IAP2701A QSG

Cloud7 2x2x2

Cloud Managed Wi-Fi 7 2 2 2 Indoor Access Point (IAP2701A)

Introduction

This Quick Start Guide is designed to guide you through the installation of the Cloud7 2 2 2 Access Point, model IAP2701A, including hardware mounting and configuration.

Cloud7 2x2x2

Cloud Managed Wi-Fi 7 2x2x2 Indoor Access Point

Model: IAP2701A

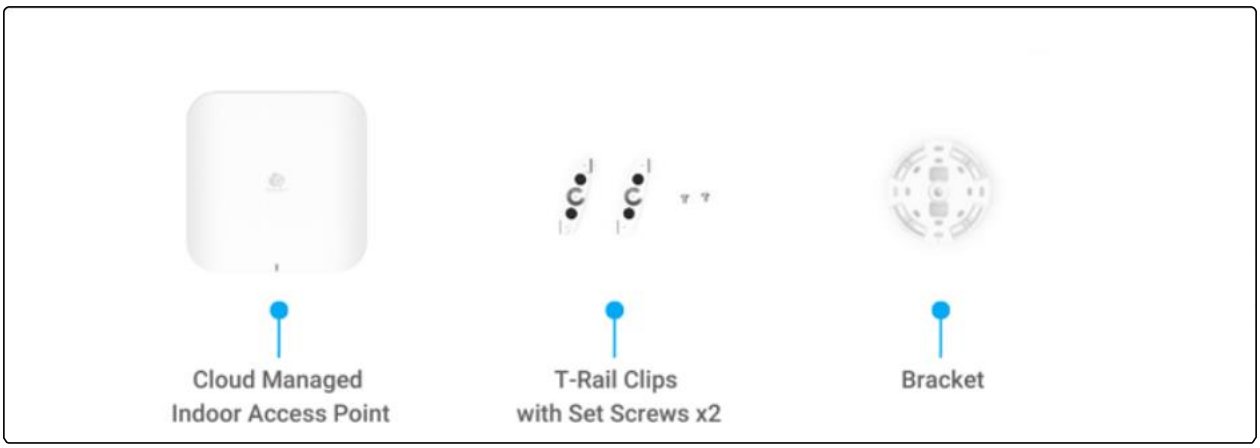
Wi-Fi 7 technology for high-performance Wi-Fi in high-density, multi-device environments.

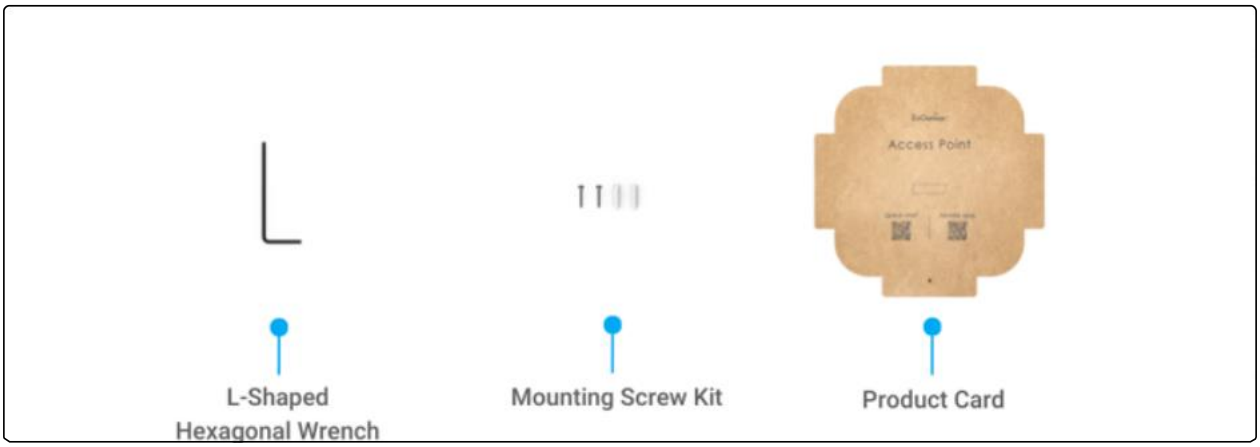
Supercharged speeds up to 5,800 Mbps on 6 GHz, 2,900 Mbps (5 GHz), and up to 700 Mbps (2.4 GHz).

10 GbE realizes greater throughput and supports 802.3at and 60W PoE injector 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)

