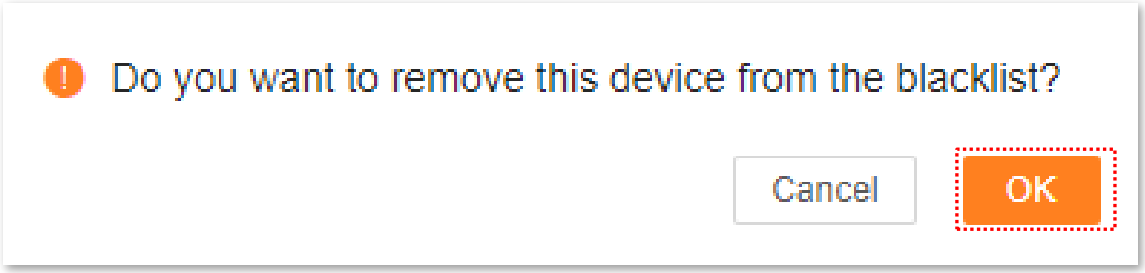
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Click **Client Management**, then click **Blacklist**.

Step 3 Find the client you want to remove from the blacklist, then click **Remove**.



Step 4 Confirm the prompt message and click **OK**.



---End

After the configuration completes, the client you removed from the blacklist can connect to the WiFi extender for internet access.

9 Operating mode

To access the page, choose **Working Mode**.

On this page, you can view and switch the working mode of the WiFi extender.

9.1 Switch the WiFi extender from extender mode to AP mode

In AP mode, the WiFi extender is connected to the upstream device using an Ethernet cable to extend the network coverage.

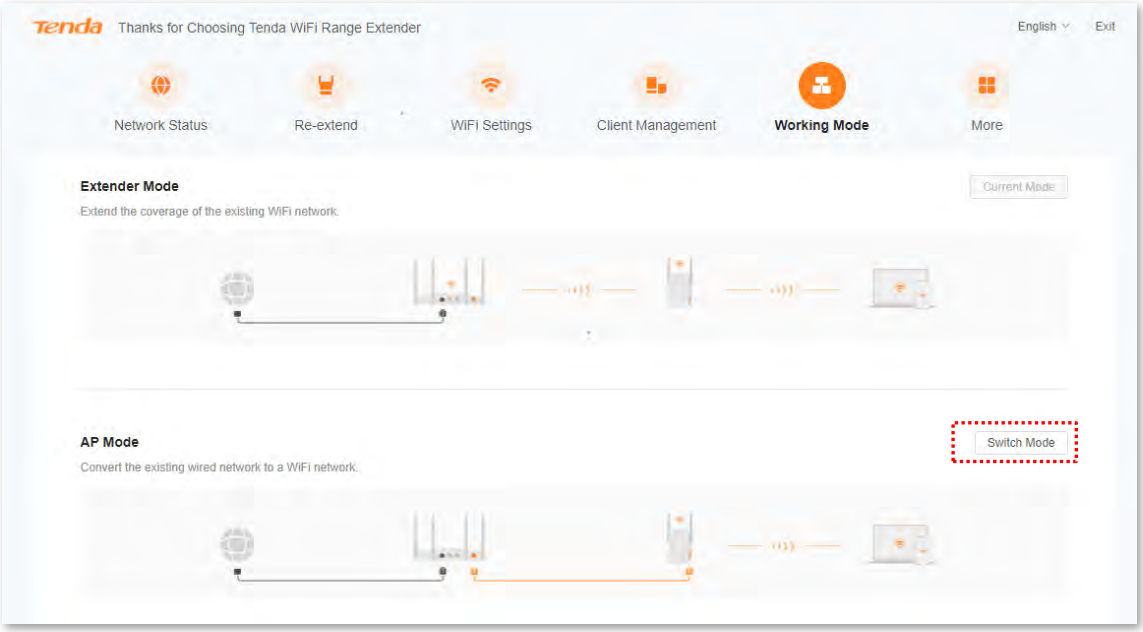
Suppose that the WiFi extender is working in the extender mode. You have a gateway which has connected to the internet but does not support WiFi in your house or cannot cover the area you want. To expand the network coverage in your house, you can switch the WiFi extender from extender mode to AP mode.

Configuration procedure:

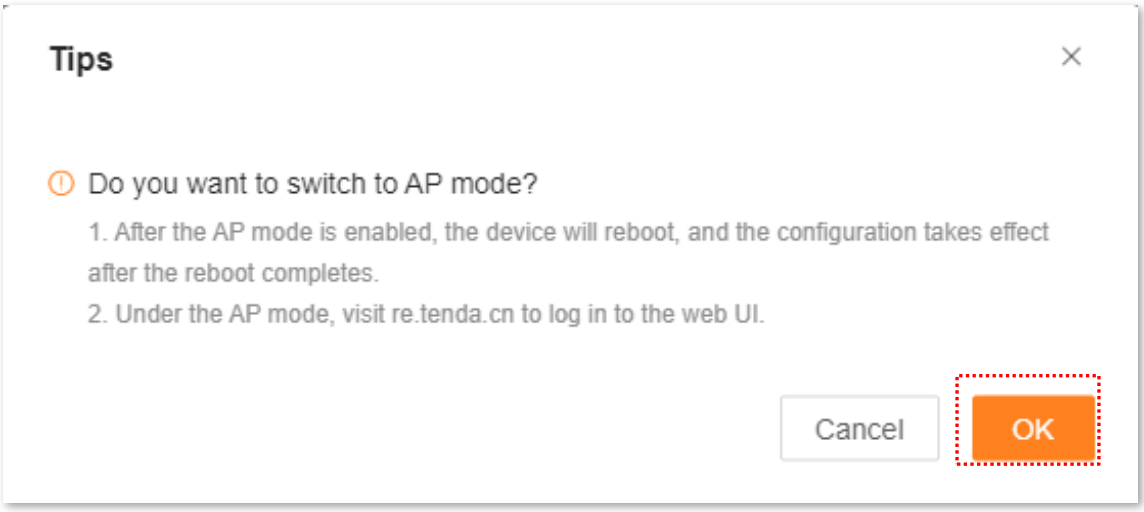
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Click **Working Mode**.

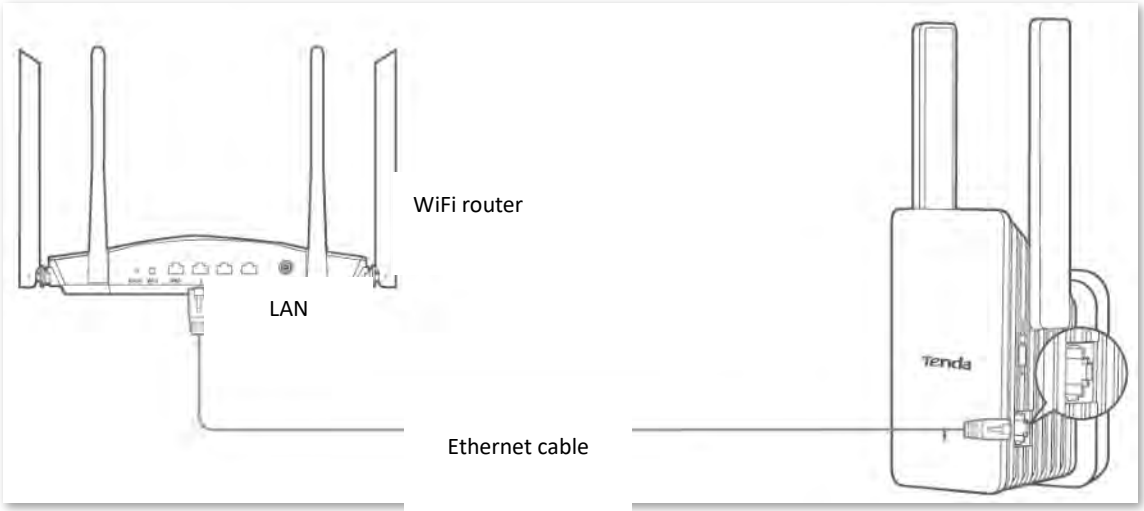
Step 3 Find **AP Mode**, then click **Switch Mode**.



Step 4 Confirm the prompt message and click **OK**. The system will reboot to effectuate the configuration.

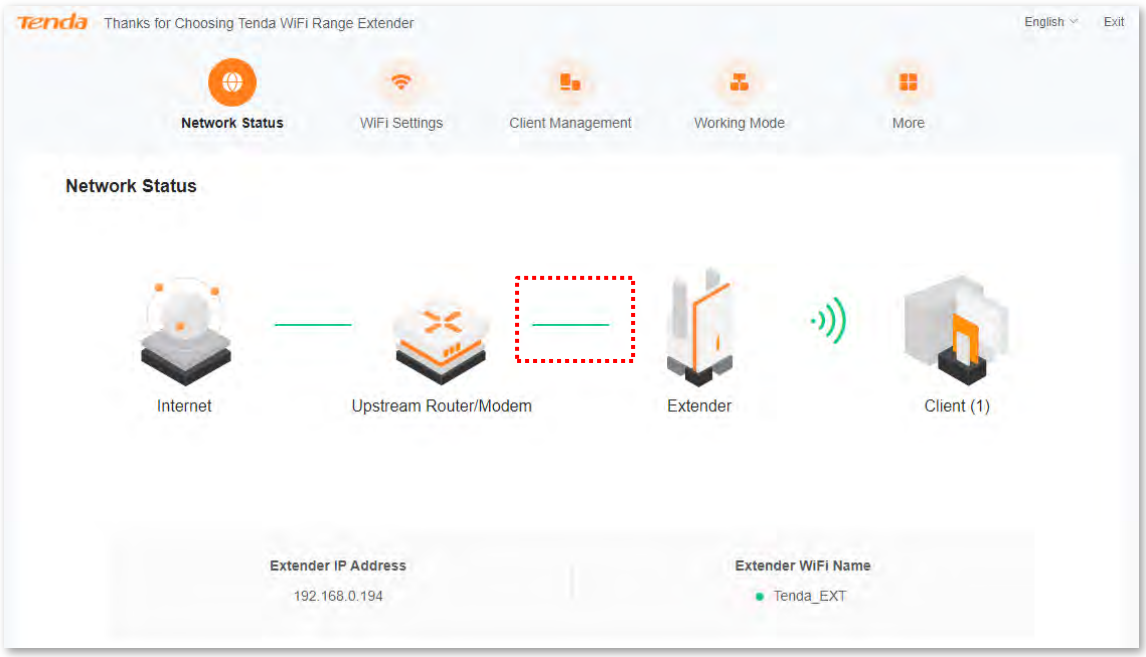


Step 5 Use an Ethernet cable to connect the Ethernet port of the WiFi extender to the LAN port of the upstream device.



---End

You can re-log in to the web UI of the WiFi extender to check whether the WiFi extender has connected to the upstream device on **Network Status** page:



If the configuration succeeds, mobile phone and other wireless clients connected to the WiFi network of the WiFi extender can access the internet. If you did not set a password, to ensure network security, you are recommended to set a password on the **WiFi Settings** page.

If you fail to access the internet, please try the following solutions:

- Please ensure that the upstream device is connected to internet properly.
- If you use a WiFi enable device to connect to the WiFi network of the WiFi extender, please ensure that you have connected to the right network.

