

WAVLINK



see the world

User Manual

Full Gigabit PoE Access Controller

Model: WL-WN701AE

@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.

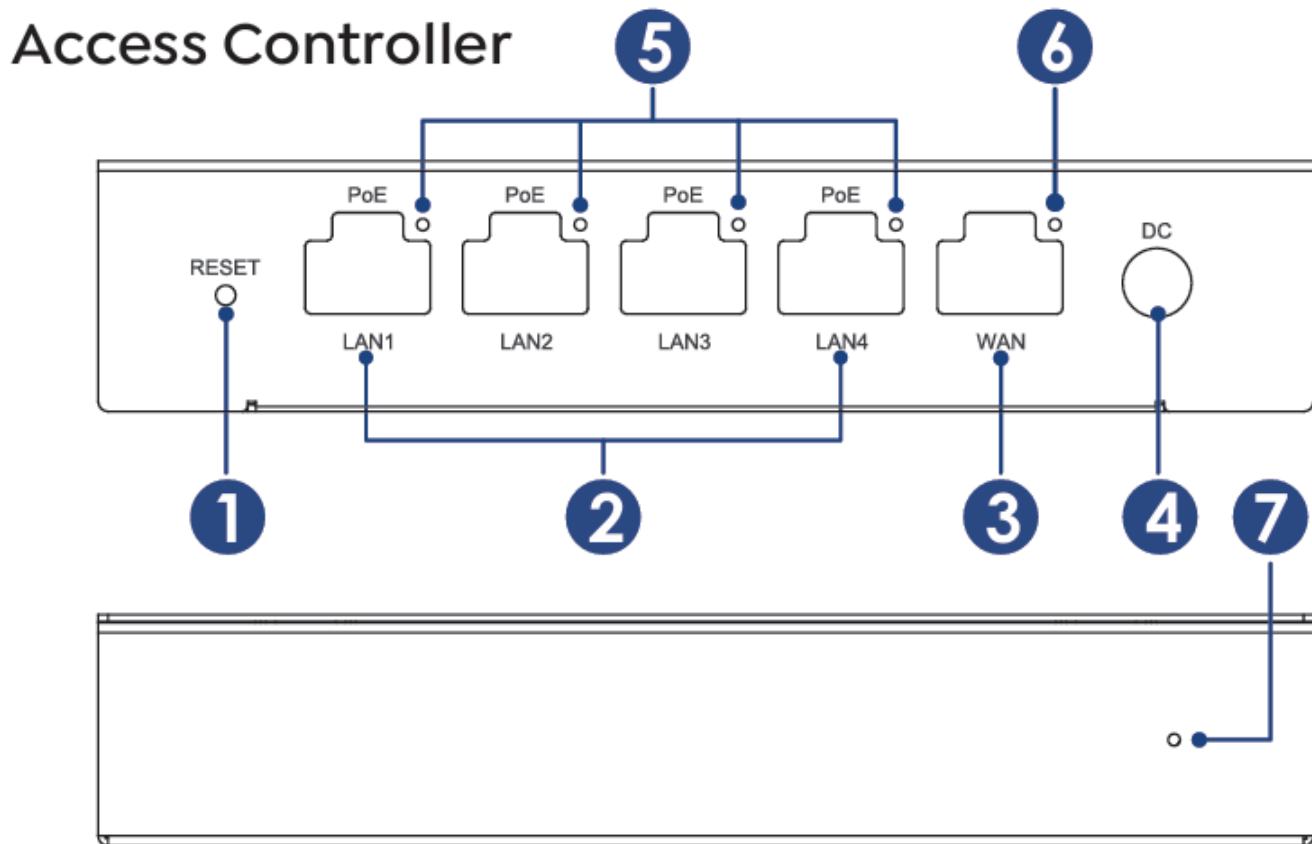


Chapter 1 Overview

This chapter contains the following sections :

- [Overview](#)
- [Basic Info](#)
- [LED Indicator](#)
- [Specification](#)
- [In The Box](#)

Overview



- ① Reset Button
- ② LAN Port (PoE)
- ③ WAN Port
- ④ Power Port
- ⑤ LAN LED

⑥ WAN LED

⑦ Status LED

Reset Button

When powered on, the device completes startup. Press and hold the reset button for **6s** to restore factory settings.

Basic Info

Login: <http://wavlogin.link>

Default IP: 192.168.10.1

Official Website: www.wavlink.com

Technical Support: support@wavlink.com

LED Indicator

LED	Status	Description
LAN/WAN LED	ON/Blinking	Data transmitting
LAN/WAN LED	OFF	Ethernet cable not connected
Status LED	ON	Internet connected
Status LED	Blinking	No Internet
Status LED	OFF	No power

Specification

- 5 Gigabit Ethernet ports, 1 * WAN+ 4 * LAN.
- LAN ports all support active PoE power supply, compliant with IEEE 802.3at/af standards.
- Combines PoE power, AC controller and routing technology.

- Auto-identification and centralized AP management.
- Improvement of WLAN coverage.
- Supports AP customized group management.
- Supports Wi-Fi configuration for guest-only networks.
- Supports LED indicators to display the device status.

