WAVLINK

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QUICK START GUIDE

AC1200 Dual Band High-Power Outdoor
Router/AP/Extender

www.wavlink.com/en_us/WL-WING 12M

**Scan the QR code or load the link for
Quick Start Guide downloading**

WING 12M

WAVLINK (@WavlinkOfficial)
WAVLINK SUPPORT (@WavlinkTechSupport)

Feature

- Dual band with maximum speed up to 5G 867Mbps and 2.4G 300Mbps.
- Weatherproof and build in lightning arrester withstand harsh outdoor conditions.
- Four 7dBi omnidirectional antennas eliminate Wi-Fi dead zones.
- High power amplifier for stronger signal transmission.
- Gigabit port provides faster connection.
- Passive PoE support for flexible deployment.
- Support AP/Router/Repeater/EasyMesh agent mode.
- MU-MIMO function lets the router talk to several devices simultaneously over the same Wi-Fi band.
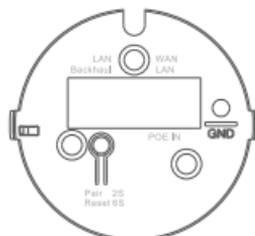
Hardware Overview

Top view
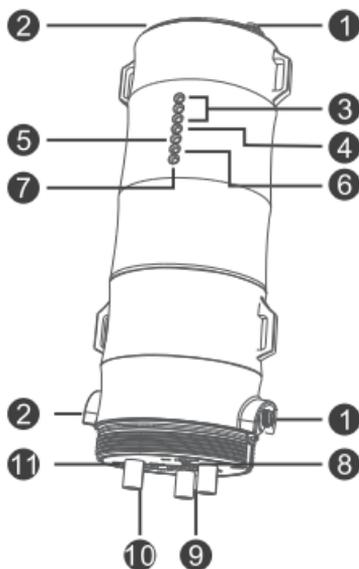
Bottom view

① 2.4G RP-SMA Antenna Connectors
② 5G RP-SMA Antenna Connectors
③ 3 x Wi-Fi Signal LEDs
④ Status LED
⑤ WAN/LAN LED

⑥ LAN Backhaul LED
⑦ POWER LED
⑧ Reset/PAIR Button
⑨ LAN Backhaul Port
⑩ WAN(PoE IN)/LAN Port
⑪ Grounding Terminal

Default Parameters

Web: http://wifi.wavlink.com
Default IP: 192.168.10.1
Login Password: admin

2.4G SSID: WAVLINK-N_XXXX
5G/AC SSID: WAVLINK-AC_XXXX
Wireless Password: open

LED Indicators

Power	On	The device is powered on.
	Off	The device is not receiving electrical power.
LAN/Backhaul	On	The Ethernet port is connected.
	Off	The Ethernet port is disconnected.
WAN/LAN	On	The Ethernet port is connected.
	Off	The Ethernet port is disconnected.
Status	Fast flash	Another router has not been connected when the device is the repeater mode.
	Slow flash	The another router has been connected but the device has no access to the network in the repeater mode.
	On	The device keeps on in the AP mode; The device can access the network normally.

Wi-Fi Signal

Mode	▬	▬	▬	Description
AP	ON	ON	ON	Wi-Fi signal output power 100%.
Repeater	ON	ON	ON	Better reception: signal 81%~100%.
	ON	ON	OFF	Good reception: signal 60%~80%.
	ON	OFF	OFF	Weak reception: signal below 0~59%.

