

WAVLINK



see the world

AC1200 Dual Band Gigabit Wireless PoE Ceiling AP

Model: QUANTUM-DAC

@WavlinkOfficial

@WavlinkTechSupport

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About This Guide

This guide is a complement to Quick Installation Guide. The Quick Installation Guide provides instructions for quick internet setup, while this guide contains details of each function and demonstrates how to configure them.

When using this guide, please notice that features of the router may vary slightly depending on the model and software version you have, and on your location, language, and internet service provider. All screenshots, images, parameters and descriptions documented in this guide are used for demonstration only.

Conventions

In this guide the following conventions are used :

Convention	Description
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	The content and text that needs to be emphasized on the web page is the theme color #1D428A , including menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, More > Network > Mode Selection means the Mode Selection function page is under the Network menu that is located in the More tab.
Note:	Do not ignore this type of comment, it is to remind you to better use the device, to avoid the operation of the error that will cause the function to be invalid.
Tips:	Indicates important information that helps you make better use of your device.

More Info

The latest software, management app and utility are available from the Download Center at <https://docs.wavlink.xyz/Firmware/> .

A quick installation guide can be found in this guide.

Specifications can be found on the product page at <https://docs.wavlink.xyz/>.

If you encounter any issues, please don't hesitate to email

contact@wavlink.com/techsupport@wavlink.com/postsales@wavlink.com to provide feedbacks or contact online customer service, thank you !

Speed/Coverage Disclaimer

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.

Information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

Safety Instructions

Always read the safety instructions carefully.

Keep this Quick Start Guide for future reference.

Keep this equipment away from humidity.

If any of the following situation arises, get the equipment checked by a service technician:

☐ The equipment has been exposed to moisture.

☐ The equipment has been dropped and damaged.

☐ The equipment has an obvious sign of breakage.

☐ The equipment has not been working well or you cannot get it work according to Quick start Guide.

Copyright Statement

No part of this publication may be reproduced in any form by any means without the prior written permission.

Other trademarks or brand names mentioned herein are trademarks or registered trademarks of their respective companies.

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.



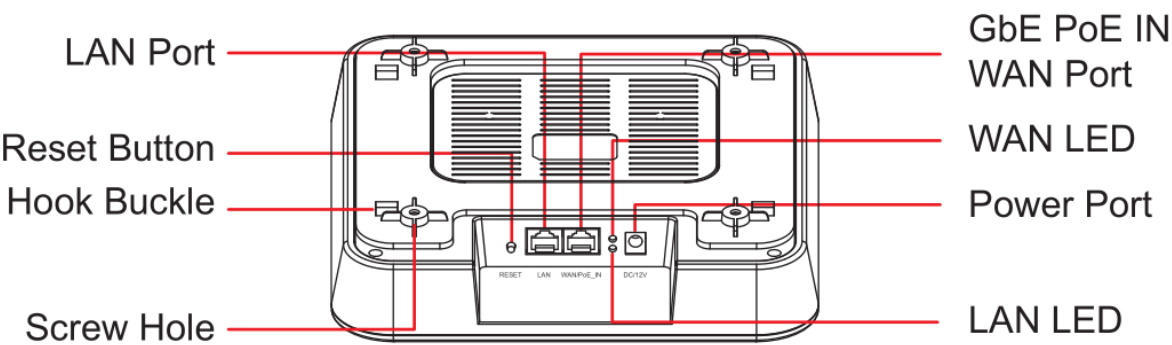
Chapter 1 Basic Product Info

This chapter introduces what the router can do and shows its appearance.

It contains the following sections:

- [Overview](#)
- [LED Indicator](#)
- [Basic Info](#)

Overview



Reset Button: Press and hold reset button for **6** seconds to reset the device.

LED Indicator

Mode	LED Status	Description
Router Mode	Slow Blinking	No Internet or the device is in pair.
	Solid On	The device has connected to the Internet.
Repeater Mode	Slow Blinking	The device has connected to the upstream router but no access to the Internet.
	Solid On	The device has connected to the upstream router and connected the Internet
	Quick Blinking	The device has not connected to the upstream router.
AP Mode	Solid On	The device has connected / disconnected to the Internet.

Basic Info

Default IP: **192.168.30.1**

Login: **<http://waplogin.link>**

2.4G SSID: **WAVLINK-AC_XXXX**

5G SSID: **WAVLINK-AC_5G_XXXX**

Official Website: **www.wavlink.com**

Technical Support: **support@wavlink.com**

Chapter 2 Hardware Installation and Working Modes

This chapter introduces how to install this router and its working modes.

It contains the following sections :

- [Hardware Installation](#)
- [Working Mode](#)

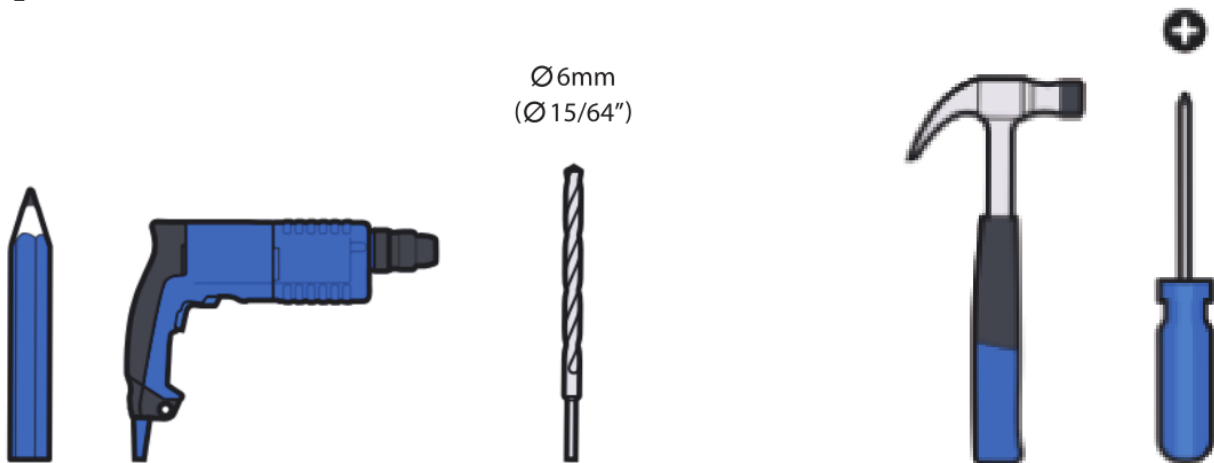
Hardware Installation

This ceiling-mounted router can be installed on the ceiling and the wall. Please install this router as follows:

Note: This device requires heat dissipation through the plastic bracket during use, please be careful not to touch the plastic bracket in the heat dissipation.

