Wireless repeating

Overview

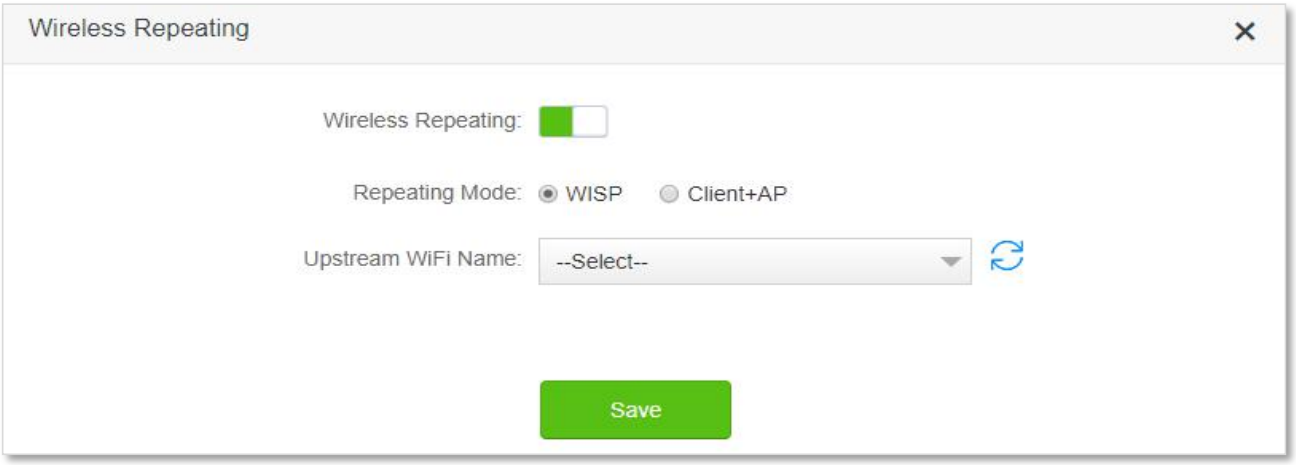
By configuring the wireless repeating function, you can extend the coverage of an existing network.

To access the configuration page, log in to the web UI of the router, and choose **WiFi Settings** > **Wireless Repeating**.

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

NOTE

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



Parameter description

Parameter	Description
Wireless Repeating	It is used to enable/disable the Wireless Repeating function.
Repeating Mode	Two repeating modes are available: • WISP mode: Generally used to bridge the hotspot of ISPs. • Client+AP mode: Able to bridge all kinds of WiFi network. TIP • When WISP mode is chosen and the LAN IP of the router is at the same network segment as that of the upstream device, the router will change the LAN IP address to a different network segment to avoid conflict. • After the router is set to WISP mode, you are required to access the internet by referring to the configuring procedures in Internet Settings according to the connection type you choose.
Upstream WiFi Name	It specifies the WiFi name that you want to bridge. If you choose **Enter a WiFi name manually**, you are required to enter the **WiFi Name**, **Frequency Band** and **Encryption Mode, Encryption Algorithm** and **Upstream WiFi Password** manually.

Parameter	Description
Upstream WiFi Password	It specifies the WiFi password of the WiFi name that you want to bridge.

Extend the existing WiFi network

When there is already a router with internet access in your home, you can refer to the configurations in this part to extend the WiFi network coverage. K7 is used for illustration here.

Assume that your existing WiFi name and password are:

- WiFi name: Home_WiFi
- WiFi password: 1234567

Method 1: Set the new router to WISP mode

Configuring procedure:

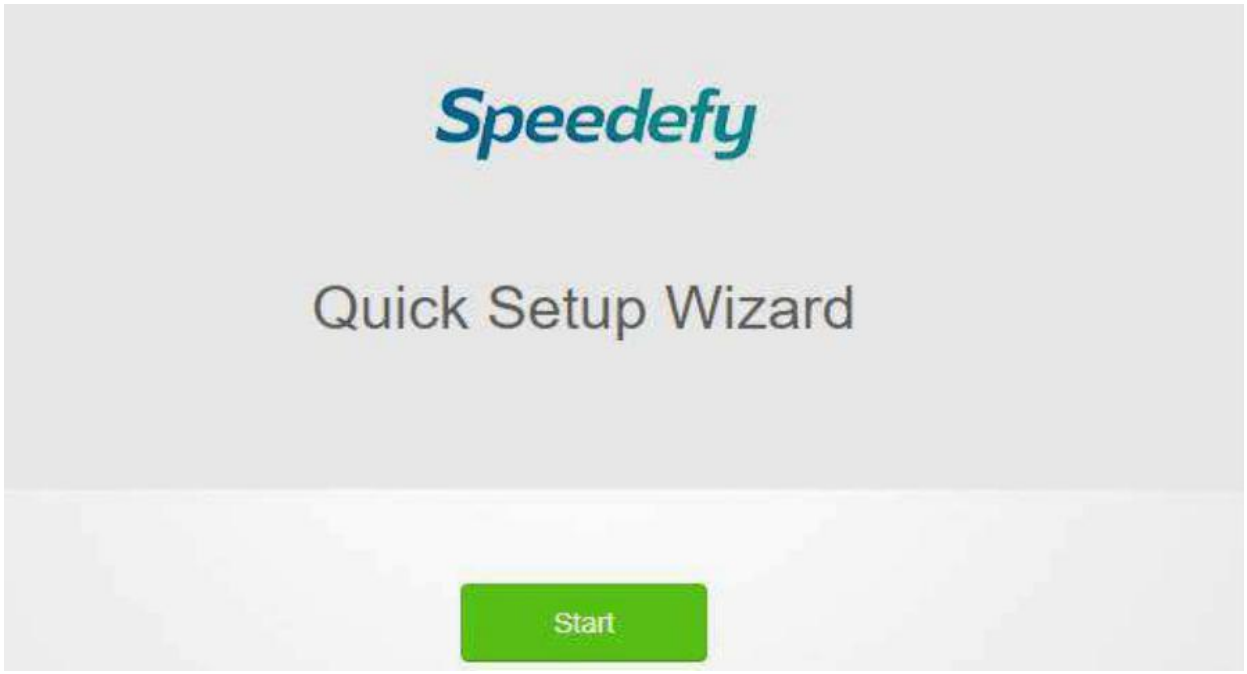
TIP

If you have finished the quick setup wizard before, start a web browser and visit **192.168.3.1**, then start from **Step 2**.

