

## Dual Band Wi-Fi Repeater

### 2.4GHz & 5GHz Concurrent



#### Quick Installation Guide

REV.3.61

#### Open Source Code

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#### Introduction :

The Dual-band Wi-Fi Repeater broaden the range of your wireless network. The Dual-Band Mode enables the simultaneous sending and receiving of 2.4GHz and 5GHz wireless signals. Thus the dual-band Wi-Fi Repeater can be used in 2.4GHz and 5GHz wireless networks. The dual-band Wi-Fi Repeater supports the following three modes:  
Repeater / AP / Client.

#### Package Contents

Before you starting to use this Repeater router, please check if there's anything missing in the package, and contact your dealer of purchase to claim for missing items:

- 1 x Dual Band Wi-Fi Repeater
- 1 x RJ-45 Networking Cable
- 1 x Quick installation Guide

#### Getting Started

##### Setting up a Wireless Infrastructure Network

For a typical wireless setup at home (as shown below), please do the following:

##### Wireless Repeater Mode

The range of your wireless network is extended and made available for 2.4GHz and 5GHz wireless networks

You will need Wireless AP/Router Internet access

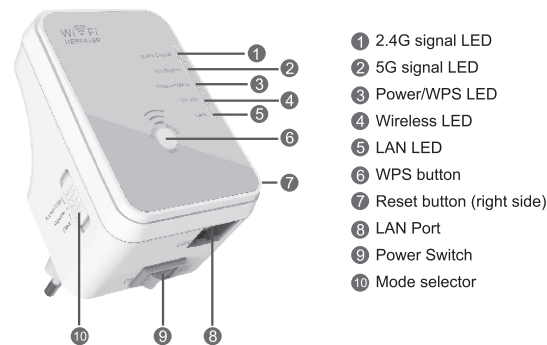
##### Wireless AP Mode

You will need broadband Router Internet access

Connect the Wi-Fi Repeater to your Router/ Switch with RJ-45 Cable

##### Client Mode

You can connect an end device with a LAN interface (for example, computer, notebook or TV set), which has no own wireless network, to the Wi-Fi Repeater via a LAN cable (network cable). The Wi-Fi Repeater can now connect your end device wirelessly to an existing wireless router.



#### Default Parameters

Default IP: 192.168.10.1  
URL: <http://ap.setup>  
Login Name: admin  
Password: admin

Wireless SSID:  
Wi-Fi Repeater(2.4G)  
Wi-Fi Repeater(5G)  
Wireless Key: no

#### LED Indicators

| LED                      | Status          | Meaning                                                                   |
|--------------------------|-----------------|---------------------------------------------------------------------------|
| 2.4G signal<br>5G signal | Lights up       | Excellent reception, signal strength 50% to 100%                          |
|                          | Flashes slowly  | Good reception, signal strength 25% to 50%                                |
|                          | Flashes rapidly | Weak reception, signal strength below 25%                                 |
|                          | Off             | NO reception                                                              |
| Power/WPS                | Lights up       | The Wi-Fi Repeater is switched on.                                        |
|                          | Flashes         | WPS connection is established or WPS signal of another device is expected |
|                          | Off             | The Wi-Fi Repeater is switched off.                                       |
| Wireless                 | Flashes slowly  | Connection established to wireless network                                |
|                          | Flashes rapidly | Data is being transferred                                                 |
|                          | Off             | Connection not established to wireless network                            |
| LAN                      | Lights up       | LAN connection is established                                             |
|                          | Flashes         | Data is being transferred                                                 |
|                          | Off             | LAN connection is not established                                         |

#### Configure the Wireless Repeater Mode

##### Configure the Wi-Fi Repeater with WPS Button.

This is the easiest way to configure the Wi-Fi Repeater. First, check whether your wireless router supports WPS. For further details, please read the operating instructions for your wireless router.



- The mode selector must be set to the **"Repeater"** position for Repeater Mode.
- Plug the Wi-Fi Repeater into a wall socket.
- Then switch on the Wi-Fi Repeater by turning the Power switch to the **"ON"** position.
- Press the WPS button on the Wi-Fi Repeater for at least **6** seconds. The Power/WPS LED now flashes for approx. 2 minutes.
- Within these 2 minutes, please Press the WPS button of the AP/Router directly for **2 - 3** seconds. (For further details, please read the operating instructions for your wireless router.)