1. Please follow the installation steps when assembling the device.

5G   2.4G

④
③
②
①

⑥
⑤
⑦
⑧
⑨
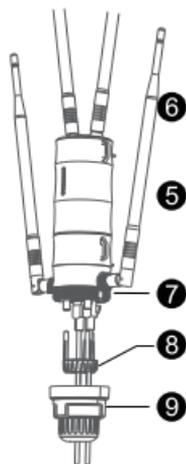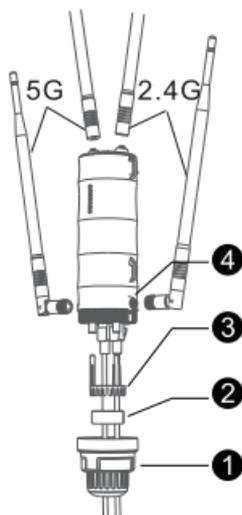
① Pass RJ45 cable through the spiral cover
② Pass RJ45 cable through the rubber seal
③ Pass RJ45 cable through the holder
④ Connect the RJ45 cable to PoE IN/WAN port.

⑤ Spin 2.4G antenna into the 2.4G external RP-SMA connector
⑥ Spin 5G antenna into the 5G external RP-SMA connector
⑦ Screw the holder
⑧ Plug the rubber seal to the holder
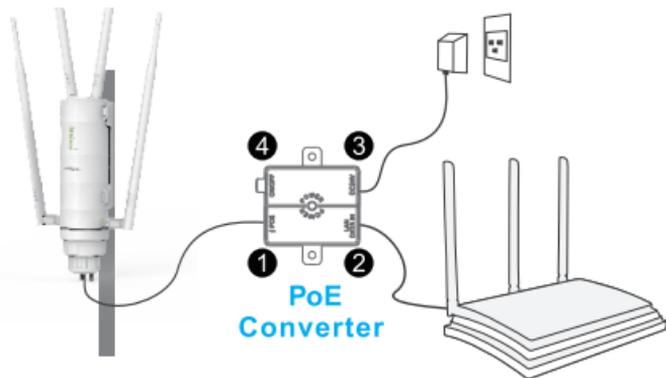⑨ Screw the spiral cover

2. Install the device.

2.1 Firstly fasten the device to somewhere firm, then install the device in the holder.
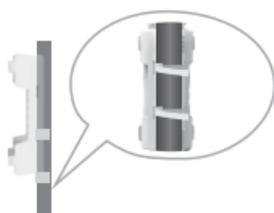
Remark

If you happen to live in the zone where lightning happens a lot, we suggest that you install the device through grounding connection in order to strengthen the lightning-resistant function.

2.2 Now please follow the steps below.

1) Connect the **"PoE"** port of PoE converter to the PoE IN(WAN) port of the device.
2) Connect **"LAN DATA IN"** to **"LAN"** of your router.
3) Plug in the device through the power adapter.
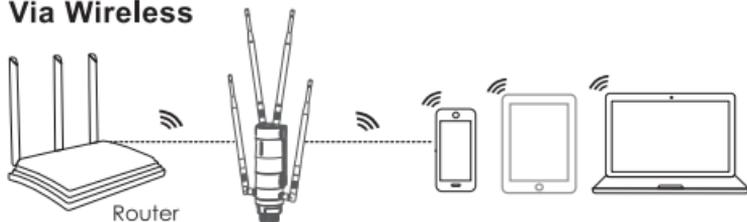4) Push the **"ON/OFF"** button to turn on or off the device.

Attention

1) Ensure that you use a certified CAT5e/CAT6 Ethernet cable with RJ45 connectors
2) Make sure the length of the Ethernet cable from PoE to the device is less than 60 meters (196 ft).
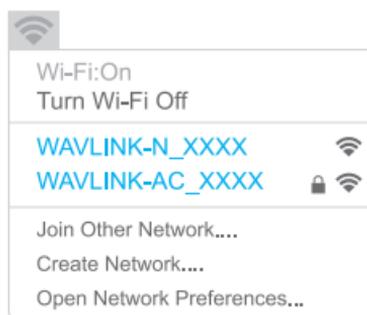
1. Connection