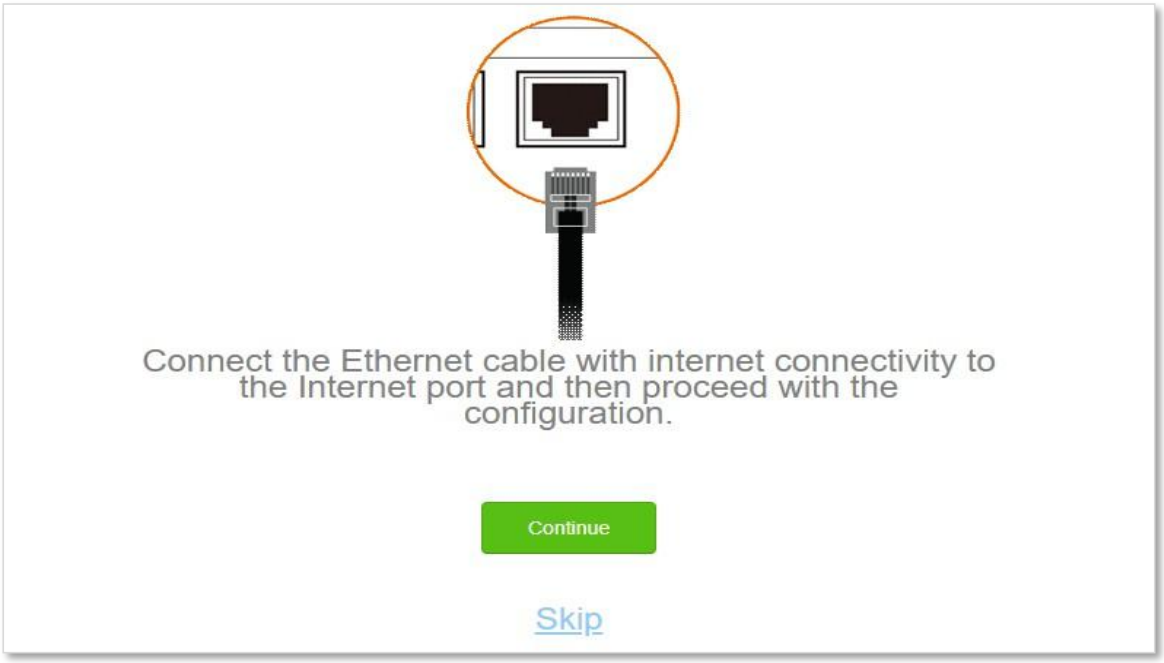
Step 1 Log in to the web UI of the router.

1. Place the new router near the existing router and power it on. Connect your wireless device to the WiFi network of your new router, or connect a computer to a LAN port of the router (1, 2, IPTV/3 for Speedefy K7). Do not connect any device to the WAN port of the new router.
2. Start a web browser on a device connected to the router and visit **Speedefywifi.com** to log in to the web UI of the router. A computer is used for illustration below.

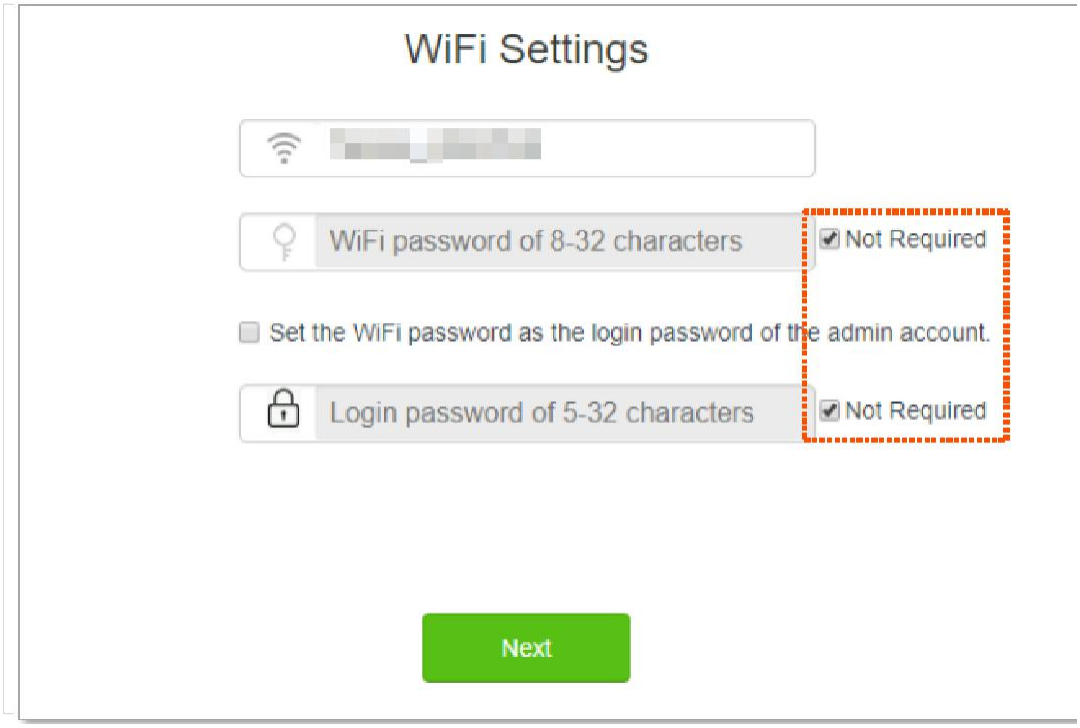
3. Click **Start**.



