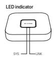
English

Getting to know your device

LED indicator



LED indicator	Description
SYS	**Solid green:** The system is starting up or is not working properly. **Blinking green:** The system works properly. **Off:** The device is powered off, or the LED indicators are turned off.
LINK	• When the device works in **Router** mode **Slowly blinking green:** Connected to the internet **Blinking red:** Fails to access the internet • When the device works in **AP** mode **Slowly blinking green:** Connected to another node. Excellent connection **Blinking yellow:** Connected to another node. Fair connection **Fast blinking green:** Connecting to another node **Blinking red:** Fails to connect to the router node, or the router node fails to access the internet

Jack/Port/button

Jack/Port/Button	Description
POWER	DC power jack. It is used to connect to the included power adapter to supply power to the device.
RESET	Reset button. When the SYS LED indicator is blinking, hold down this button for about 8 seconds, and then release it when all LED indicators light solid green. When the SYS LED indicator blinks again, the device is restored to factory settings.
PoE WAN/LAN1	10/100/1000 Mbps PoE port for power supply and data transmission. When no power sources are available at hand, use the included PoE injector instead. • When the device works in Router mode, this port functions as a WAN port used to connect to a modem or an Ethernet jack. • When the device works in AP mode, this port functions as a LAN port used to connect to a device under the LAN.
LAN2	10/100/1000 Mbps auto-negotiation port used to connect to a device under the LAN.

Bracket

The bracket is used to install the device onto ceilings, walls or poles. See **II Install the device** for details.
❶ Screw holes for ceiling installation
❷ Plastic strap holes for pole installation
❸ Slots for wall installation.

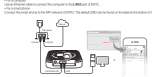
I Set up the device

Tips
EW12 supports management through the web UI, IMS cloud and App. This part instructs how to manage the device through the web UI. For more management types, please refer to relevant documents.

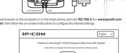
Please choose **Scenario 1** or **Scenario 2** to perform your configuration depending on your networking requirement. PoE power supply is used for illustration.

Scenario 1: Serve as a router

1. Use an Ethernet cable to connect the **PoE WAN/LAN1** port of EW12 to the **PoE** port of the PoE injector.
2. Use an Ethernet cable to connect the **LAN** port of the PoE injector to the internet.
3. Use the included power adapter to connect the PoE injector to a power source.
4. Connect a computer or a WiFi-enabled device (for example: a smart phone) to EW12.
• For a computer
Use an Ethernet cable to connect the computer to the **LAN2** port of EW12.
• For a smart phone
Connect the smart phone to the WiFi network of EW12. The default SSID can be found on the label at the bottom of the device.



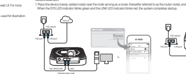
5. Start a web browser on the computer or on the smart phone, and visit **192.168.5.1** or **www.ipcwifi.com**.
6. Click **Start**, then follow the on-screen instructions to configure the internet settings.



Scenario 2: Serve as an AP

When serving as an AP, the device can be added into an existing Mesh network established by this model (EW12) of other devices in a wireless manner for network extension.

1. Place the device (newly-added node) near the node serving as a router (hereafter referred to as the router node), and power on the newly-added node.
When the SYS LED indicator blinks green and the LINK LED indicator blinks red, the system completes startup.



2. Refer to steps **4** and **5** in **Scenario 1: Serve as a router** to log in to the web UI of the existing router node.
3. Click **Details** on the **System Status** page, and click the **Add** button corresponding to the newly-added node.
When the LINK LED indicator of the newly-added node turns from fast green blinking to slow green blinking, the node is added into the Mesh network of the existing router node.

Tips
If the LINK LED indicator does not blink green slowly, reset the newly-added node to factory settings and try again.

4. Relocate the newly-added node, and power it on. Ensure that:
– The wall between nodes is less than two.
– The node is within the coverage of the existing Mesh network.
When the SYS LED indicator of the newly-added node blinks green, check the status of the LINK LED indicator. Adjust the position of the newly-added node according to the descriptions in the following table until the LINK LED indicator turns to slow green blinking.

Slow green blinking	Excellent connection
Yellow blinking	Fair connection. You are recommended to move the newly-added node closer to the upstream node (router node or another node in the Mesh network).
Red blinking	Fails to connect to the upstream node. Move the newly-added node closer to the upstream node.

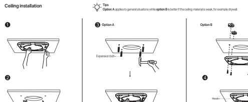
Done. Now, you can install the newly-added node to the selected position.
The SSID and password of the newly-added node are the same with the existing router node, providing you with the better WiFi signal when you are moving around.

II Install the device

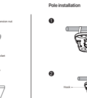
Tips
• You may need a marker, a rubber hammer, a hammer drill, a drill bit, a screwdriver, and a ladder for the installation. Please prepare them yourself.
• The device supports ceiling, wall, pole and desktop installations. Please choose the appropriate option as required. This guide uses ceiling and pole installations as an example.