9.2 Switch the WiFi extender from AP mode to extender mode

In the extender mode, you can extend the coverage of the existing WiFi network.

Suppose that the WiFi extender is working in AP Mode. You have a WiFi router which has connected to the internet in your house. To expand the network coverage in your house, you can switch the WiFi extender from AP mode to the extender mode.

Configuration procedure:

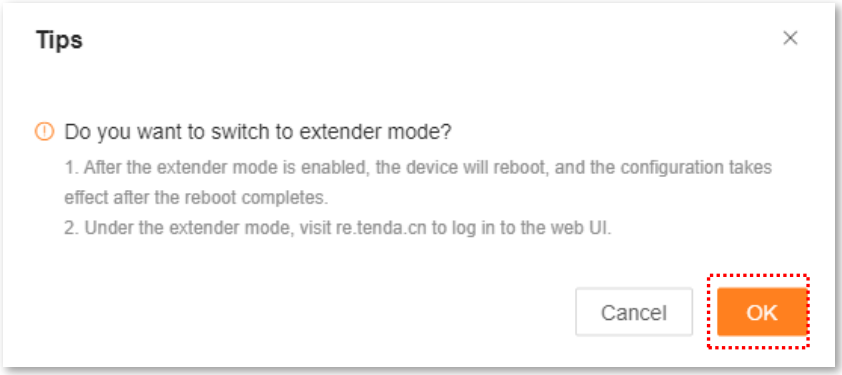
Step 1 Please remove the Ethernet cable (if any) connecting the WiFi extender with the upstream device.

Step 2 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 3 Click **Working Mode**.

Step 4 Find **Extender Mode**, then click **Switch Mode.**

Step 5 After confirming the prompt message, click **OK**. The system will reboot to effectuate the configuration.



---End

After switching to the extender mode, the system will try connecting to the WiFi it once connected. You can re-log in to web UI of the WiFi extender, and check whether the network has extended successfully on the **Network Status** page. If it fails to extend the WiFi network of the upstream device, please access the **Re-extend** page to re-extend the network. Please refer to Re-extend for details.

If the configuration succeeds, the computer connected to the Ethernet port of the WiFi extender, mobile phone and other wireless clients connected to the WiFi network of the WiFi extender can access the internet. If you did not set a password, to ensure network security, you are recommended to set a password on the **WiFi Settings** page.

If you fail to access the internet, please try the following solutions:

- Please ensure that the upstream device is connected to internet properly.
- If you use a WiFi enable device to connect to the WiFi network of the WiFi extender, please ensure that you have connected to the right network.

10 More settings

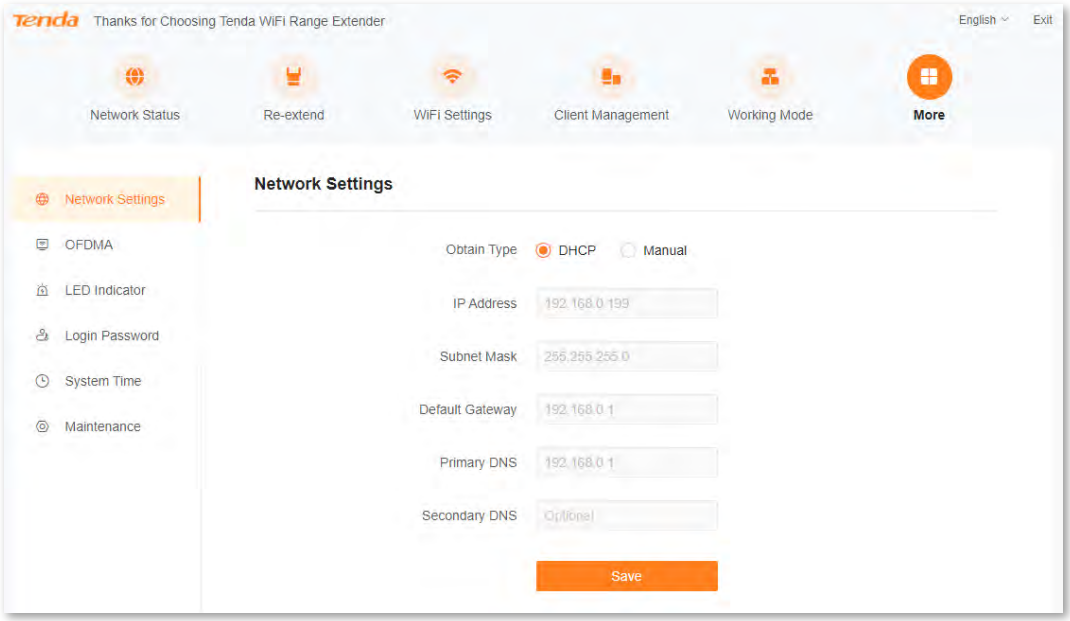
On the **More** page, you can:

- View/modify the extender IP address
- Configure OFDMA function
- Enable/disable LED indicator
- Set/modify login password
- View/set system time
- Configure DST
- Perform maintenance operations on the WiFi extender, including reboot, reset, system log export and firmware upgrade

10.1 Network settings

To access the page, choose **More > Network Settings**.

On this page, you can set the way for the WiFi extender to obtain the IP address, and view IP address, subnet mask and other information of the WiFi extender.



Parameter description

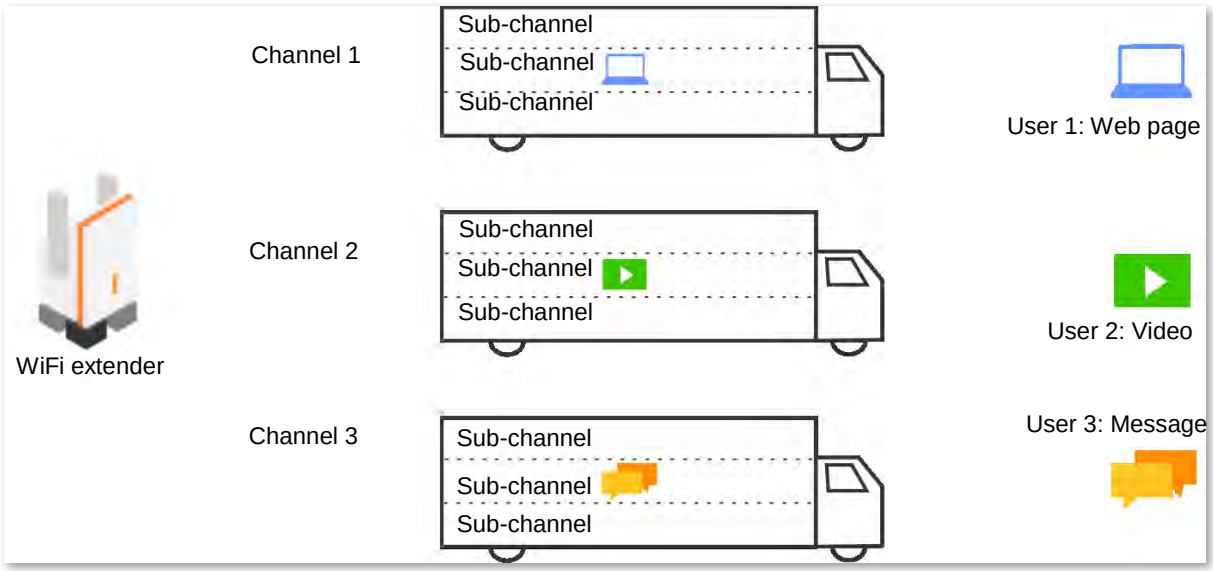
Parameter	Description
Obtain Type	It specifies the way for the WiFi extender to obtain the IP address. - **DHCP**: The WiFi extender obtains its IP address, subnet mask, default gateway and DNS from DHCP server. - Manual: IP address, subnet mask, default gateway and DNS of the WiFi extender are set manually. TIP If you set Obtain Type as **DHCP**, the login IP address of the WiFi extender will change. To re-log in to the web UI, please connect your WiFi enabled device to the WiFi or use a network cable to connect your computer to the Ethernet port of the WiFi extender, then enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.
IP Address	It specifies the IP address, as well as the management IP address of the WiFi extender. LAN users can access this IP address to log in to the web UI of the WiFi extender. To enable the WiFi extender to access the internet, you need to set the IP address in the same network segment with the LAN IP address of the egress router.
Subnet Mask	It specifies the subnet mask of the WiFi extender.
Default Gateway	It specifies the default gateway of the WiFi extender. TIP To enable the WiFi extender to access the internet, the default gateway is generally set as the LAN IP address of the egress router.
Primary DNS	They specify the primary/secondary IP address of the DNS server. If the egress router has the DNS proxy function, the **primary DNS** address can be the LAN IP address of the egress router; otherwise, please enter the correct IP address of the DNS server. If the DNS server only has one IP address, please fill in to the **Primary DNS**.
Secondary DNS	

10.2 OFDMA

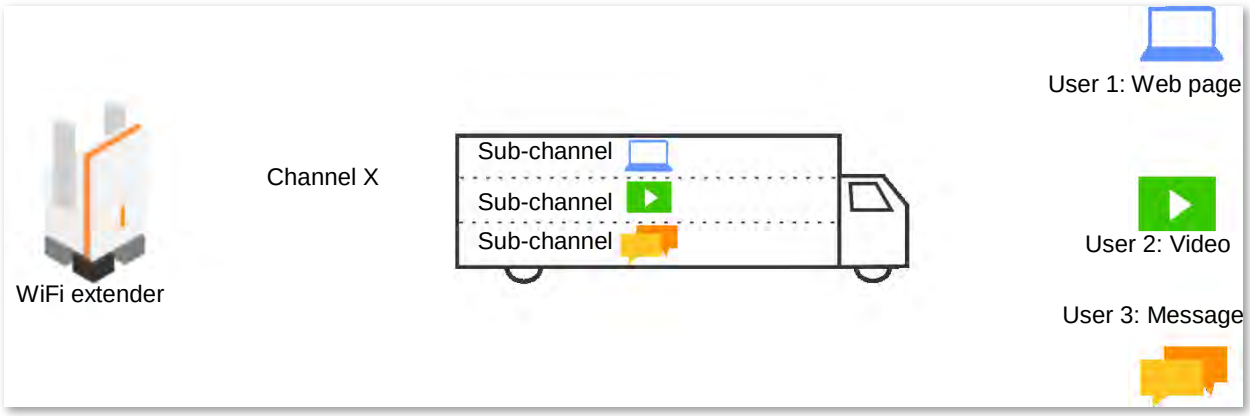
Before 802.11ax, Orthogonal Frequency Division Multiplexing (OFDM), a modulation mode is used for data transmission. OFDM divide the whole channel into several sub-channels (sub-carriers), and transmit data through these sub-channels, differentiating different data. At some point, data sent by users will occupy the whole channel. If several users need to use OFDM to send data, they can only wait in line, wasting channel resources.

802.11ax introduced more efficient data transmission mode, Orthogonal Frequency Division Multiple Access (OFDMA), a multi-address access technology. It uses OFDM to divide the whole channel to into several sub-channels (sub-carriers), with user data borne on resource blocks rather than in the whole channel, thereby allowing parallel user data transmission at the same time. It is unnecessary for users to wait in line, thus decreasing time delay and improving users' internet experience.