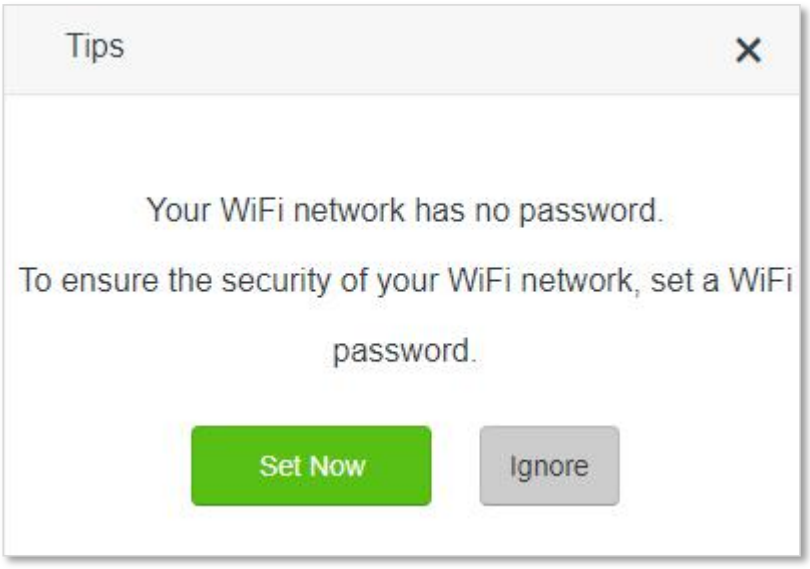
4. Click **Skip**.



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

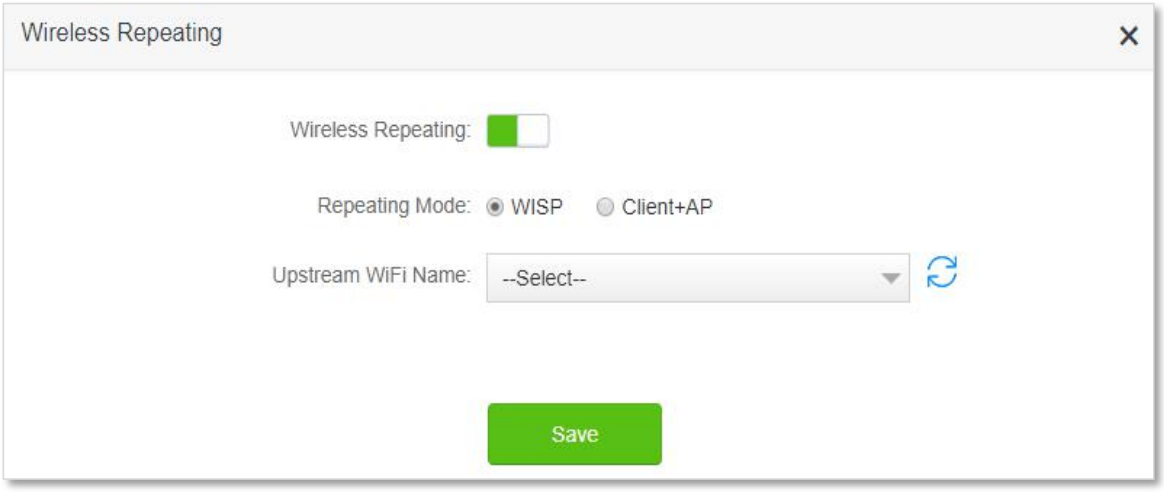


6. Click **Ignore**.

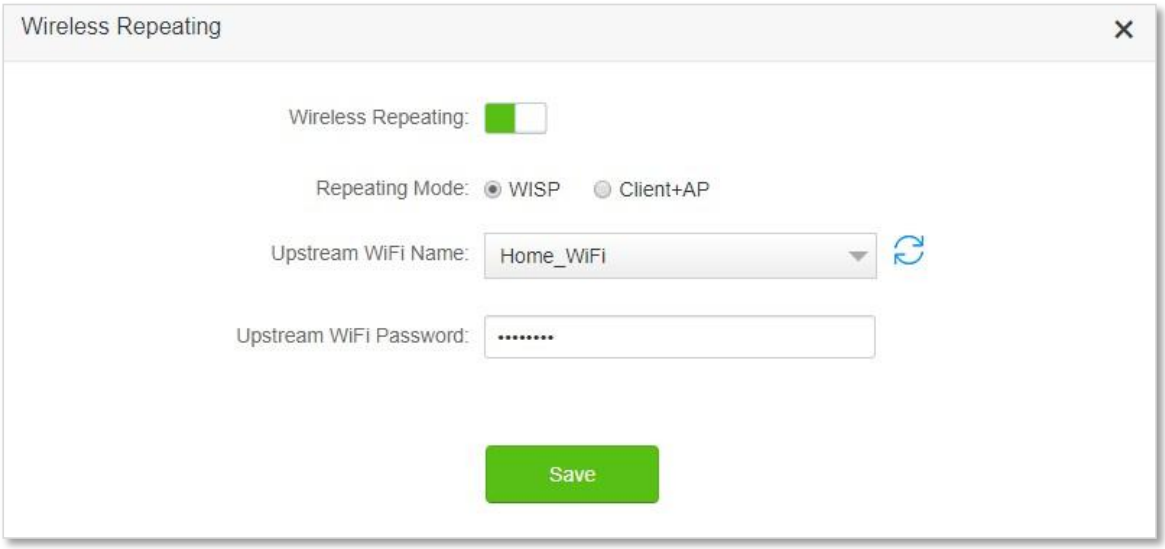


Step 2 Set the new router to WISP mode.