1.1 Via Wireless

Turn on your Wi-Fi, search SSID of this product on your wireless devices (smart phone, tablet computer, laptop, etc.) and connect to it.
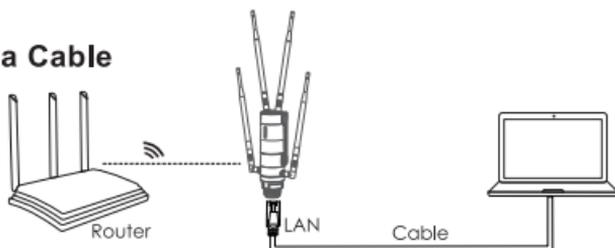

Not connected
Connections are available

Wireless Network Connection

WAVLINK-N_XXXX
WAVLINK-AC_XXXX
☑ Connect automatically   Connect

For Windows users

Wi-Fi:On
Turn Wi-Fi Off

WAVLINK-N_XXXX   📶
WAVLINK-AC_XXXX   🔒📶

Join Other Network....
Create Network....
Open Network Preferences...

For Mac users

1.2 Via Cable

Router   LAN   Cable

Connect Ethernet cable to your PC/laptop and device's LAN Backhaul port, then you can start configuring the device.

2. Technically speaking, the product web UI will guide you to the login page once you have connected to the device successfully in your first time, but if it doesn't, please manually input 192.168.10.1 or wifi.wavlink.com in the address bar of your browser on PC/laptop or phone, the default password is admin.

3. Select your **Country/Region** and **Time Zone.** For your network security, we suggest that you set a new login password.
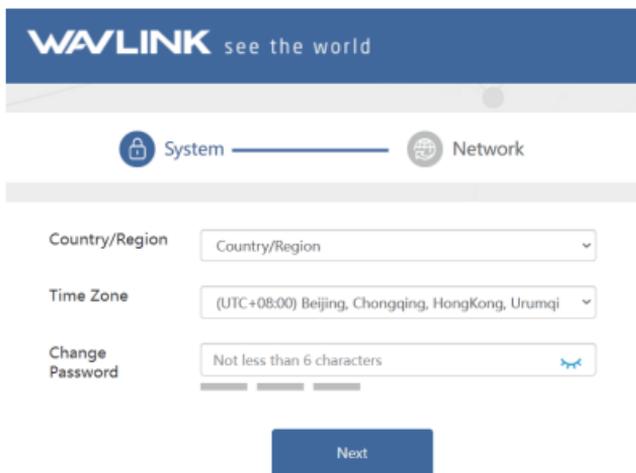
Note: The three colored bars in "**Change Password**" area indicates the strength of the login password.

4. Mode Selection

This product has four modes.

4.1 Repeater Mode

For Repeater mode, we recommend you choose "**WISP**", you can manually enter the WiFi SSID you need to connect or select the WiFi SSID in the list, and the Password needs to be the same as the WiFi password that this product has connected, then click on "**Connect**".

4.2 EasyMesh Agent Mode
If you have a router that supports Easymesh function, then you can build a mesh system with this mode.

Please configure according to the following steps:

1. Log in to 192.168.10.1 or wifi.wavlink.com.
2. In **Mode Selection**, please choose "**EasyMesh Agent Mode**".
3. Click on the "**Start Pairing**" button.
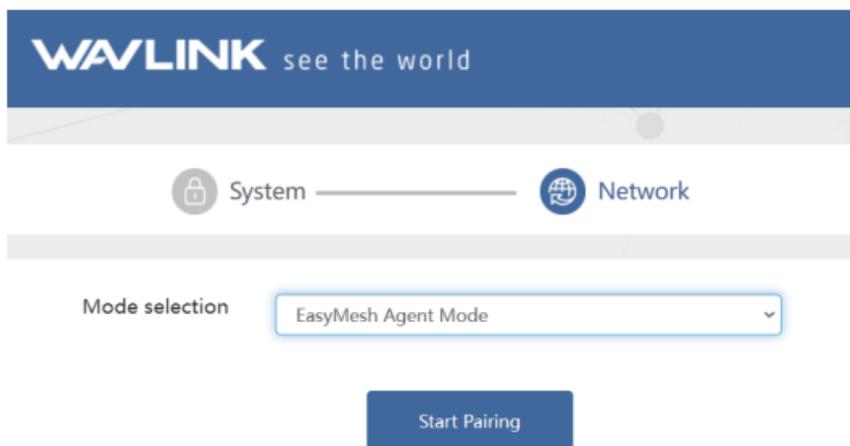
4. Now please start pairing process on the Easymesh controller, if you are not sure how to start, please ask manufacturer for help.