OFDM data transmission mode:

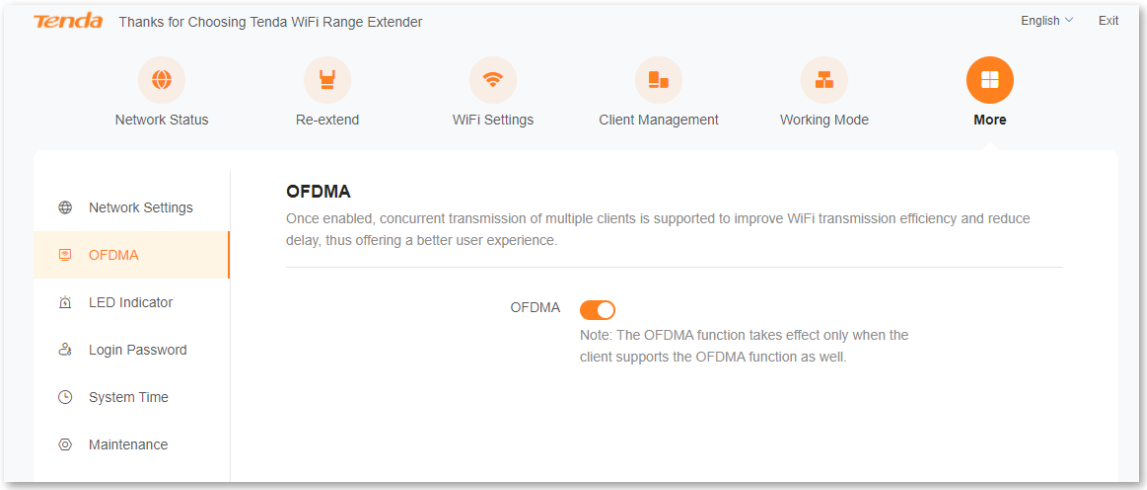


OFDMA data transmission mode:



To access the page, choose **More > OFDMA.**

OFDMA is disabled by default. After enabling the function, you will see:

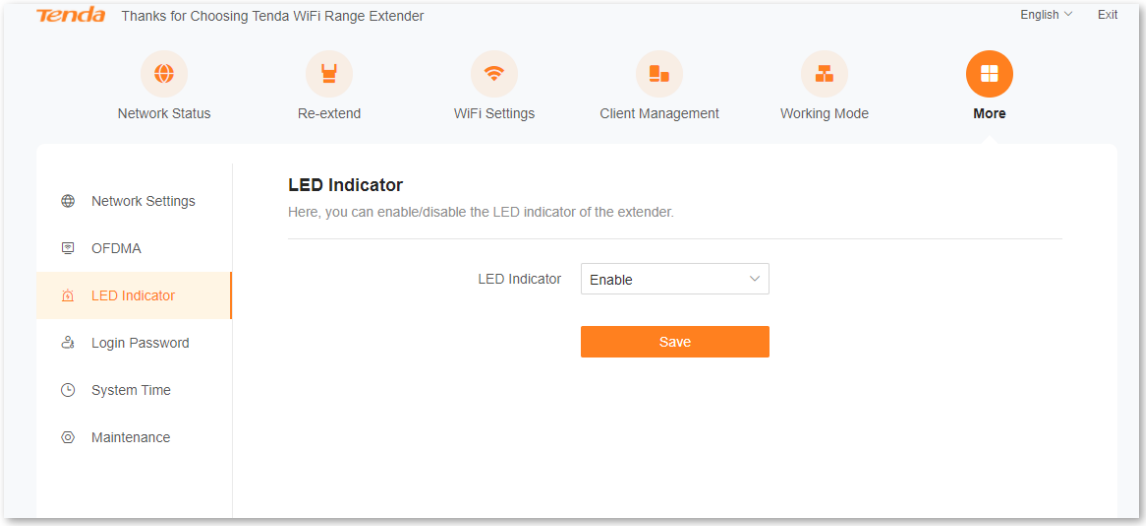


10.3 LED indicator

10.3.1 Overview

To access the page, choose **More > LED Indicator**.

On this page, you can enable/disable the LED indicator of the WiFi extender.



Parameter description

Parameter	Description
Enable	The LED indicator normally shows the status of the WiFi extender.
Disable	The LED indicator of the WiFi extender turns off.
Schedule Disable	The LED indicator of the WiFi extender turns off at the time configured, but works normally at other times.

10.3.2 Turn off the LED indicator as scheduled

Suppose that the LED indicator needs to light out as you want between 22:00 every day and 7:00 the second day.

Configuration procedure:

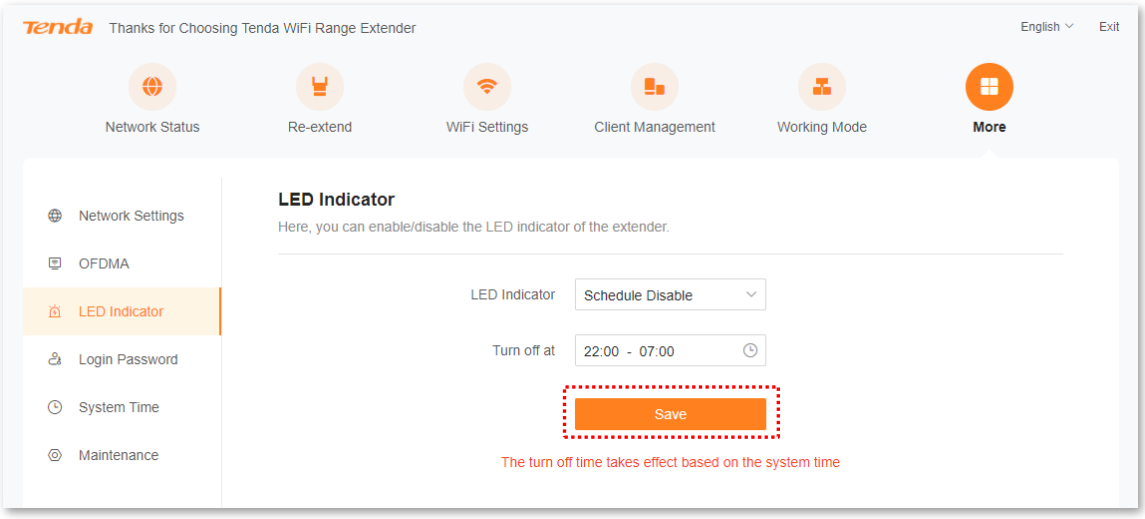
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Choose **More > LED Indicator**.

Step 3 Select **Schedule Disable** in the drop-down list of **LED Indicator**.

Step 4 Set the time period for turning off the LED indicator, which is **22:00-7:00** in this example.

Step 5 Click **Save**.



---End

After the configuration completes, the LED indicator of the WiFi extender will turn off during 22:00 to 07:00 every day.

10.4 Login password

To access the page, choose **More > Login password**.

You are required to set a login password at the first of using the WiFi extender. If you did not set, you can set a new password on this page. You can also modify the login password of the WiFi extender on this page.

Configuration procedure:

Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

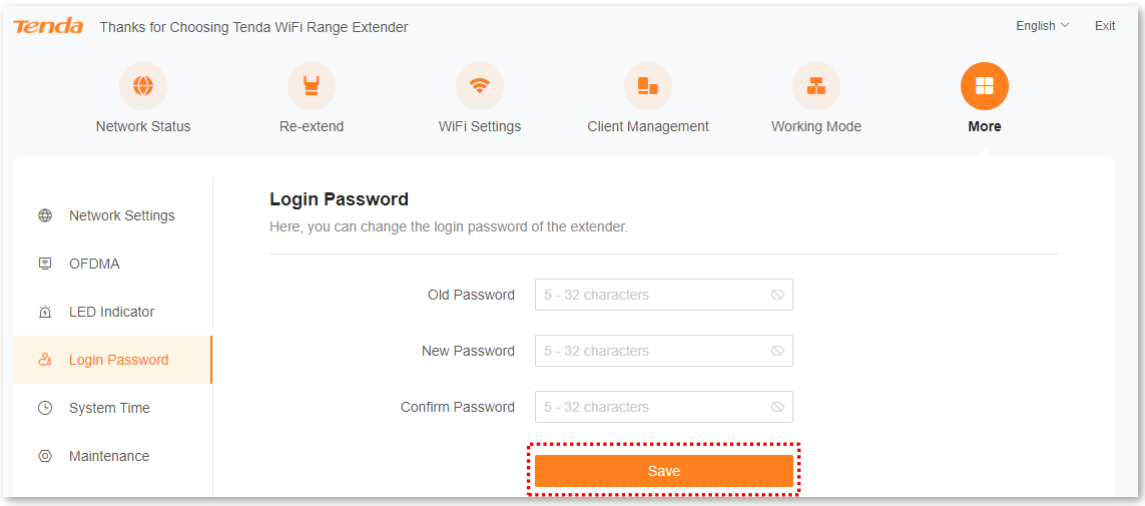
Step 2 Choose **More > Login password**.

Step 3 In the **Old Password** text box, enter the current login password of the WiFi extender.

Step 4 In the **New Password** text box, set a new login password.

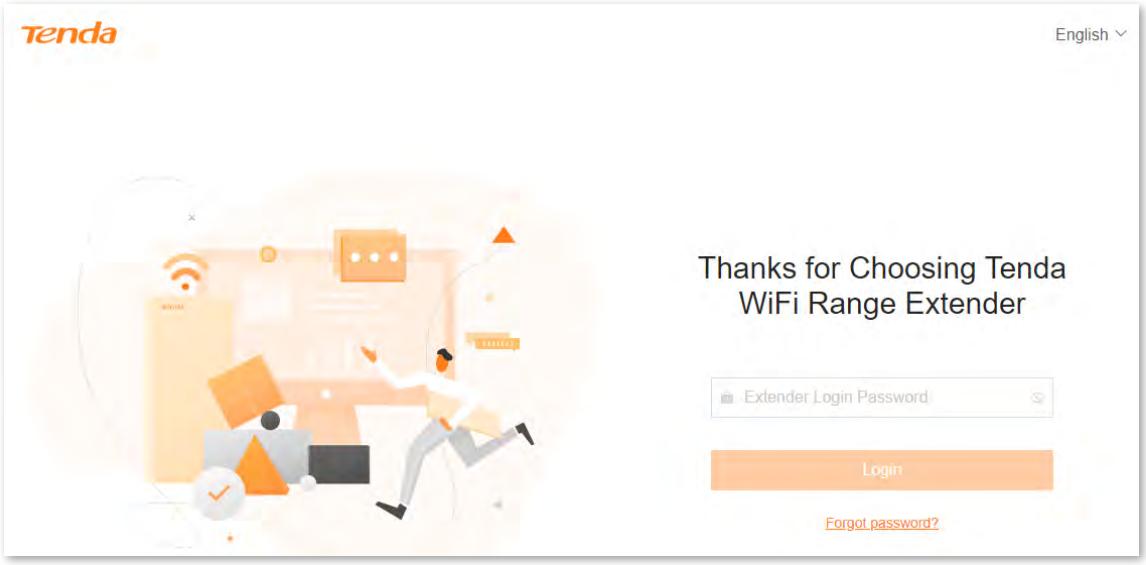
Step 5 In the **Confirm Password** text box, repeat the new login password.