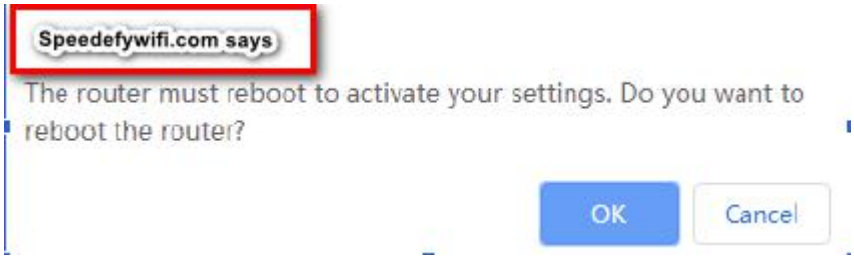
1. Choose **WiFi Settings** > **Wireless Repeating**.
2. Enable **Wireless Repeating**, and choose **WISP**.
3. Click **Select** to select an existing WiFi network, which is **Home_WiFi** in this example.



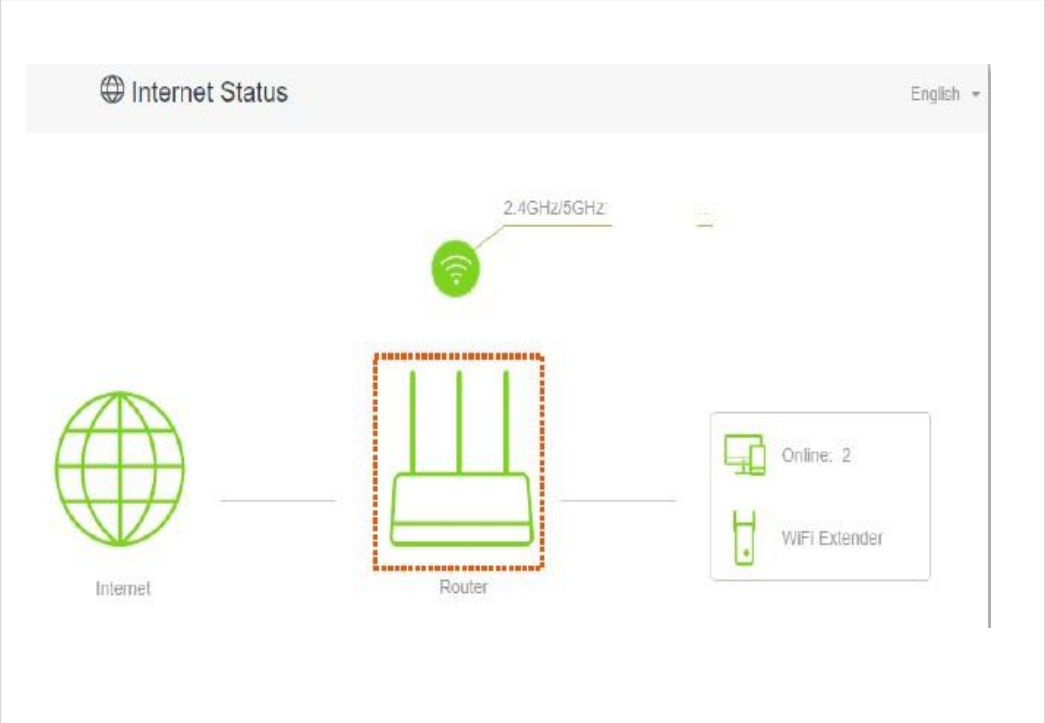
Step 3 Enter the **Upstream WiFi Password**, which is **Speedefy+245** in this example. **Step 4** Click **Save**.



Step 5 Click **OK**, and wait for the router to reboot.



Step 6 Log in to the web UI of the router again, navigate to **Internet Status** to check if the wireless repeating succeeds. Locate the new router in the area with weak WiFi signal and power it on again.



Step 7 Relocate the new router and power it on by referring to the following suggestions.

