

WLNW-AP1 Router

Installation & Startup Guide

1. Product Overview

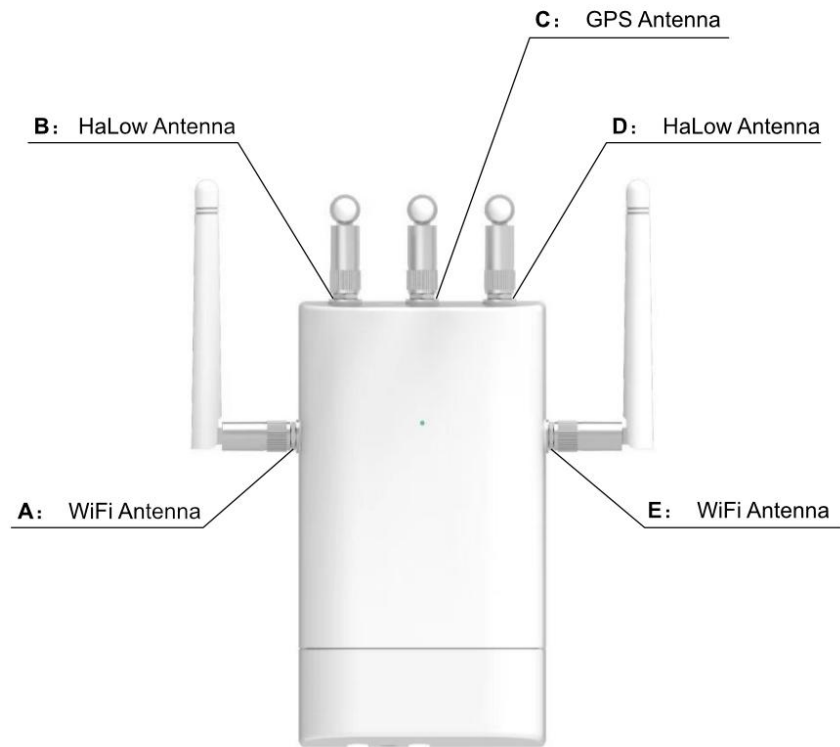
WLNW-AP1 Router is a wireless access point based on IEEE 802.11ah (HaLow) technology. It supports long-range, low-power communication and is equipped with multi-antenna interfaces for flexible deployment in smart agriculture, industrial parks, and environmental monitoring scenarios.

2. Installation Procedure

Step 1: Antenna Installation

The device includes five antenna mounting positions labeled A, B, C, D, and E. Each position is designated for a specific antenna type:

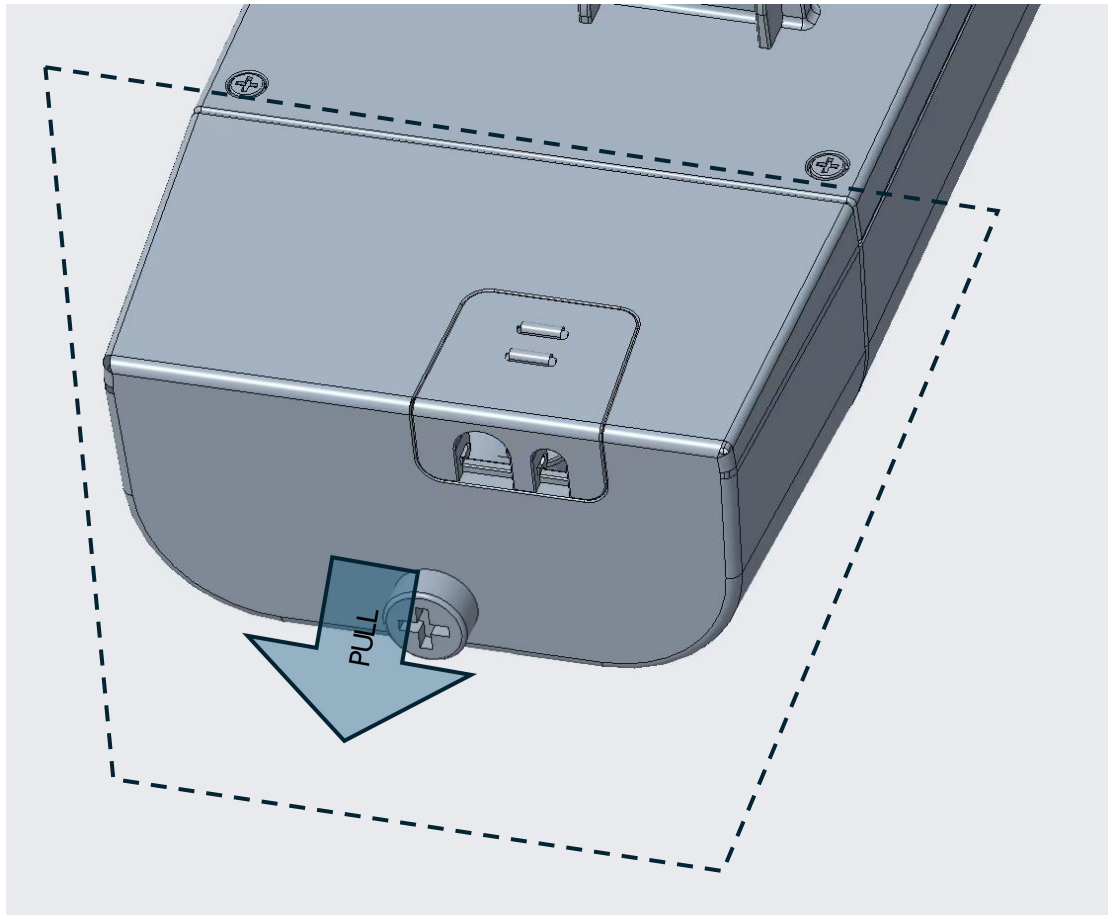
Position	Antenna Type	Function
A	WiFi Antenna	Standard wireless communication
B	HaLow Antenna	Long-range low-power signal
C	GPS Antenna	Location synchronization
D	HaLow Antenna	Long-range low-power signal
E	WiFi Antenna	Standard wireless communication



Important: Improper installation may affect signal performance. Ensure correct antenna placement before powering on.

Step 2: Power Supply Connection

1. **Remove the waterproof cap** located at the bottom of the device by pulling it firmly outward.



2. Insert the **Type-C** end of the power cable into the device's power port.
3. Plug the USB-A end into a compatible power adapter.
4. Connect the adapter to a standard AC power outlet.

Step 3: Automatic Boot and Configuration

After power is connected, the device will begin **automatic startup and configuration**:

- System initialization
- Communication module self-check
- HaLow and WiFi setup
- GPS synchronization (if GPS antenna is installed)

Startup Duration: Approximately **5 minutes**.

Do **not disconnect power** during this period.

3. Safety and Usage Notes

- Use a certified 5V/2A power adapter to ensure stable operation.
 - Reattach the waterproof cap after setup if used outdoors.
 - Avoid excessive force when connecting/disconnecting antennas or power cables.
 - Do not interrupt power supply during the startup process.
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4. Next Steps

To configure the network, monitor performance, or manage devices remotely, please refer to the **WuLu Network Management Platform User Manual**.

5. FCC Statement

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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

6. RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.