ECW536 QSG

Cloud7 4x4x4

Cloud Managed Wi-Fi 7 4×4x4 Indoor Access Point (ECW536)

Introduction

This Quick Start Guide is designed to guide you through the installation of the **Cloud7 4x4x4** Access Point, model **ECW536**, including hardware mounting and configuration.

Cloud7 4x4x4

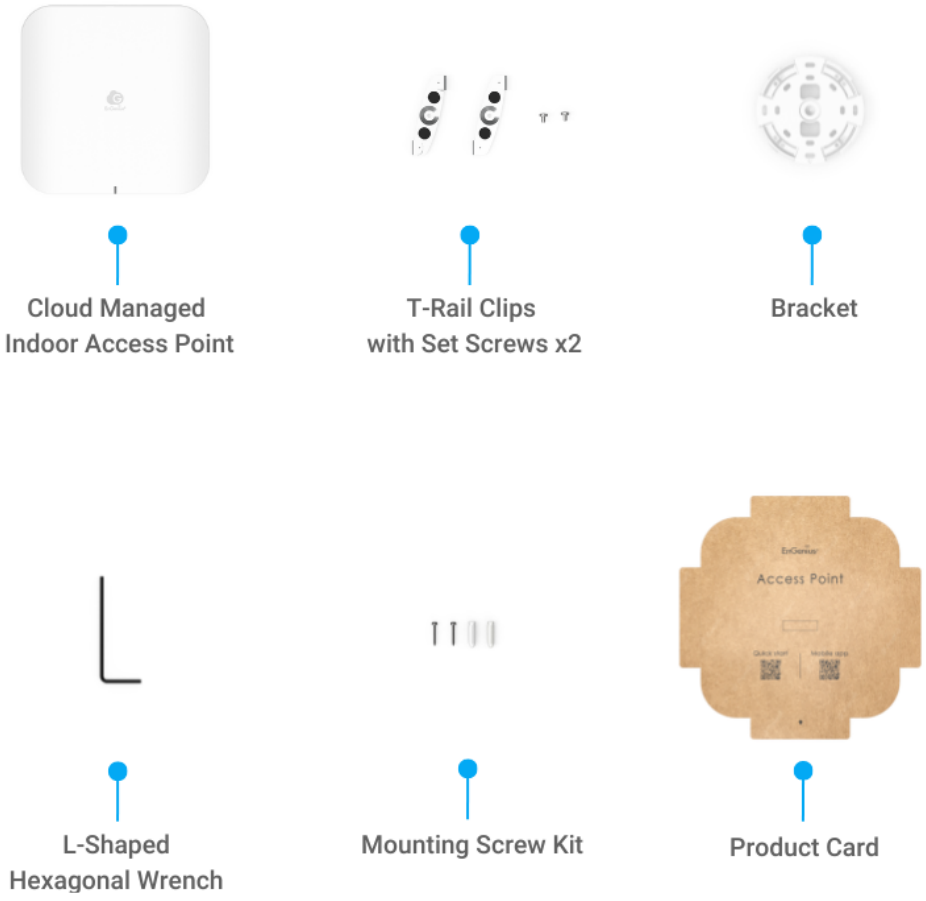
Cloud Managed Wi-Fi 7 4×4x4 Indoor Access Point

Model: ECW536

- Wi-Fi 7 technology for high-performance Wi-Fi in high-density, multi-device environments.
- Four spatial streams support up to 11,600 Mbps on 6 GHz, 5,800 Mbps (5 GHz) & up to 1,400 Mbps (2.4 GHz).
- 10 GbE realizes greater throughput and supports 802.3bt 60W PoE input for flexible installation over 100 meters (328 feet).

Content Quick Links

Package Contents



System Requirements

The EnGenius Cloud is primarily accessible with a web browser or mobile app. Before signing up for the EnGenius Cloud Service or logging on to the EnGenius Cloud Platform to manage your network, ensure that downloaded the right app and use the supported browser.

Mobile App:

EnGenius Cloud To-Go (iOS/ Android supported)

Download the Cloud To-Go mobile app here

Web Browser:

- Google Chrome (57.0.2987.110 and later)
- Microsoft Edge (80.0.361.103 and later)
- Mozilla Firefox (52.0 and later)

