IP-COM

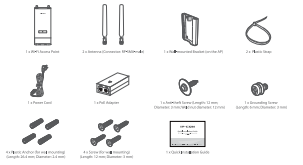
Quick Installation Guide

802.11AC Indoor/Outdoor Wi-Fi Access Point

IUAP-AC-M

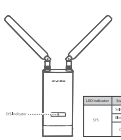
The Quick Installation Guide leads you through the installation and how to perform firmware configurations. The product in hand may differ slightly in appearance, specifications.

Package contents



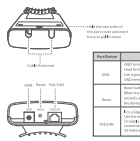
Get to know your device

▶ LED indicator



LED Indicator	Status	Description
LED	Solid blue	The system is starting up or is booting.
	Blinking blue	The system is ready.
	Off	The device is not powered on or the LED indicator is turned off.

▶ Port/button



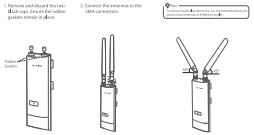
Port/button	Description
GND	GND terminal. Used for ESD and lightning protection. Use a grounding cord and the screw (screw grounding screw to connect this GND terminal to the earth.
Reset	Reset button. Hold the button for about 8 seconds, then release it to restore factory defaults. If the device is restored to factory settings, the device is restored to factory settings.
PoE/LAN	1 x Gigabit PoE port used to supply power to network devices. Use the supplied PoE adapter or a PoE switch to supply power and IEEE 802.3af or 802.3at power to the device. Refer to a better Ethernet cable and ensure the cable length does not exceed the recommended distance for indoor (< 100 meters) and outdoor (< 50 meters) for the PoE adapter.

Attach antennas

Tips
Keep the antennas upright or at a slant. Avoid placing them flat or under obstructions. Ensure a clear line of sight for optimal signal transmission.

1. Remove and discard the two **SMA** caps (located in the rubber gaskets) from the AP.
2. Connect the antennas to the SMA connectors.

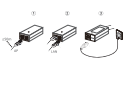
Tips
Ensure the antennas are securely connected and tightened for optimal signal strength and performance.



Power the AP

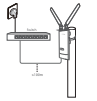
Option 1 Connect to a PoE adapter

1. Connect the AP to the **PoE** port of the PoE adapter with an Ethernet cable.
2. Connect the **LAN** port (Ethernet port) Connect an Ethernet cable from your LAN to the **LAN** port of the PoE adapter.
3. Connect the power cord to the adapter and then plug the power cord to a power source.



Option 2 Connect to a PoE switch

Connect an Ethernet cable directly from the AP to a PoE port on a PoE switch compliant with IEEE 802.3af/at. The switch will automatically supply power to the AP.

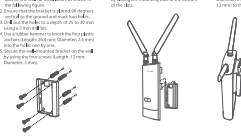


Install the device

Option 1 Wall mounting

Tips
Ensure the AP is mounted on a stable surface and that the mounting bracket is firmly secured. This prevents loosening or detachment, which could compromise the device's stability and performance. Regularly inspect the mounting bracket and its connections to maintain optimal performance and safety.

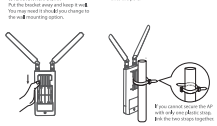
1. Place the wall-mounted bracket at the target **Wall** location, ensuring it is level, as shown in the following figure.
2. Ensure that the bracket is placed 90 degrees vertical to the ground and mark four holes.
3. Drill out the holes to a depth of 25 to 30 mm using a 6.1 mm drill bit.
4. Use a rubber hammer to knock the four plastic anchors (length: 26.4 mm; Diameter: 2.6 mm) into the holes one by one.
5. Secure the wall-mounted bracket on the wall by using the four screws (Length: 12 mm; Diameter: 3 mm).
6. Attach the AP to the wall-mounted bracket by aligning the mounting tabs to the bottom of the AP.
7. Fix the screwlock screw (Length: 12 mm; Diameter: 3 mm; Head Diameter: 5.5 mm) to the screwlock hole.