In the Box

- 1 × Full Gigabit PoE Access Controller
- 1 × RJ45 Ethernet Cable
- 1 × Power Adapter
- 1 × Quick Start Guide

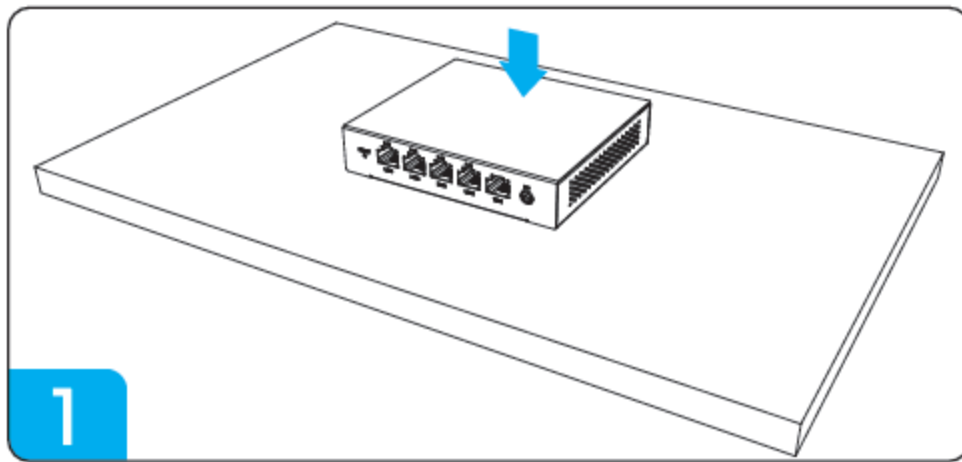
Chapter 2 How to Use

This chapter contains the following sections :

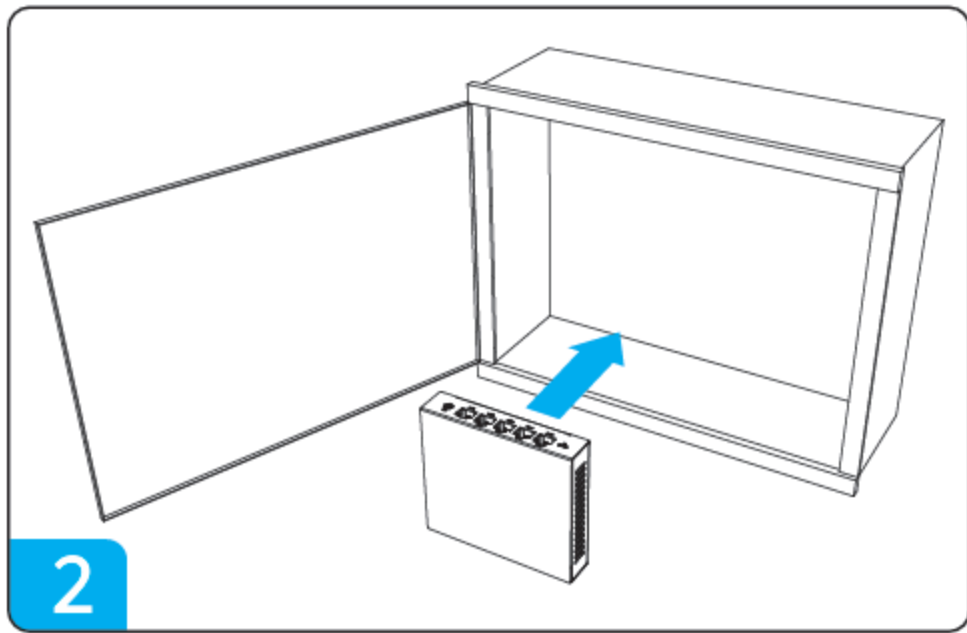
- [Installation](#)
- [Connection](#)
- [Configuration](#)