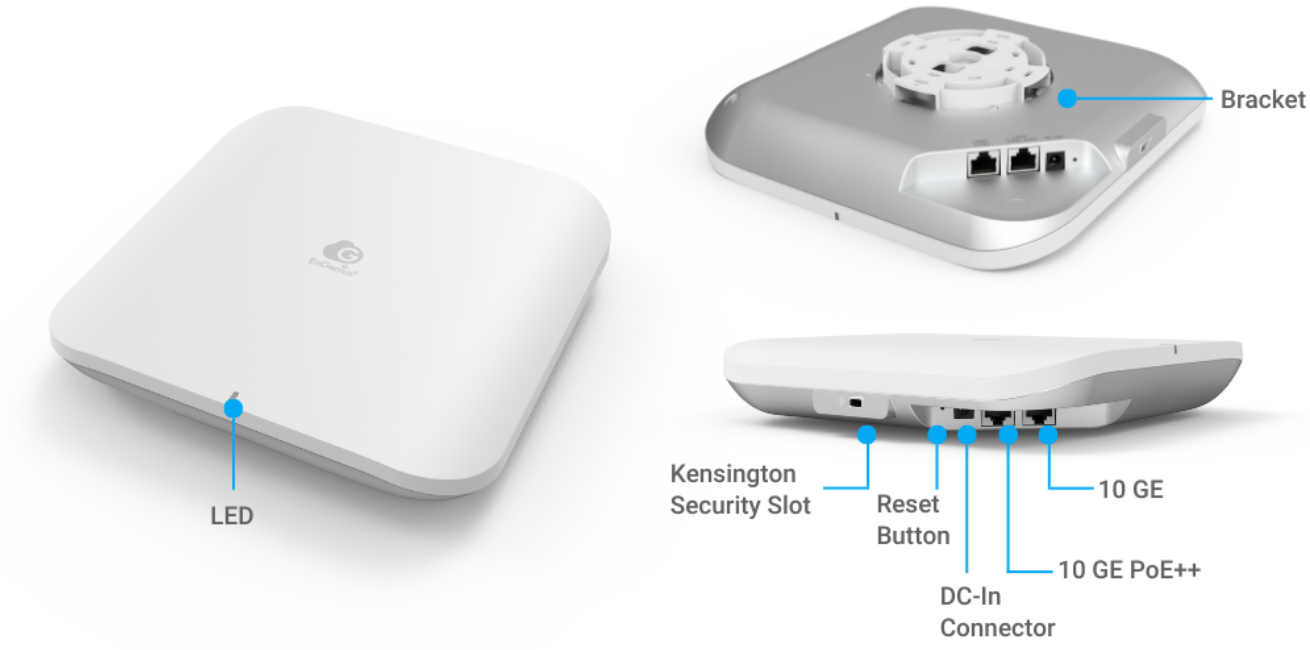
Network Requirements

Before you get started, please make sure your network environment is DHCP-enabled. EnGenius Cloud Access Points (ECW series) are default assigned an IP address dynamically by the DHCP server.

> If you encounter issues with IP address assignment, you may want to change your IP assignment from "**DHCP mode**" to "**Static IP**". Please check the "User Manual: Login to Local Access Page" for more details.

Hardware Overview

Ports



> **Reset Button:**
>
> - **Reset to default**: Press and hold the reset button for over **10** seconds, and the **LED(PWR)** will start *Fast Flashing* (0.2 sec). Then, the device will be reset to factory default settings.

LEDs

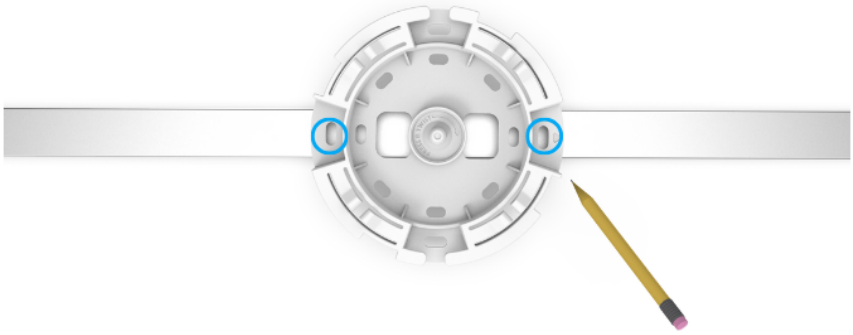
Status	LED Color/ Behavior
Connecting to Cloud	Orange Flashing (0.5 Sec)
Cloud Connected	Blue Solid on (5 Sec)
Firmware Upgrading	Blue Flashing (0.5 Sec) <---> White Flashing (0.5 Sec)
Reset to Default	Blue Fast Flashing (0.2 Sec)
LAN Connected	Blue Breathing (3 Sec)
2.4GHz Radio On	Yellow Breathing (3 Sec)
5GHz Radio On	Green Breathing (3 Sec)
6GHz Radio On	Purple Breathing (3 Sec)
AP Locating Mode	Blue Flashing (1.5 sec on -> 0.5 sec off)

Hardware Mounting

The access point can be mounted on the **Ceiling** and **Wall.** Please perform the steps for the appropriate installation:

Ceiling Mount

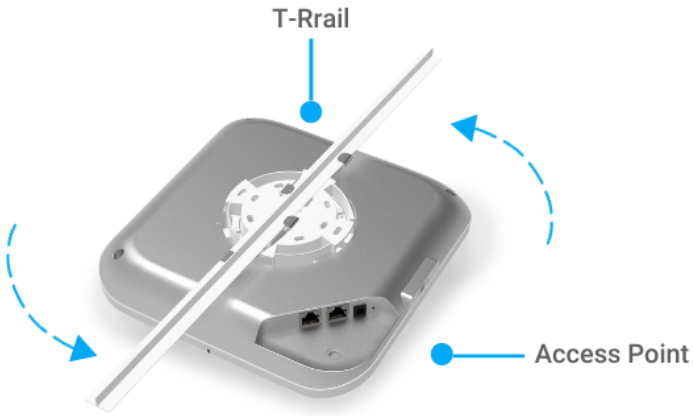
1. Use the outermost screw hole of the **Bracket** to mark the distance where the T-bar should be fixed on the **T-rail**.