Option 2 Pole mounting

Tips
Ensure the AP is mounted on a stable surface and that the metric strap is secure and tightened. This prevents loosening or detachment, which could compromise the device's stability and performance.

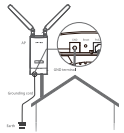
1. Slide the wall-mounted bracket down the metric strap, as shown in the figure. Put the bracket away and keep it aside. You may need it should you change to the wall mounting option.
2. Use the plastic strap to secure the AP onto the pole.



Lightning and ESD protection

Connect the GND terminal of the AP to a grounding terminal connected the earth or building to protect the AP from over-voltage and overcurrent caused by lightning and ESD.

1. Connect one side of a grounding cord to the exposed metal connector of the grounding terminal.
2. Connect the grounding screw to the GND terminal of the AP, and tighten it.
3. Remove the cable grommet and then replace the port cover.
4. Connect the other side of the grounding cord to the grounding terminal connected to the earth or building.



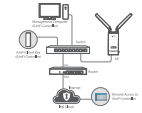
Configure your APs

You can configure the AP through the web UI of the AP, IUniFi Controller, or the IPCS platform. This chapter mainly describes the configuration methods of using the web UI and the IUniFi Controller. For details about the IPCS platform configuration method, refer to the user guides of target products.

Tips
Connect and configure one AP at a time. Avoid connecting multiple APs to your network and configuring them simultaneously. When you finish, connect the second AP and repeat steps 1 and 2.

Scenario 1: Through the iUniFi Controller

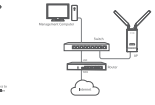
The network topology diagram for configuration through the IUniFi Controller is shown as follows. For details about how to configure APs through the IUniFi Controller, refer to its user guide.



Scenario 2: Through the Web UI of the AP

❶ Connect devices

Connect the management computer to the switch to which the AP has connected. For details about how to connect other devices, see the following figure.



❷ Configure the IP address of the management computer (Example: Win 10)

On the computer desktop, click **Start** > **Settings** > **Change adapter options**, right-click **Ethernet**, click **Properties**, and double-click **Internet Protocol Version 4 (TCP/IPv4)**. Choose **Use the following IP address**, and then enter an IP address from **192.168.0.2** to **192.168.0.254** (the IP address is not occupied by other devices) and **Subnet mask** to **255.255.255.0**, and save the configurations.

❸ Log in to the web UI of the AP

Start a web browser on the management computer, and access **192.168.0.254**. Follow the on-screen instructions to log in. Then select **5GHz** from the **Radio Band** drop-down list and repeat the above operations.

Tips
If you cannot log in to the web UI of the AP, refer to Q8 in **FAQ**.

❹ Modify the IP address of the AP

Choose **Internet Settings** > **LAN Setup**. Modify the IP address of the AP to 192.168.0.X (X: 2 to 253), and ensure that the new IP address has not been occupied in this network, then click **Save**.

Example:

You can set the new IP address of the first AP to 192.168.0.201, and the new IP address of the second AP to 192.168.0.202.

Done.

WiFi name: The **SSID** you set in step 4 Modify the SSID and password.

WiFi password: The **Key** you set in step 4 Modify the SSID and password.

❺ Modify the SSID and password

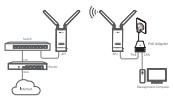
Choose **Quick Setup**, configure the **SSID**, WiFi name, **Security Mode**, WPA2-PSK password, and **Key**, and click **Save**.

(optional) AP wireless bridge

Tips
If you need to connect an AP to a network in wireless manner, please refer to this chapter. The AP supports wireless bridge under only one radio band at a time. Please ensure 2.4 GHz or 5 GHz is enough. This chapter uses 2.4 GHz as an example for illustration.

❶ Connect devices

Connect the management computer to AP2. For details about how to connect other devices, see the following figure.



❷ Configure the IP address of the management computer & log in to the web UI of AP2

Refer to steps 2 to 3 in **Scenario 2: Through the Web UI of the AP** in **Configure your APs**.