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

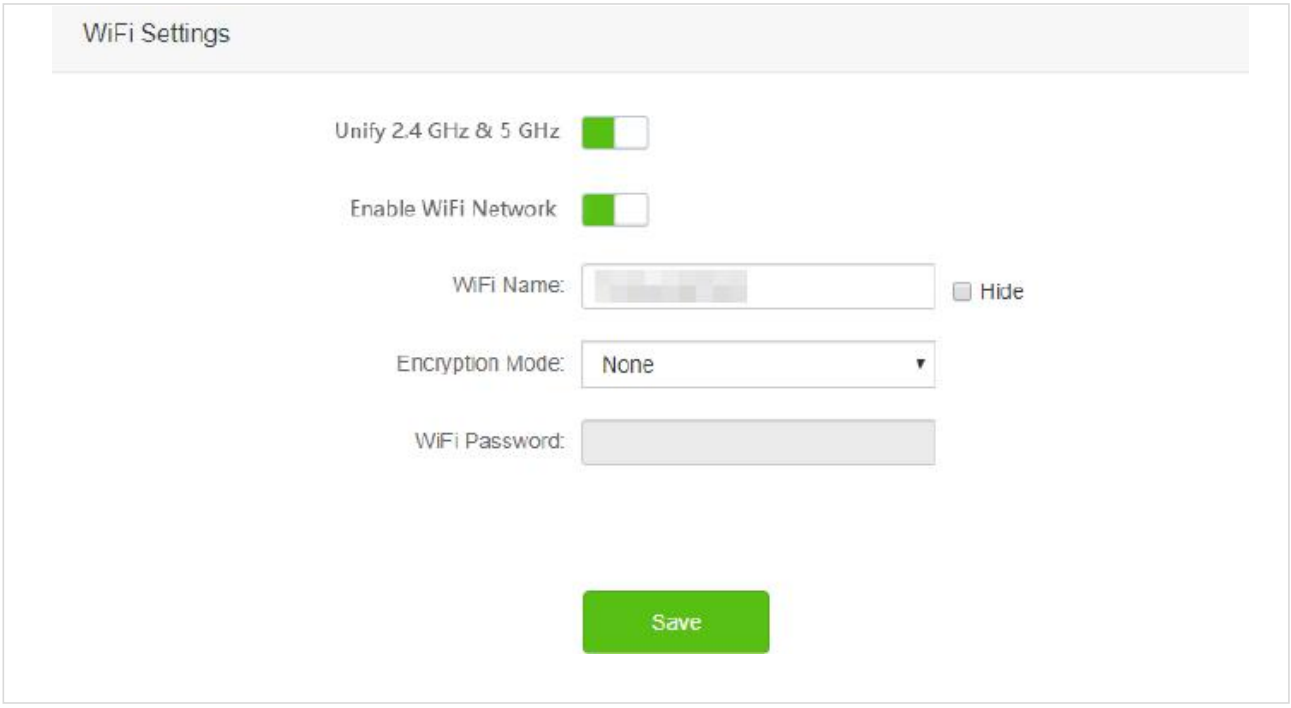
NOTE

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

---End

To access the internet, connect your computer to a LAN port of the new router (1, 2, IPTV/3 for Speedefy K7), or connect your smart phone to the WiFi network of the new router.

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



TIP

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

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

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

Configuring procedure:

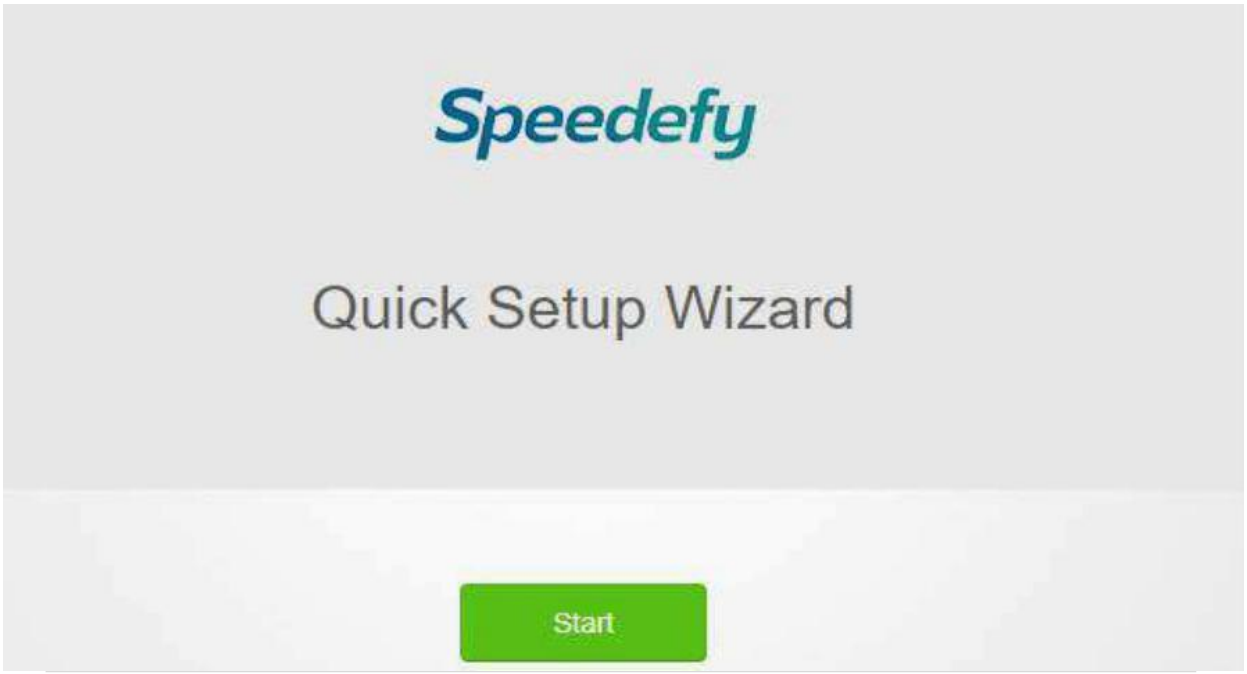
TIP

If you have finished the quick setup wizard before, start a web browser and visit **Speedefywifi.com**, and start from **Step 2**.