2. Loosen the fixed screws on the T-bar with an L-wrench. Align the center screw hole of the T-bar with the position just marked on the **T-rail**, then tighten the fixed screws on the T-bar using the L-wrench.

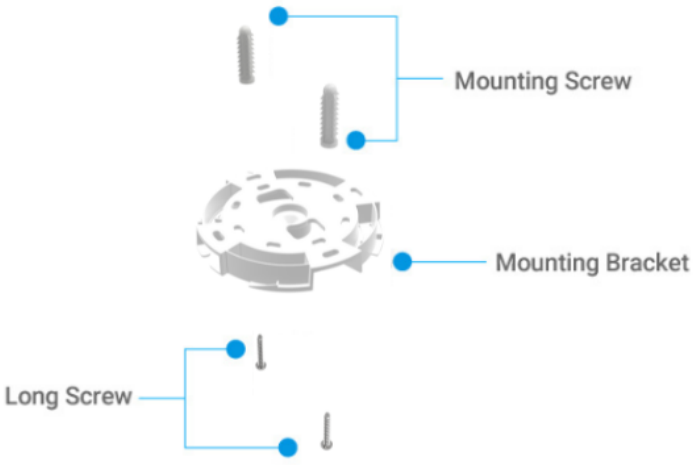
3. Use the **Short Screws** from the accessory to fix the **Bracket** onto the T-bar.

4. Mount the **Access Point** on the **Mounting Bracket** by rotating the unit clockwise about 45 degrees to secure it in place.



Dual Mount

1. Determine where the **Access Point** will be placed and attach the **Mounting Bracket** to the **Wall/ Ceiling** using the provided **Mounting Kit**.



2. Mount the **Access Point** on the **Mounting Bracket** by rotating the unit clockwise about 45 degrees to secure it in place.

Configure with EnGenius Cloud

Step1: Register Device and Assign to Network

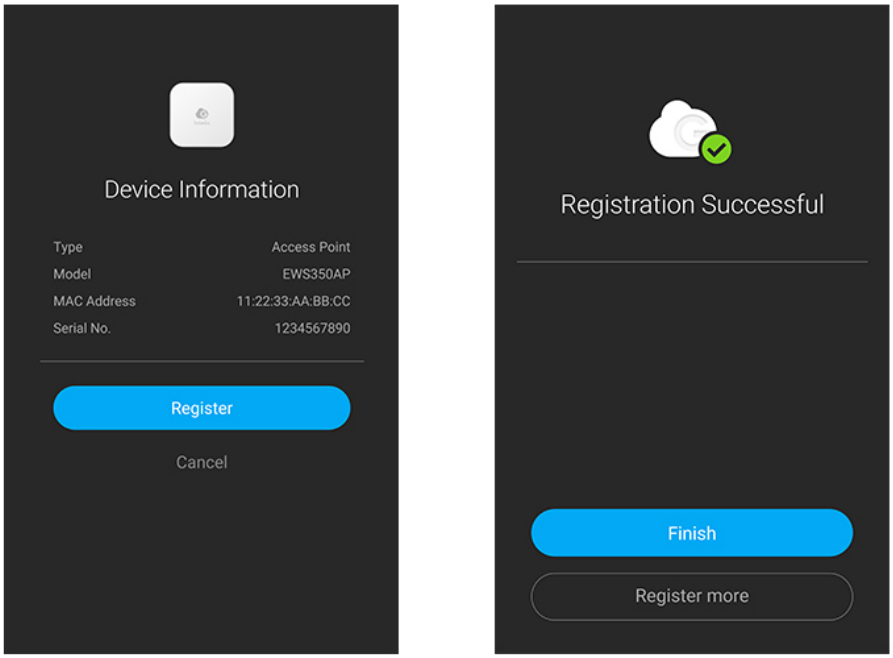
You can register the device either by the **Cloud To-Go mobile app** or the **EnGenius Cloud platform**.

Cloud To-Go Mobile App

1. Open and log in to the **EnGenius Cloud To-Go** mobile app.
2. Scan the QR code on the back of the device via the app.