Installation

1. Access Controller can be placed on a smooth tabletop. This installation method is relatively simple to operate.

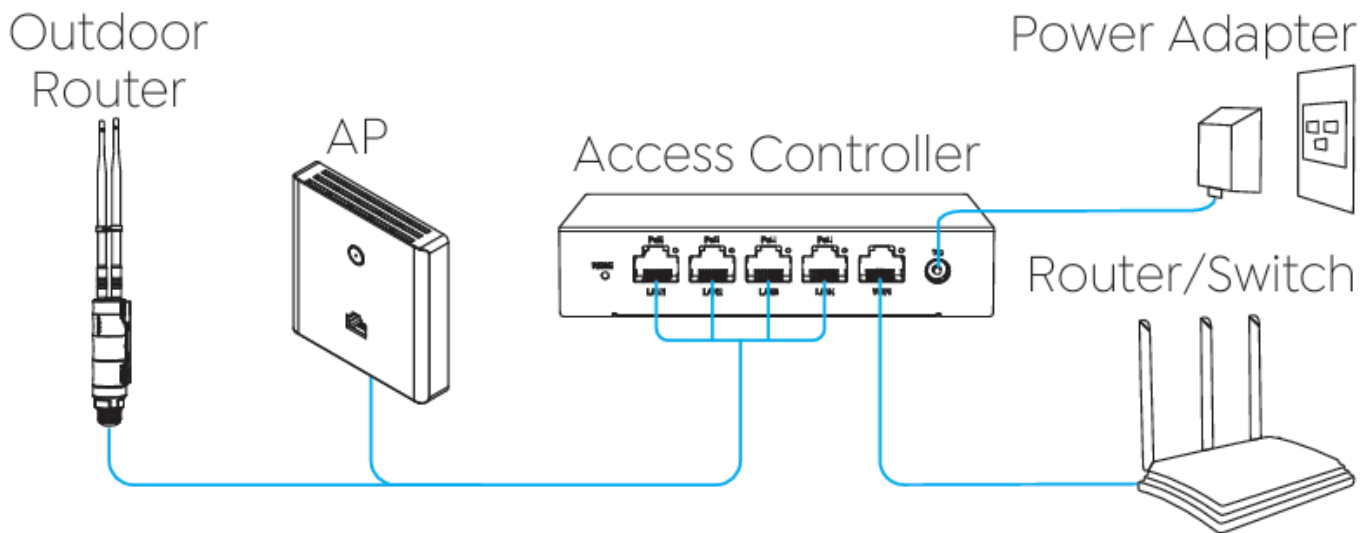


2. Access Controller can be hung in the weak electric box through the notch on the back.

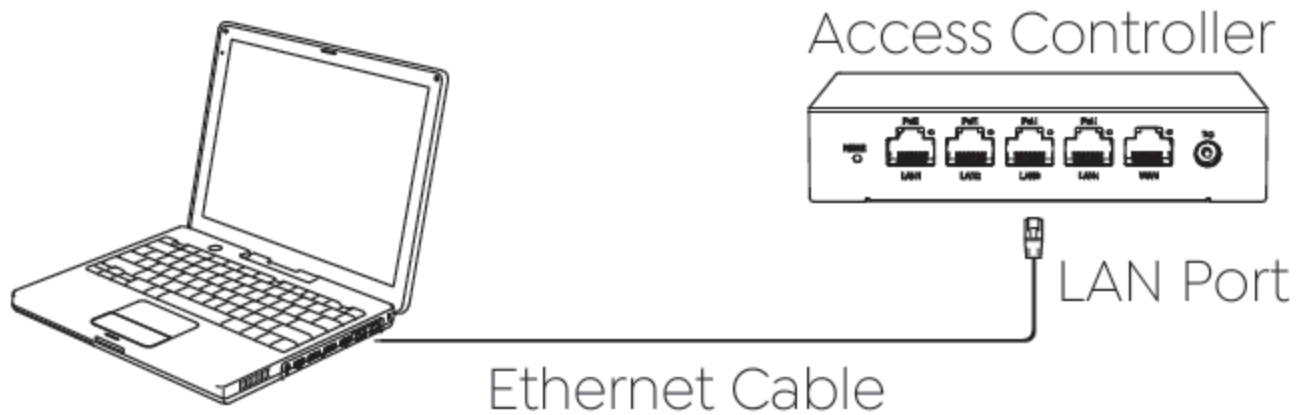


Connection

1. Connect the power adapter for power supply.
2. Connect the WAN port of the Access Controller to the LAN port of the upstream router.
3. The LAN port of the Access Controller can be connected to AP, switch, WAN port of router, PC, laptops, etc.

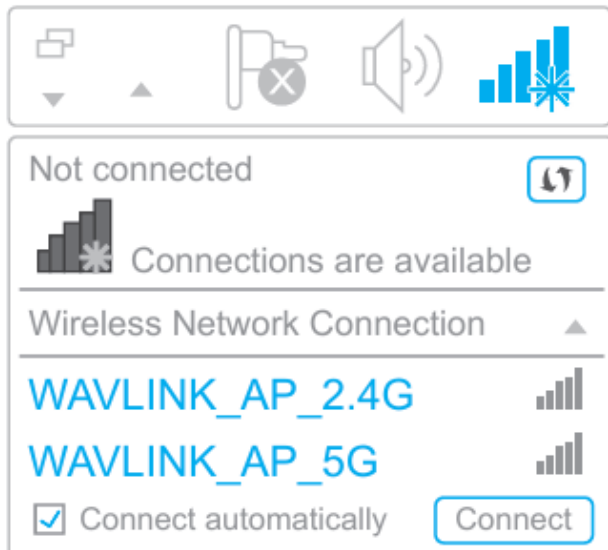


Wired Connection

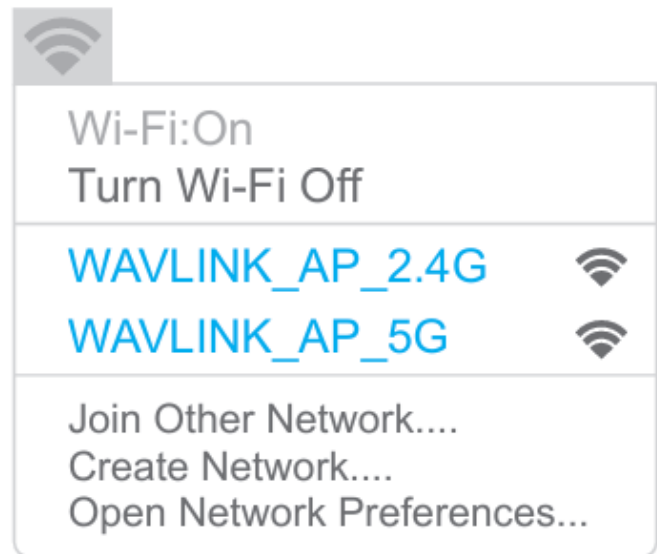


Wireless Connection

If you want to set it up via wireless connection, at least you will need one AP device. Connect to the AP's Wi-Fi, then proceed to configure your Access Controller.



For Windows Users



For Mac Users

Configuration

1. Please enter 192.168.10.1 or <http://wavlogin.link> in the address bar of your browser on PC/laptop or phone. Please set the username and password first, and then enter the username and password you set to log in.

English ▾

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Before logging in, please set the administrator's initial username and password.