Step 6 Click **Save**.



---End

You will be led to the login page. Enter the new login password, and click **Login**. Then, you can log in to the web UI of the WiFi extender.



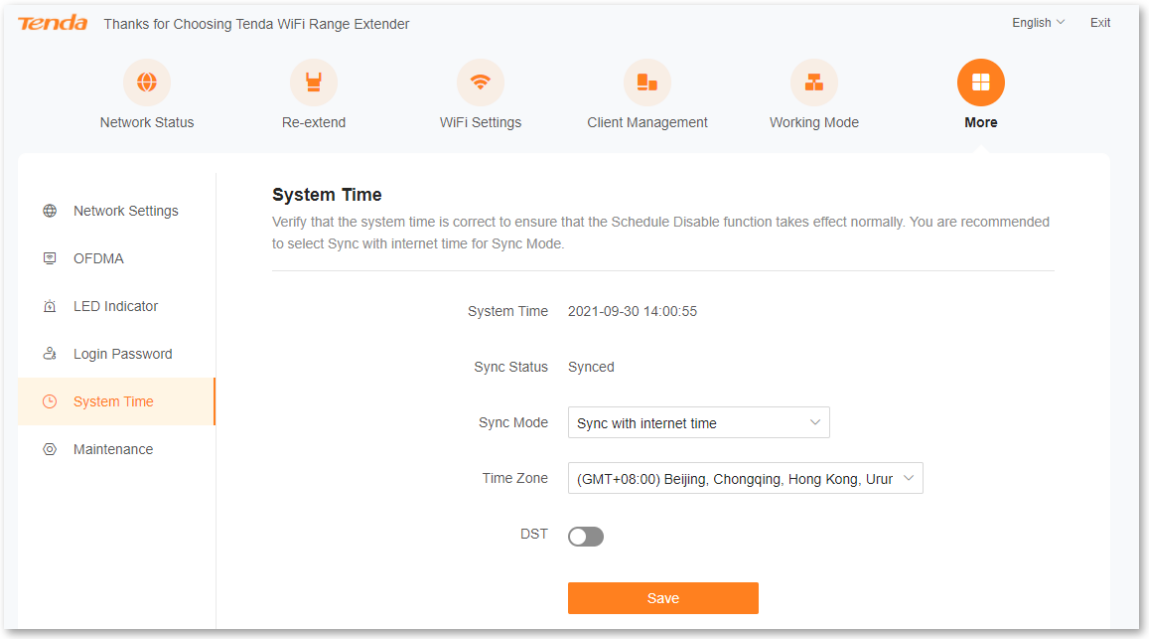
10.5 System time

10.5.1 Overview

To access the page, choose **More > System Time**.

On this page, you can set the system time of the WiFi extender.

To ensure time-based functions of the WiFi extender can work normally, you need to ensure the accuracy of the system time of the WiFi extender. The WiFi extender supports two sync modes: sync with internet time (default) and sync with local time.



Parameter description

Parameter	Description
System Time	It specifies the current system time of the WiFi extender.
Sync Status	It specifies the sync status of the system time of the WiFi extender.
Sync Mode	It specifies the sync mode of the system time of the WiFi extender. - **Sync with internet time**: System time is synced with the time server on the internet. - **Sync with local time**: System time is synced with the time of the client currently managing the WiFi extender.
Time Zone	It specifies the standard time zone at the current locality of the WiFi extender, and is specific to **Sync with internet time**.

Parameter	Description
Local Time	It specifies the time of the client managing the WiFi extender, and is specific to **Sync with local time**.
DST	It is a time system implemented for resources conservation. The uniform time used when the system is implemented is the **Daylight Saving Time**. If the WiFi extender is used in a country or area where DST is implemented, please enable DST.

10.5.2 Sync system time with internet time

The system time is synced automatically with the time server on the internet. The WiFi extender can automatically sync its system time once it is connected to the internet, eliminating the need to reconfiguring the function.

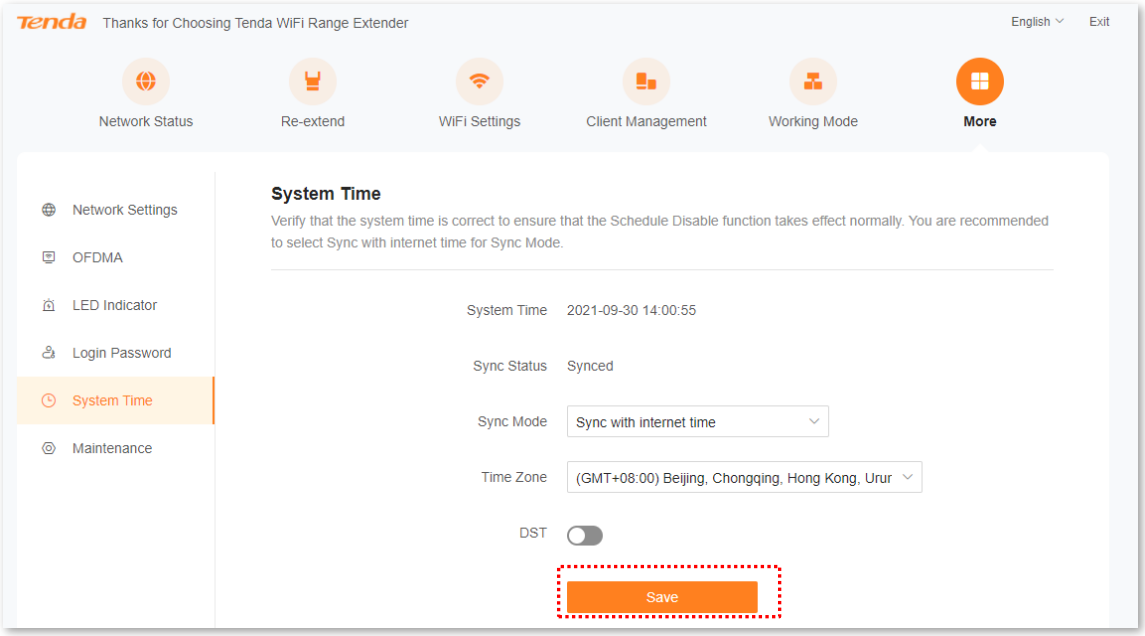
Configuration procedure:

Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Choose **More > System time**.

Step 3 Select **Sync with internet time** in the drop-down list of **Sync Mode**.

Step 4 Click **Save**.



---End

After the configuration completes, you can check whether **System Time** on the page is synced correctly.

10.5.3 Sync system time with local time

The system time is synced with the time of the client managing the WiFi extender.

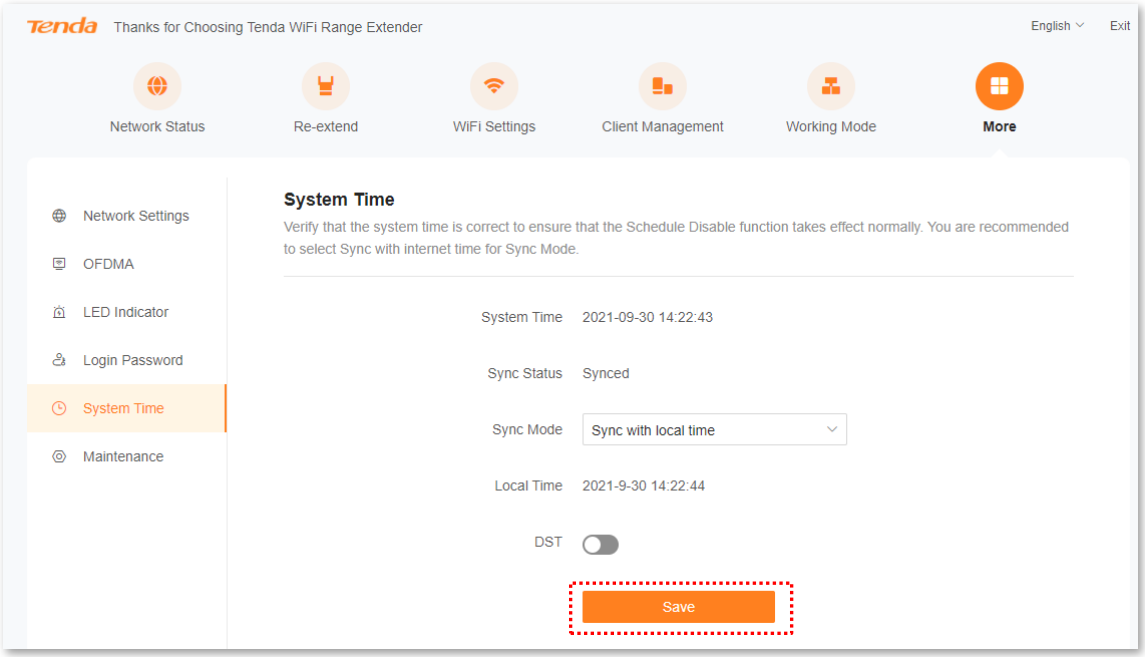
Configuration procedure:

Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Choose **More > System time**.

Step 3 Select **Sync with local time** in the drop-down list of **Sync Mode**.

Step 4 Click **Save**.



---End

After the configuration completes, you can check whether **System Time** on the page is synced correctly.

10.5.4 Enable DST

If the WiFi extender is used in a country or area where DST is implemented, please enable DST.

Configuration procedure:

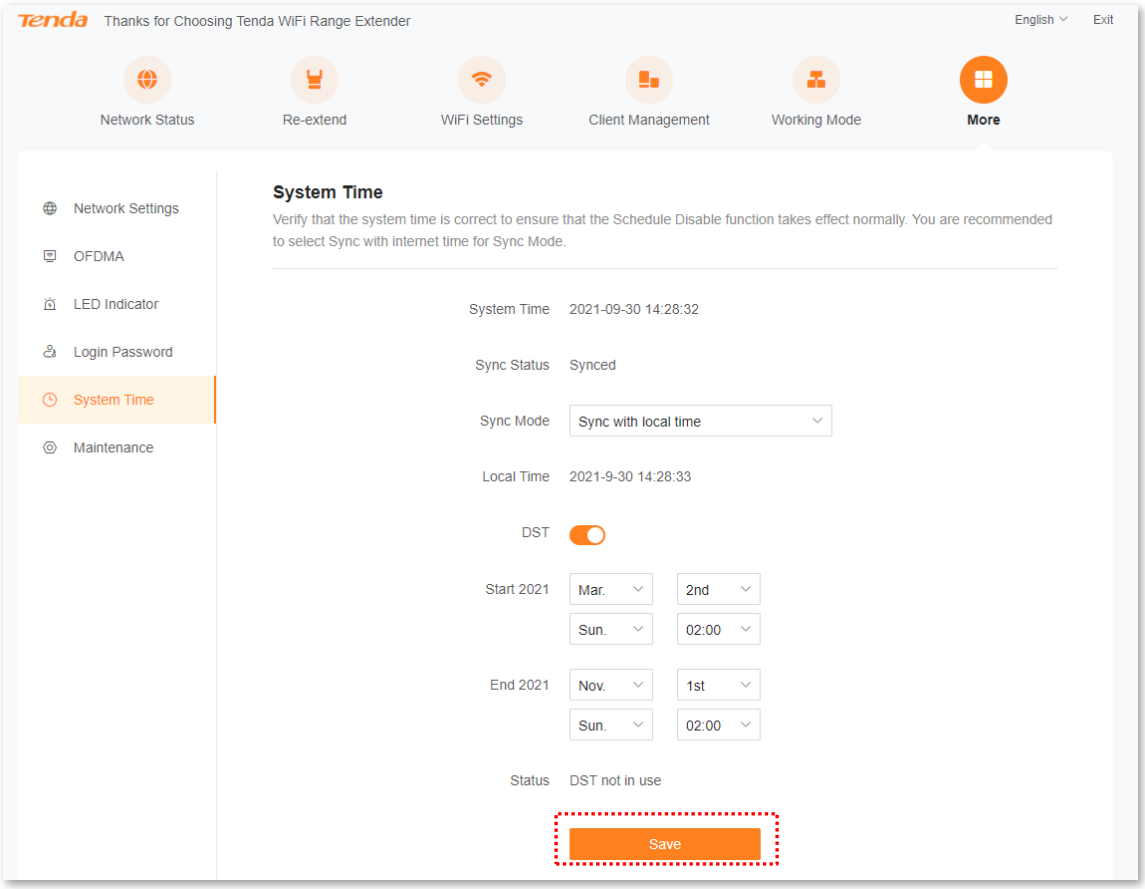
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Choose **More > System time**.