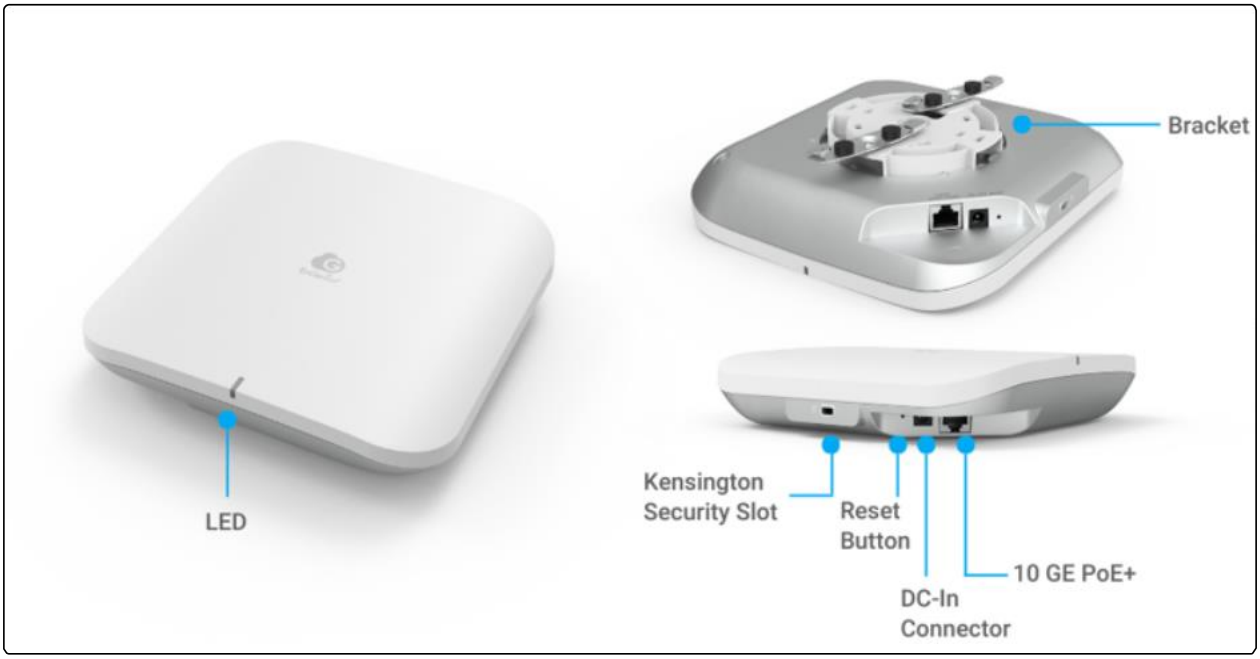
Network Requirements

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

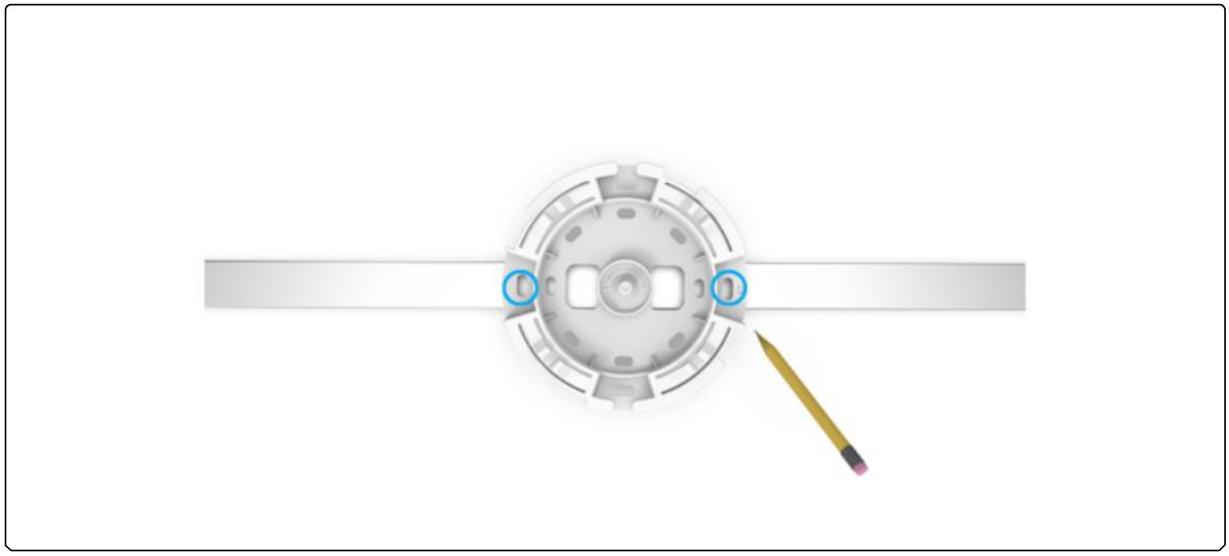
Status	LED Color/ Behavior
Connecting to Cloud	Orange Flashing (0.5 Sec)
Cloud Connected	Blue Solid on (5 Sec)
Firmware Upgrading	Blue Flashing (0.5 Sec) <---> White Flashing (0.5 Sec)
Reset to Default	Blue Fast Flashing (0.2 Sec)
LAN Connected	Blue Breathing (3 Sec)
2.4GHz Radio On	Yellow Breathing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

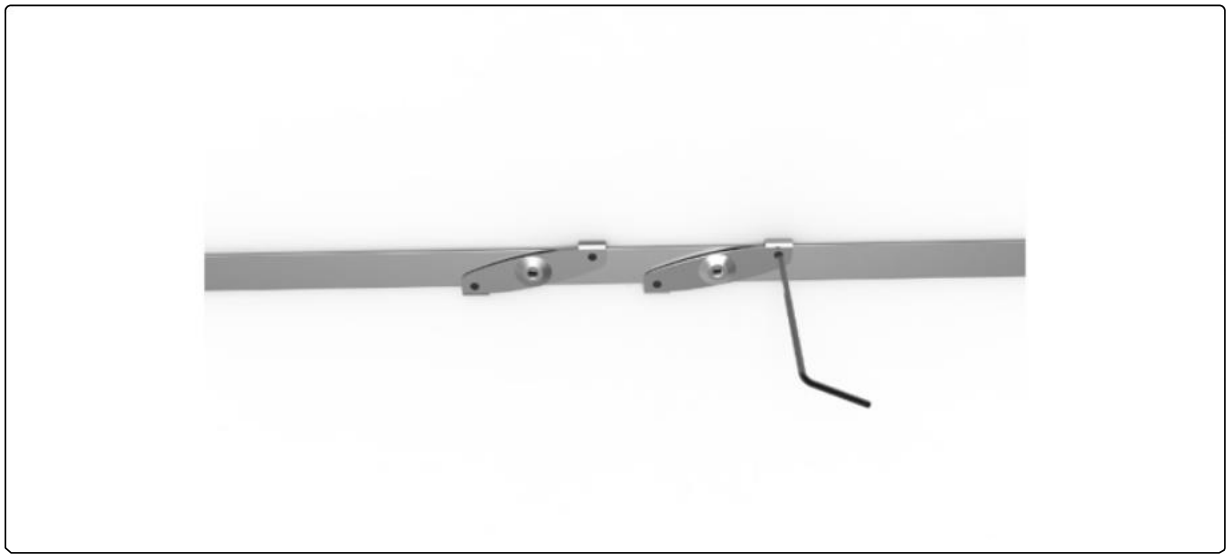
The access point can be mounted on the Ceiling and Wall. Please perform the steps for the appropriate installation:

Ceiling Mount

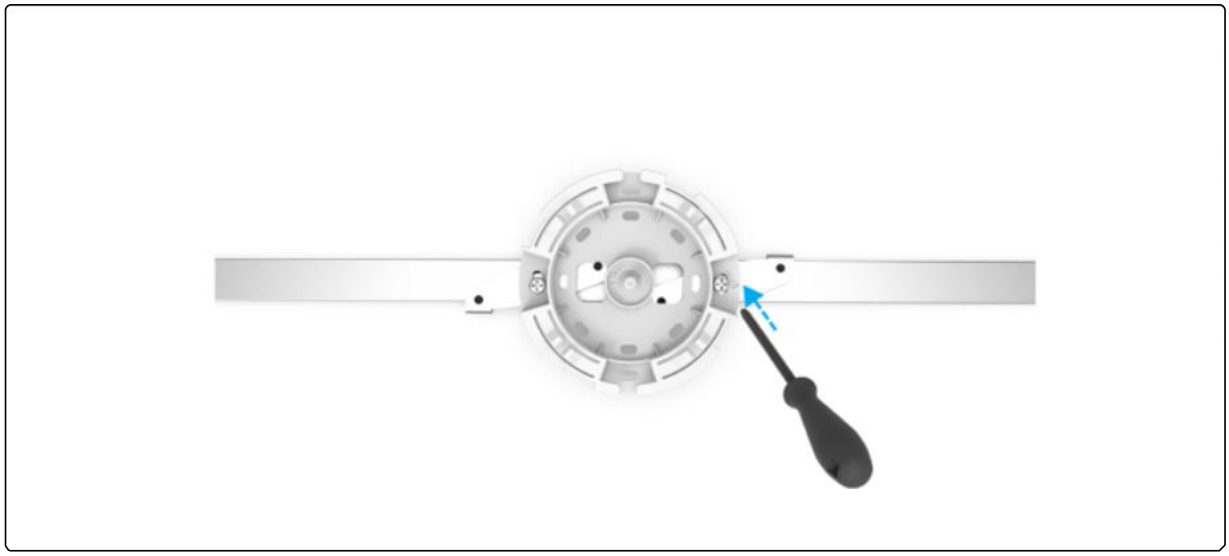
Use the outermost screw hole of the Bracket to mark the distance where the T-bar should be fixed on the T-rail.



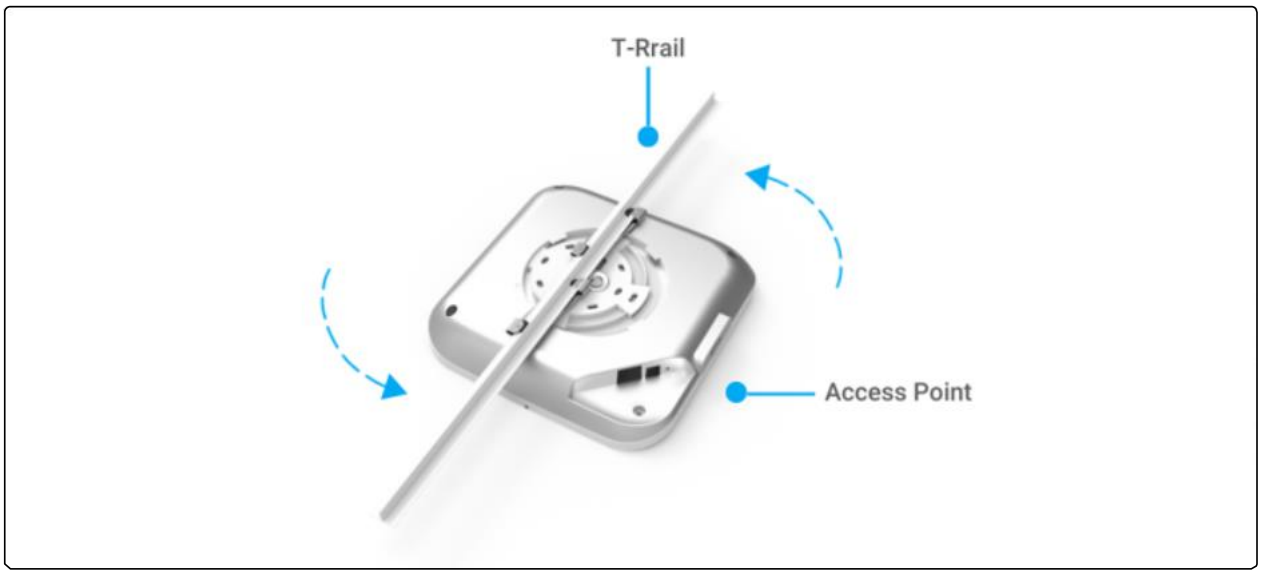
Loosen the fixed screws on the T-bar with an L-wrench. Align the center screw hole of the T-bar with the position just marked on the T-rail, then tighten the fixed screws on the T-bar using the L-wrench.