Please set the initial username. ✕

Please set the initial password. ✕

Confirm Password ✕

Confirm

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English ▾

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Username ✕

Password ✕

[Forgot password?](#)

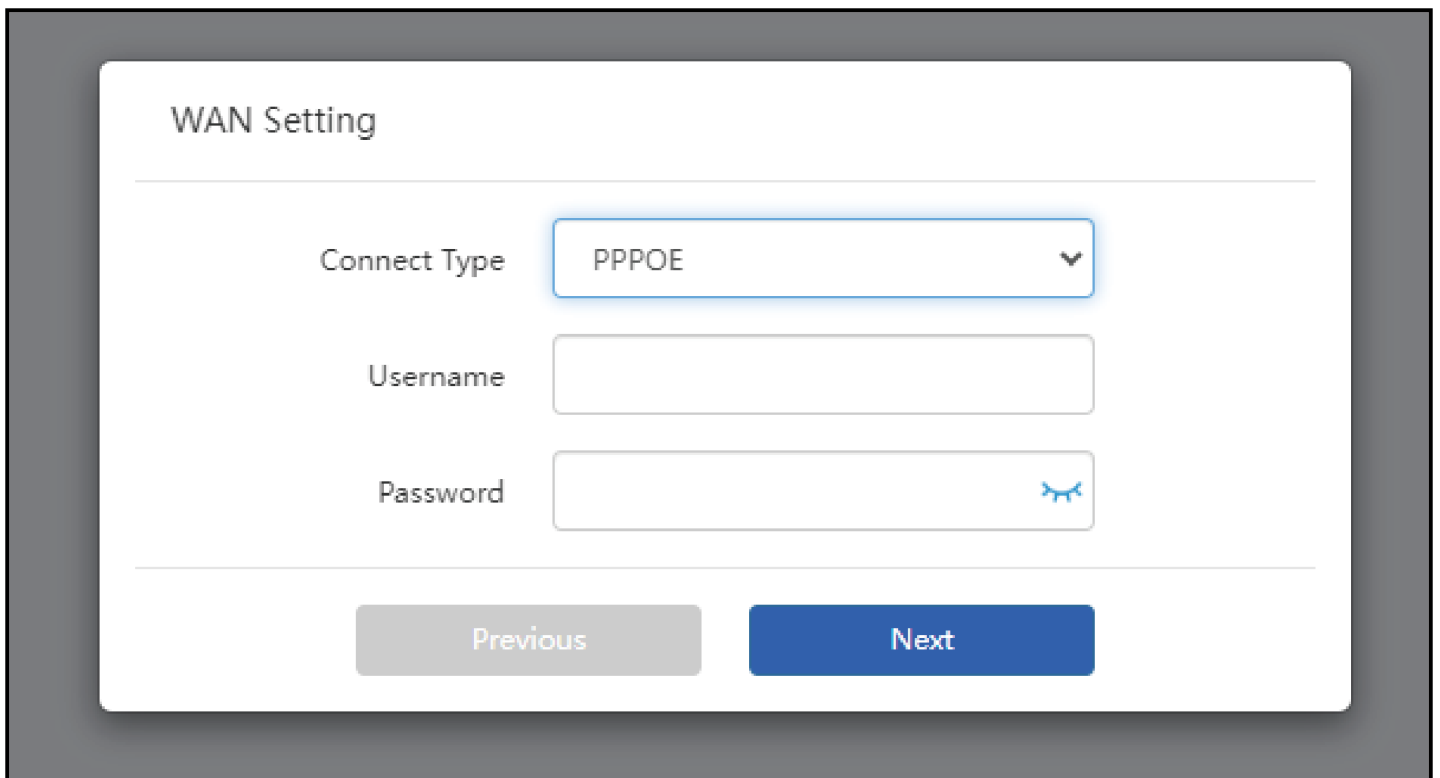
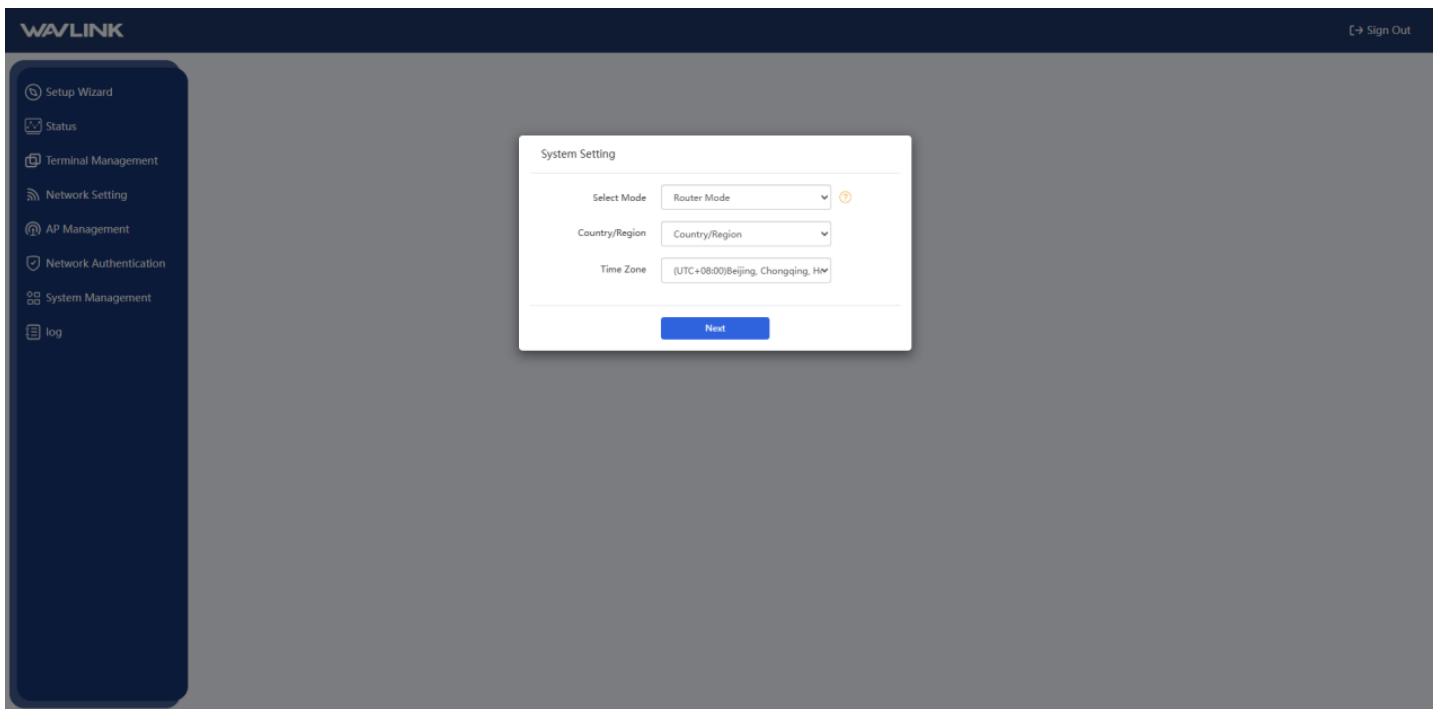
Sign In