Step 3 Enable **DST**.

Step 4 Set the start time and end time of DST.

Step 5 Click **Save**.



---End

After the configuration completes, the system time will adopt DST during the specified period, and you can check whether **System Time** on the page is synced correctly.

10.6 System management

10.6.1 Reboot the WiFi extender

If a setting fails to take effect or the WiFi extender fails to work properly, you can try rebooting the WiFi extender.

TIP

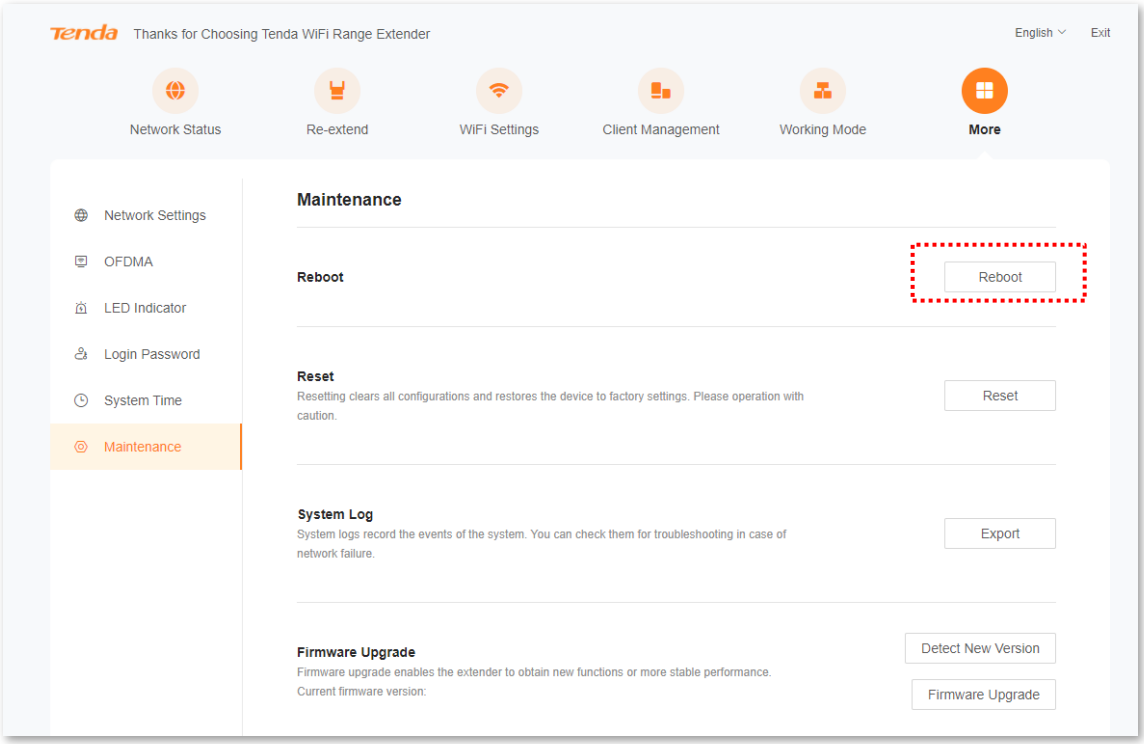
During the reboot, all connections will be cut off. Please reboot the WiFi extender when the network is idle.

Configuration procedure:

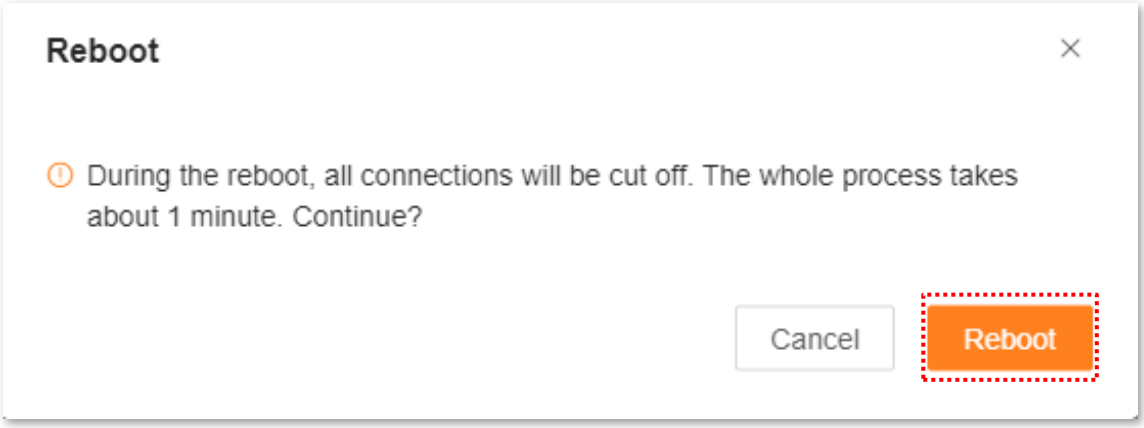
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Choose **More > Maintenance**, then find **Reboot** module.

Step 3 Click **Reboot**.



Step 4 Confirm the prompt message and click **Reboot**. The system will reboot to effectuate the configuration.



---End

10.6.2 Reset the WiFi extender

You are recommended to reset the WiFi extender to factory settings if you forget your login password, or you cannot locate the problem interrupting your WiFi extender's WiFi network service.

NOTE

- After resetting, the WiFi extender will be reset to the factory settings, and you need to reconfigure the WiFi extender. You are not recommended to reset the WiFi extender, unless necessary.
- To avoid the damage to the WiFi extender, please ensure that your WiFi extender is powered on properly during resetting.
- After resetting, the default extender IP address is 192.168.0.254.

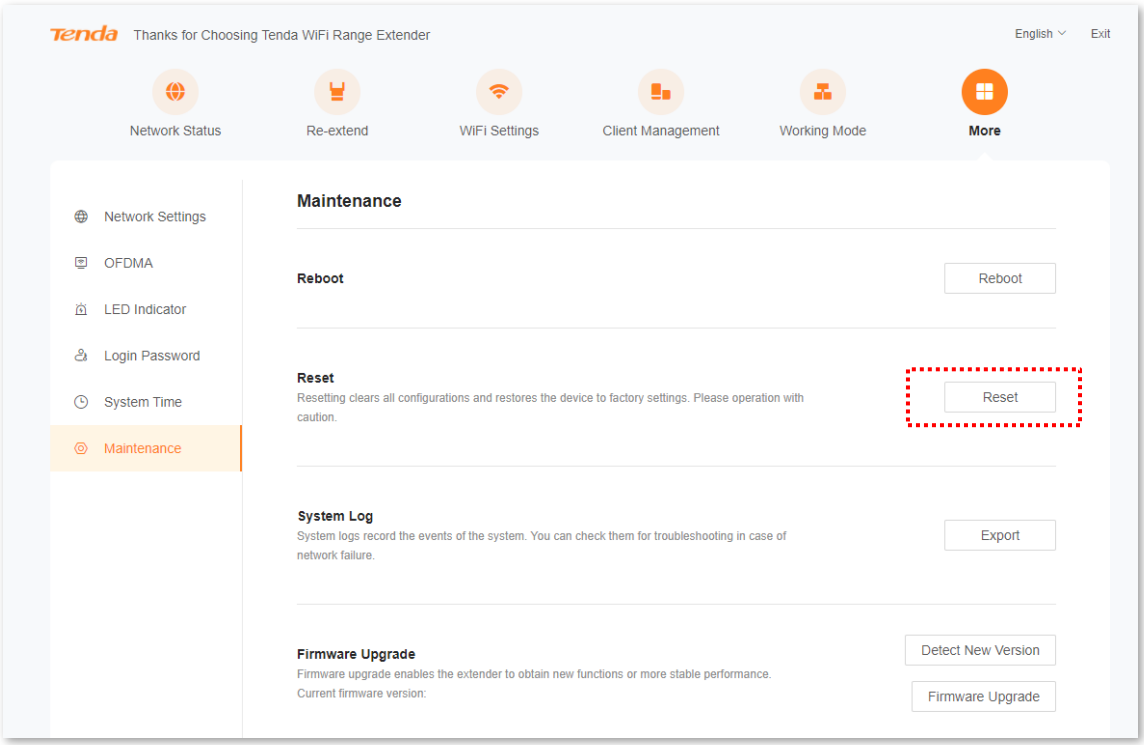
Reset the WiFi extender through Web UI

Configuration procedure:

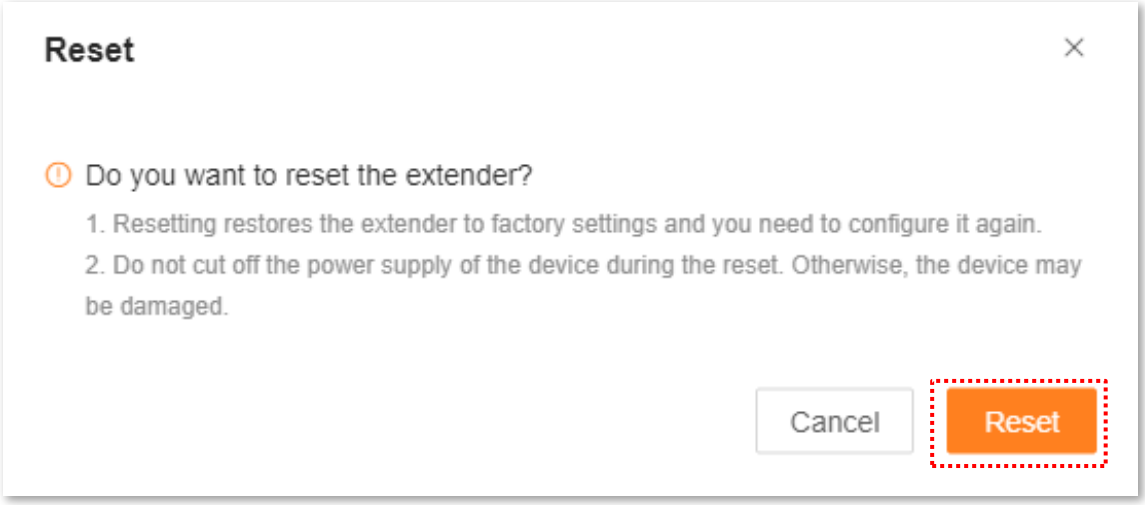
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Choose **More > Maintenance**, then find **Reset** module.