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

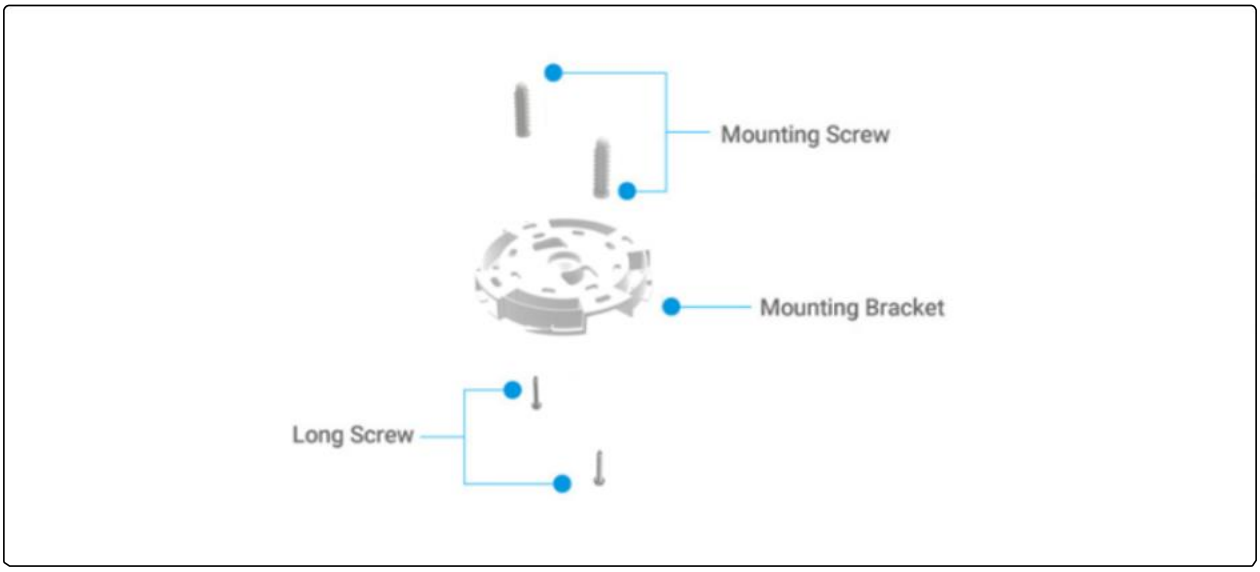


Mount the Access Point on the Mounting Bracket by rotating the unit clockwise about 45 degrees to secure it in place.



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.

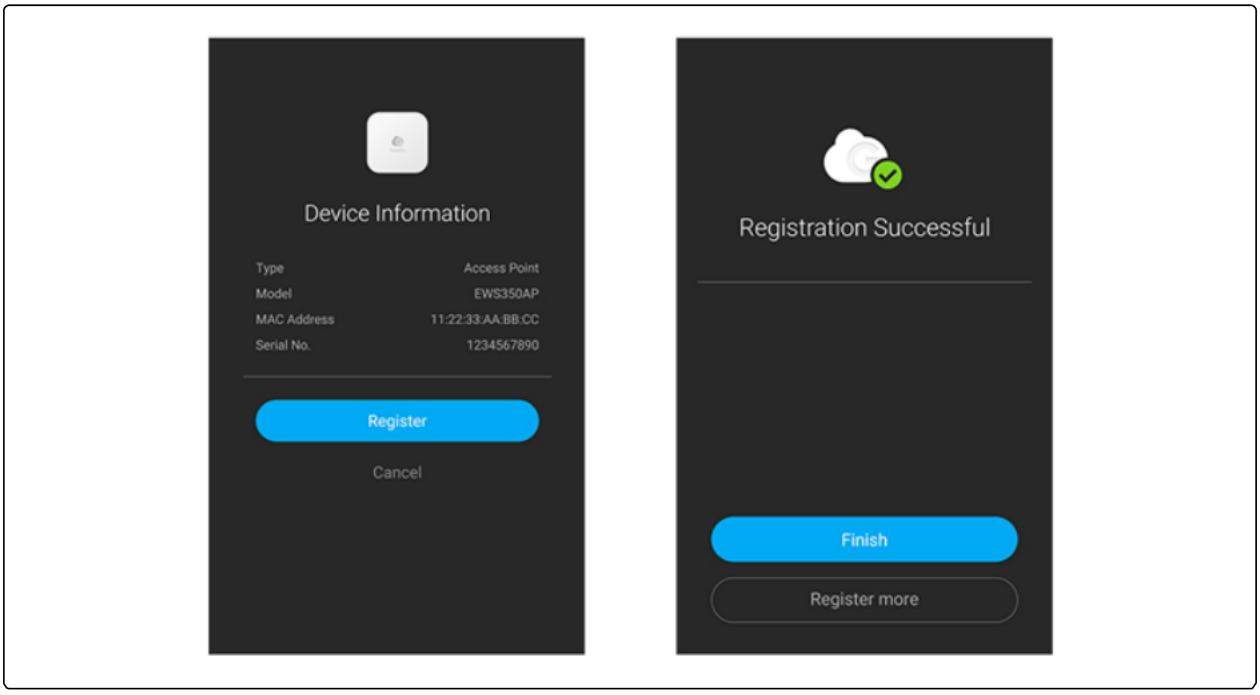
Cloud To-Go Mobile App

Open and log in to the EnGenius Cloud To-Go mobile app.

Scan the QR code on the back of the device via the app.