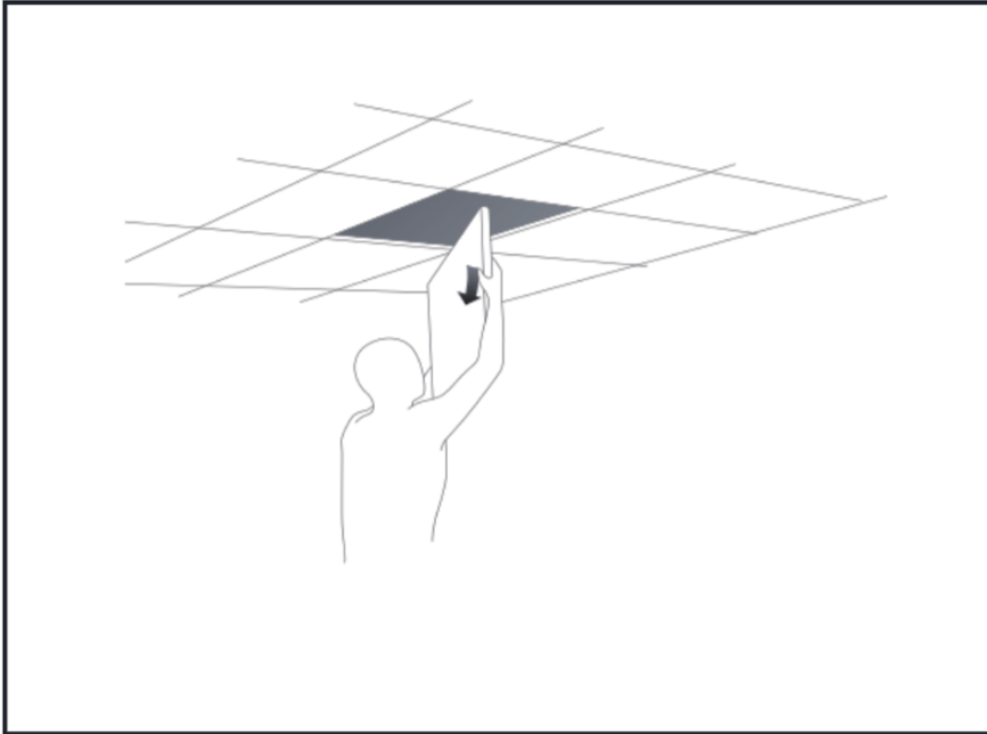
Mounted on Ceiling

1



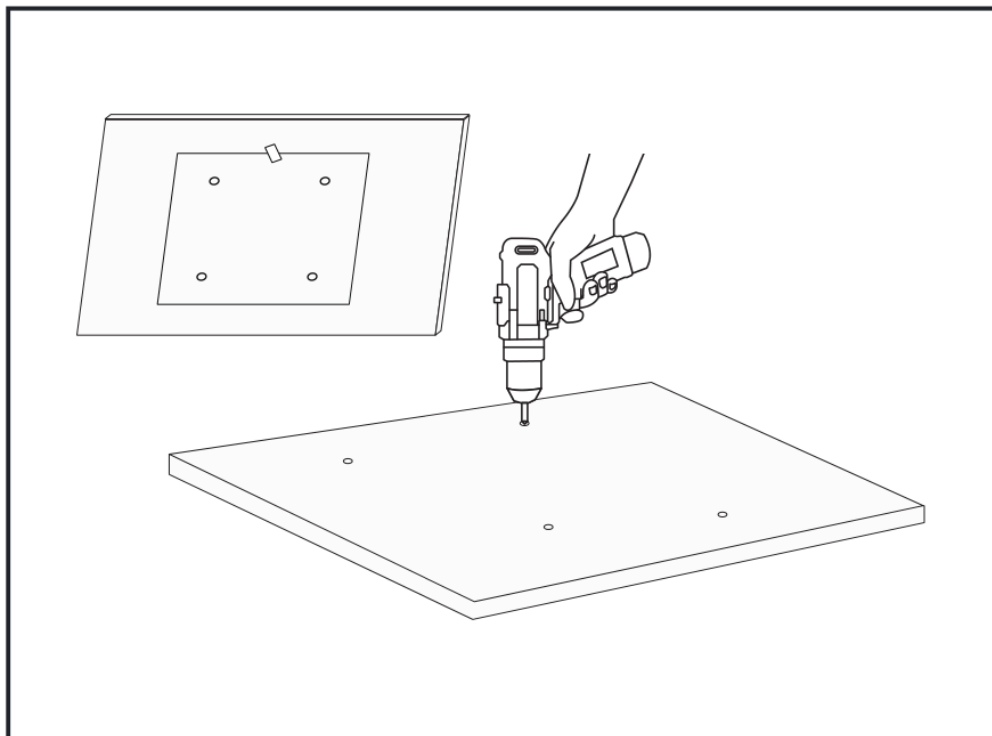
These tools are not included.

2



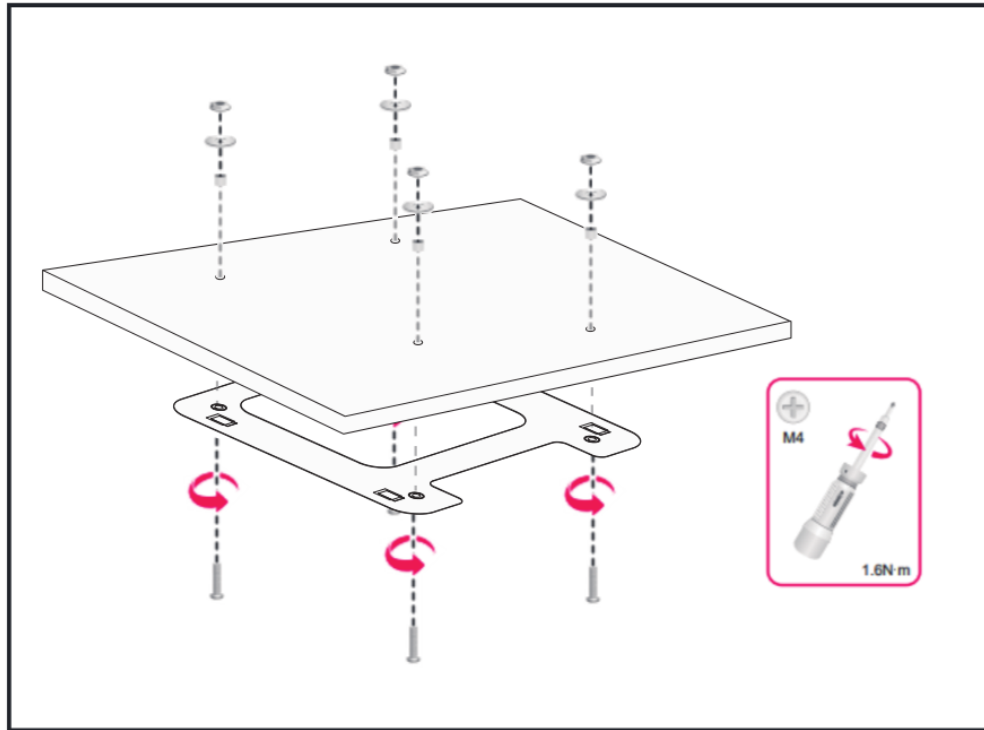
Remove the ceiling tile, cut a hole for the network cable.

3



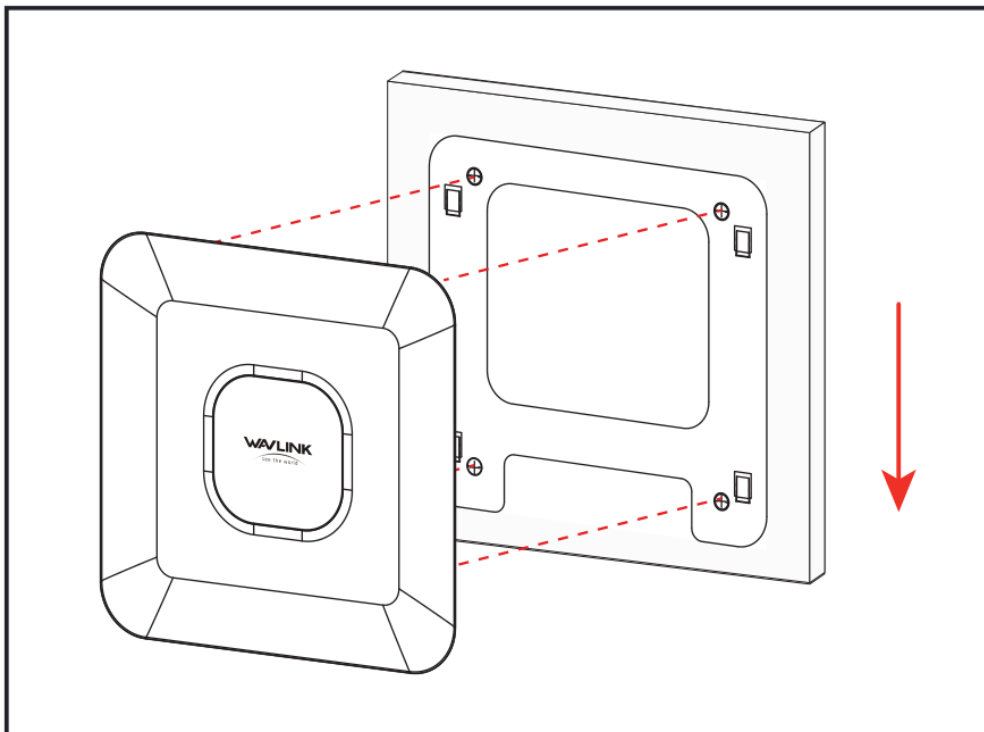
Stick the perforated positioning card in the center of the ceiling. Remove the ceiling tile and mark installation holes, Drill four holes in the ceiling tile. Put screw fittings into holes.

4



Use the pan-head screws to attach the mounting bracket to the ceiling tile.

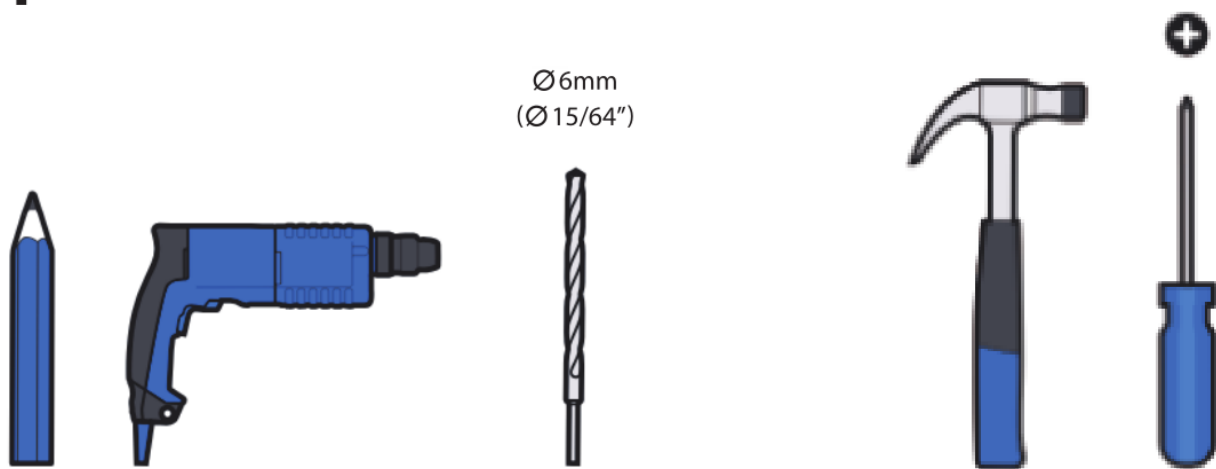
5



Position the four pegs at the AP rear into the hook buckle in the mounting bracket and then slide the AP down until it sits securely in the keyhole slots.