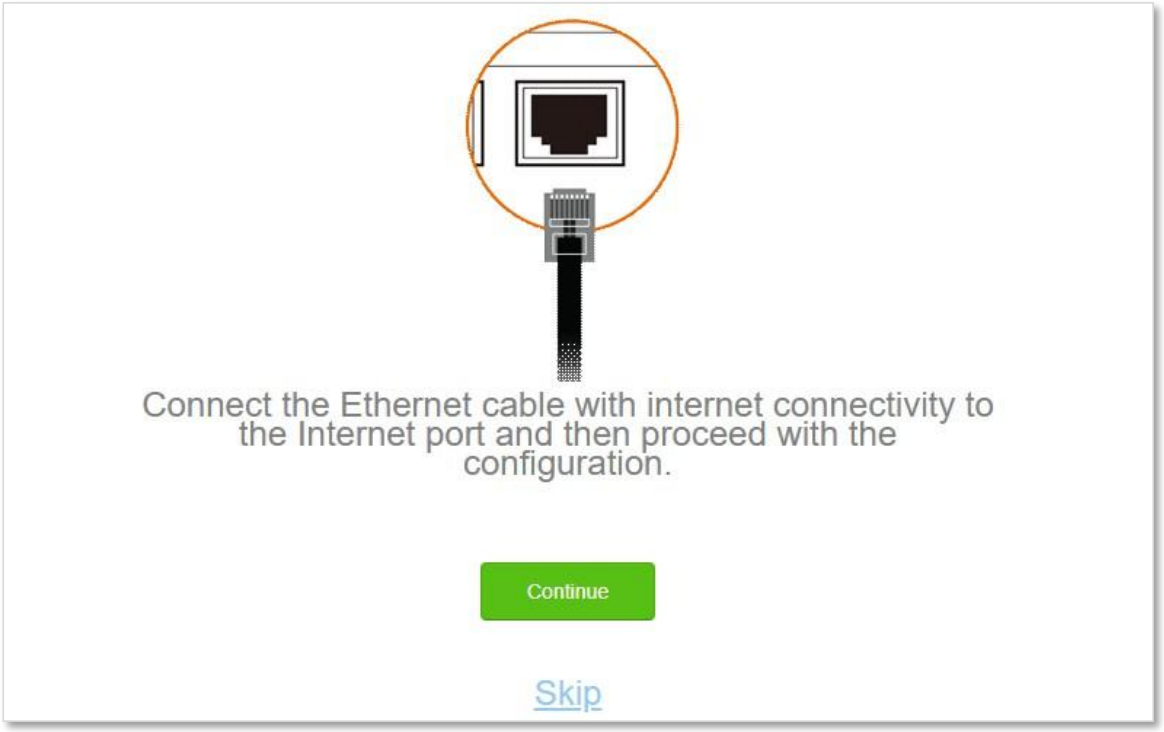
Step 1 Log in to the web UI of the router.

1. Put the new router near the existing router and power it on. Connect your wireless device to the WiFi network of your new router, or connect a computer to a LAN port of the router (1, 2, IPTV/3 for Speedefy K7). Do not connect any device to the WAN port of the new router.
2. Start a web browser on a device connected to the router and visit **192.168.3.1** to log in to the web UI of the router. A computer is used for illustration below.

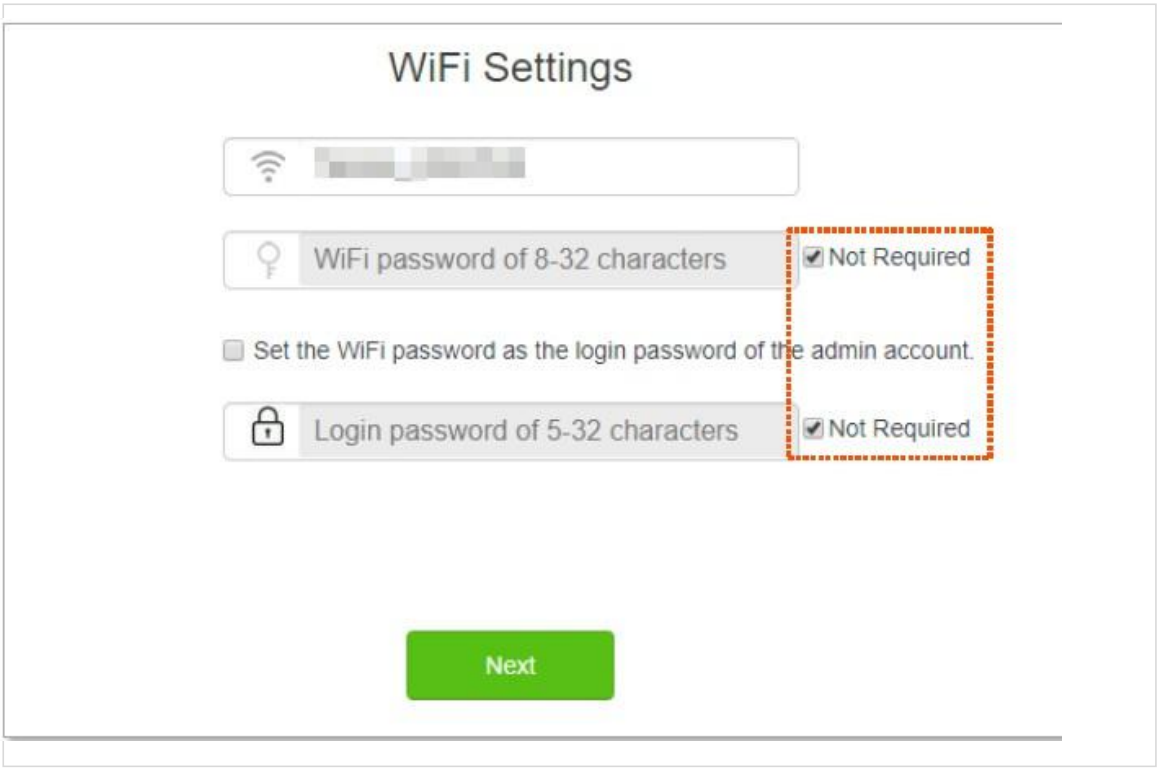
3. Click **Start**.