Ceiling installation

Tips
Option A applies to general situations while **option B** is better if the ceiling material is weak, for example drywall.



Pole installation



Deutsch

I Geräteeinrichtung

Tipps
EW12 unterstützt die Verwaltung über die Web-Benutzeroberfläche, IMS-Cloud und App. In diesem Abschnitt wird die Verwaltung des Geräts über die Web-Benutzeroberfläche beschrieben. Informationen zu weiteren Verwaltungsarten finden Sie in den entsprechenden Dokumenten.

Wählen Sie **Szenario 1** oder **Szenario 2**, um die Konfiguration entsprechend den Netzwerkanforderungen durchzuführen. Das PoE-Netzteil dient der Veranschaulichung.

Szenario 1: Verwendung als Router

1. Verwenden Sie ein Ethernet-Kabel, um den **PoE-WAN-/LAN1**-Port von EW12 mit dem PoE-Port des **PoE**-Injectors zu verbinden.
2. Verwenden Sie ein Ethernet-Kabel, um den **LAN**-Port des PoE-Injectors mit dem Internet zu verbinden.
3. Benutzen Sie das beiliegende Netzteil, um den PoE-Injector an die Stromversorgung anzuschließen.

Verbinden Sie das Smartphone mit dem WLAN-Netzwerk von EW12. Die Standard-SSID befindet sich auf dem Etikett auf der Geräteunterseite.
5. Öffnen Sie einen Webbrowser auf dem Computer oder Smartphone, und gehen Sie auf **192.168.5.1** oder **www.ipcwifi.com**.
6. Klicken Sie auf **Start**, und folgen Sie dann den Bildschirmanweisungen, um die Interneteinstellungen zu konfigurieren.

Szenario 2: Verwendung als AP

Wenn das Gerät als AP verwendet wird, kann es einem vorhandenen Mesh-Netzwerk hinzugefügt werden, das von diesem Modell (EW12) auf anderen Geräten eingerichtet wurde. Es dient dann über WLAN als Netzwerkerweiterung.

1. Stellen Sie das Gerät (neu hinzugefügter Knoten) in der Nähe des Knotens auf, der als Router dient (nachfolgend als Routerknoten bezeichnet), und schalten Sie den neu hinzugefügten Knoten ein. Wenn die SYS-LED-Anzeige grün blinkt und die LINK-LED-Anzeige rot blinkt, wird der Startvorgang vom System abgeschlossen.
2. Siehe Schritte **4** und **5** in **Szenario 1: Verwendung als Router** für die Anmeldung bei der Web-Benutzeroberfläche des vorhandenen Router-Knotens.
3. Klicken Sie auf der Seite **System Status** auf **Details** und dann auf die Schaltfläche **Add** des neu hinzugefügten Knotens.

Tipps
Blinkt die LINK-LED-Anzeige nicht langsam grün, setzen Sie den neu hinzugefügten Knoten auf die Werkseinstellungen zurück, und versuchen Sie es erneut.

4. Stellen Sie den neu hinzugefügten Knoten an einen anderen Ort und schalten Sie ihn ein. Achten Sie bei der Standortwahl auf Folgendes:
– Es darf höchstens eine Wand zwischen den Knoten liegen.
– Der Knoten muss sich in Reichweite des vorhandenen Mesh-Netzwerks befinden.
Wenn die SYS-LED-Anzeige des neu hinzugefügten Knotens grün blinkt, prüfen Sie den Status der LINK-LED-Anzeige. Passen Sie den Standort des neu hinzugefügten Knotens gemäß den Beschreibungen in der folgenden Tabelle an, bis die LINK-LED-Anzeige langsam grün blinkt.

Blinkt langsam grün	Hervorragende Verbindung
Blinkt gelb	Mittelmäßige Verbindung. Es wird empfohlen, den neu hinzugefügten Knoten näher an den Upstream-Knoten (Routerknoten oder einen anderen Knoten im Mesh-Netzwerk) zu stellen.
Blinkt rot	Verbindung zum Upstream-Knoten schlägt fehl. Stellen Sie den neu hinzugefügten Knoten näher an den Upstream-Knoten.

Fertig. Jetzt können Sie den neu hinzugefügten Knoten am ausgewählten Standort installieren.
Die SSID und das Passwort des neu hinzugefügten Knotens sind identisch mit denen des vorhandenen Routerknotens. Sie haben nun ein besseres WLAN-Signal, wenn Sie sich bewegen.

