



# EnGenius Fit Wi-Fi 6 2x2 Outdoor Wireless Access Point

Quick Start Guide

## Introduction

This Quick Start Guide is designed to guide you through the installation of the Fit 2x2 access point, model EWS850-FIT, including hardware mounting and configuration.

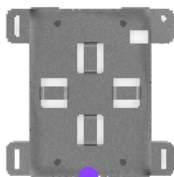
### Model: EWS850-FIT

- Wi-Fi 6 technology for high-performance Wi-Fi in high-density, multi-device environments.
- Two spatial streams support up to 1,200 Mbps (5GHz) & 574 Mbps (2.4GHz).
- Multiple applications for cloud and on premises solutions.

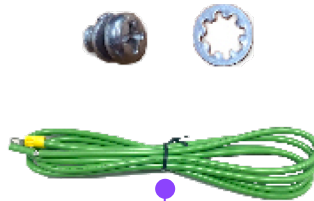
## Package Contents



FIT Bridge Outdoor Access Point



Mounting Bracket



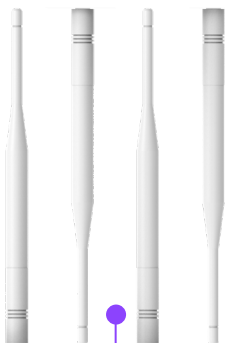
Ground Wire & Screw Set



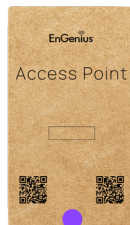
Mounting Screw Kit x2



Pole Mounting Strap x2



Detachable Antenna:  
2.4GHz Antenna x2  
5GHz Antenna x2



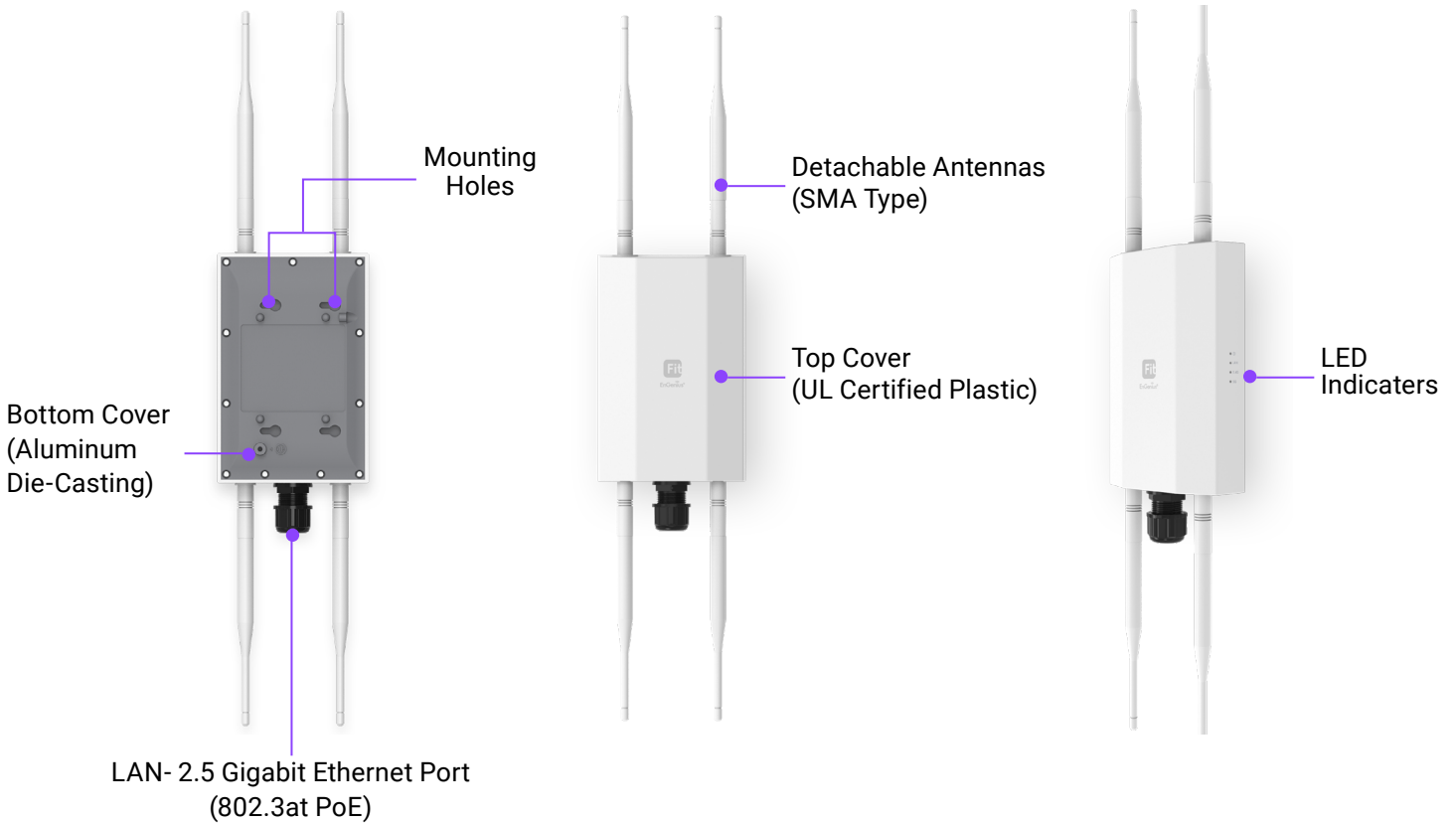
Product Card

## System Requirements

### Web Browser

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

