Quick Start Guide

AC1200 High Power
Wi-Fi Outdoor 4G LTE Mesh Router

WAVLINK (@WavlinkOfficial)
WAVLINK SUPPORT (@WavlinkTechSupport)

WING 12ML

REV.2

Overview

Top view

Bottom view

1. 2.4G Antenna Port
2. 5G Antenna Port
3. 4G Signal LED
4. Status LED
5. WAN LED
6. LAN LED
7. Power LED
8. 4G Antenna Port
9. RESET/PAIR Button
10. GND Terminal
11. 4G LED
12. WAN/POE IN Port
13. LAN Port
14. Built-in SIM Card Slot

Pair Button:
Press for 2 seconds to add an extra device to the existing mesh system.
Reset Button:
Press for 6 seconds to reset the device.

LED Indicator

Basic LED

Power	On	The device is connected to power.
	Off	The device isn't connected to power.
WAN	On	The Internet is connected.
	Off	The Internet isn't connected.
	FLASH	The device is transmitting data.
LAN	FLASH	The LAN port is connected to cable.
	Off	No connection.

Signal LED

Mode				Description
4G	ON	ON	ON	75%-100% 4G signal input strength
	ON	ON	OFF	50%-75% 4G signal input strength
	ON	OFF	OFF	＜50% 4G signal input strength
	OFF	OFF	OFF	The device is disconnected or your SIM card isn't activated.

Hardware Installation

Device Assembly

A1. Open the SIM slot and insert your SIM card (Nano size)

A2. Pass the RJ45 cable through the screw cap.
A3. Pass the RJ45 cable through the sealing rubber ring.
A4. Pass the RJ45 cable through the stand.
A5. Connect the RJ45 cable to the WAN/POE IN Port.
A6. Attach the grounding wire to the router and tighten the screw.

A7. Join the 5Ghz antennas, 2.4Ghz antenna and 4G LTE to ports.
A8. Insert the stand.
A9. Insert the sealing rubber ring into the stand.
A10. Screw the cap.

Outdoor Installation

B1. Mount the bracket to a pole.
B2. Attach the router to the bracket.
B3. Connect the networking cable to the **POE** Port on the POE adapter.
B4. Plug the POE adapter into a power outlet.
B5. Press the black power button of the adapter.
All indicators will illuminate, and then the POWER LED stays steady on.

Please note:
You should use 8 core standard network cables and our original PoE switch to power the outdoor router.

Configuration

Default IP: 192.168.10.1
Login: http://192.168.10.1
Default Password: admin
SSID: **WAVLINK-Mesh_XXXX**

1. Turn on **WLAN** on your devices (smart-phone, tablet , laptop, etc.). Search and click the SSID **WAVLINK-Mesh_XXXX** to connect.

2. Launch a browser and enter 192.168.10.1 in the address field. Choose your language. The default password is **admin**.

3. Select your **Country/Region** and **Time Zone**. For your security, please change your login password in time. Click **Save**.

4.Router Wizard
Option I
①**4G/LTE (For Mobile Network)**
Choose **4G/LTE WAN Type**, and for **Mobile Network Mode**, select **4G ONLY**.

② **WAN (Ethernet) (For Ethernet Network)**
Choose **WAN (Ethernet) WAN Type**, and for **WAN (Ethernet) Mode**, select **DHCP/Static IP/PPPoE**.

Which WAN (Ethernet) Mode should I choose?
If you use DSL line and you are only provided an account name and a password by your ISP, choose **PPPoE**. If you use cable TV or fiber cable, choose **DHCP (Dynamic IP)**. If you are provided information such as **IP** address, Subnet Mask and Default Gateway, choose **Static IP**.

③ **Both WAN/4G (For Mobile and Ethernet Network)**
Choose **Both WAN/4G WAN Type**, and you can prioritize the WAN or 4G network according to your needs. Select your **WAN (Ethernet) Mode and Mobile Network Mode**.

Option II
Click **Setup->Internet Settings, the next steps are exactly the same as the 4.1~4.3**.

In Internet Settings
Some information has to be provided by your ISP. **APN Settings**: Select **AUTO** or **MANUAL**. If you choose **MANUAL**, you will have to enter the APN details for your particular network. If in doubt, your network provider will supply you with the necessary details.

5.Click **WiFi**. You can change the WiFi SSID and password in **Wi-Fi Configuration** and then click **Apply**.

6.You also can change your login password in **Setup**, click **Setup->Login Password**.

Mesh Network

Generally, a mesh network supports up to 7 mesh nodes. Therefore, if you need to add more mesh devices to build up a stronger network in your home, you simply need to pair the new mesh devices with the existing network.

Option I
1. Log in to **192.168.10.1**.
2. Click **Wi-Fi** -> **Mesh Network**.
3. You can add extra mesh nodes by entering their **5G MAC Address.**

Option II
Please press and hold the "**Pair**" button on the mesh controller Router and the mesh agent AP for 1-2 seconds within 2 minutes. When 4G LED lights turn to solid blue, the pairing process is successfully completed.

Firmware Upgrade

1. Download the latest firmware from http://www.wavlink.com.
2. Extract the firmware from the downloaded file.
3. Log in to 192.168.10.1, click **Setup** and select **Upgrade Firmware**, then click **Refresh** and click **Upgrade**.
4. Click on **Browse/Choose File** to locate the extracted firmware file.
5. Click on **Apply**, and wait for the firmware upgrade process to complete.

What is firmware upgrade and why do I need it?
Firmware fixes bugs for your device, contains new features, which will greatly improve your using experience. For your device update and security, please ask us for help. Wrong upgrade may damage your device and void the product warranty.

FAQ

Q1. Why doesn't the login page appear after entering http://192.168.10.1?
- Make sure your PC is set to obtain IP address automatically.
- Please make sure you have entered the correct website.
- Reboot your device and try again.

Q2. What can I do if I can not access the Internet?
- Make sure your Internet works normally, please contact your **ISP**(Internet Service Provider) if it doesn't.
- Initiate your browser, enter **http://192.168.10.1**, then set up following the quick start guide.
- Reboot your device and try again.

Q3. How do I restore the device to factory default setting?
- Press and hold the reset button of mesh device for 6 seconds.

Q4. What can I do if I forget my administration management password?
- Please refer to Q3 to reset the device, the default password is **admin**.

Q5. How to find the best location for mesh devices?
- Please put your mesh devices in a relatively open space to avoid obstacles such as metal objects, reinforced concrete walls and so on.

WEEE Directive & Product Disposal
At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.