II Geräteinstallation

Tipps
• Eventuell benötigen Sie für die Montage einen Stift, einen Gummihammer, einen Schlagbohrer, einen Bohrer, einen Schraubendreher und eine Leiter. Bitte bereiten Sie diese Dinge vor.
• Das Gerät eignet sich zur Decken-, Wand-, Stangen- und Schreibtischmontage. Bitte wählen Sie je nach Bedarf die geeignete Variante aus. Diese Anleitung zeigt als Beispiel die Decken- und Stangenmontage.

Deckenmontage

Stangenmontage

Español

I Configuración del dispositivo

II Instalación del dispositivo

Čeština

I Nastavení zařízení

II Instalace zařízení

Français

I Configurer l'appareil

II Installer l'appareil

Italiano

I Configurazione del dispositivo

II Installazione del dispositivo

Magyar

I Az eszköz beállítása

II Az eszköz felszerelése

160 mm

Appendix A FAQ

Q1. The device fails to access the internet when serving as a router. What should I do?
A1. Try the following solutions:
- Check whether the PoE WAN/LAN1 port of the device is connected to a modem or an Ethernet jack properly.
- Log in to the web UI of the device, choose Internet Settings, and check the connection status. If it is not Connected, follow the on-screen instructions to solve the problem.
- If the problem persists, contact your ISP to check whether your internet service is normal.

Q2: The device fails to access the internet when working in AP mode. What should I do?
A2: Try the following solutions:
- Check whether the LINK LED indicator of the device serving as a router blinks green slowly. If not, refer to **Q1** to solve the problem.
- Relocate the device closer to another node with the LINK blinking green slowly LED indicator in the Mesh network.

Q3: How to reset the device to factory settings?
A3: When the SYS LED indicator is blinking, hold down the RESET button for about 8 seconds, and then release it when all LED indicators light solid on. When the SYS LED indicator blinks green again, the device is restored to factory settings.

Q4: I cannot log in to the web UI of the device. What should I do?
A4. Try the following solutions:
- Enter www.ipcwifi.com or 192.168.5.1 in the address bar (not search bar) of a web browser.
- If a WiFi-enabled device, such as a smart phone, is used to configure the device, ensure that the smart phone is connected to the WiFi network of the device successfully.
- If a smart phone is used to configure the device, ensure that the mobile data is disabled.
- If a computer is used to configure the device, ensure that the computer is connected to the LAN2 port of the device, and the Ethernet cable is connected properly.
- Reset the device to factory settings, and try again.

Appendix B Recommended WiFi coverage solutions

Scenari	Solution (Quantity)
80-user capacity	EW12 x 2
100-user capacity	EW12 x 3

Appendix C Specifications

Item	Parameter
Frequency band	2.4 GHz, 5.2 GHz, 5.8 GHz
Wireless rate	400 Mbps + 867 Mbps + 1300 Mbps
Networking technology	Mesh
Antenna	5 x 4 dBi omni-directional antennas
Jack/Port	1 power jack, 2 x 10/100/1000 Mbps auto-negotiation RJ45 ports
Button	1 RESET button
WAN port	1 WAN port at most
Dimensions (L x H x W)	170 mm × 170 mm × 36 mm
Installation type	Ceiling, pole, wall and desktop installations

CE Mark Warning
This is a Class A 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.

Declaration of Conformity
Hereby, SHENZHEN IP-COM Networks Co., Ltd. declares that the radio equipment type EW12 is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address: http://ip-com.com.cn/en/ce.html
Operating Frequency:
2.4 GHz: EU/2412-2472MHz (CH1-CH13)
5 GHz: EU/5150-5250MHz (CH36-CH48), EU/5470-5725MHz (CH100-CH116, CH132-CH140)
EIRP Power (Max.):
2.4 GHz: 19.97dBm
5 GHz: 22.97dBm
Software Version: V15.11.0.X

Caution:
Adapter Model: BN017-A38048E, BN017-A38048B
Input: 100-240V AC 50/60Hz 1.0A
Output: 48V DC, 800mA
Manufacturer: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO., LTD.
⎓ : DC Voltage

Operating Environment
• Temperature: 0°C-40°C • Humidity: (10 - 90) %RH, non-condensing

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

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 new electrical or electronic equipment.

FCC Statement
This equipment has been tested and found to comply with the limits for a Class A 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 radiator & 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: 2412-2462MHz, 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.