The Wi-Fi Repeater then automatically connects to your wireless router and copies wireless key of the settings. Once the connection has been successfully established, the 2.4G or 5G signal LED lights up. The Wi-Fi Repeater can then be used. The Wi-Fi Repeater can be accessed via the SSID and the wireless key of your wireless router.

**Note:** If the WPS session overlap, WPS will not be able to start

##### A. Configure the Wi-Fi Repeater wirelessly.

You can configure the Wi-Fi Repeater by connecting it with your computer/laptop with enclosed RJ45 cable or wirelessly.

**A1.** The mode selector must be set to the **"Repeater"** position for Repeater Mode.

**A2.** Plug the **Wi-Fi Repeater** to a wall socket.

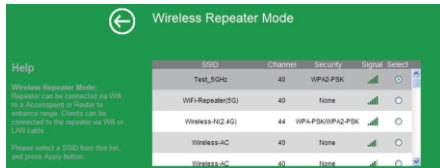
**A3.** Click on the network icon ( ) or ( ) on the right bottom of your desktop. You will find the signal from the **Wi-Fi Repeater (2.4G) or Wi-Fi Repeater(5G)**. Click on 'Connect' then wait for a few seconds.

**A4.** Open web browser and type

<http://192.168.10.1> or <http://ap.setup> in the browser address box. This number is the default IP address for this device.

**Note:** Please check whether the Wi-Fi Repeater accord with factory default settings once you can't entered <http://192.168.10.1>. If you are still not sure what reasons, you can reset the Wi-Fi Repeater, just need to press the **reset** button for **8** seconds, then try again.

**A7.** From the list, select a wireless network with which you want to connect the Wi-Fi Repeater by choosing the corresponding network in the **"Select"** field.



**A8.** After having selected a wireless network, you must then specify the network key of your wireless router for Security key.



After completing the entry, click on the **"Apply"** button. After the reboot has been completed, the Wi-Fi Repeater is accessible under the SSID and the Wireless key of your wireless router.

##### B. Configure the Wi-Fi Repeater with RJ45 Cable.

- Plug the Wi-Fi Repeater to a wall socket. Connect your computer / laptop with the Wi-Fi Repeater with enclosed RJ45 Cable.
- Follow process **A3** to **A8** to configure your Wi-Fi Repeater.

#### Configure the Wireless AP Mode

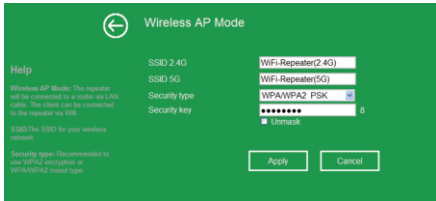
Use the AP Mode to obtain a "wireless access point". The wireless end devices will connect to the Wi-Fi Repeater in this mode. You can also use this mode, for example, to make a formerly non-wireless-enabled router wireless-enabled.



- The mode selector must be set to the **"Access Point"** position for AP Mode.
- Plug the Wi-Fi Repeater into a wall socket.
- Follow process **A3** to **A5**.
- After logging in, you will see the web page below:  
Click on the **AP** button in the Wizard field.



5. The following message will be displayed on your web browser:



|               |                                                                                                                                                                 |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SSID          | Wireless SSID of the Wi-Fi Repeater                                                                                                                             |
| Security type | Setup the wireless security and encryption to prevent from unauthorized access and monitoring. Supports 64/128-bit WEP, WPA, WPA2, WPA/WPA2 encryption methods. |
| Security key  | The <b>"Password"</b> of the Wi-Fi Repeater                                                                                                                     |

Click on **'Apply'** button, The Wi-Fi Repeater will restart.

After the reboot has been completed, the Wi-Fi Repeater is accessible under the SSID and the Wireless key.

#### Configure the Wireless Client Mode

Client Mode enables end devices with a LAN interface (for example, computer, notebook or TV set), which have no own wireless network, to connect wirelessly to an existing wireless router.



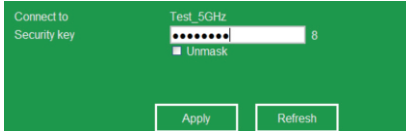
- The mode selector must be set to the **"Client"** position for Client Mode.
- Plug the Wi-Fi Repeater into a wall socket.
- Follow process **A4** to **A5**.
- After logging in, you will see the web page below:  
click on the **Client** button in the Wizard field.