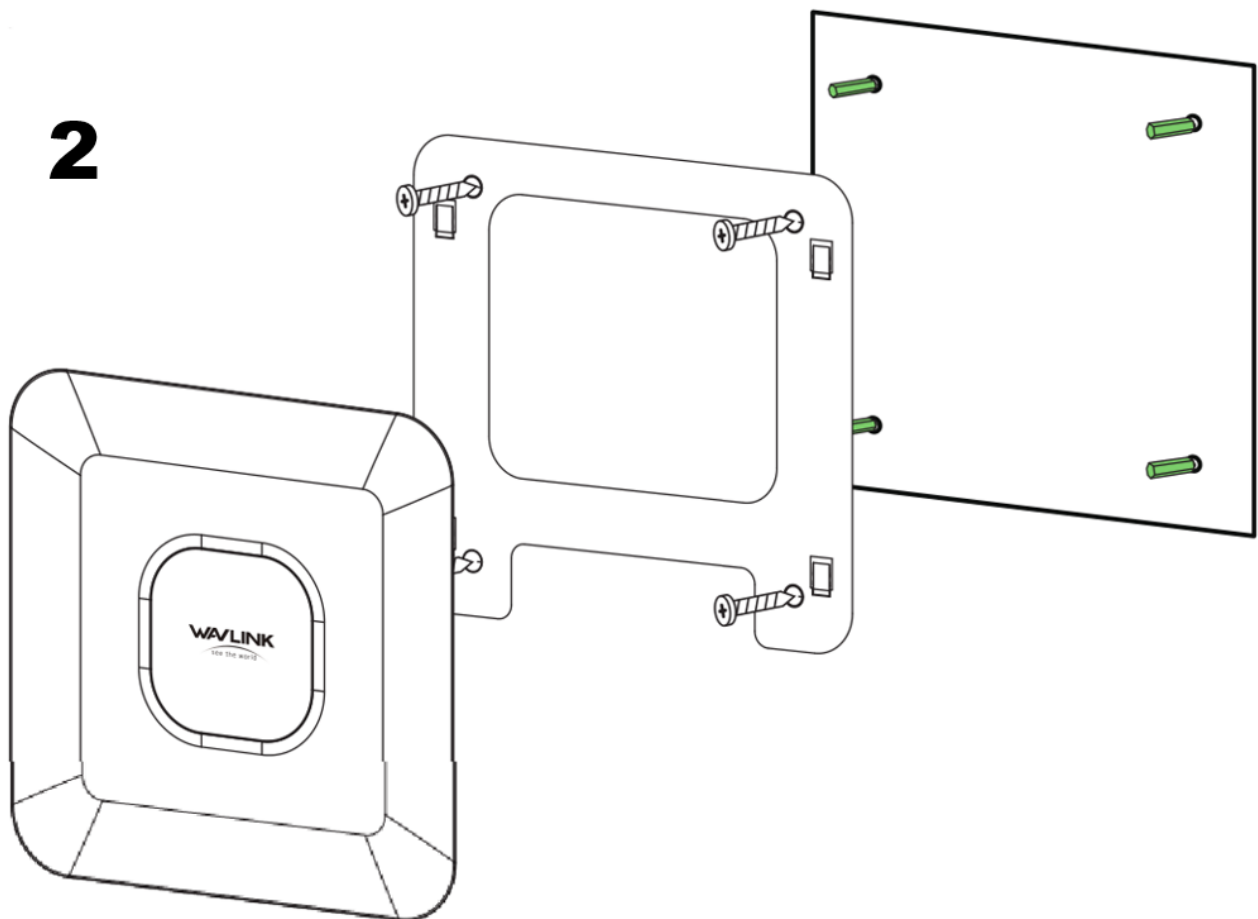
Mounted on Wall

1

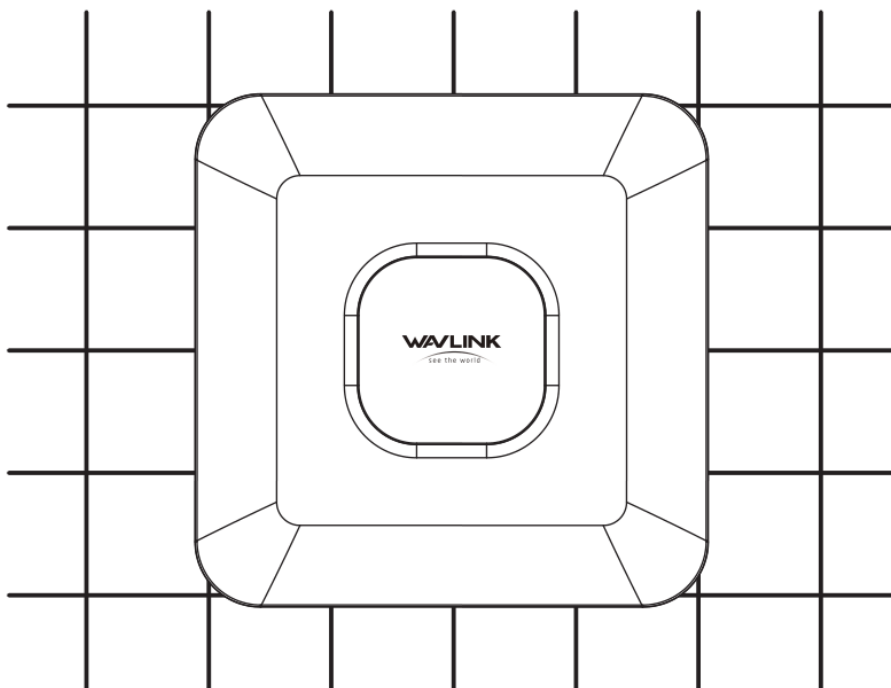


These tools are not included.