Scan QR-code for device registration

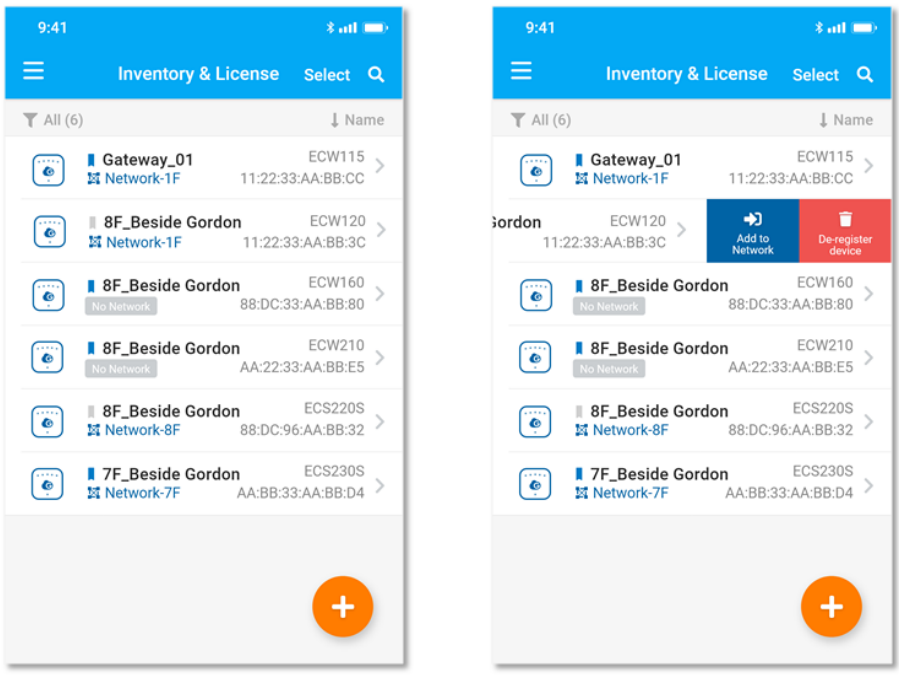
3. If the camera successfully scans a QR code, the app will display the device Information. You can tap "**Register**" to complete the Registration.



Device registration

4. Registered devices will be shown on the ***Inventory&License*** page. Slide left the device and click "**Add to Network**". Add the device to your personalized Network.

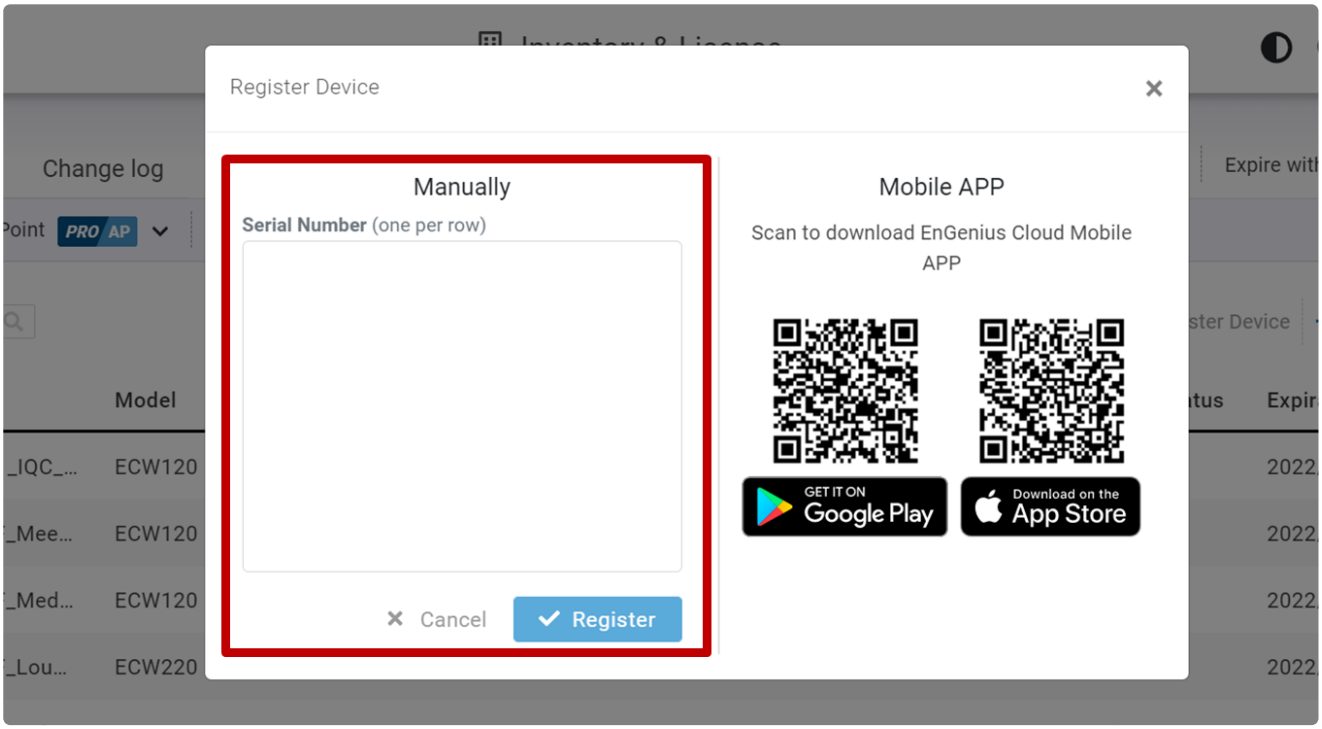
> **Network**: Management domain shared same configurations within EnGenius Cloud**.**