Scan QR-code for device registration

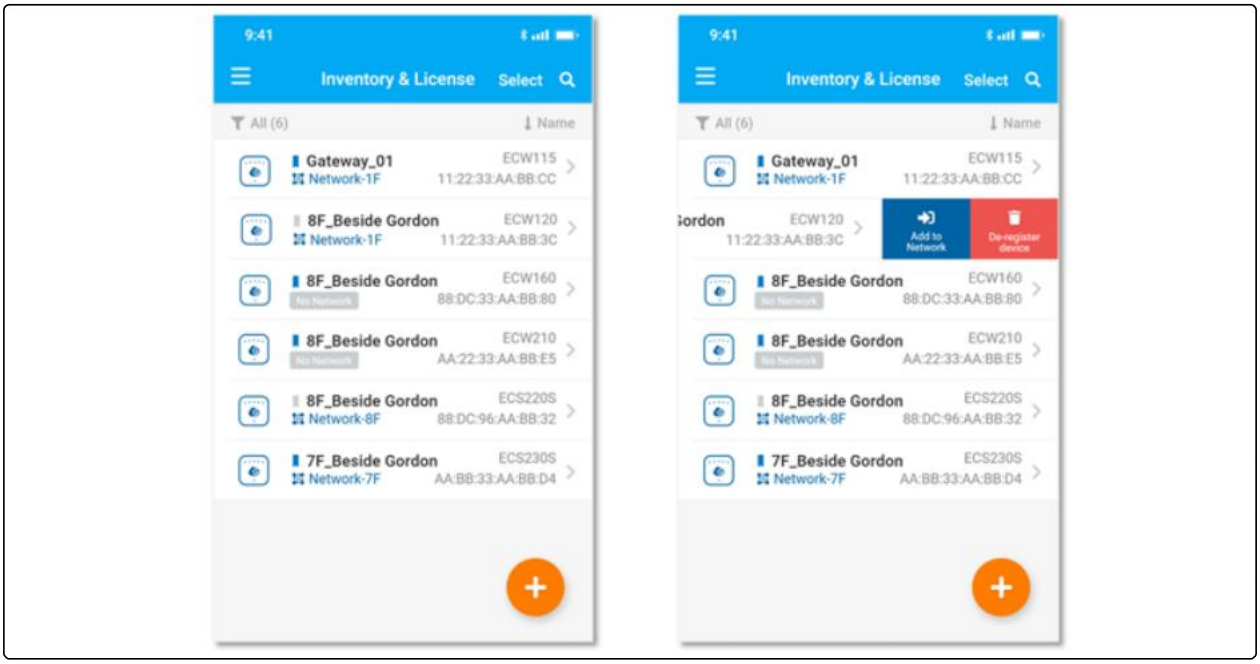
3. If the camera successfully scans a QR code, the app will display the device Information. You can tap "Register" to complete the Registration.



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.



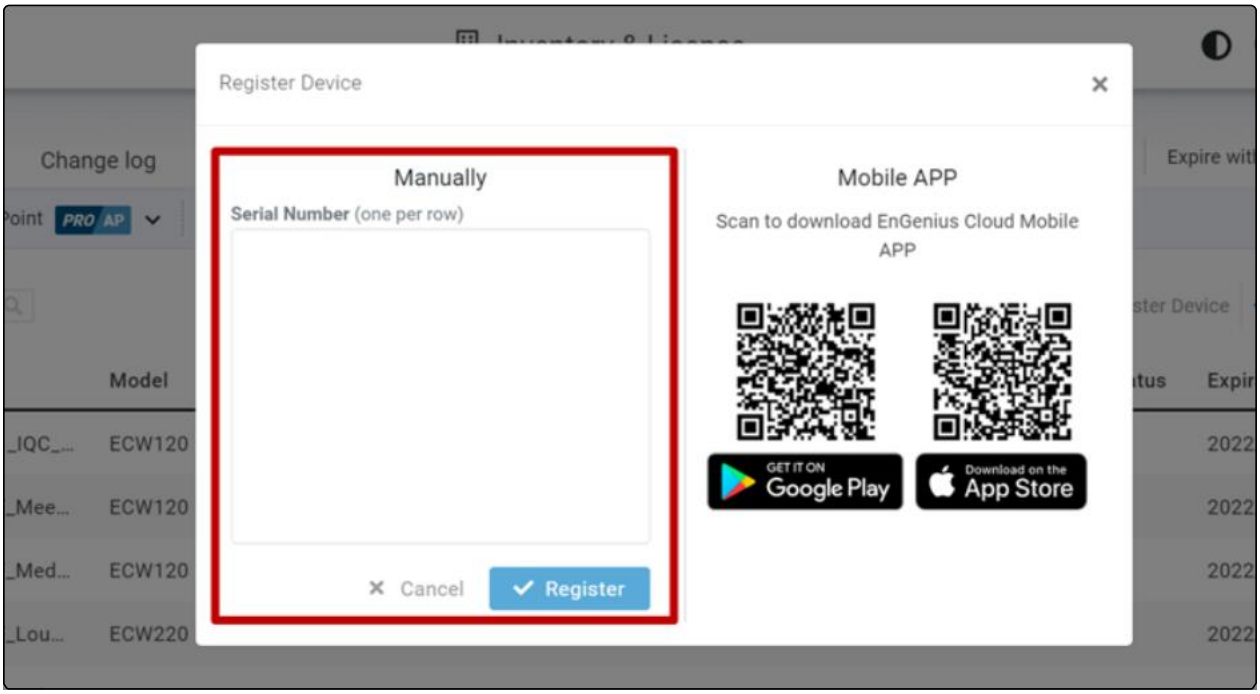
Assign device to a managed Network

EnGenius Cloud Platform

Log in to the EnGenius Cloud Platform: https://cloud.engenius.ai/.

Go to the *home* > *Inventory&License* page and click "Register Device".