## Hardware Overview



### Reset Button:

**Reset to default:** Press and hold the reset button on the PoE adaptor for over 60 seconds, and the LED (PWR) will start Fast Flashing (0.2 sec). Then, the device will be reset to factory default settings.

## LEDs

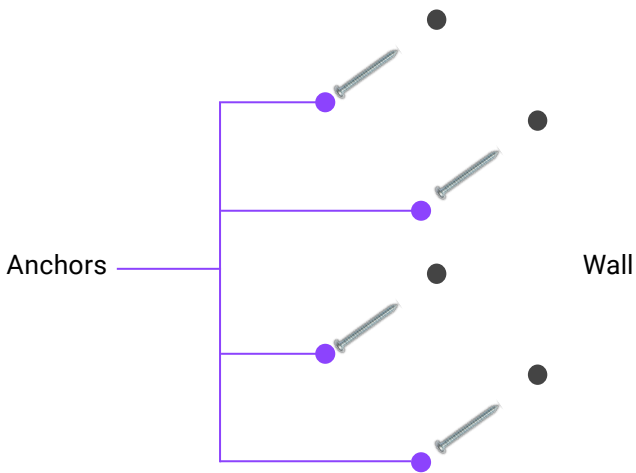
STATUS	LED COLOR	LED BEHAVIOR
Connecting to the management (FitXpress/FitController)	PWR (Orange)	Flashing (0.5 Sec.)
Management Connected (FitXpress/FitController/Standalone)	PWR (Orange)	Solid On
LAN Connected	LAN (1G) LAN (2.5G)	Solid On
LAN Transmitting	LAN (1G) LAN (2.5G)	Flashing
2.4GHz Radio On	2.4GHz (Green)	Solid On
2.4GHz Transmitting	2.4GHz (Green)	Flashing
5GHz Radio On	5GHz (Green)	Solid On
5GHz Transmitting	5GHz (Green)	Flashing
Firmware Upgrading	PWR LAN 2.4GHz 5GHz	Flashing (0.5 Sec.)
Reset to Default	PWR (Orange)	Fast Flashing
AP Location Mode	PWR LAN 2.4GHz 5GHz	Flashing (1.5 Sec. on ->0.5 Sec. off)

## Hardware Mounting

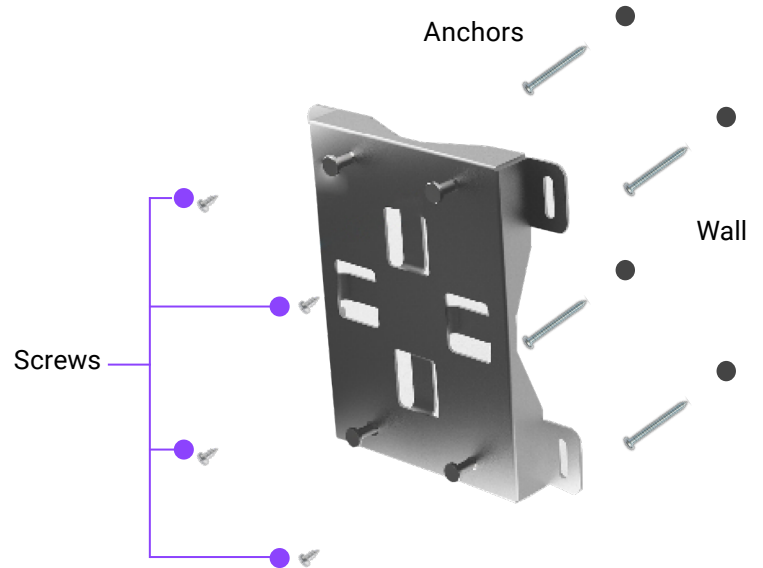
The access point can be mounted on the Wall and Pole, and please perform the steps for the appropriate installation.