Assign device to a managed Network

EnGenius Cloud Platform

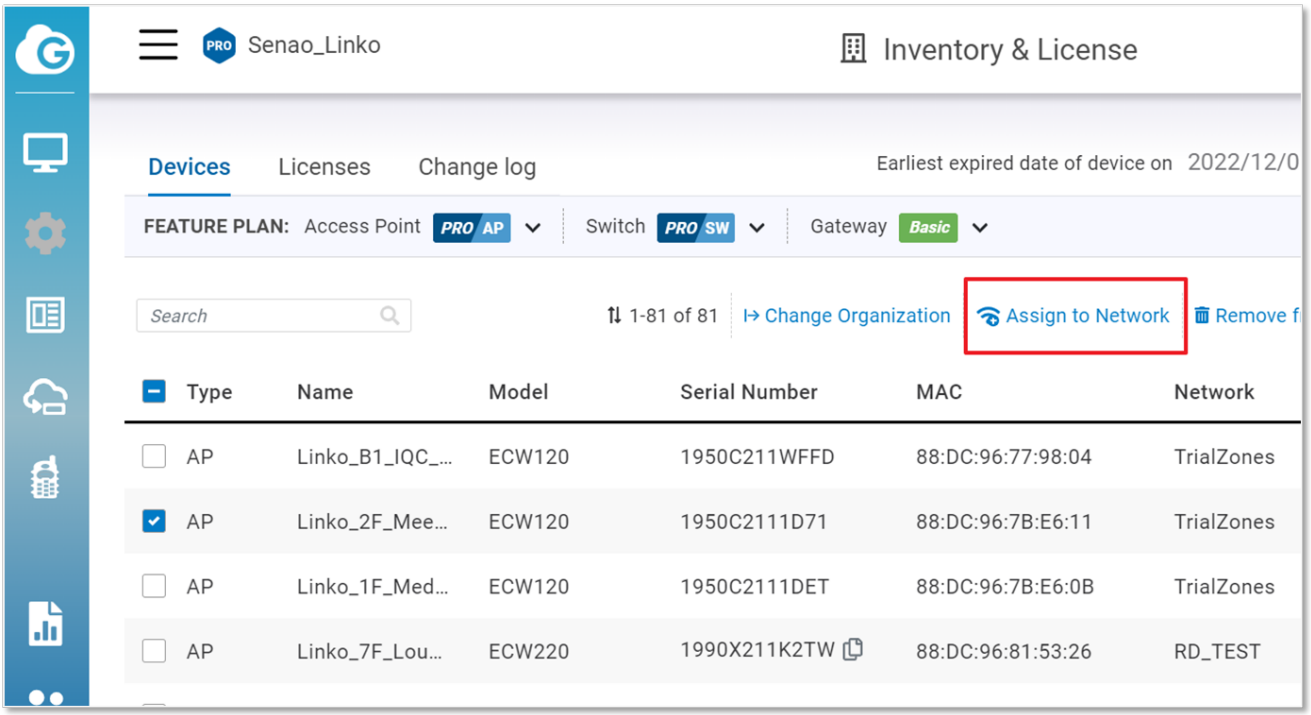
1. Log in to the **EnGenius Cloud Platform**: https://cloud.engenius.ai/.
2. Go to the ***home > Inventory&License*** page and click "**Register Device**".
3. Enter the **Serial Number** of the device(s) for device registration. Please refer to "User Manual-Registering Devices to Organization".



Register device(s) with device's Serial Number

4. Select the registered device and click "**Assign to Network**" to add the device to your personalized Network.

> **Network**: Management domain shared same configurations within EnGenius Cloud.



Assign selected device(s) to a managed Network

Step2: Power On Device

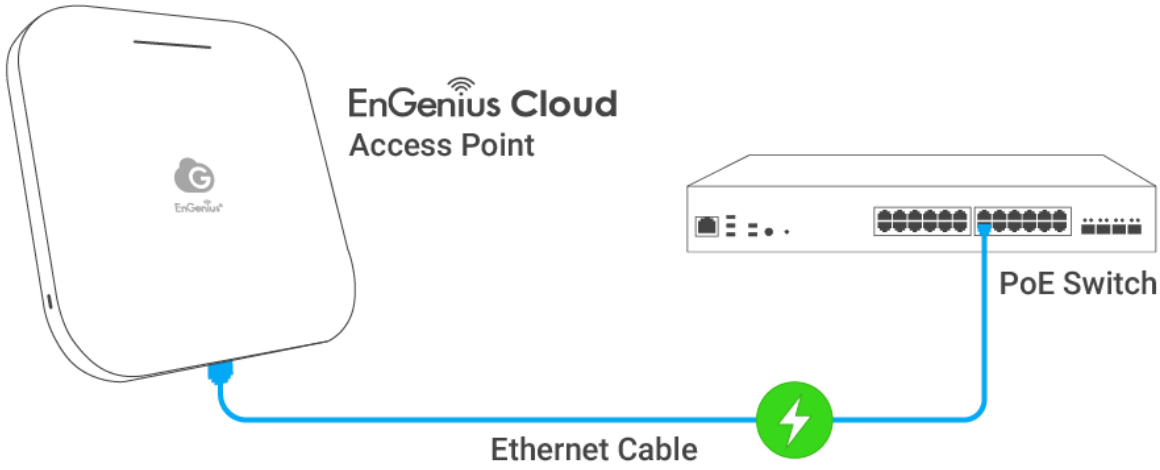
The EnGenius Cloud AP devices can be powered by any of the following:

- EnGenius Cloud PoE Switch or 802.3at/ 802.3bt PoE+ compliant Switch
- EnGenius PoE adaptor (EPA5060XBT)
- Power Adapter (DC 12V/3A power input)

> ⚠ Do not use both power sources at the same time.