2

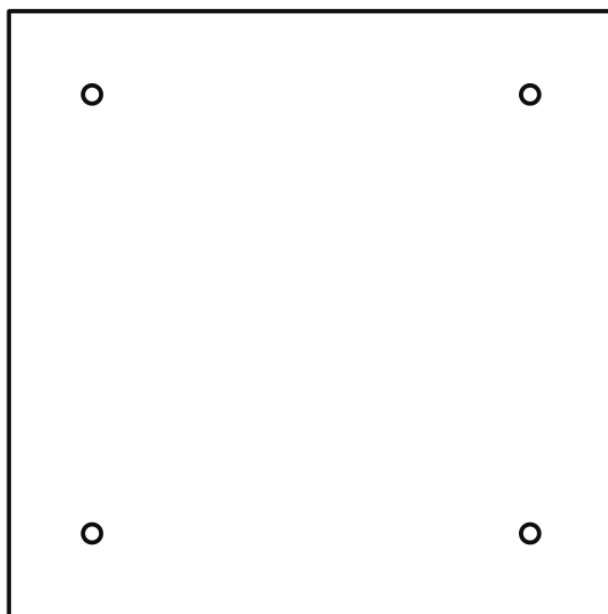


3

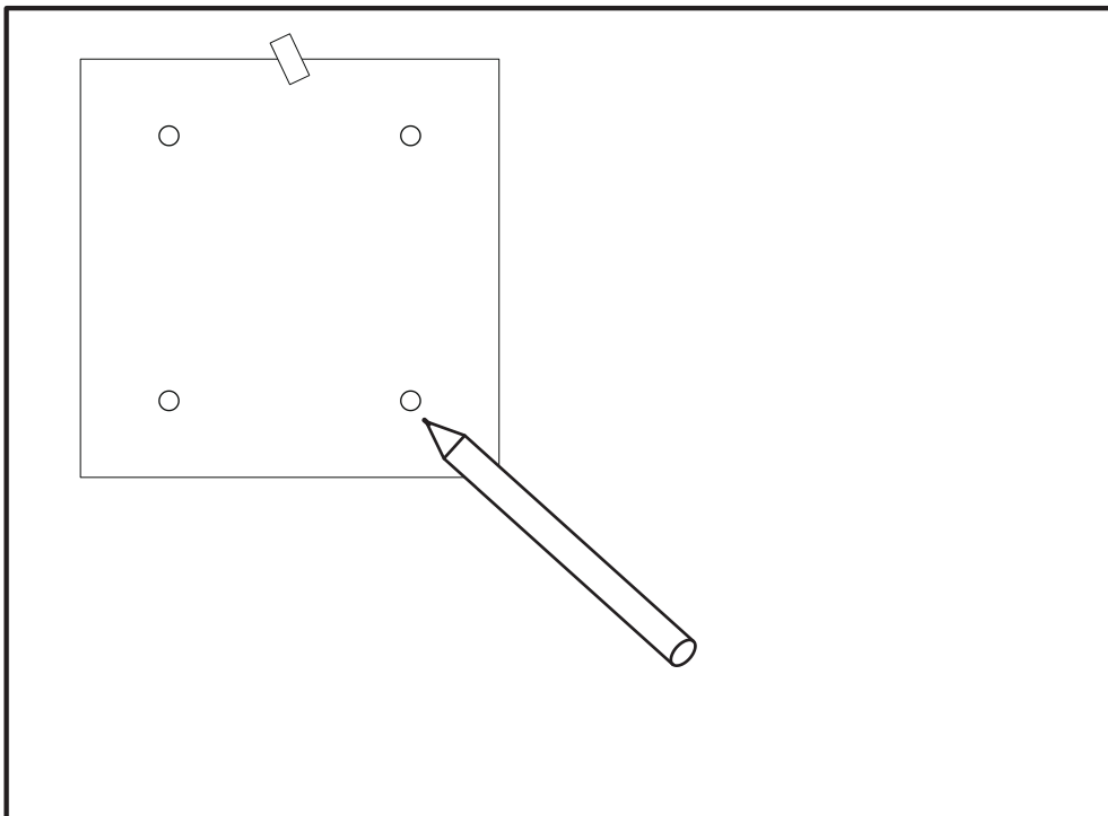


4

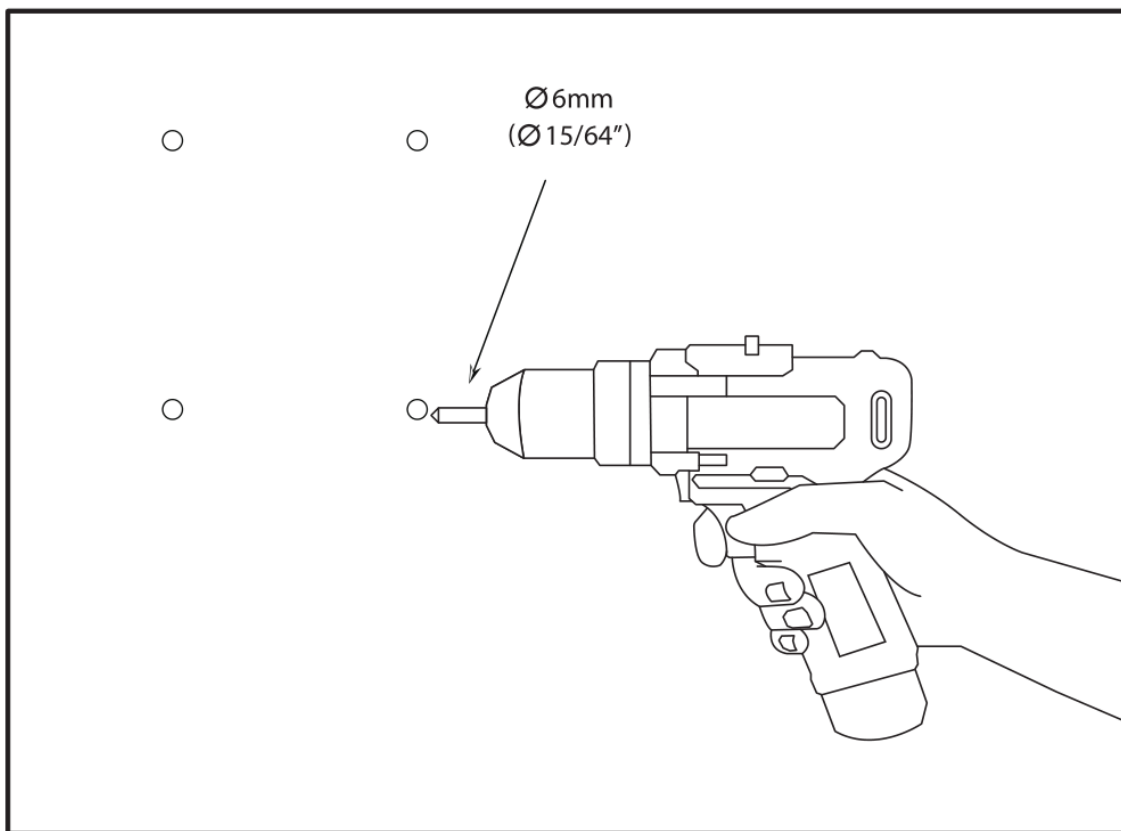
Perforated Positioning Card



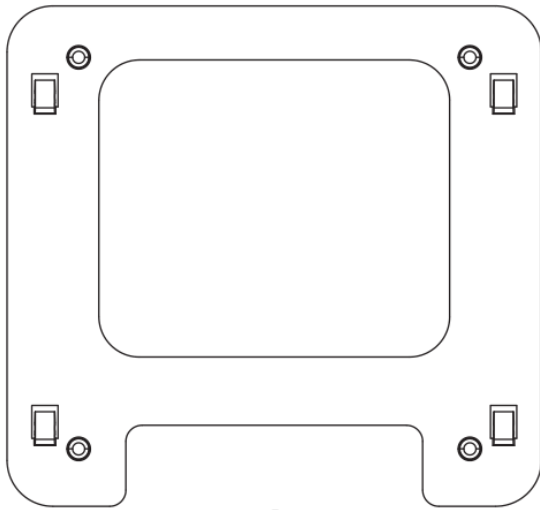
5



6



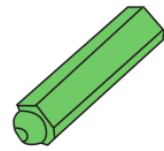
7



1x

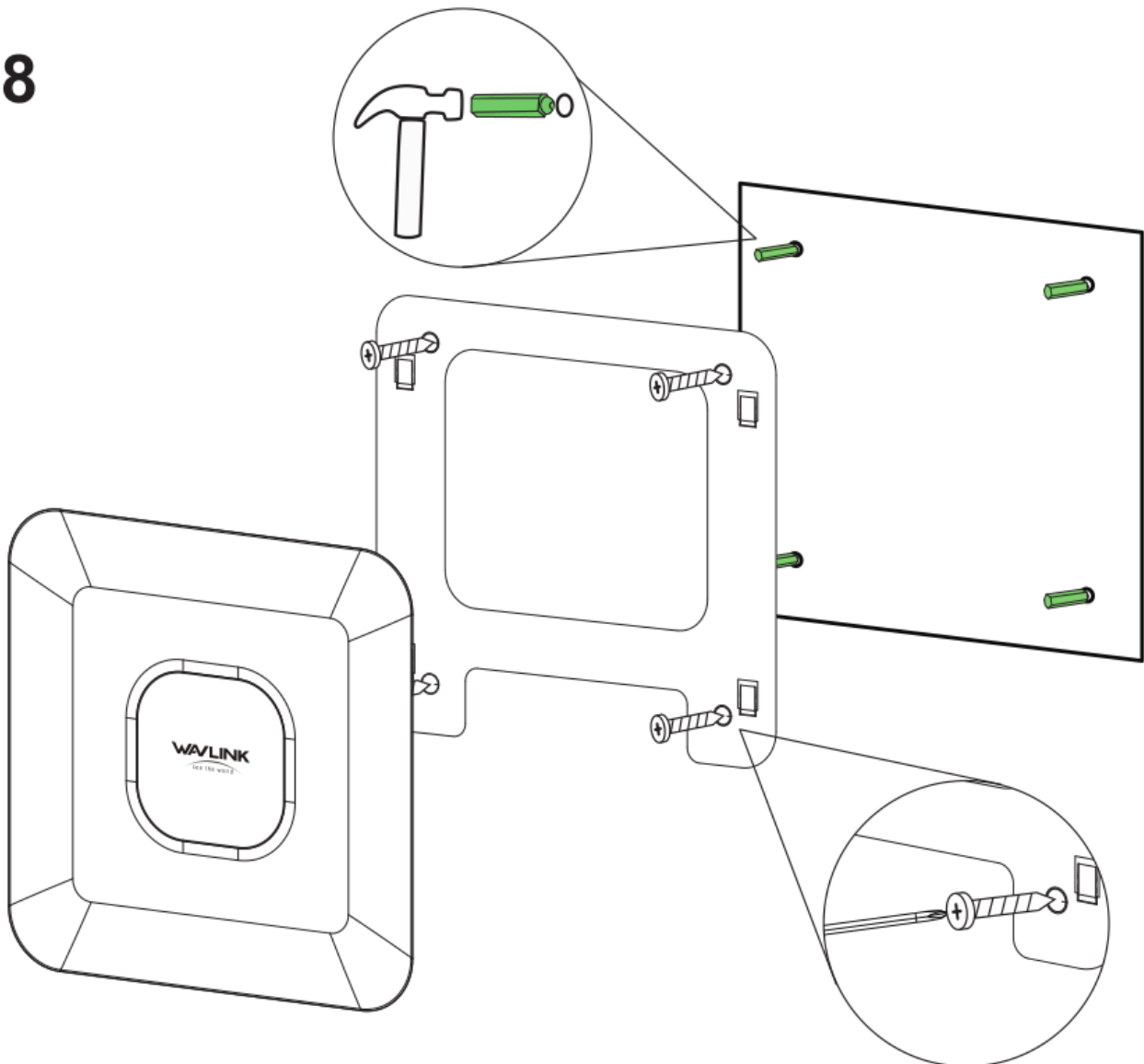


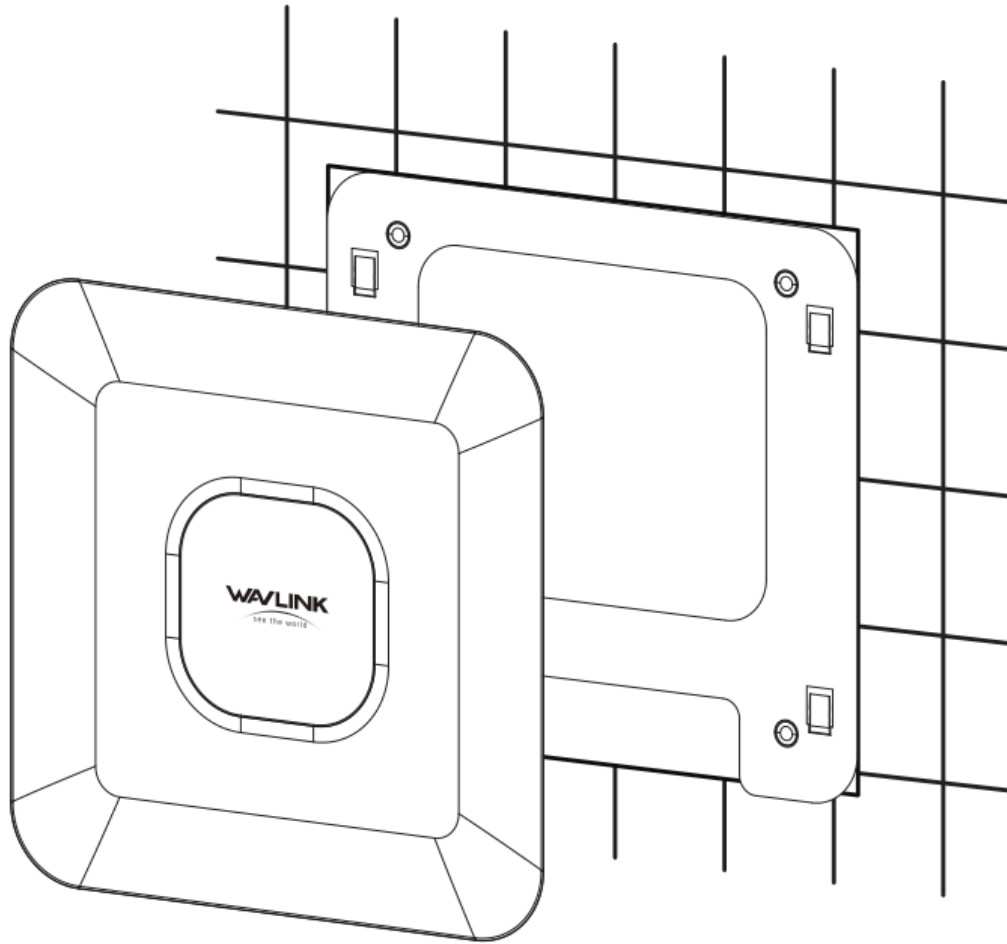
4x



4x

8



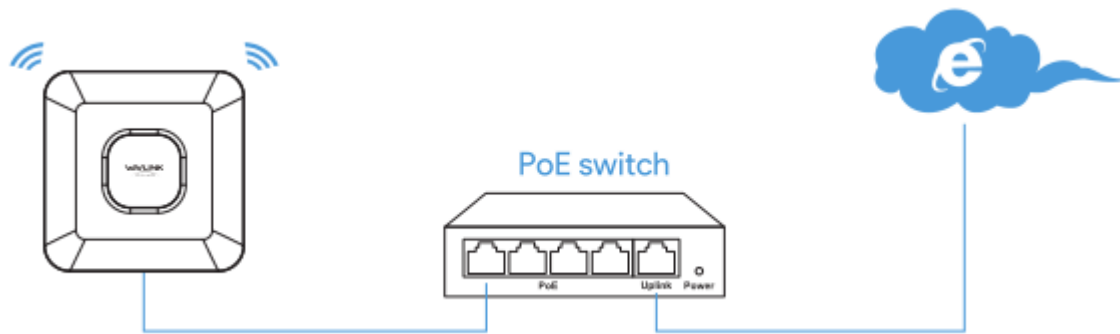


Working Mode