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Mode Selection

Router Mode

Enter the setting interface of System Setting. Select Router Mode. Choose WANType. In Routing Mode, the IP of the AP/terminal device is assigned by the Access Controller.

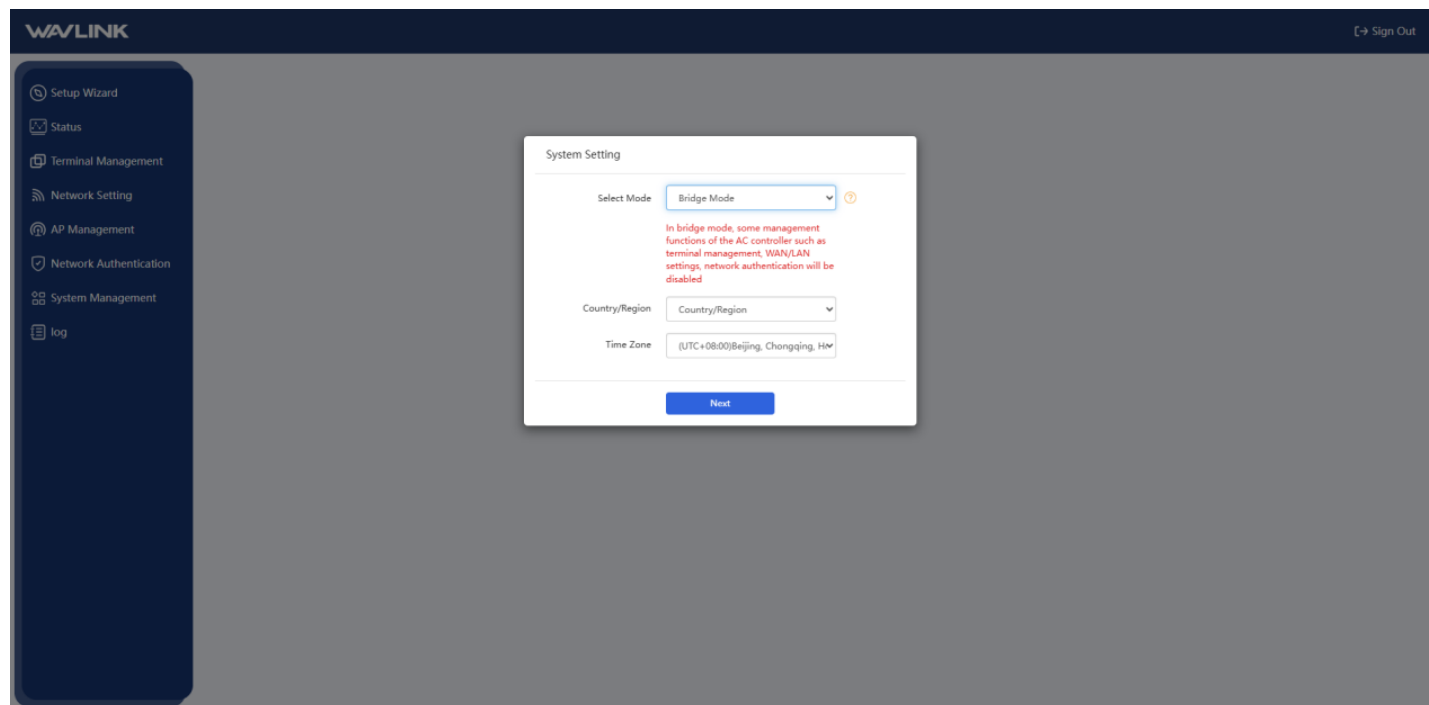


Which WAN Type am I supposed to choose?

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 StaticIP.

Bridge Mode

Select Bridge Mode. In bridge mode, the IP of AP/terminal device is assigned by the superior of the Access Controller. Some of the Access Controller's management functions will be disabled, such as terminal management WAN/LAN settings, and network recognition.



Wireless Settings

The WiFi Name is defaulted by WAVLINK_XXXX, and the WPA2-PSK Encryption type is recommended, after that, create a new Password for the device.

