



HaLow WiFi Extender

User manual



Product Overview



This product is a set consisting of two components: a Receiver unit (single antenna) and a Transmitter unit (dual antennas). Below are the connection and usage instructions.

Note: After receiving the products, do not alter the RF-ID toggle switches on the Receiver or Transmitter for whom it is the above diagram. The devices have been pre-configured at the factory for their designated roles (Receiver or Transmitter), and users do not need to adjust them during operation.



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1. Receiver Unit Setup

Connect the Receiver unit to your router (LAN port) using an Ethernet cable and power it on. The three indicator lights on the Receiver will blink during self-test. After self-test completion, the POW light and RX-TX lights will remain steadily lit.

2. Transmitter Unit Activation

Place the Transmitter unit in the desired location for internet access and power it on. The POW and RSSI lights will illuminate (if the RSSI light does not turn on, adjust the Transmitter unit's position). When the RSSI light on both the Transmitter and Receiver units stays lit, the connection is successfully established.

3. Device Connectivity

3.1 Wired Connection

Directly connect your device to the Transmitter unit via an Ethernet cable. The device will immediately connect to the router for internet access.

3.2 Wireless Connection

On your mobile device:
a. Navigate to WiFi settings and locate the hotspot AH-WIFI**** (SSID).
b. Enter the default password: 12345678 and connect.
c. The Transmitter unit's RX-TX light will illuminate upon successful connection.

This SSID and password ("12345678") can also be used to connect other wireless devices (e.g., IP cameras) to the network.

Notes:

Ensure the Receiver is connected to the router via an Ethernet cable before performing the above steps.
Ensure both units are within effective signal range.
For security, change the default WiFi password after initial setup.

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How to Modify the Default SSID and Password on a Mobile Phone

(Steps may vary slightly depending on the phone model. Similar methods apply to PCs.)

Step 1: Connect to the Default Wi-Fi

Open your phone's Settings and navigate to Wi-Fi settings. Search for the default SSID AH-WIFI**** and select it (Figure 1).

Step 2: Enter the Default Password

Input the default password: 12345678 and tap Connect. Once connected, the Transmitter unit's RX-TX light will illuminate, indicating a successful connection between your phone and the Transmitter (Figure 2).

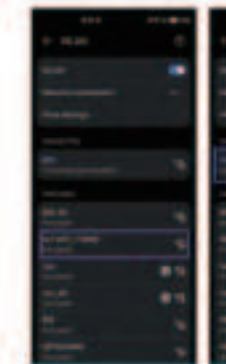


Figure 1



Figure 2

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Step 3: Access Network Configuration

To modify the SSID and password, tap Modify Network (or similar options) to begin adjusting settings (Figure 3).

Step 4: Configure Static IP Settings

Change the IP configuration from DHCP to Static. Update the following fields:
IP Address: 192.168.123.200
Gateway: 192.168.123.1
DNS 1: 192.168.123.1
Tap Save to apply changes (Figure 4).

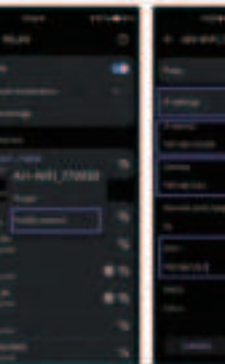


Figure 3

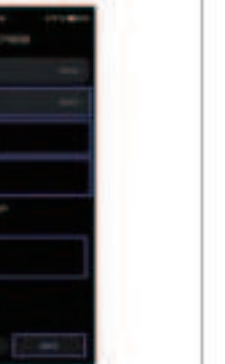


Figure 4

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Step 5: Access the Web Management Interface

Open your phone's browser and enter 192.168.123.1 in the address bar. Use the menu button in the top-left corner to navigate all pages. Note: If the page fails to load, ensure your phone is connected to the Transmitter unit (confirmed by the Transmitter's RX-TX light being lit) (Figure 5).



Figure 5

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Step 6: Modify Wi-Fi Name and Password

Go to the Wireless Settings page. Update the Wi-Fi Name (SSID) and Password, then tap Save (Figure 6).
Final Step: Return to your phone's network settings and revert the IP configuration from Static back to DHCP. You can now connect to the network using the new SSID and password.



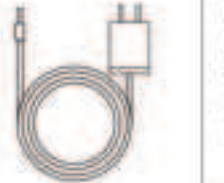
Figure 6

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Package Contents



Transmitter x1
Receiver x1



Adapter x2



Ethernet cable x2



Screw x2

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How to Pair or Re-Pair between Receiver and Transmitter

The product set has been pre-paired at the factory. Users do not need to re-pair when using one-to-one. In special cases where pairing information is lost or when one-to-multiple usage is required, follow the steps below.

Ensure both the Receiver and Transmitter are powered on.

Press the SYNC buttons on both devices simultaneously. The RSSI indicator light will flash, indicating successful pairing. Release the buttons once the RSSI light remains steadily lit.

When connecting one Receiver to multiple Transmitters, repeat the above steps to pair each Transmitter individually.

Notes:

The Receiver and Transmitter must have their RX-TX toggle switches set to the correct operating mode for pairing.

Pairing is only possible between a Receiver and a Transmitter. Pairing between two Receivers or two Transmitters is not supported.

In one-to-multiple usage, only one Receiver can be paired with multiple Transmitters.

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About REUMAR

REUMAR is a leading innovator specializing in the research, development, and commercialization of WiFi HaLow-based wireless solutions for video and data transmission. With a focus on harnessing the unique advantages of the 802.11ah (WiFi HaLow) protocol — including extended range, low power consumption, and enhanced penetration capabilities — our products are engineered to address critical challenges in industrial IoT, smart security systems, and remote monitoring applications.

Committed to advancing global connectivity, REUMAR combines a world-class R&D team with state-of-the-art technology platforms to deliver future-proof wireless communication systems. Our solutions are rigorously tested to meet international standards, ensuring reliable performance in extreme environments and high-density deployment scenarios.

Why Choose REUMAR?

Pioneering Expertise: Over a decade of experience in wireless protocol optimization and hardware integration.

Customizable Architectures: Scalable designs adaptable to enterprise, municipal, and industrial use cases.

End-to-End Support: From system deployment to lifecycle management, backed by 24/7 technical assistance.

Contact Us

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FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.