4.3 LAN Bridge (AP mode)

Please connect the LAN DATA IN port of the POE converter or the LAN Backhaul port of the device to the upper router. Then you can change the **SSID** or use the default one, as for the **Encryption Mode**, the default is **WPA2-PSK**, we recommend you to select **WPA3/WPA2-MIX** if your devices support. For your network security, please create a new password according to the rule. Then click on "**Save**" and wait for the setting process to complete.

The **Self Management** is open in default, you can manage this device (web UI) through the assigned IP or domain name.

4.4 Router Mode

Before configuring, please make sure your upper router has connected to the LAN DATA IN port of the PoE converter. If you choose the Router Mode, the system will guide you to select the **WAN Type**. As for the **Encryption Mode**, the default is **WPA2-PSK**, we recommend you to select **WPA3/WPA2-MIX** if your devices support. For you network security, we suggest you create a **Password**.

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🔒 System ——————— 🌐 Network

Mode selection	Router Mode
Wan Type	Obtain DHCP automatically
SSID	WAVLINK-N_050E
Encryption Mode	WPA2-PSK
Password	Between 8~63 characters 👁

Save

Which WAN Type am I supposed to 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**.

Wi-Fi Password Management

When you need to change your Wi-Fi password, please click on "**Wireless**".

Firmware Upgrade

If you need to update firmware, please proceed as the following steps:

Option I

1. Download the latest firmware file from Wavlink website.
2. Extract the firmware from the downloaded file.
3. Log in to wifi.wavlink.com or 192.168.10.1, then choose **"Advanced"** and select **"Firmware Update"**.

4. Click on 🗁 to locate the firmware file.
5. Click on "**Upload**" and choose "**Apply**", and wait for the firmware upgrade process to complete.

Option II

1. Log in to 192.168.10.1 or wifi.wavlink.com, then choose "**Advanced**" and select "**Firmware Update**".
2. Click on "**Check New Version**" to find the latest version.
3. Click on"**Download and Upgrade**", and wait for the firmware upgrade process to complete.

Note: After updating firmware, please Reset The Device And Clear Your Browser Cache.

What is firmware upgrade and why do I need it?
Firmware contains fixed for bugs and new features, please keep the latest firmware to improve the experience of using the product. Please do not use the wrong firmware, otherwise, it will damage your device and void the product warranty.

For more details, please visit our website www.wavlink.com
Our Technical Support: support@wavlink.com

FAQ

Q1. 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 192.168.10.1 or wifi.wavlink.com,
  then set up the following quick start guide.
- Reboot your device and try it again.

**Q2. Why can't I visit the web UI by inputting the IP
address 192.168.10.1 or wifi.wavlink.com?**

- If you can't log in to the IP address or URL in AP Mode,
  please check the IP address arranged by the upstream router,
  then try to restart the process.
- Make sure you have connected to the WiFi of the
  Wavlink device.
- Please try to clean the cache of the browser.
- Try to log in the management page via another browser.
- Try to log in the management page via other devices.

**Q3. What can I do if I forget my administration
management password?**

- Please refer to Q3 to reset the device, the default password
  is admin.

Q4. How do I 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.

Please visit https://www.wavlink.com/en_us/faq.html for more
details.

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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.