Technical Support
Address: Room 101, Unit A, First Floor, Tower E3, NO.1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Tel: (86755) 2765 3089
Email: info@ip-com.com.cn
Website: www.ip-com.com.cn

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Español
DECLARACIÓN UE DE CONFORMIDAD SIMPLIFICADA
Por la presente, SHENZHEN IP-COM NETWORKS CO., LTD. declara que e1 tipo de equipo radioelectrico EW12 es conforme con 1a Directiva 2014/53/UE.
El texto completo de la declaratión UE de conformidad está disponible en la direcctión Internet siguiente:
http://ip-com.com.cn/en/ce.html

Deutsch
VEREINFACHTE EU-KONFORMITÄTSERKLÄRUNG
Hiermit erklärt SHENZHEN IP-COM NETWORKS CO., LTD. dass der Funkanlagentyp EW12 der Richtlinie 2014/53/EU entspricht.
Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:
http://ip-com.com.cn/en/ce.html

Magyar
EGYSZERŰSÍTETT EU-MEGFELELŐSÉGI NYILATKOZAT
SHENZHEN IP-COM NETWORKS CO., LTD. igazolja, hogy a EW12 típusú rádióberendezés megfelel a 2014/53/EU irányelvnek.
Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen:
http://ip-com.com.cn/en/ce.html

Polski
UPROSZCZONA DEKLARACJA ZGODNOŚCI UE
SHENZHEN IP-COM NETWORKS CO., LTD. niniejszym oświadcza, że typ urządzenia radiowego EW12 jest zgodny z dyrektywą 2014/53/UE.
Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym:
http://ip-com.com.cn/en/ce.html

Română
DECLARAȚIA UE DE CONFORMITATE SIMPLIFICATĂ
Prin prezenta, SHENZHEN IP-COM NETWORKS CO., LTD. declară că tipul de echipamente radio EW12 este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet:
http://ip-com.com.cn/en/ce.html

Български
ОПРОСТЕНА ЕС ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ
С настоящото SHENZHEN IP-COM NETWORKS CO., LTD. декларира, че този тип радиосъоръжение EW12 е в съответствие с Директива 2014/53/ЕС.
Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес:
http://ip-com.com.cn/en/ce.html

Čeština
ZJEDNODUŠENÉ EU PROHLÁŠENÍ O SHODĚ
Tímto SHENZHEN IP-COM NETWORKS CO., LTD. prohlašuje, že typ rádiového zařízení EW12 je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese:
http://ip-com.com.cn/en/ce.html

Français
DECLARATION UE DE CONFORMITE SIMPLIFIEE
Le soussigné, SHENZHEN IP-COM NETWORKS CO., LTD. déclare que l'équipement radioélectrique du type EW12 est conforme à la directive 2014/53/UE.
Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante:
http://ip-com.com.cn/en/ce.html

Italiano
DICHIARAZIONE DI CONFORMITÀ UE SEMPLIFICATA
Il fabbricante, SHENZHEN IP-COM NETWORKS CO., LTD. dichiara che il tipo di apparecchiatura radio EW12 è conforme alla direttiva 2014/53/UE.
Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet:
http://ip-com.com.cn/en/ce.html

Português
DECLARAÇÃO UE DE CONFORMIDADE SIMPLIFICADA
O(a) abaixo assinado(a) SHENZHEN IP-COM NETWORKS CO., LTD. declara que o presente tipo de equipamento de rádio EW12 está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet:
http://ip-com.com.cn/en/ce.html

Русский
Декларация соответствия
Настоящим, SHENZHEN IP-COM NETWORKS CO., LTD. заявляет, что радиооборудование типа EW12 соответствует Директиве 2014/53 / ЕС. Полный текст декларации соответствия ЕС доступен по следующему интернет-адресу: http://ip-com.com.cn/en/ce.html

IP-COM

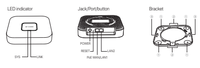
Quick Installation Guide

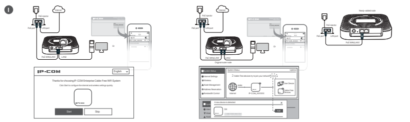
AC2600 Tri-band Cable-Free WiFi System(Mini Basestation)
EW12

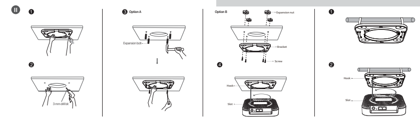
Package contents

• EW12 x 1
• Screw (BA3.0 x 25 mm, head diameter: 6.0 mm) x 4
• Power adapter x 1
• PoE injector x 1
• Ethernet cable x 1
• Bracket x 1
• Expansion bolt (Inner diameter: 2.4 mm, length: 26.4 mm) x 4
• Plastic strap x 2
• Expansion nut (Inner diameter: 2.51 mm, height: 14.5 mm) x 4
• Quick installation guide x 1

This quick installation guide instructs how to configure and install the device.
For product or function details, please go to www.ip-com.com.cn to download the user guide.







Português

I Configurar o dispositivo

II Instale o dispositivo

Polski

I Konfiguracja urządzenia

II Montaż urządzenia

Русский

I Настройка устройства

II Установите устройство

Română

I Configurarea dispozitivului

II Montarea dispozitivului

Български

I Настройване на устройството

II Монтиране на устройството