This AP supports four work modes: FAT mode, FIT mode, Router mode, and Repeater Mode. Here is a brief introduction to the four work modes:

Case 1: FAT AP

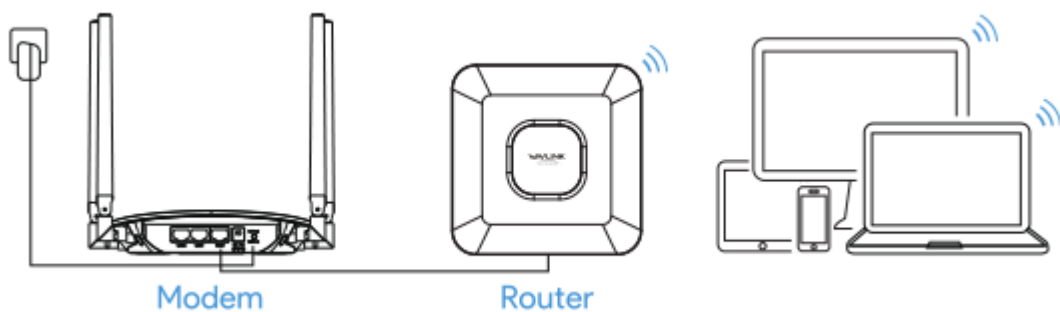
FAT mode refers to that the AP can be independently configured and has a separate management interface, just like a regular wireless AP.



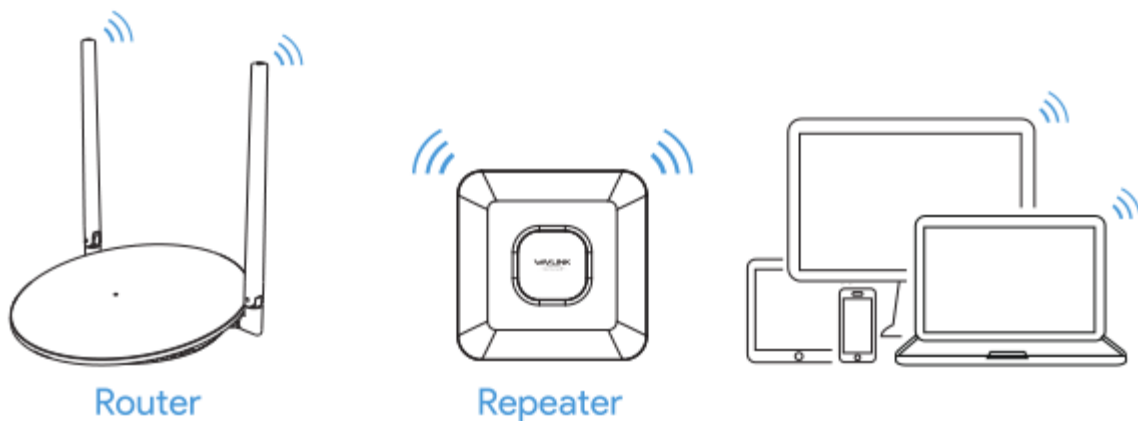
FAT mode is primarily used in small networks that do not use an AC Controller.