❸ Configure AP2

Set the **Working Mode** of AP2 to **Client+AP**, and click **Scan**.

Select the wireless network of AP1 and its **SSID**, **Security Mode**, and **Encryption Algorithm** are filled in automatically, which are **PSK2/AES**, **WPA2-PSK**, and **AES** in this example. Enter the **Key** for the wireless network of AP1, and click **Save**.

❹ Check the bridge status

Choose **Tools**, click **Diagnostic Tool**, and ping the IP address of AP1. If the IP address can be pinged, the bridge is successful. Otherwise, refer to Q8 in **FAQ**.

FAQ

Q1. What should I do if I cannot access the web UI of the AP after entering 192.168.0.254?

A1. Try the following solutions:

- Check if your Ethernet cables are connected properly. If yes, the SYS LED indicator lights up.
- Ensure that the IP address of your computer has been set to 192.168.0.X (X: 2 to 254), and the IP address is not occupied by any other devices in the network.
- Clear the cache of your web browser, or replace the web browser.
- Disable the firewall of your computer, or replace the computer.
- If two or more APs are connected to the network without IUniFi Controller or IPCS platform, you should leave only one AP in the network first and configure the AP's IP address. Then repeat this procedure to change the IP addresses of the other APs. Moreover, ensure that the APs' new IP addresses are in the same network segment with the IP address of the management computer. Then log in to the APs' web UI using their new IP addresses.
- The AP may be managed by IUniFi Controller or IPCS platform and therefore its IP address is no longer **192.168.0.254**. In this case, go to the web UI of the IUniFi Controller or IPCS platform to view the new IP address of the AP and then log in to the AP's web UI using the new IP address.
- If the problem persists, reset the AP.

Q2. How to reset my AP?

A2.

Option 1: Reset using the Reset button

When the **SYS** LED indicator of the AP blinks, hold down the **Reset** button for about 8 seconds. The AP is reset successfully when the SYS LED indicator lights solid on.

Option 2: Reset using the web UI

Log in to the web UI of the AP, choose **Tools** > **Maintenance**, and navigate to the **Reset** section, then follow the on-screen instruction to reset it.

Note: Resetting clears all configurations of your AP.

Q3. What should I do if AP wireless bridge failed?

A3. Try the following solutions:

- Verify that the **Key** for the wireless network of the uplink device (AP1 in this guide) is correct.
- Check whether the signal of the wireless network of the uplink device (AP1 in this guide) is too weak. If yes, move the **local** AP (AP2 in this guide) closer to the uplink device (AP1 in this guide).

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.

The mains plug is used as disconnect device, the disconnect device shall remain readily operable.

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.

RECYCLING

This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

Declaration of Conformity

Hereby, SHENZHEN IP-COM Networks Co., Ltd. declares that the radio equipment type IUAP-AC-M 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://ipcom.com.cn/service.html

Operating Frequency:

2.4GHz: ETSI 2400M-2483.5MHz (CH1~CH13)

5GHz: ETSI 5150~5250MHz (CH36~CH48)

EIRP Power:

2.4GHz: <28dBm

5GHz: <23dBm

Software Version: V1.0.0.3

Operating temperature: -30℃~50℃

Operating humidity: 10%~90% RH, non-condensing

Caution:

Adapter Model: EPA36A12024

Manufacturer: SHENZHEN HENGFENGXIN NETWORK TECHNOLOGY CO., LTD.

Input: 100~240V AC, 50/60Hz, 0.3A

Output: 24V DC, 0.5A

FCC: DC Voltage

FC

FCC Statement

The 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.

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.

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 should be installed and operated with minimum distance 20cm between the device and your body.

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.

Operating frequency: 2412~2483.5MHz, 5150~5250MHz, 5725~5850MHz

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.

For EU/EFTA, this product can be used in the following countries:

BE	BG	CZ	DK	DE	EE	IE	EL	ES	FR	HR	IT	CY	LV
LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK

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