Connecting to a PoE Switch

Connect the Ethernet cable from the EnGenius Cloud AP directly to the PoE port of the PoE switch.



AP is powered by a PoE Switch

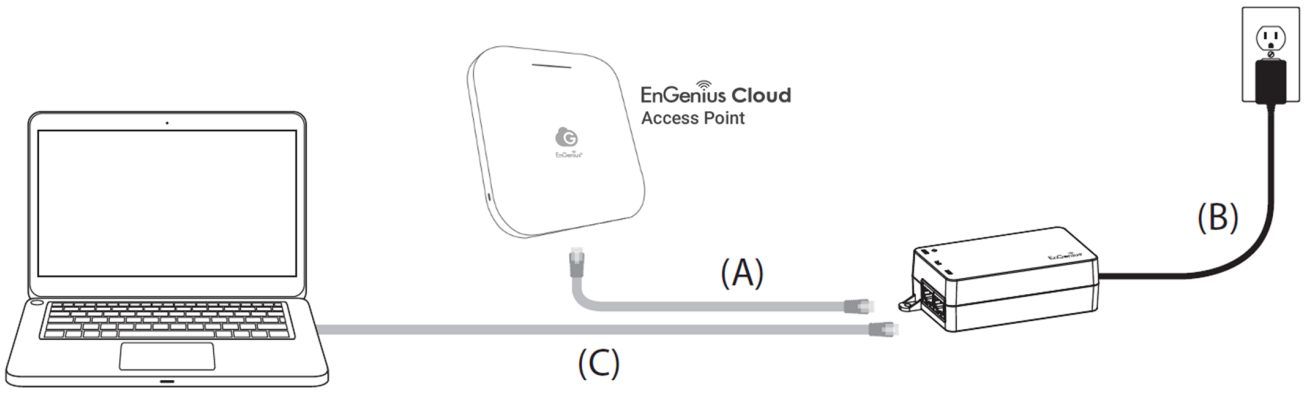
Powered with a PoE Adapter

(A) Connect one end of the Ethernet cable into the LAN (PoE) port of EnGenius Cloud AP and the other end to the PoE port on the PoE Adapter.

(B) Connect the power cord with the PoE Adapter and plug the other end into an electrical outlet.

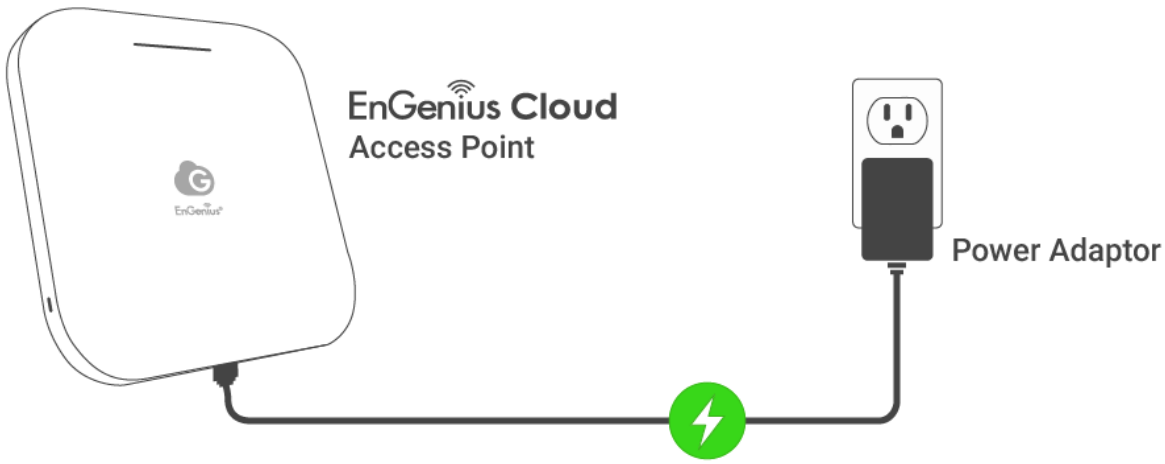
(C) Connect the second Ethernet cable into the LAN port of the PoE Adapter and the other end to the Ethernet port on the computer.

> Please ensure to use cat5/cat5e UTP/STP RJ45 Ethernet cables.



Powered with a Power Adapter

Connect the Power Cord to the adapter and then plug the Power Cord into the power outlet.