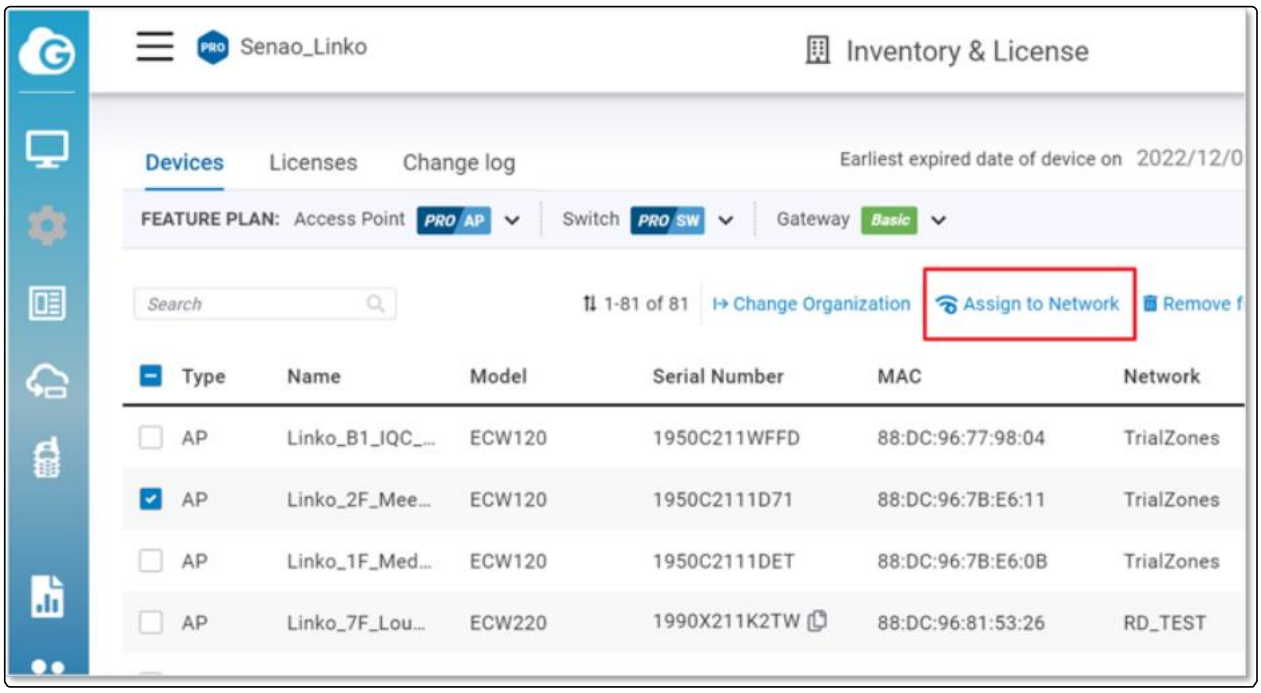
Enter the Serial Number of the device(s) for device registration. Please refer to "User Manual-Registering Devices to Organization".



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

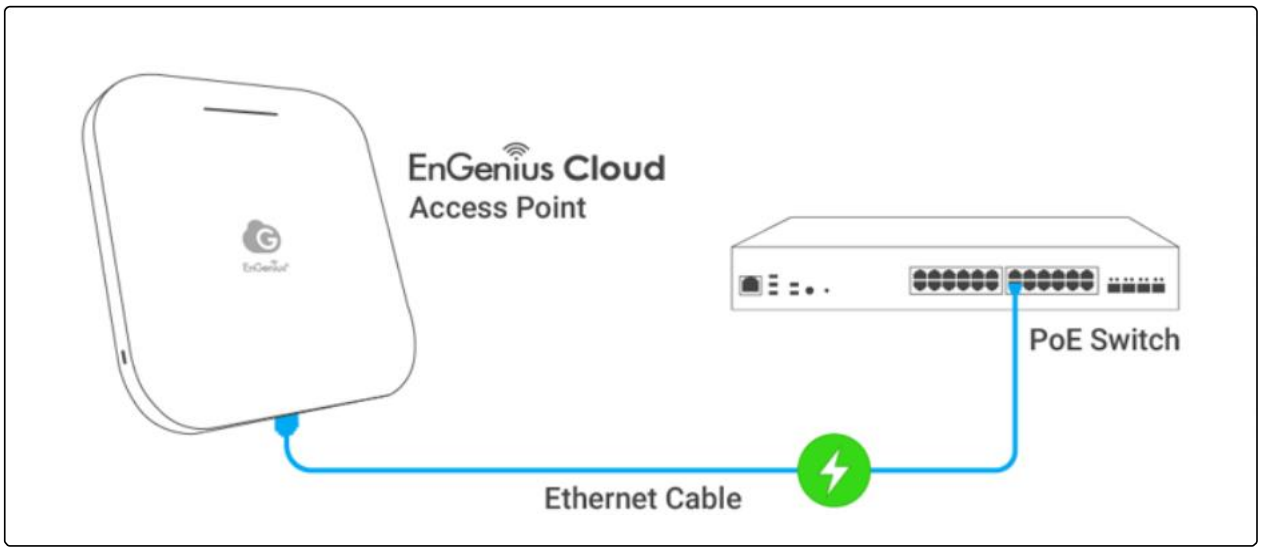
The EnGenius Cloud AP devices can be powered by any of the following:

- EnGenius Cloud PoE Switch or 802.3af/ 802.3at PoE+ compliant Switch
- EnGenius PoE adaptor (EPA5006GP/EPA5006GAT)
- Power Adapter (DC 12V/2A 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.