5. From the list, select a wireless network with which you want to connect the Wi-Fi Repeater by choosing the corresponding network in the **"Select"** field.



6. After having selected a wireless network, you must then specify the wireless key of your wireless router for **Security key**.



After completing the entry, click on the **"Apply"** button.

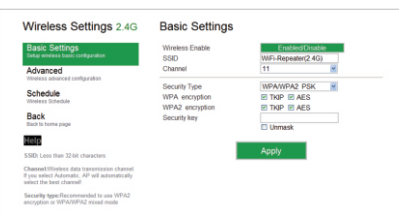
After the reboot has been completed, you can connect the Wi-Fi Repeater to your end device (for example, computer, notebook or TV set) via a network cable. Use the network cable included with the device for this purpose. Insert one end of the network cable into the LAN socket of the Wi-Fi Repeater and the other end into the LAN socket of your end device. Insert the Wi-Fi Repeater only into a socket that is always easily accessible.

#### Management via Web Browser

##### Wireless Base Configuration

Please follow the following instructions: Click **"Wi-Fi -> Basic Settings"** located at the web management interface, the following message will be displayed on your web browser:

You could configure the basic setting of Wireless settings for communication, such as Network Name (**SSID**) and Channel. The Access Point can be set simply with only the minimum setting items.



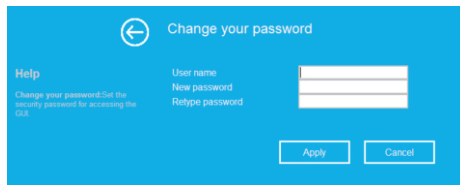
|                 |                                                                                                                                                                 |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wireless Enable | Wireless On/Off                                                                                                                                                 |
| SSID            | Wireless SSID of the Wi-Fi Repeater                                                                                                                             |
| Channel         | Auto ( <b>Recommend</b> )                                                                                                                                       |
| Security type   | Setup the Wireless security and encryption to prevent from unauthorized access and monitoring. Supports 64/128-bit WEP, WPA, WPA2, WPA/WPA2 encryption methods. |
| Security key    | The "Password" of the Wi-Fi Repeater                                                                                                                            |

Click **'Apply'** button, The Wi-Fi Repeater will restart.

##### Change Management password

Default password of Wireless Repeater is **"admin"**, and it's displayed on the login prompt when accessed from web browser. There's a security risk if you don't change the default password, since everyone can see it. This is very important when you have wireless function enabled.

To change password, please follow the following instructions:  
Please click **'Management -> Password'** menu on the web management interface, the following message will be displayed on your web browser:



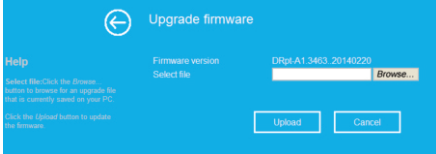
If you want to keep original password unchanged, click **'Cancel'**.

Click **'Apply'** button, The Wi-Fi Repeater will log off.

#### Firmware Upgrade

The system software used by this router is called **'firmware'**, just like any applications on your computer, when you replace the old application with a new one, your computer will be equipped with new function. You can also use this firmware upgrade function to add new functions to your router, even fix the bugs of this router.

Please click **'Management-> Upgrade Firmware'** located at the web management interface, and then the following message will be displayed on your web browser:



Click **'Browse...'** or **'Choose File'** button first; you'll be prompted to provide the filename of firmware upgrade file. Please download the latest firmware file from our website, and use it to upgrade your router.

After a firmware upgrade file is selected, click **'Upload'** button, and the router will start firmware upgrade procedure automatically. The procedure may take several minutes, please be patient.

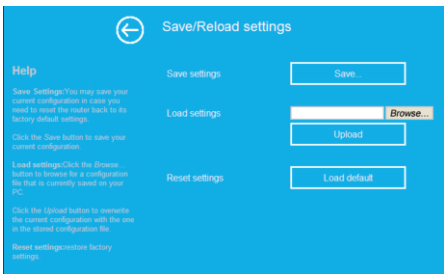
**NOTE:** Never interrupt the upgrade procedure by closing the web browser or physically disconnect your computer from router. If the firmware you uploaded is interrupt, the firmware upgrade will fail, and you may have to return this router to the dealer of purchase to ask for help.