AP is powered with a power adapter

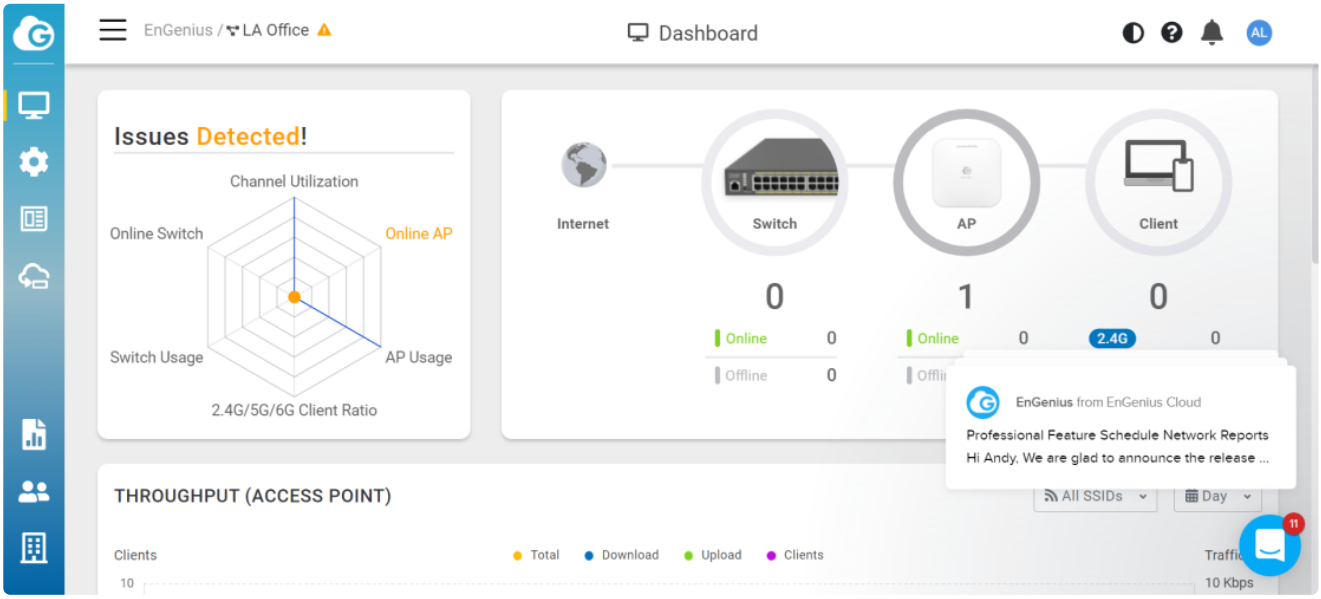
Step3: Connect to the EnGenius Cloud

Once the device is powered on and ready to connect to the Internet, the **LED indicator** will stay *Solid On*, which means the device is now connected to the EnGenius Cloud Platform. It will automatically download the default configuration settings from EnGenius Cloud for automated provisioning.

> When the Access Point is connected to the EnGenius Cloud Platform for the first time, it will automatically check the latest firmware version available. If the **firmware upgrade** is required, it might take **8-10 minutes** to complete. The **LED** indicator will be *Flashing (0.5 sec)* untill the process is finished.

Step4: Manage with the EnGenius Cloud

Log in to the **EnGenius Cloud platform** to configure detailed settings. For more information, please refer to User Manual.



EnGenius Cloud Dashboard

Troubleshooting

If the EnGenius Cloud Platform cannot manage your AP, there might be a problem with connecting to EnGenius Cloud.

To troubleshoot the connection issue, you may log in to the **Device Local Access** page:

1. Use your client device (e.g., a laptop, mobile device, or tablet) to find the SSID: "**EnMGMTxxxx**" (xxxx is the last four digits of MAC - MAC would be found on the back of the device) and connect to it.
2. Under your web browser, enter the URL **http://EnGenius.local** or **http://192.168.1.1** to access the device's user interface.
3. You can review the device status after logging into the AP with the default admin account/password (admin/admin).
4. Check the information on **Network Connectivity** and take action if necessary.

EnGenius

Device Status | Local Setting

Reboot | Reset

Device Overview

Name	ECW160	IP Address	192.168.2.122
Model	ECW160	MAC Address	88:DC:96:7E:FC:F3
Serial Number	1970CCE1KD15	Current Firmware	v1.2.9

Cloud Overview

Cloud Registration	YES
Date of Registration	2019/8/15 下午1:56:30
Last Update Time	2019/9/4 下午3:43:34