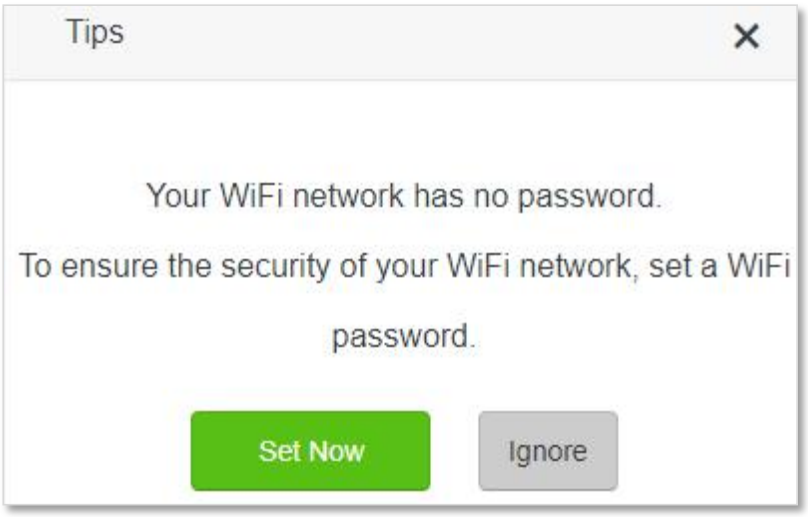
4. Click **Skip**.



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

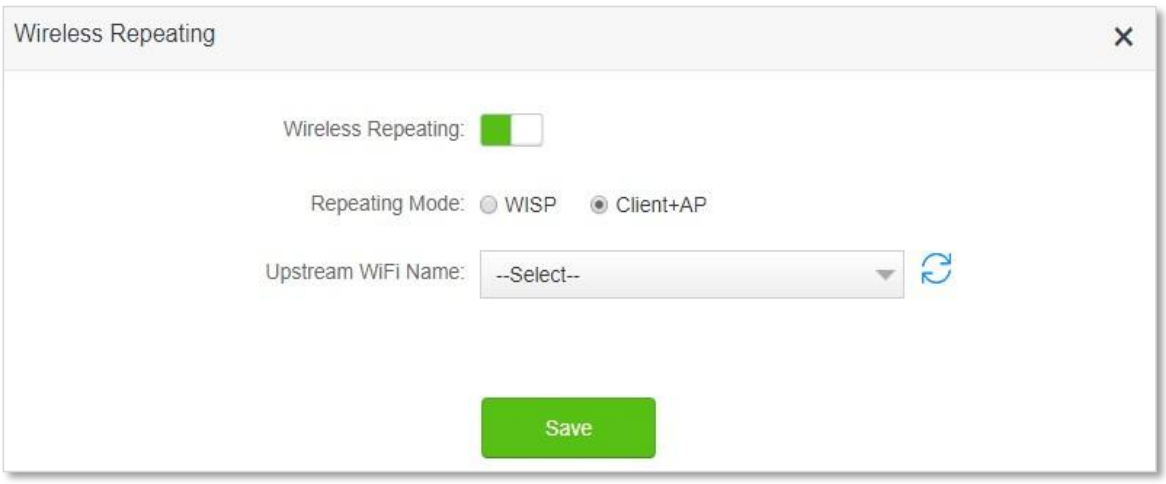


6. Click **Ignore**.



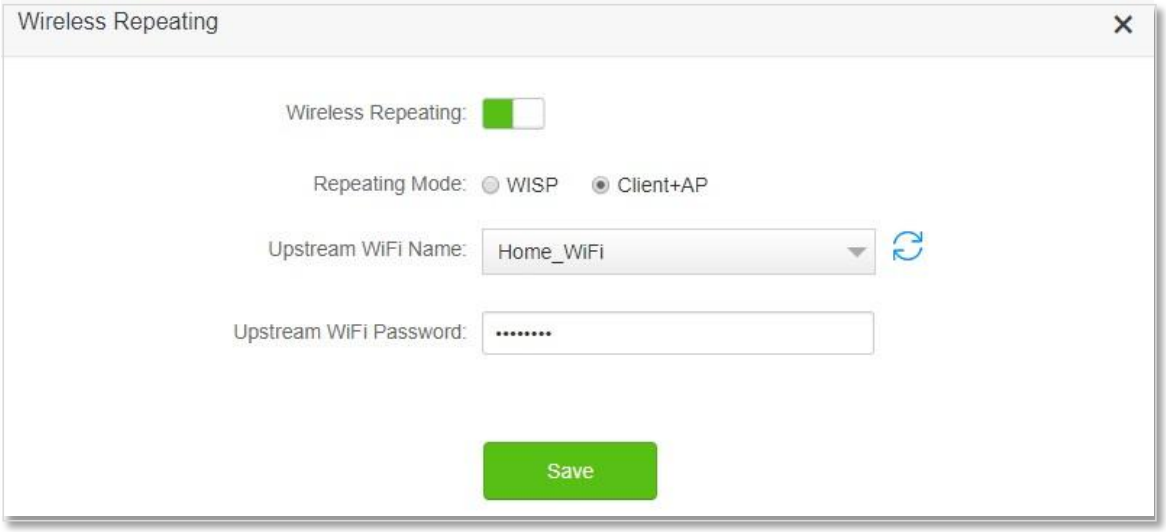
Step 2 Set the new router to **Client+AP** mode.