Here are several typical modes for FAT AP

AP/Router Mode



Repeater Mode

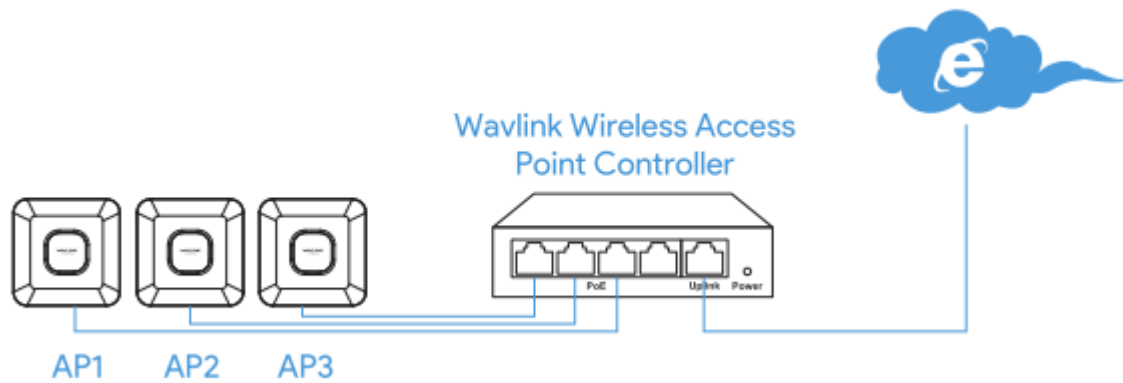


Case 2: FIT AP

FIT mode refers to that the AP is centrally controlled and managed by the WAVLINK AC (Wireless Access Point Controller).

If it works as a Fit AP, which is typically responsible only for data transmission and basic radio frequency management. All network decisions, configurations, security, and traffic control operations are handled by the WAVLINK AC Controller.

Fit APs are typically used in an AC+AP network architecture and can only be utilized with the WAVLINK wireless access point controller, as shown in the diagram below.



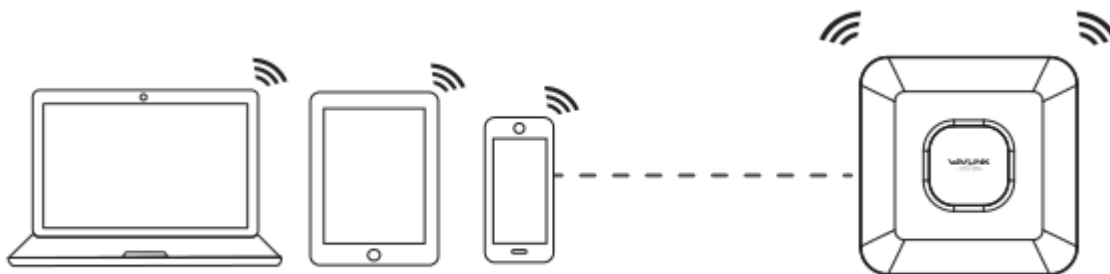
FIT mode is ideal for larger networks with broader coverage, large number of users, and a need for efficient network performance and enhanced security.

Chapter 3 Network Configuration

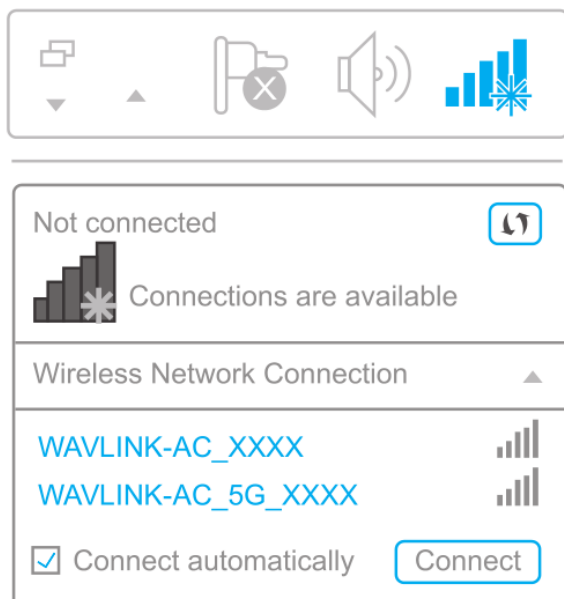
Network Configuration

1.Connect to the PC

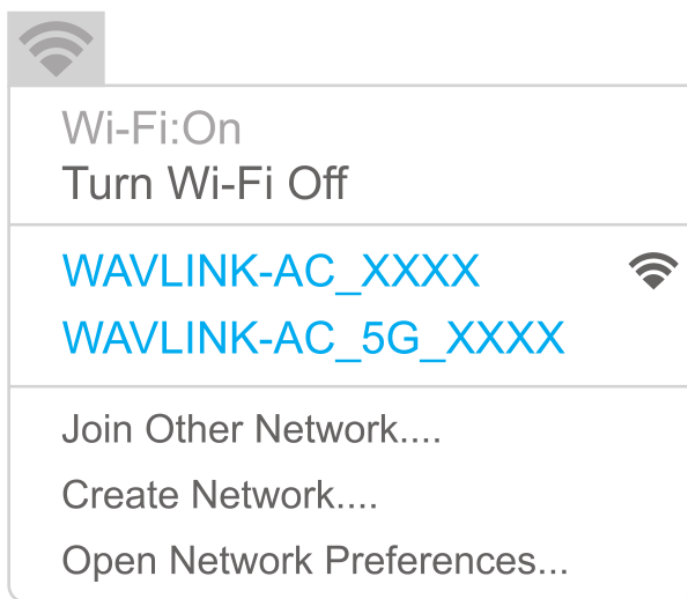
1.1 Via Wireless



- ① Disconnect the Ethernet cable from your computer (if you have one).
- ② Turn on your WiFi, find the SSID of this product on your wireless devices (smartphone, tablet computer, laptop, et.) and place a connection.