Network Connectivity

Local Network

Connected to local network successfully

- IP address:192.168.2.122
- Gateway:192.168.2.254
- Get from LAN DHCP

Internet

Connected to Internet successfully

EnGenius Cloud

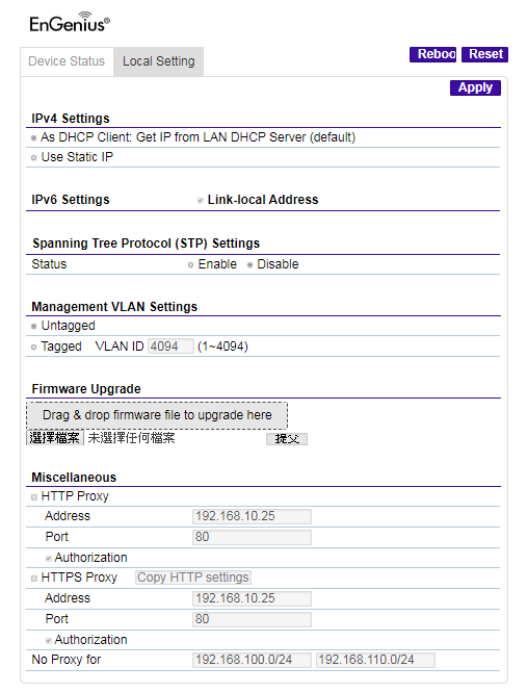
Connected to ezmCloud successfully

Device registered

Change IP Assignment Settings

By default, the EnGenius Cloud Access Point (ECW series) is assigned an IP address dynamically by the DHCP server. If you encounter issues with IP address assignment, please double-check the IP setting, including IP address, subnet mask, gateway, proxy, and management VLAN. If the issue still exists, you may change your IP assignment from "***DHCP mode***" to "***Static IP***" via the following procedure.

1. Go to the **Local Setting** section.
2. Change IPv4 settings to "***Use Static IP***".
3. Configure the ***IP address, gateway, subnet mask, and proxy*** settings.
4. Reconnect this device to the LAN network and try again.



For more details, please refer to the "User Manual-Troubleshooting ECW AP".

Appendix

Technical Support

Country of Purchase	Service Center	Service Information
North America	Los Angeles, USA	cloud.engenius.ai support@engeniustech.com
North America	Canada	cloud.engenius.ai support@engeniustech.com
Europe	Netherlands	support@engeniusnetworks.eu
Africa / CIS / Middle East	Dubai, UAE	support@engenius-me.com Local: (+971) 4 339 1227
Asia / Oceania	Singapore	techsupport@engeniustech.com.sg Local: (+65) 6227 1088
Taiwan	Taiwan, R.O.C	twsupport@engeniusnetworks.com

Compliance

FCC

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.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

(If device is outdoor AP, please delete it. If device is indoor AP, need to add it.)

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

For mobile device usage (>20cm/low power)

CE

The device complies with Directive 2014/53/EU issued by the Commission of the European Community.

Standards:

- ETSI EN 300 328 V2.2.2 (2019-07)
- ETSI EN 301 893 V2.1.1 (2017-05) Final Draft
- ETSI EN 303 687 V0.0.20 (2022-03)
- EN 55032:2015+A1:2020 EN 55035:2017/A11:2020 ETSI
- EN 301489-1 V2.2.3 (2019-11)
- ETSI EN 301 489-17 V3.2.4 (2020-09)
- EN 62368-1:2014+A11: 2017
- EN 62311: 2020

UKCA

The device is in conformity with the relevant legislation of United Kingdom: 2017 (S.I. 2017/1206)/ Regulations 2016 (S.I. 2016/1091)/ Regulations 2016 (S.I. 2016/1101).

Standards:

- EN 300 328 V2.2.2 (2019-07)
- EN 301 893 V2.1.1 (2017-05) Final Draft
- EN 303 687 V0.0.20 (2022-03)
- EN 55032:2015+A1:2020
- EN 55035:2017/A11:2020
- EN 301489-1 V2.2.3 (2019-11)
- EN 301 489-17 V3.2.4 (2020-09)
- EN 62368-1:2014+A11: 2017
- EN 62311: 2020
- IR 2030

IC

This device complies with ISED’s license-exempt RSS. 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.

Caution :

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(iv) where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

L’émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d’Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes :
1. L’appareil ne doit pas produire de brouillage;
2. L’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l’intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Declaration of Conformity

Hereby, EnGenius Networks declare that this product is in compliance with:

- Directive 2014/53/EU
- Regulations 2017 (S.I. 2017/1206)/ Regulations 2016 (S.I. 2016/1091)/ Regulations 2016 (S.I. 2016/1101)
- RoHS 2015/863
- WEEE 2022
- REACH Regulation

Compliance

FCC regulations restrict the operation of this device to indoor use only.
The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet in the 5.925-6.425 GHz band.
Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

Operation shall be limited to indoor use only.
leur utilisation doit être limitée à l'intérieur seulement.

Operation on oil platforms, automobiles, trains, maritime vessels and aircraft shall be prohibited except for on large aircraft flying above 3,048 m (10,000 ft).
leur utilisation à bord de plateformes de forage pétrolier, d'automobiles, de trains, de navires maritimes et d'aéronefs doit être interdite, sauf à bord d'un gros aéronef volant à plus de 3 048 m (10 000 pi) d'altitude.

Devices shall not be used for control of or communications with unmanned aircraft systems.
Les dispositifs ne doivent pas être utilisés pour commander des systèmes d'aéronef sans pilote ni pour communiquer avec de tels systèmes.

The transmitter module may not be co-located with any other transmitter or antenna.
Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

Warning: FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 47 cm between the radiator and your body.

This equipment complies with CE
radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with minimum distance 27 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 27cm de distance entre la source de rayonnement et votre corps.