Step 3 Click **Reset**.



Step 4 After confirming the prompt message, click **Reset**. The system will be reset to effectuate the configuration.



---End

Reset the WiFi extender through Web UI

After the WiFi extender completes startup, hold down RESET button using a needle-like item (such as a pin) for about 1 to 3 seconds. The WiFi extender is reset to factory settings when the LED indicator blinks blue.

10.6.3 Export system logs

To access the page, choose **More > Maintenance.**

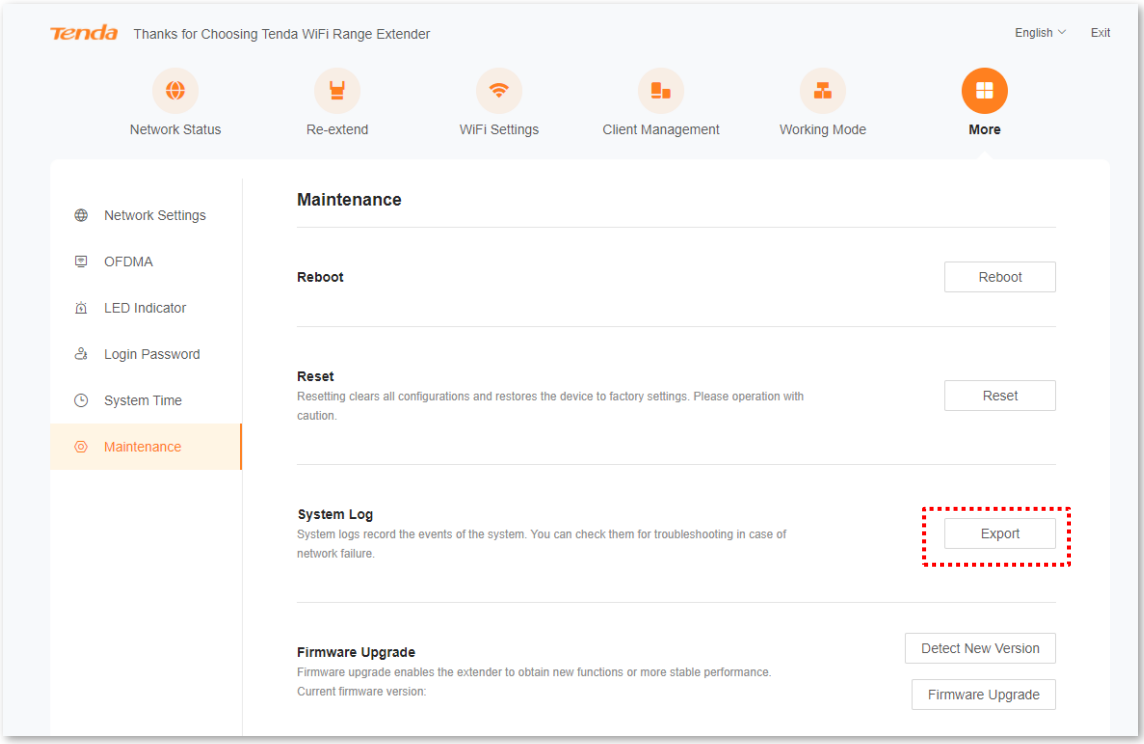
System logs of the WiFi extender recorded all events happened after the system starts up. In the event of a network failure, you can troubleshoot the problem using information in system logs of the WiFi extender.

Configuration procedure:

Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Choose **More > Maintenance**, then find **System Log** module.

Step 3 Click **Export**, then you can export the system logs of your WiFi extender to your computer.



---End

A file named **syslog.tar** will be downloaded to your computer through your browser.

NOTE

- The WiFi extender will only record the events after the latest startup.
- The WiFi extender will reboot after such operations as repowering after power-off, firmware upgrade, mode switching and resetting.

10.6.4 Upgrade firmware system

The WiFi extender gets new or more stable performance through firmware upgrade. The extender supports two firmware upgrade ways, **Local Upgrade** and **Online Upgrade**.

Online Upgrade

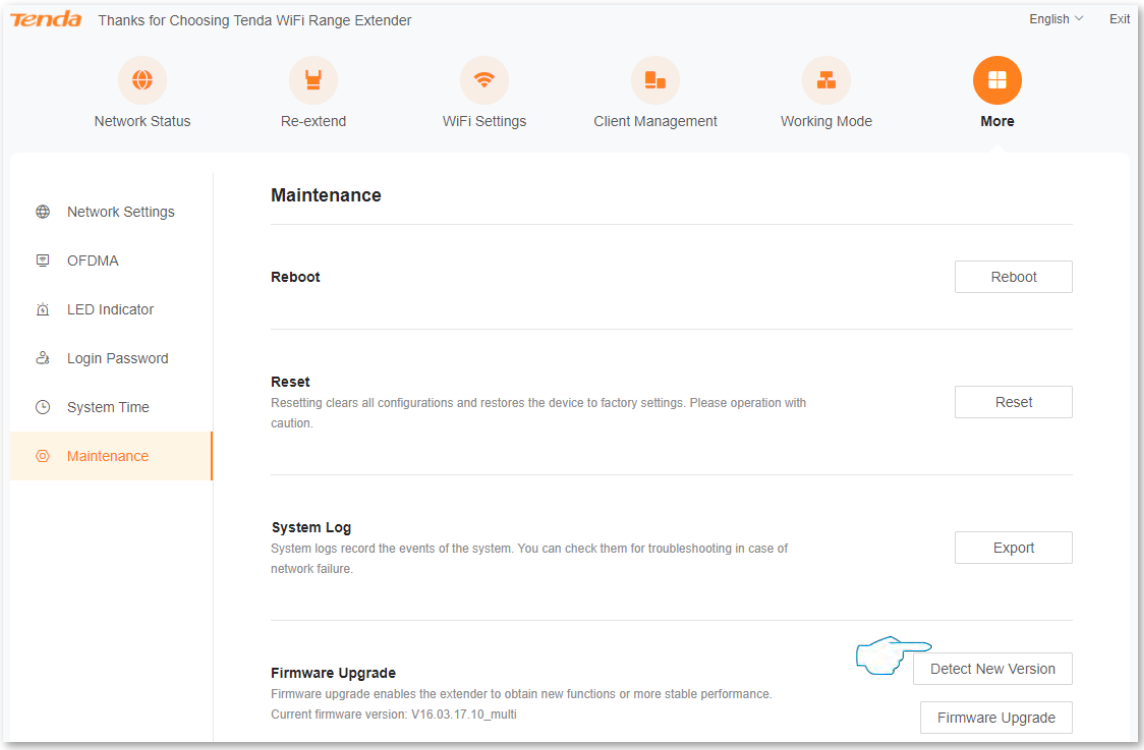
NOTE

During the upgrade, do not power off the extender or disconnect it from the internet; otherwise, the upgrade may fail or the extender may be damaged.

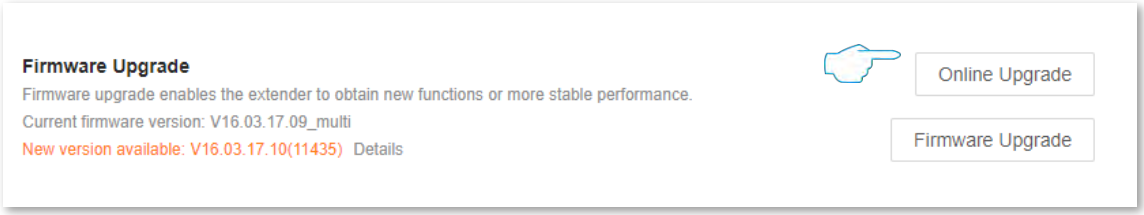
Step 1 Start a web browser on the computer connected to the WiFi extender, and enter **re.tenda.cn** in the address bar to access the web UI of the WiFi extender.

Step 2 Choose **More > Maintenance**, then find **Firmware Upgrade** module.

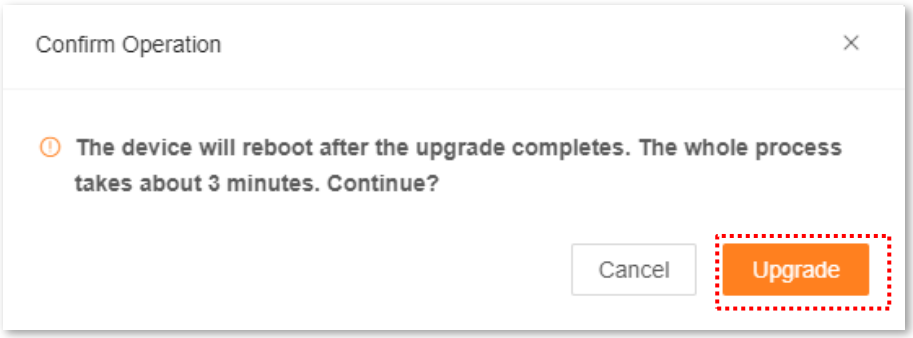
Step 3 Click **Detect New Version**.



Step 4 Wait for a while, when the system detects the new firmware version, click **Online Upgrade**.



Step 5 Confirm the prompt message and click **Upgrade**.



---End

The upgrade progress prompt will appear on the page. After the upgrade is completed, log in to the web UI of the extender again, and check the **Current firmware version** in the **Firmware Upgrade** module, confirm that it is the same as the firmware version you just upgraded.

TIP

To better experience the stability and value-added functions of the higher firmware version, after the upgrade is completed, please reset the extender to its factory settings.

Local Upgrade

NOTE

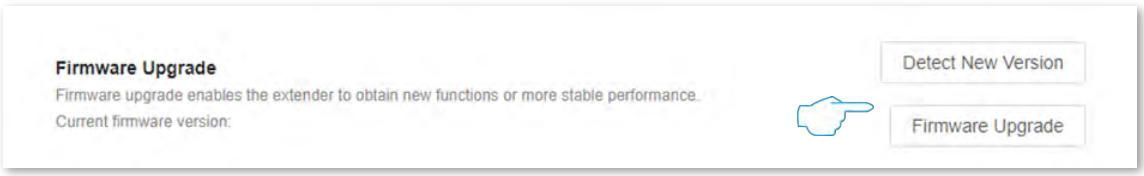
- To avoid damage to the extender, please use the correct upgrade file to upgrade. Generally, the file suffix of the firmware upgrade file is .bin.
- It is recommended to connect the computer to the LAN port of the extender with a network cable, and then log in to the web UI to upgrade the firmware.
- During the upgrade, do not power off the extender or disconnect it from the internet; otherwise, the upgrade may fail or the extender may be damaged.