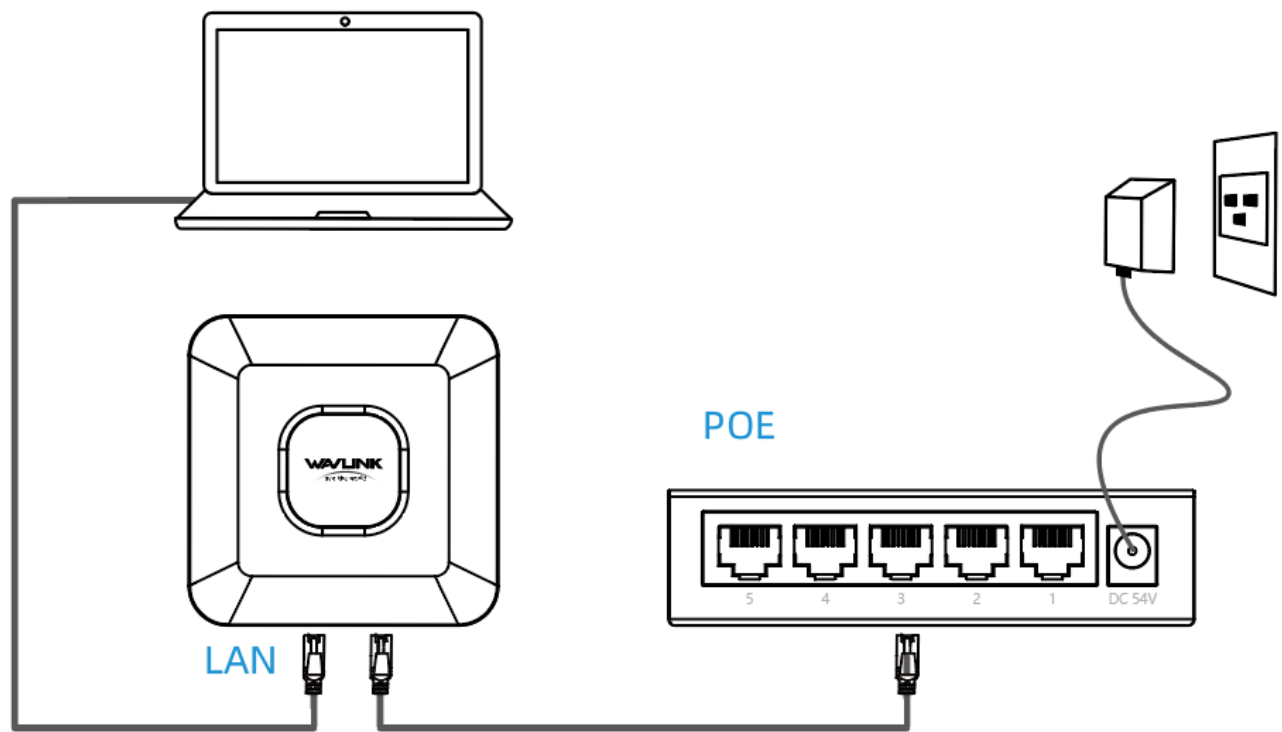


For Windows users



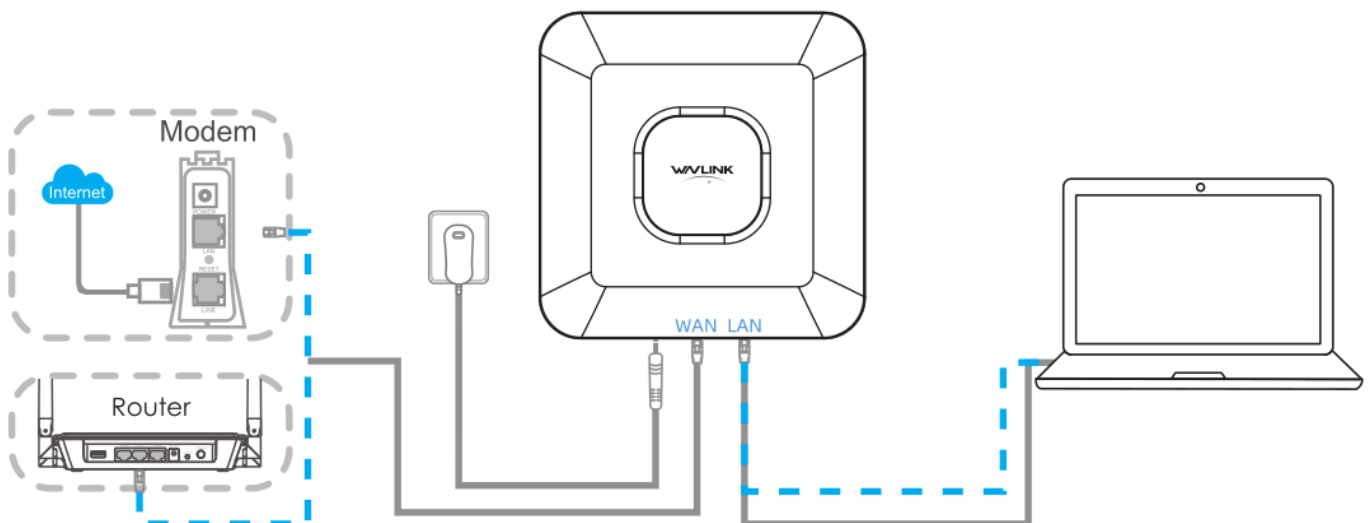
For Mac users

1.2 Via Cable

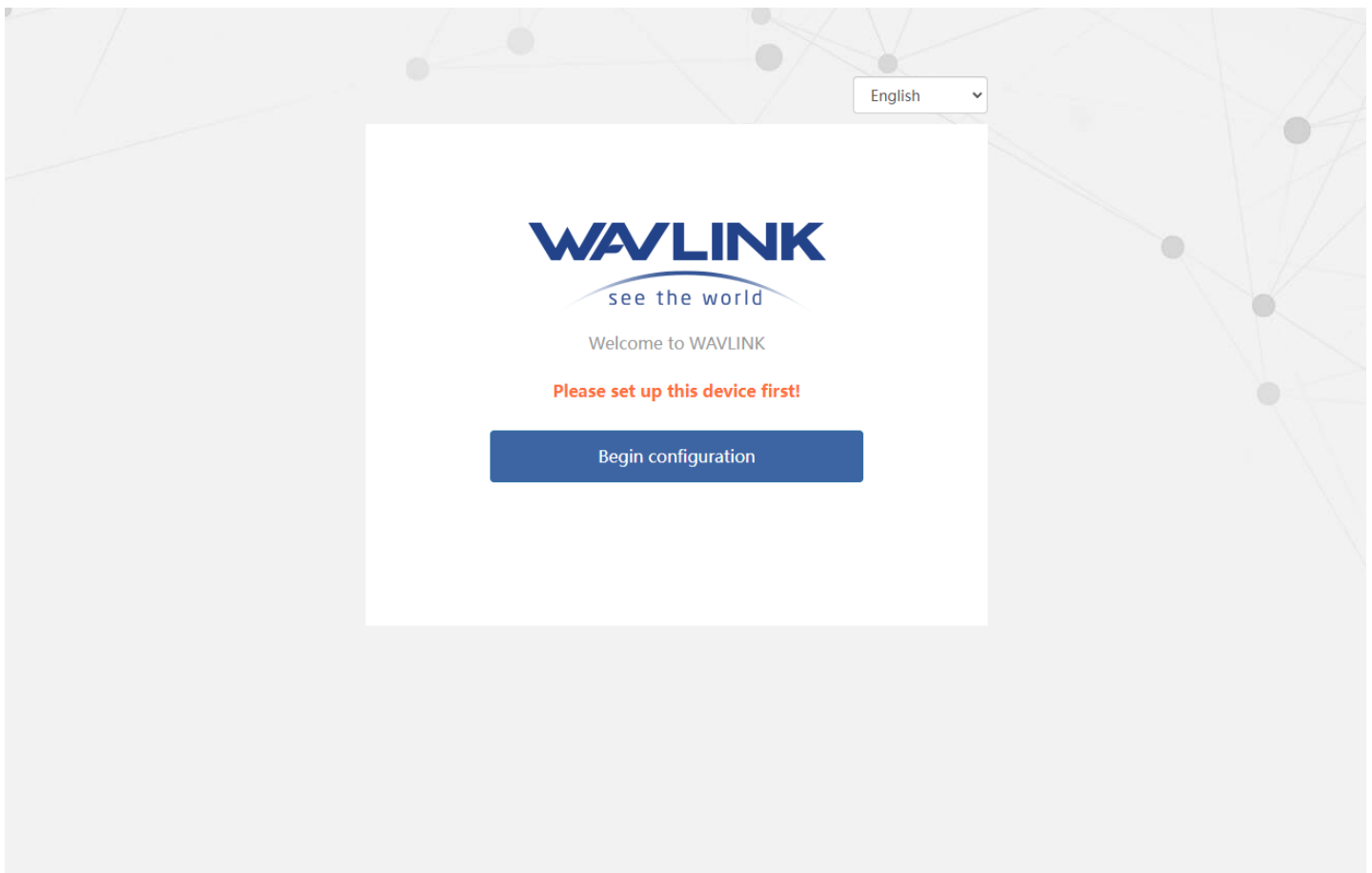


① First, connect the PoE switch to a power supply. Next, connect the PoE switch to the router's WAN port by using an Ethernet cable. Finally, connect the router to your laptop with a network cable. Then you can start the configuration of the device.

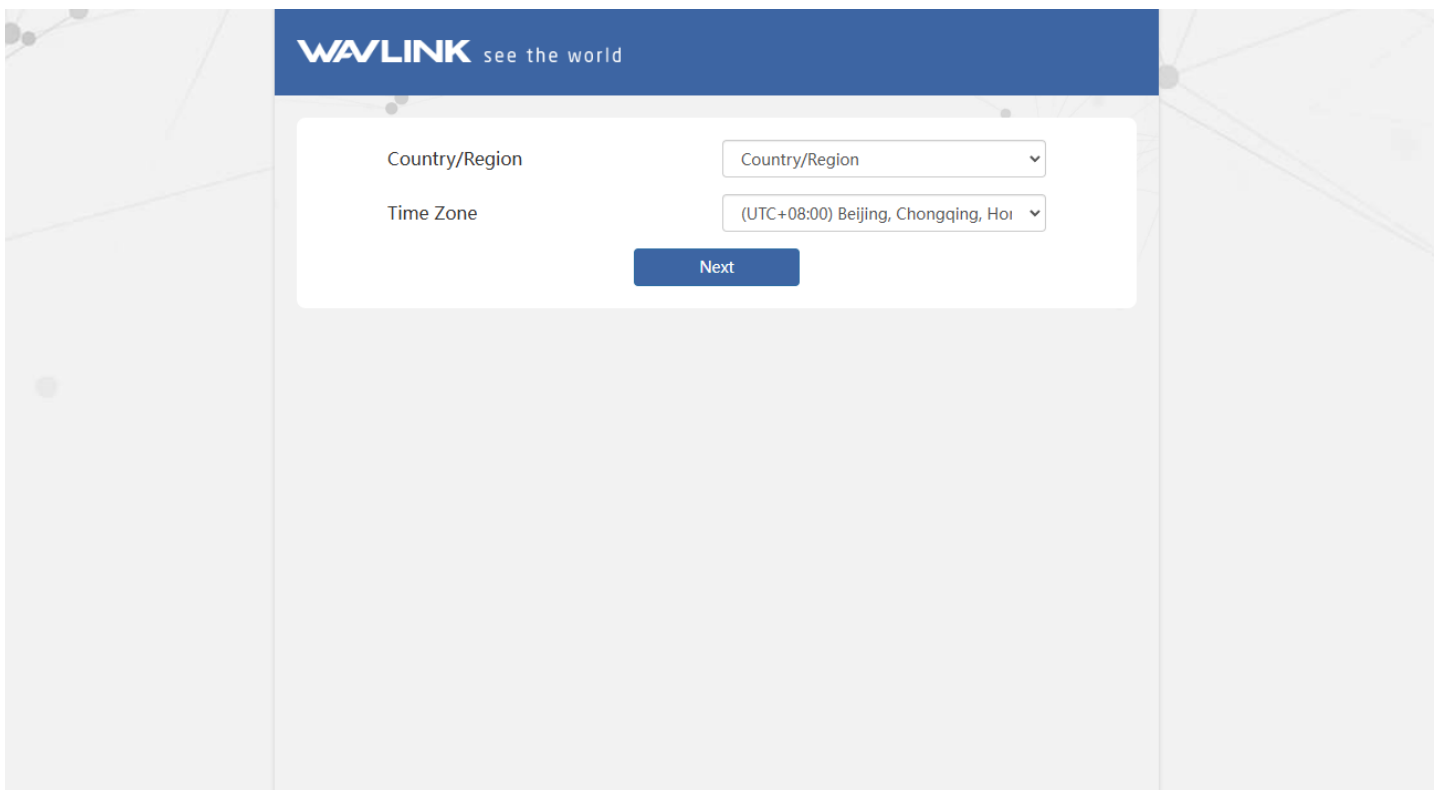
② If you are using this device's AP/Router function, before mode configuration (Step **4.1** and **4.3**), please connect this device's WAN port with the upper router/modem's LAN port. Then, your laptop/PC/phone can connect network wired or wirelessly.