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

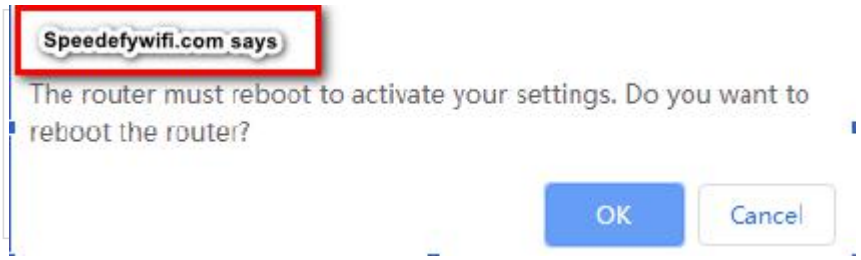


Step 3 Enter the **Upstream WiFi Password**, which is **Speedefy+245** in this example.

Step 4 Click **Save**.



Step 5 Click **OK**, and wait for the router to reboot.



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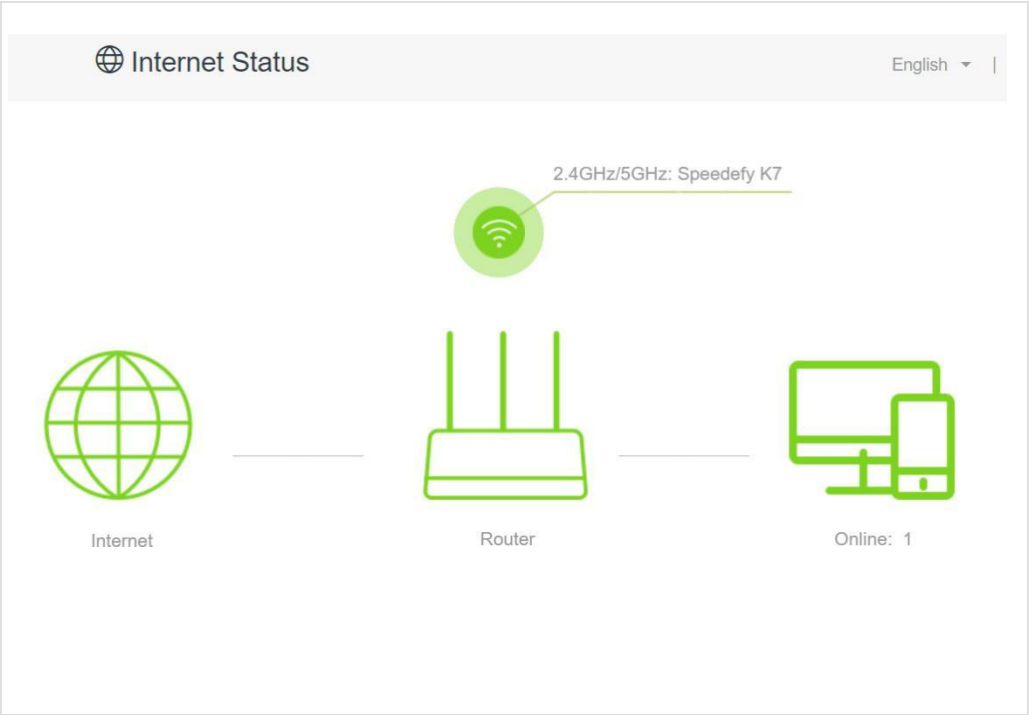


Step 7 Relocate the new router and power it on by referring to the following suggestions to r.

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

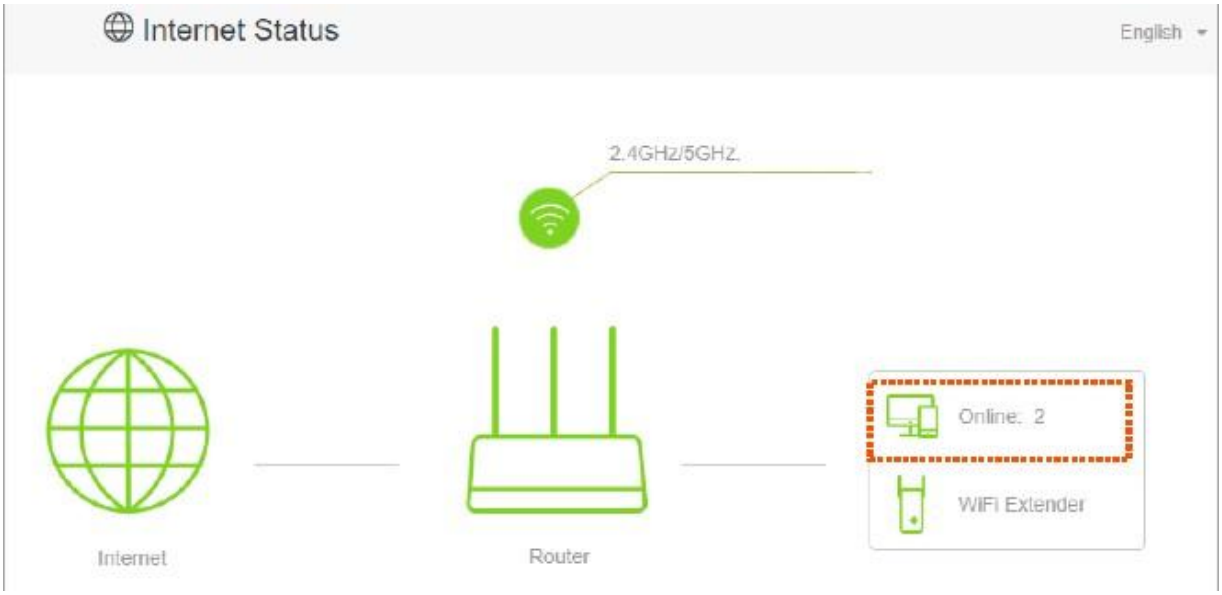
NOTE

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

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

To access the internet, connect your computer to a LAN port of the new router (1, 2, IPTV/3 for Speedefy K7 a), or connect your smart phone to the WiFi network of the new router.

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



TIP

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

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