(Warranty voids if you interrupted the upgrade procedure).

#### Factory Default and Settings Backup, Restore

You can backup all Setting of this router to a file, so you can make several copied of router configuration for security reason.

To backup or restore router setting, please follow the following instructions:  
Please click **'Save/Reload setting'** located at the web management interface, then the following message will be displayed on your web browser:



|                |                                                                                                                                                                                                                                                |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Save Settings  | Press <b>'Save...'</b> button, you can please save it as another filename for different versions, and keep it in a safe place.                                                                                                                 |
| Load Settings  | Press <b>'Browse...'</b> to pick a previously-saved configuration file from your computer, and then click <b>'Upload...'</b> . After the configuration is uploaded, the router's configuration will be replaced by the file you just uploaded. |
| Reset Settings | Click this <b>'Load default'</b> button to remove all settings                                                                                                                                                                                 |

#### How to connect your computer/laptop with the Wi-Fi Repeater

##### Adding a Wireless computers to the Wi-Fi Repeater

- Log on to the computer.
- Open Connect to a Network by right-clicking the network icon ( ) or ( ) in the notification area.
- Choose the wireless network from the list that appears, and then click Connect.
- Type the network security key or pass phrase if you are asked to do so, and then click OK. You'll see a confirmation message when you are connected to the network.
- To confirm that you added the computer, do the following:  
Open Network by clicking the **Start** button ( ), and then clicking **Control Panel**. In the search box, type **network**, and then, under Network and Sharing Center, click **View network computers and devices**. You should see icons ( ) for the computer you added and for the other computers and devices that are part of the network.

**Note:** If you don't see icons ( ) in the Network folder, then network discovery and file sharing might be turned off.

##### Adding a Wireless computers to the Wi-Fi Repeater with WPS Button

This is the easiest way to establish a connection to the AP. First, check whether your end device supports WPS. For further details, please read the operating instructions for your end device.

- Log on to the computer.
- Press the WPS button on the Wi-Fi Repeater for **3** seconds. The Power/WPS LED now flashes for approx. 2 minutes.
- Within these 2 minutes, please press the connection button (WPS) on your end device. (For further details, please read the operating instructions for your end device.)  
Your end device then automatically connects to your Wi-Fi Repeater and applies all of the settings. You should see icons ( ) for the computer you added and for the other computers and devices that are part of the network.

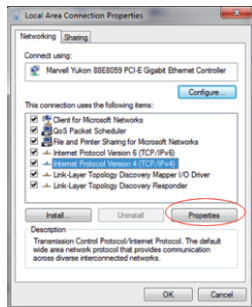
##### Adding a wired (Ethernet) computer to the Wi-Fi Repeater

- Plug the Wi-Fi Repeater to a wall socket. Connect your computer / laptop with the Wi-Fi Repeater with enclosed RJ45 Cable.
- To Confirm that you added the computer, do the following:  
Open Network by clicking the **Start** button ( ), and then clicking **Control Panel**. In the search box, type **network**, and then, under Network and Sharing Center, click **View network computers and devices**. You should see icons ( ) for the computer you added and for the other computers and devices that are part of the network.

**For more information:**  
<http://windows.microsoft.com/en-US/windows7/Add-a-device-or-computer-to-a-network>  
<http://windows.microsoft.com/en-US/windows7/Setting-up-a-wireless-network>  
<http://windows.microsoft.com/en-US/windows-vista/Setting-up-a-wireless-network>

#### How to configure your computer/laptop with the Network IP Address

- Log on to the computer.
- Click the **"Start"** button (it should be located at the lower-left corner of your screen), then click **"Control Panel"**. Click **"View Network Status and Tasks"**, and then click **"Manage Network Connections"**. Right-click **"Local Area Network"**, then select **"Properties"**. When the **"Local Area Connection Properties"** window appears, select **"Internet Protocol Version 4 (TCP/IPv4)"** and then click **"Properties"**.



- Setting IP address manually:  
Type IP address is **192.168.10.x** (x is from 2 to 254), and Subnet mask is **255.255.255.0**. Type the Router's LAN IP (the default IP is **192.168.10.1**) into the Default gateway field.