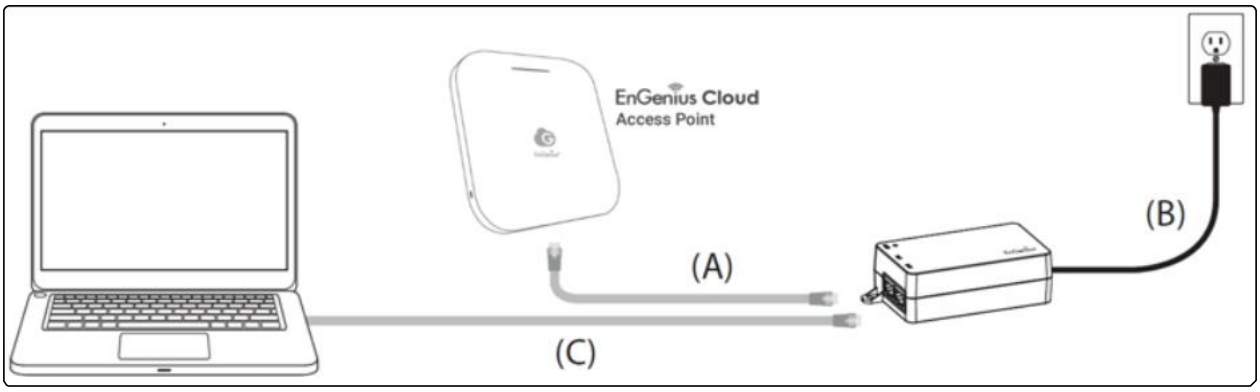
AP is powered by a PoE Switch

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.

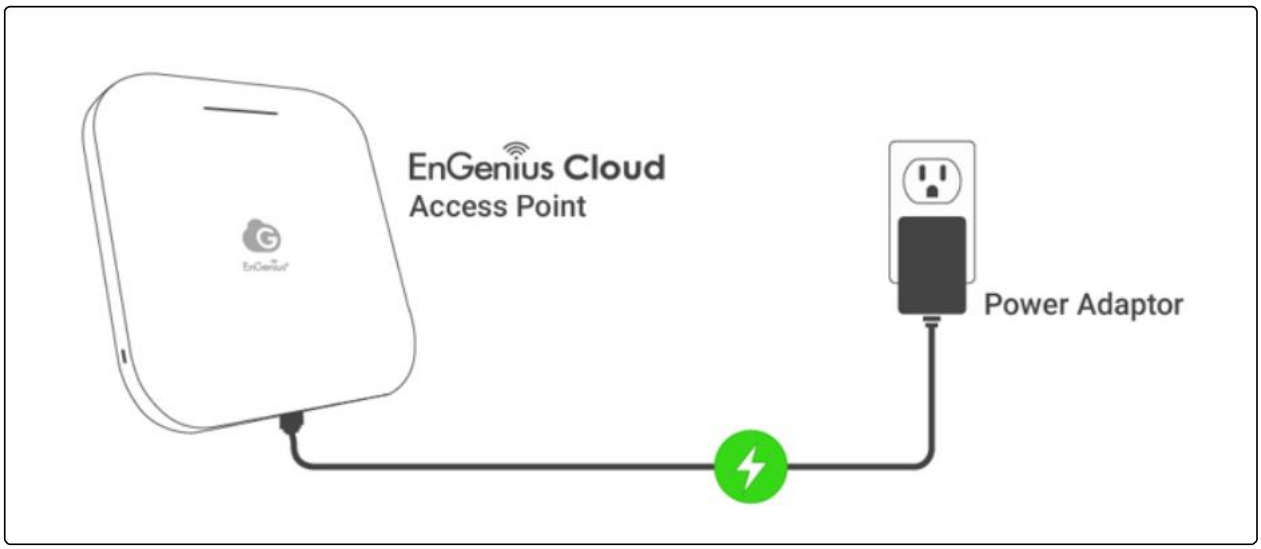
(B) Connect the power cord with the PoE Adapter and plug the other end into an electrical outlet. (C) Connect the second Ethernet cable into the LAN port of the PoE Adapter and the other end to the Ethernet port on the computer.

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

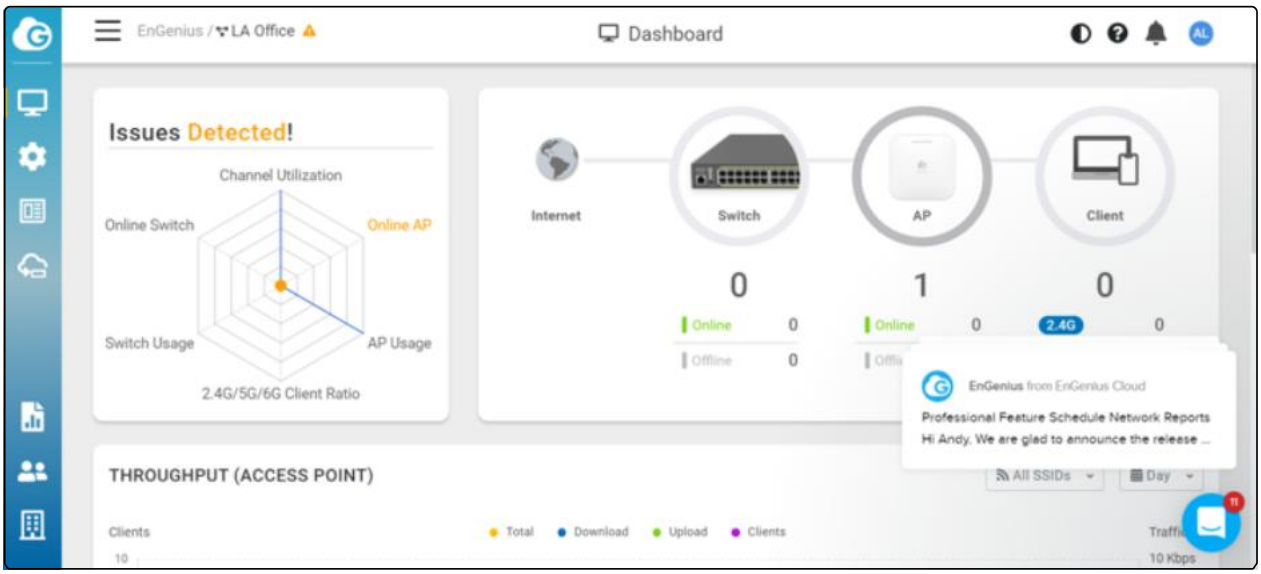
Step3: Connect to the EnGenius Cloud

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.