Wireless Setting

Dual Frequency

2G Config

WiFi Name

WAVLINK_BFB0_2.4G

?

Encryption

WPA2-PSK(Recommend)

Password

5G Config

WiFi Name

WAVLINK_BFB0_5G

?

Encryption

WPA2-PSK(Recommend)

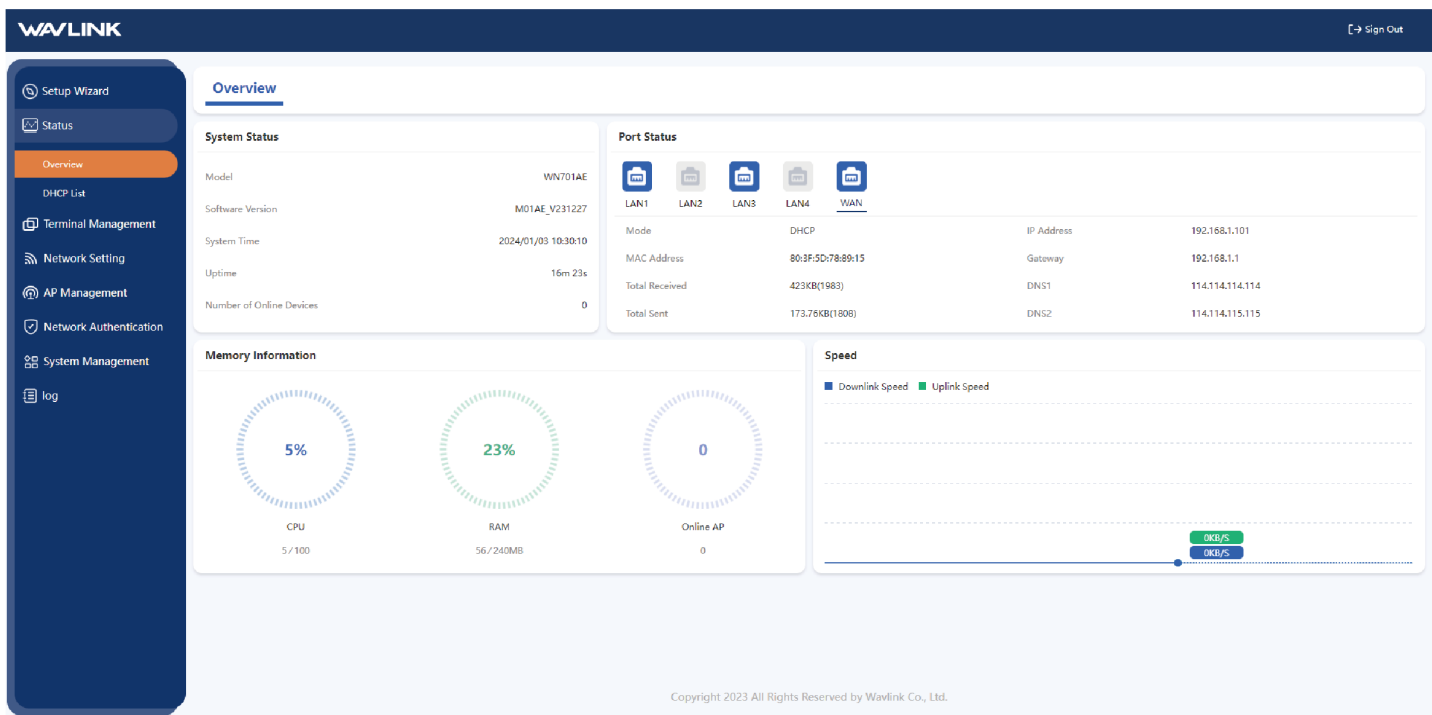
?