Step 1 Visit Tenda's official website www.tendacn.com download the latest upgrade file of the corresponding model extender, save it to your local computer and unzip it.

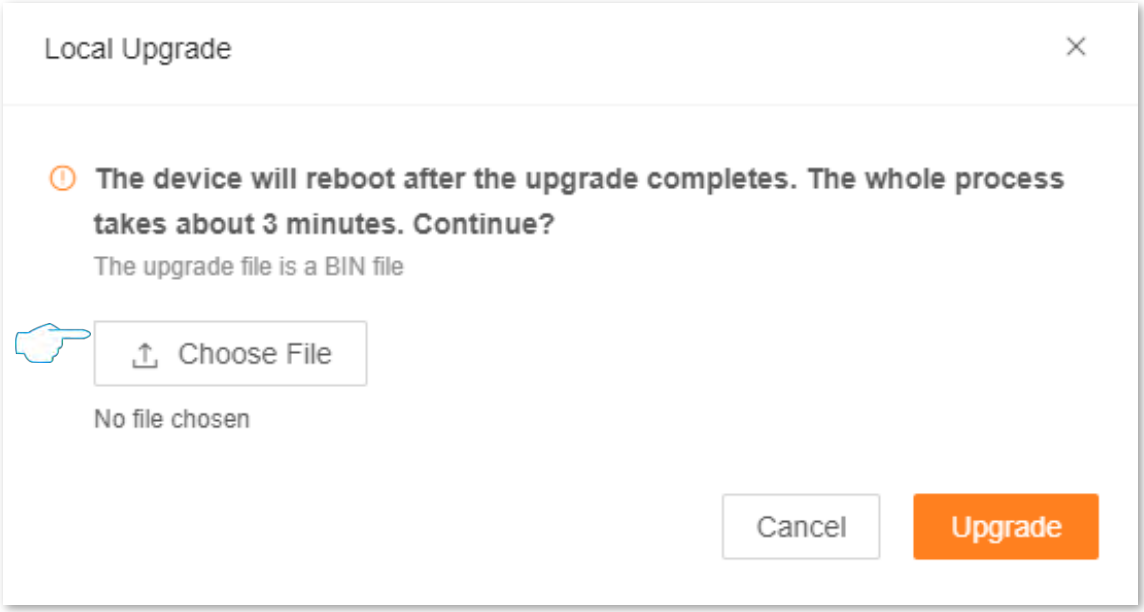
Step 2 On the computer connected to the extender, open the browser to visit **re.tenda.cn** to access the web UI of the extender.

Step 3 Choose **More > Maintenance**, then find **Firmware Upgrade** module.

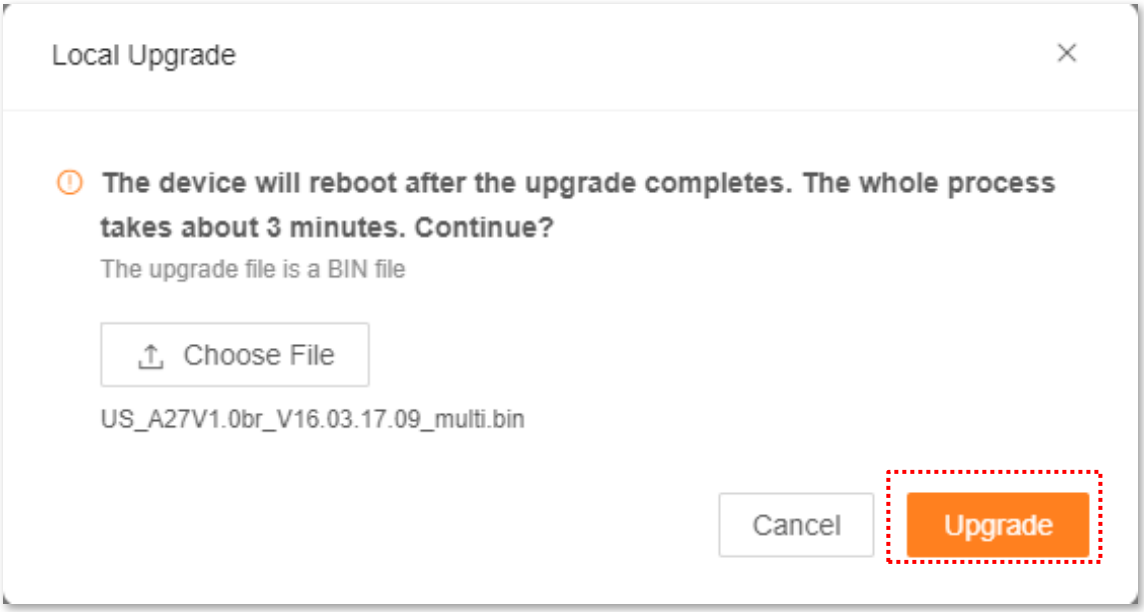
Step 4 Click **Firmware Upgrade**.



Step 5 Click **Choose File**, and select the upgrade file in the corresponding directory (the file suffix is .bin).



Step 6 Click **Upgrade**.



---End

The upgrade progress prompt will appear on the page. After the upgrade is complete, log in to the web UI of the extender again, and check the **Current firmware version** in the **Firmware Upgrade** module to confirm that it is the same as the firmware version you just upgraded.

TIP

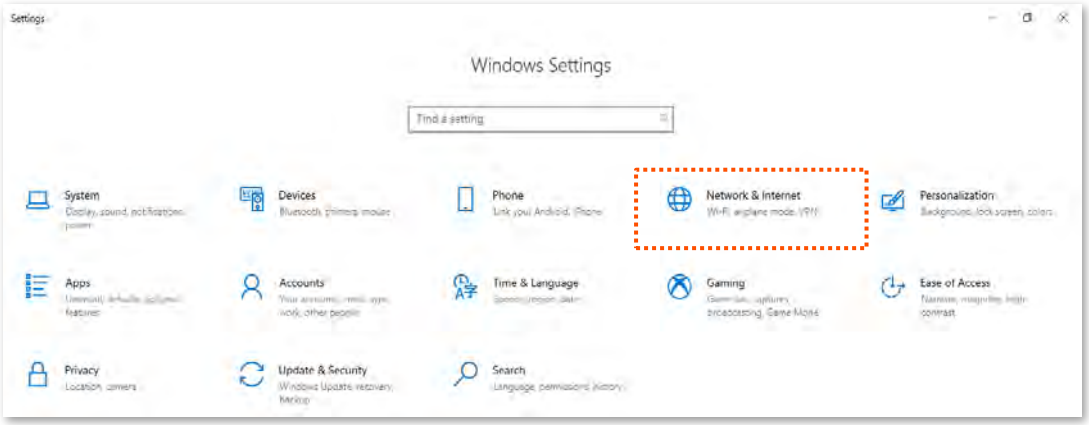
To better experience the stability and value-added functions of the higher firmware version, after the upgrade is completed, please reset the extender to its factory settings.

Appendix

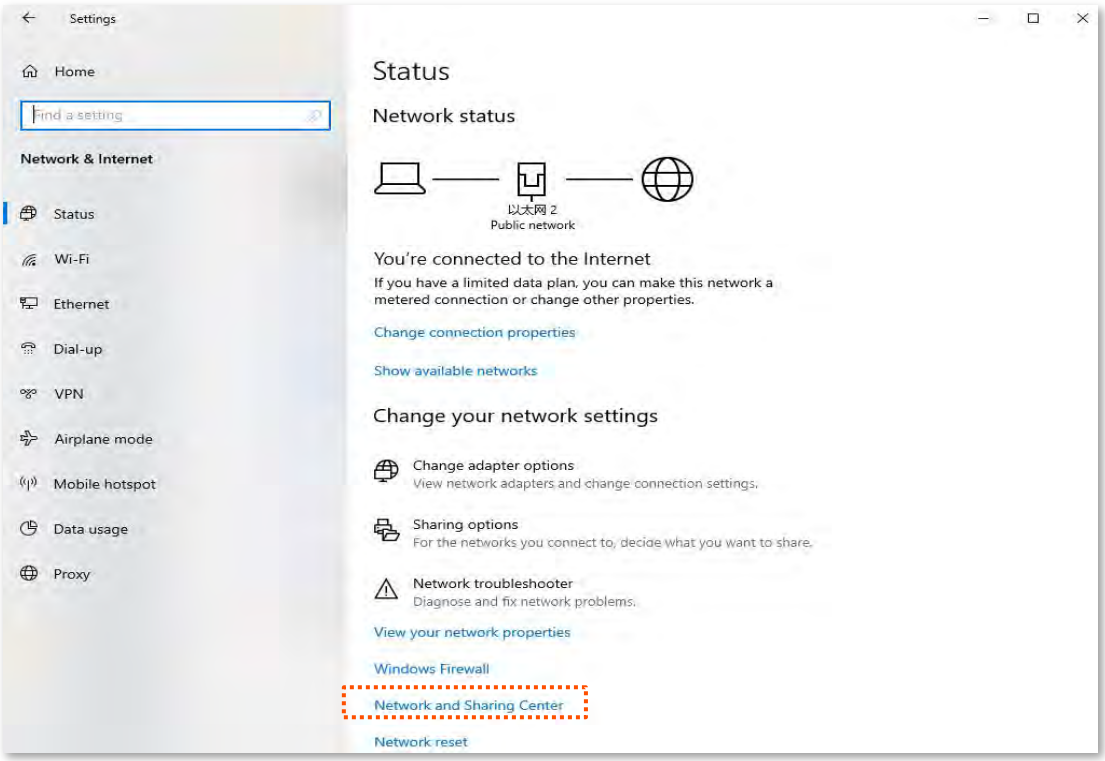
A.1 Set the computer IPV4 address

Here takes Windows 10 as an example for setting instructions.

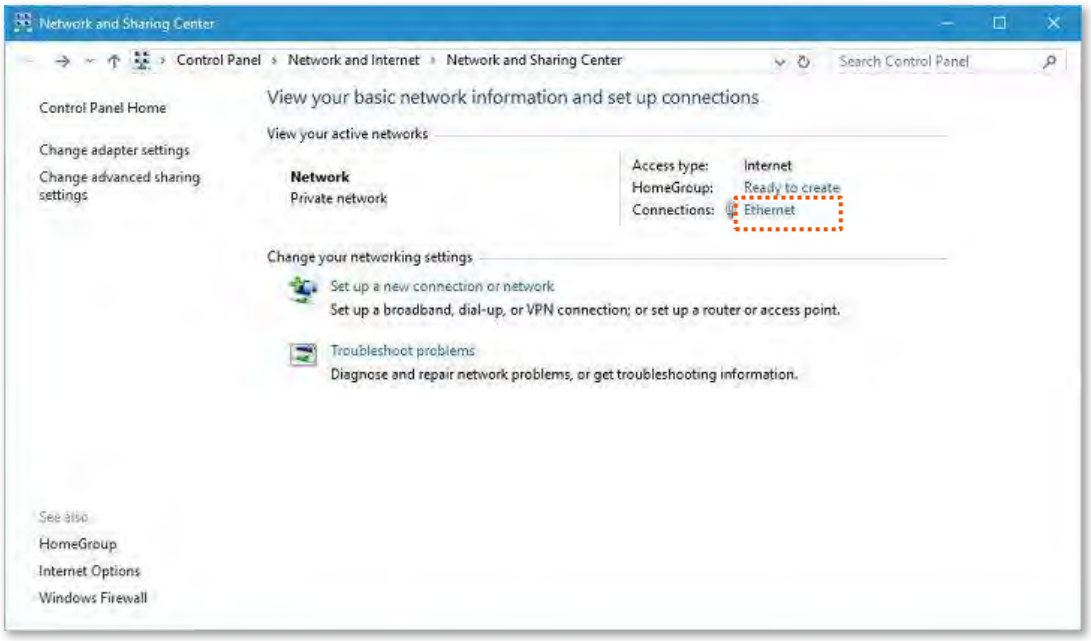
Step 1 On the computer desktop, Click **Start** , **Settings** , and choose **Network & Internet**.