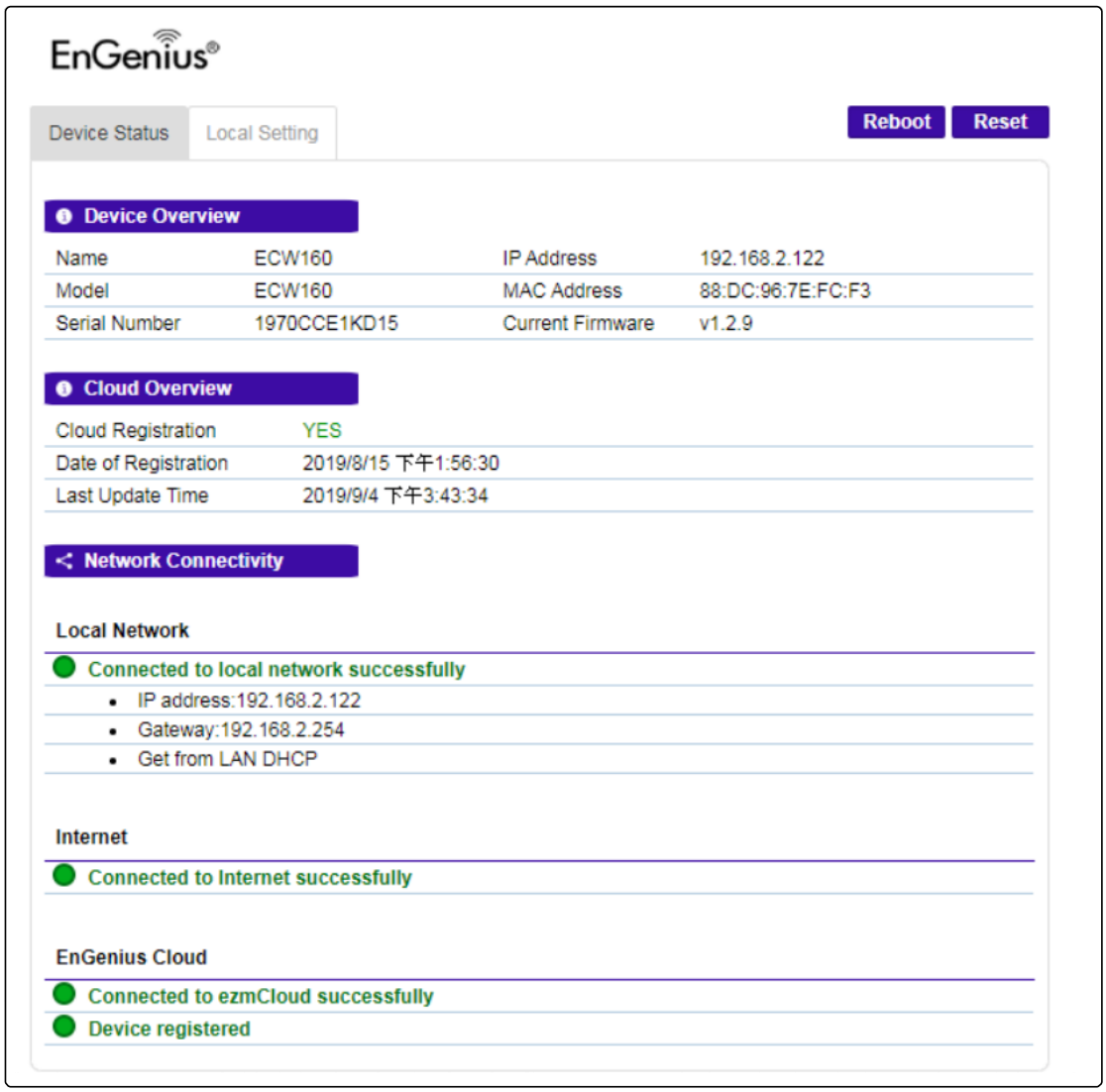
To troubleshoot the connection issue, you may log in to the Device Local Access page:

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.

Under your web browser, enter the URL http ://EnGenius.local or http://192.168.1.1 to access the device's user interface.

You can review the device status after logging into the AP with the default admin account/password (admin/admin).

Check the information on Network Connectivity and take action if necessary.



ECW AP's Local Access Page

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.

Go to the Local Setting section.

Change IPv4 settings to "*Use Static IP*".

Configure the *IP address, gateway, subnet mask, and proxy* settings.

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
	Netherlands	
Europe Africa / CIS / Middle East	Dubai, UAE	support@engeniusnetworks.eu 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 o 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 di erent 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 of this device is indoor use only; the 5.150 - 5.250GHz band are restricted to indoor usage only. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

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.

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 20cm between the radiator & your body.

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

Disclaimer/ Note

Maximum data rates are based on the IEEE standards. Actual throughput and range may vary depending on many factors including environmental conditions, the distance between devices, radio interference in the operating environment, and the mix of devices in the network.

Features and specifications are subject to change without notice.

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.