Password

Previous

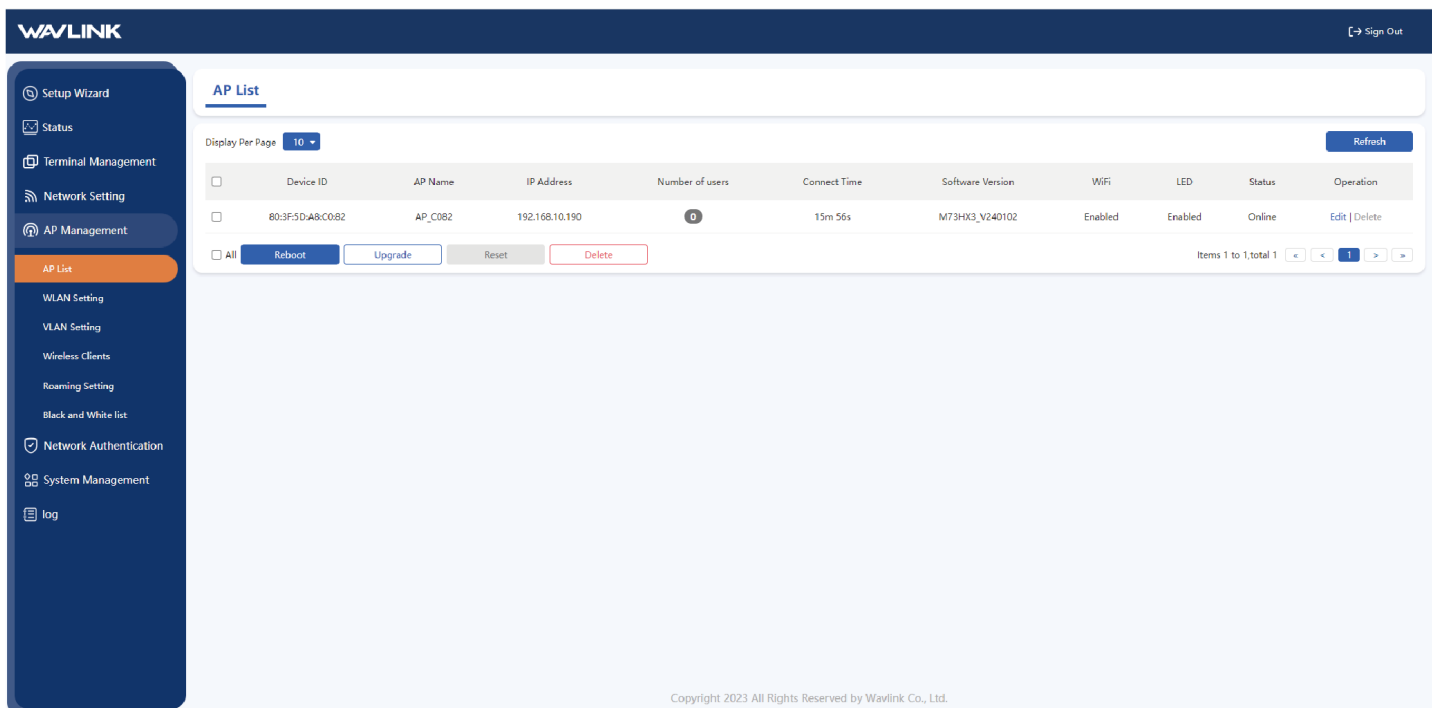
Save

Click on Status and select Overview, This screen allows you to view the device status and the connection status of each port.



AP Management

1.Select AP List, this interface allows you to Reboot, Upgrade, Reset, Delete offline AP. You can also click Edit to view or modify the configuration information of an AP.



Configure AP parameters



AP Setting

2G Config

5G Config

Edit AP Config

AP Name

AP_C082



Control WiFi

On



LED Control

On



Close

Save

Configure AP parameters

AP Setting

2G Config

5G Config

Basic configuration (2G)

Wireless Protocol

11B/G/N/AX Mixed

Bandwidth

40MHz

Working Channel

Auto(current channel is 7)