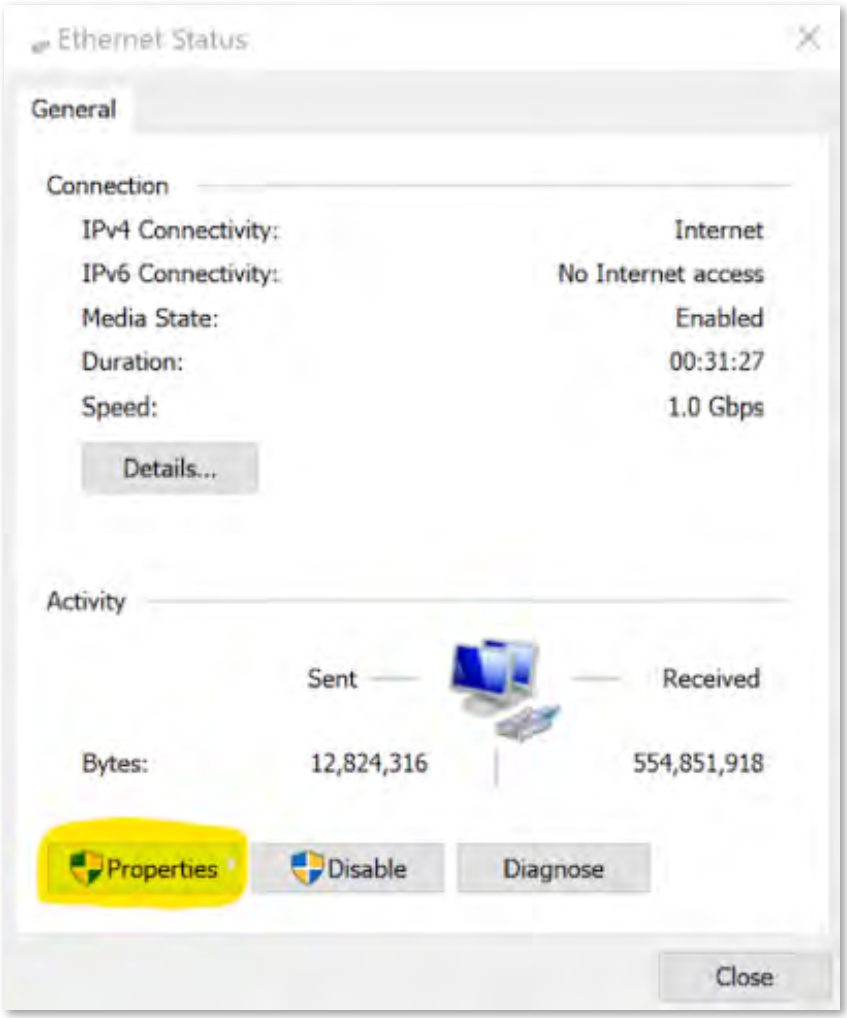
Step 2 Click **Network and Sharing Center**.



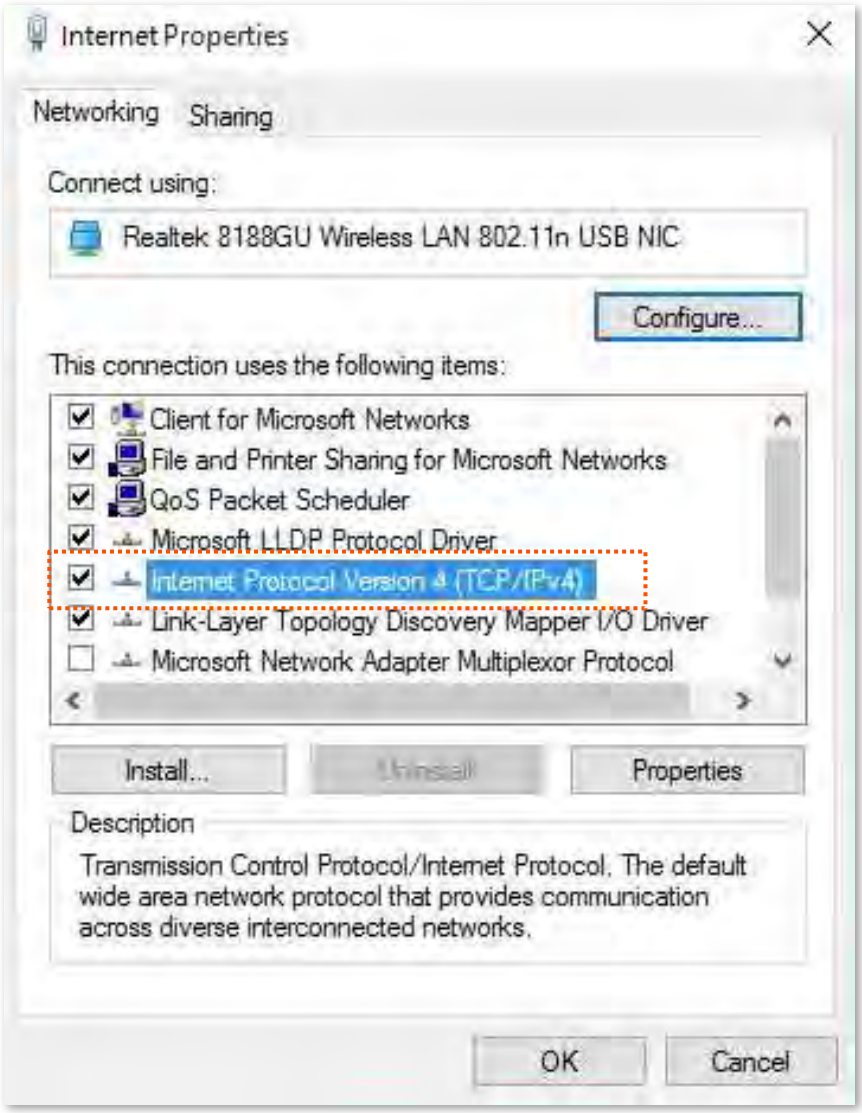
Step 3 Click **Ethernet**.



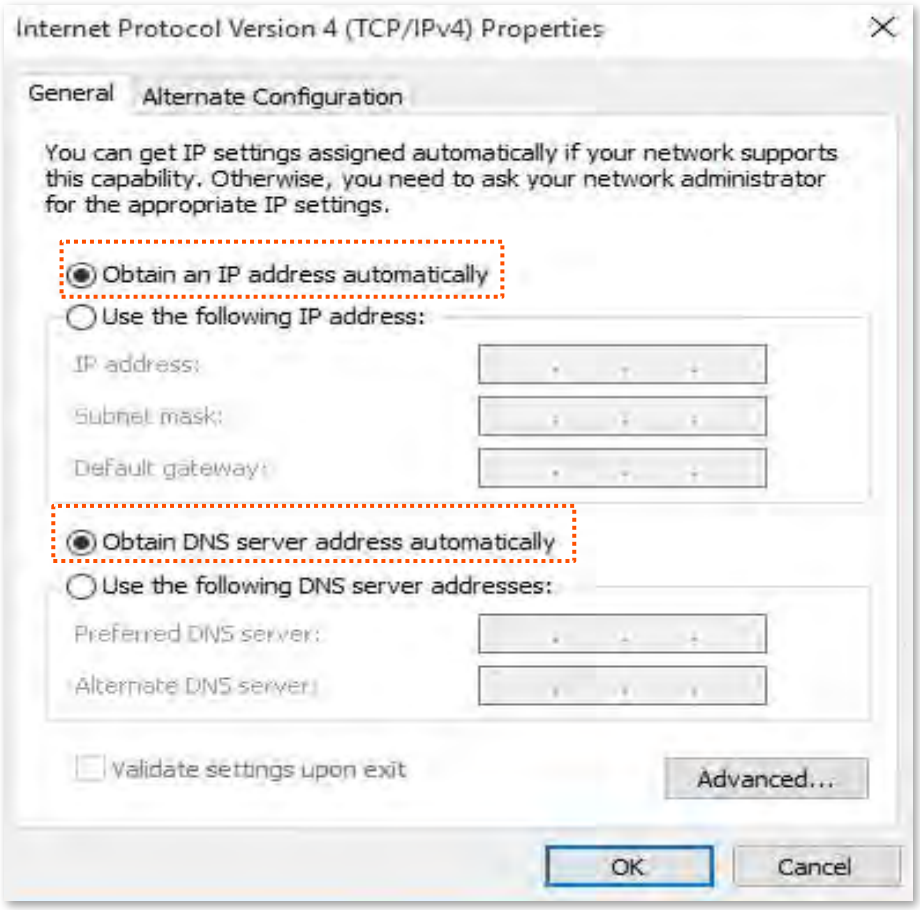
Step 4 Click **Properties**.



Step 5 Locate and double-click **Internet Protocol Version 4 (TCP/IPv4)**.



Step 6 Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**, and click **OK**.



Step 7 When the page automatically returns to the **Internet Properties**, click **OK** again.

---End

A.2 Default parameter values

The following table lists the default parameter values of the WiFi repeater.

Parameter	Default Value
Login address	re.tenda.cn
Login password	None
IP address	192.168.0.254 TIP After expanding the network of the WiFi router successfully, the WiFi repeater obtains an IP address automatically from the DHCP server of the upstream device.
Subnet mask	255.255.255.0 TIP After expanding the network of the WiFi router successfully, the WiFi repeater obtains a subnet mask automatically from the DHCP server of the upstream device.
DHCP server status	Enabled TIP It depends on the status of the extending. If the WiFi repeater expands the network of WiFi router successfully, the DHCP server will be disabled. Otherwise, it will be enabled.
SSID	Tenda_EXT
WiFi password	None
Unify 2.4 GHz & 5 GHz	Enabled

A.3 Acronyms and Abbreviations

Acronym and Abbreviation	Full Spelling
AES	Advanced Encryption Standard
AP	Access Point
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name System
DST	Daylight Saving Time
GMT	Greenwich Mean Time
IP	Internet Protocol
MAC	Media Access Control
OFDM	Orthogonal Frequency Division Multiplexing
OFDMA	Orthogonal Frequency Division Multiple Access
PMF	Management Frame Protection
SAE	Simultaneous Authentication of Equals
WPA PSK	WPA-Preshared Key