2. Normally 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 **192.168.30.1** or **http://waplogin.link** in the address bar of your browser on PC/laptop or phone.



3. Select your **Country/Region** and **Time Zone**.



4. Mode Selection

This product has 4 modes: FAT AP mode (AP/Router/Repeater mode) and FIT AP mode. Please be noted that there is no need for network configuration in FIT AP mode.

4.1 AP Mode

- 1.The system selects AP(FAT AP) mode by default, so there is no need to select the AP mode manually. Click on **"Next"**.
- 2.Connect the WAN/LAN port of this product with the host router's LAN port via Ethernet cable. Then you can change the SSID or use the default one, the encryption mode recommend is **WPA2-PSK**. 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 screenshot shows the Wavlink web interface for configuring AP Mode. The header features the Wavlink logo and the tagline "see the world". The main content area is titled "AP Mode" and includes a dropdown menu set to "AP Mode". Below this, a descriptive text states: "Expand the existing network wired, make sure that the device WAN port is connected to the network through the network cable." The "Smart DHCP Services" section has a toggle switch turned on. The "SSID" field contains the default value "WAVLINK-AC_0D64". The "Encryption Method" dropdown is set to "WPA2-PSK(Recommend)". The "Password" field has a placeholder "Between 8~63 characters" and a strength indicator. At the bottom, there is a checkbox labeled "Set administrator password" which is checked and accompanied by the text "Same as the wireless password". "Back" and "Save" buttons are located at the bottom of the form.

4.2 Repeater Mode

Click **"Switch Mode"** and select **Repeater Mode**.

- 1.After scanning, please make sure the Wi-Fi you want to select is listed, and click **"Next"**, if it isn't, please click **"Rescan"**.

Repeater Mode













Repeater Mode

Any Wi-Fi signal network can be expanded through wireless.

☒ Select Wi-Fi☐ Manual Input

Please select the wireless signal to be relayed

5G/2.4G

	WAVLINK-Mesh_2D16		<input type="radio"/>
	SE_BFB0_5G		<input type="radio"/>
	tpwifi-z-555		<input type="radio"/>
	WAVLINK_03DE_5G_2		<input type="radio"/>
	zh_h_debug_5G		<input type="radio"/>
	WAVLINK_03DE_5G_1		<input type="radio"/>
	Kogan_Mesh WIFI_0566_5G		<input type="radio"/>

Back

Rescan

Next

2.1 Set the WiFi name and password of this device, then click on **Next**.

Please enter the Wi-Fi password to connect

Connect to

WAVLINK

Superior Password

Between 8~63 characters



Back

Next

Connection type: Bridge

Wireless network information of this device

☒ Set a new SSID and password☐ Same as the parent router

2.4G Wi-Fi Name

WAVLINK_EXT2.4G

5G Wi-Fi Name

WAVLINK_EXT5G

Wi-Fi password

Between 8~63 characters



Set administrator password

☒ Same as the wireless password

Back

Save

Connection type: WISP

WAVLINK see the world

WISP

Wireless network information of this device

☒Set a new SSID and password

☐Same as the parent router

2.4G Wi-Fi Name

WAVLINK_EXT2.4G

5G Wi-Fi Name

WAVLINK_EXT5G

Wi-Fi password

Between 8~63 characters

Set administrator password

☒Same as the wireless password

Back

Save

4.3 Router Mode

- 1.Click on "**Switch mode**", then choose "**Router Mode**"
- 2.Before configuring. please make sure your upper router has connected to the WAN/LAN port of this product. The system will guide you to select the **WAN Type**. As for the **Encryption Mode**, we recommend you to select **WPA2-PSK**. For you network security, we suggest you **create a Password**.

Router Mode

Router Mode

Converts a network from a network provider's wired network to a Wi-Fi signal for wireless and wired networking.

Wan Type

DHCP

SSID

WAVLINK-AC_0D64

Encryption Method

WPA2-PSK(Recommend)

Password

Between 8~63 characters

Set administrator password

☒ Same as the wireless password

Back

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**.

Chapter 4 FAQ

This chapter introduces firmware upgrade, FAQ, and aftersale service.

It contains the following sections :

- [Firmware Update](#)
- [FAQ](#)
- [GNU General Public License Notice](#)
- [Aftersale Service](#)


Firmware Update

Firmware Upgrade can fix bugs of the router. However, we don't recommend you to upgrade the firmware, if the router works properly.

1.Launch a browser from your laptop/PC or smart phone and enter **<http://waplogin.link>** or **192.168.30.1** in the address field.

< Firmware Update

Current Version M02X3_V240713

Upgrade File Choose File 

Upload

Latest Version No New Version

Check New Version

2.Download the latest firmware file from our website **<http://www.wavlink.com>** - **Support - Firmware**.

3.Click **Advanced - Firmware Update**, choose File and upload it, then check new version.

FAQ

Q1. Why doesn't the login page appear after entering <http://waplogin.link>?

- Please make sure your computer is set to obtain an IP address automatically.
- Verify if <http://waplogin.link> is correctly entered in the web browser.
- Alternatively, enter <http://192.168.30.1> in the web browser.
- Use another web browser and try it again.
- Reboot your router and try it again.

Q2. What can I do if I cannot access the Internet?

1. Power off your modem for about 5 minutes, then power it on and check the internet. If your modem has more than one Ethernet port, keep other ports unconnected.
2. Test by connecting a computer directly to the modem. If issues persist, contact your ISP.
3. Check the router's web management page:
 - Verify internet IP validity on the Network Map.
 - If valid, set DNS1 to **8.8.8.8** and DNS2 to **8.8.4.4** under More > Network > Internet > Custom DNS.
 - If invalid, check hardware or contact ISP.
4. For cable modems, clone the MAC address in More > Network > Internet > MAC Clone > Custom MAC, then reboot modem and router.

Q3. How can I restore the router to its factory default settings?

- While the router is powered on, press and hold the **Reset button** of the back for more than **6** seconds.

Q4. What can I do if I forget my Administration Management password?

- Refer to **FAQ > Q3** to reset the router.

Q5. What can I do if I forget my wireless network password?

- Log in the router's web management page at <http://waplogin.link> and go to Wireless, you can find your Wi-Fi password here.

Q6. How to deploy the router to get the best Wi-Fi signal?

- Keep the router in the most central spot in your home and away from anything that might block its signal.

GNU General Public License Notice

This product includes software codes developed by the third parties. These software codes are subject to either the GNU General Public License (GPL), Version 2, June 1991 or the GNU Lesser General Public License (LGPL), Version 2.1, February 1999. You can copy, distribute, and/or modify in accordance with the terms and conditions of GPL or LGPL.

The source code should be complete, if you want us to provide any additional source code files under GNU General Public License (GPL), please contact us in these matters. We are committed to meeting the requirements of the GNU General Public License (GPL). You are welcome to contact our local office to get the corresponding software and licenses. Please inform us of your contact details (full address) and the product code. We will send you a software package with the software and license for free.

The respective programs are distributed WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Please refer to the GNU General Public License website for further information.

<http://www.gnu.org/licenses/old-licenses/lgpl-2.0.html>

<http://www.gnu.org/licenses/gpl/html>

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.

Aftersale Service

Need help?

We're here for you!



Online support: wavlink.com

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



support@wavlink.com

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



+1 8889730883 (US Local)

Mon-Fri 9:00 am - 10:00 pm (UTC-5)

www.wavlink.com



**Thank you for purchasing
WAVLINK product!**

Chapter 5

Safety and Emission Statement

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

NOTE:

(1)The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

(2)To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

Declaration of Conformity

Hereby, Winstars Technology Limited, declares that the radio equipment type QUANTUM DAC is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following Internet address:https://www.wavlink.com/en_us/ce.html

FCC Statement

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.

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules.

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 & your body.

NOTE:

(1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

(2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.