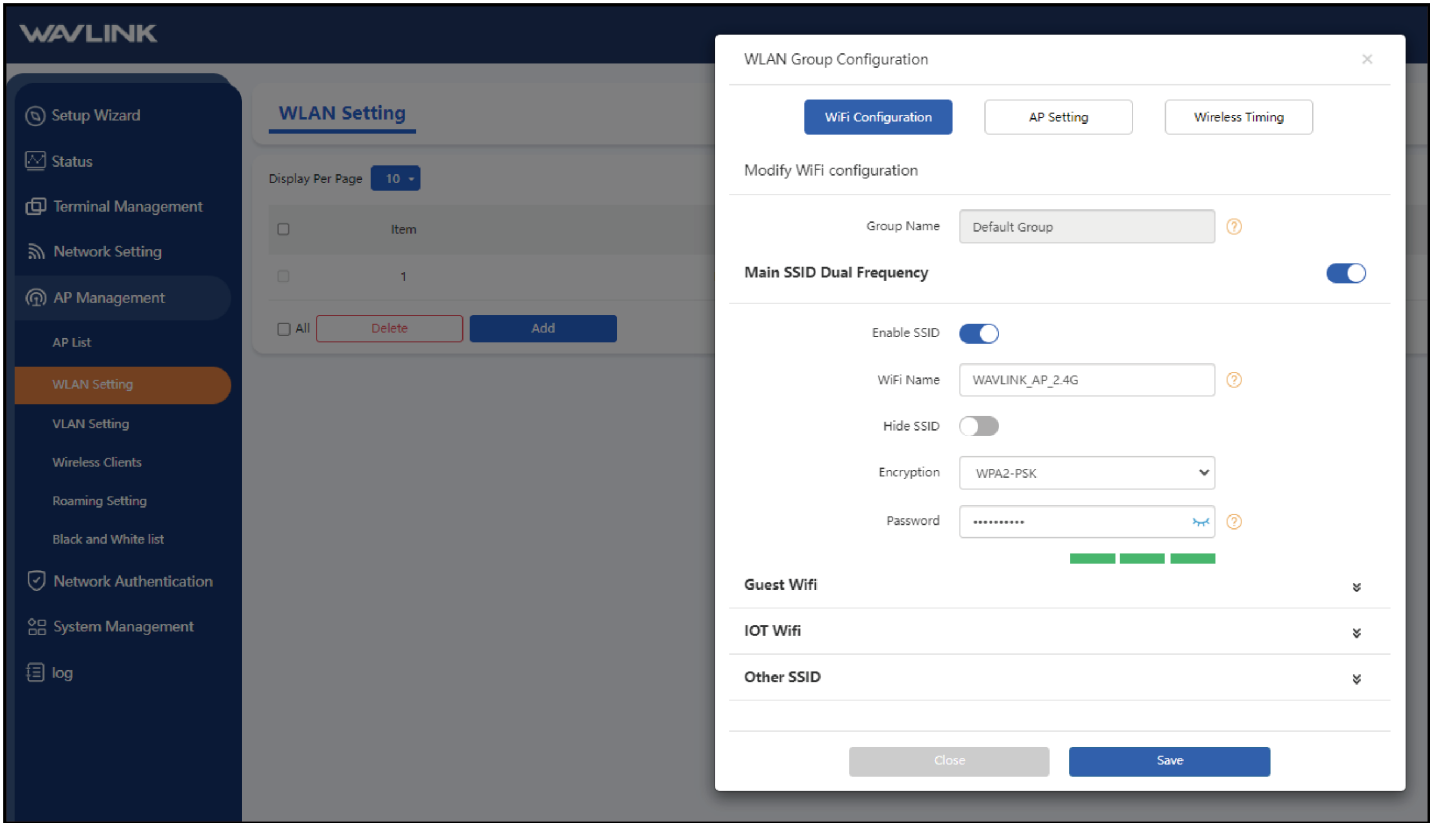
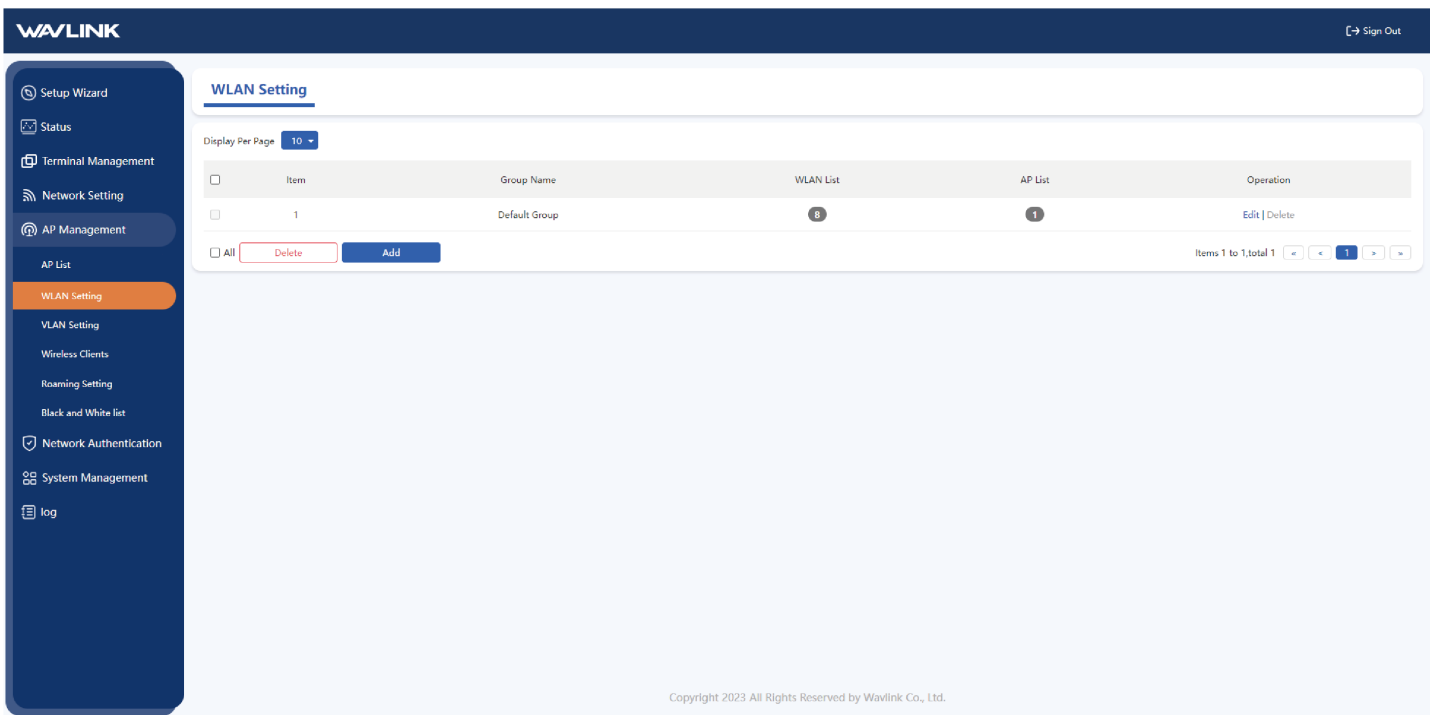
Power

High

Close

Save

2. The WLAN setting interface allows you to Add, Delete and modify the current wireless network. Click Edit to modify the network name, encryption method password and other configurations of WiFi.



Chapter 3 FAQ

This chapter contains the following sections :

FAQ

Q1. What should I do if I forget the username and password of the Access Controller?

- You can use the Reset Button to restore the default settings. Press and hold the reset button for **6** seconds.

Q2. What if the LEDs on the AC controller do not display properly?

- Check if the power cable of the AC controller is connected correctly.
- If you use your own power adapter, please check the power supply matches the power required by the Access Controller, normal values are 100-240V~50/60Hz.

Q3. Why does the login page not appear after entering <http://wavlogin.link>?

- If your computer is connected to the AP device wirelessly, please make sure you have connected to the AP's SSID.
- If your computer connects the AC controller via Ethernet cable, make sure the connection is stable.
- Make sure your computer is set to obtain an IP address automatically.
- Recommend you use the default IP address 192.168.10.1 to log in. In Bridge Mode, please connect the Access Controller to the host router and enter the host router's DHCP client list to get the device's current IP address.
- If the problem persists, reset the product and try again.

Chapter 4 After-sales Service

This chapter contains the following sections :

- [After-sales Service](#)
- [GNU General Public License Notice](#)
- [Safety and Emission Statement](#)

After-sales 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

Mon-Fri 9:00 am - 6:00 pm (UTC-5)

www.wavlink.com



**Thank you for purchasing
WAVLINK product!**

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

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

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, Winstar Technology Limited, declares that the radio equipment type WL-WN701AE 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.