### Wall Mount

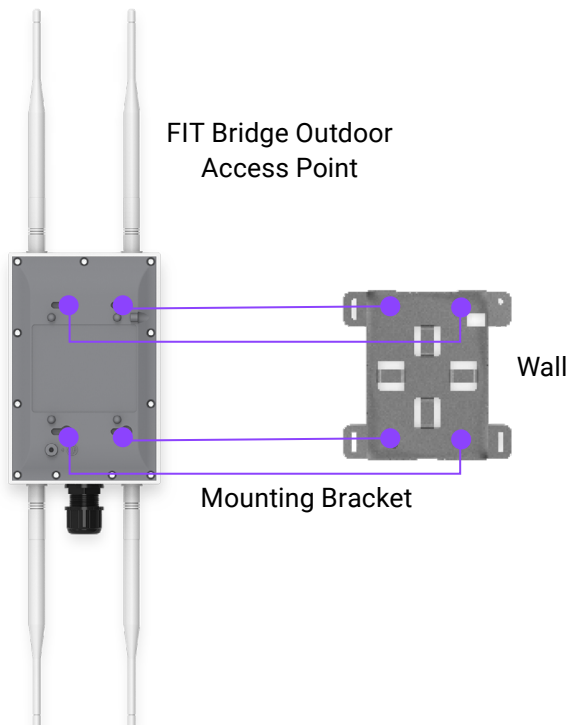
1. Determine where the **Access Point** will be placed and mark the location on the surface for the two mounting holes. Use the appropriate drill bit to drill two 8.1mm diameter and 26mm-deep holes on the marks.
2. Screw the **Anchors** into the holes until they are flush with the wall.



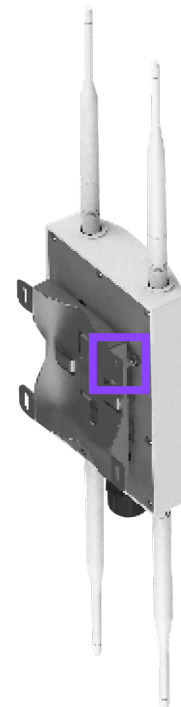
3. Fasten the **Mounting Bracket** with the included **Screws** into the **Anchors**.



4. Hang the **Access Point** against the wall on the **Mounting Bracket**.



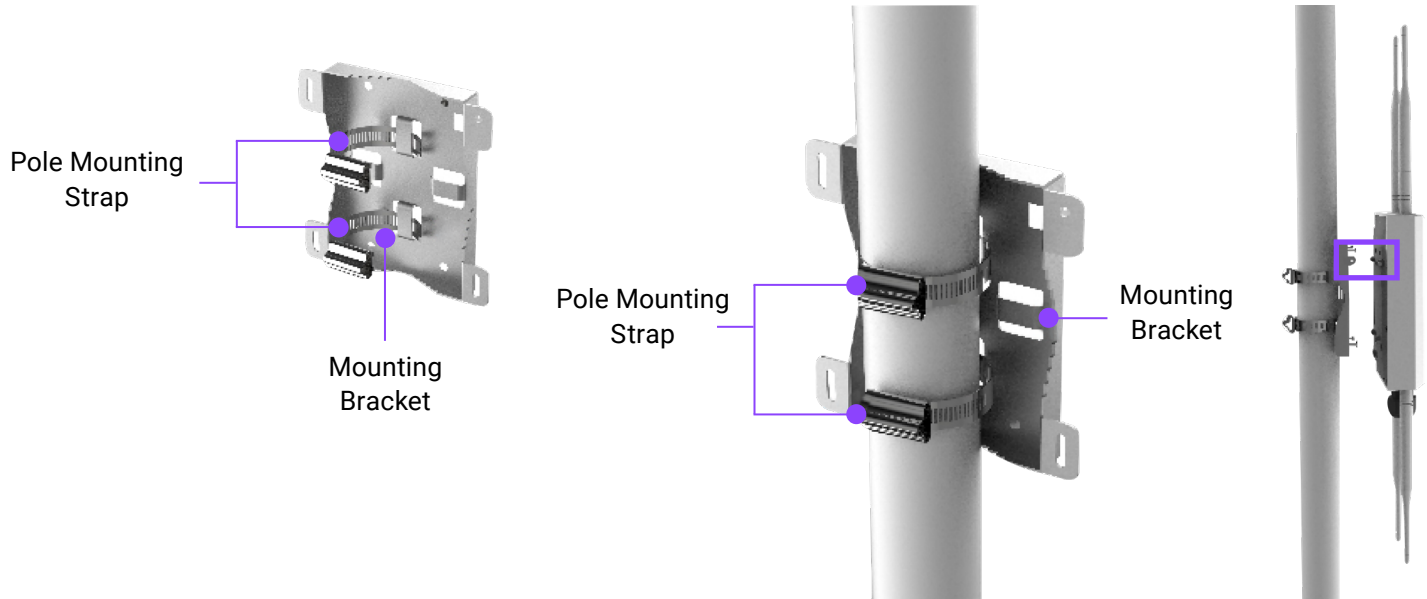
5. Secure the **Access Point** on the **Mounting Bracket** with the secure lock on the side.



## Pole Mount

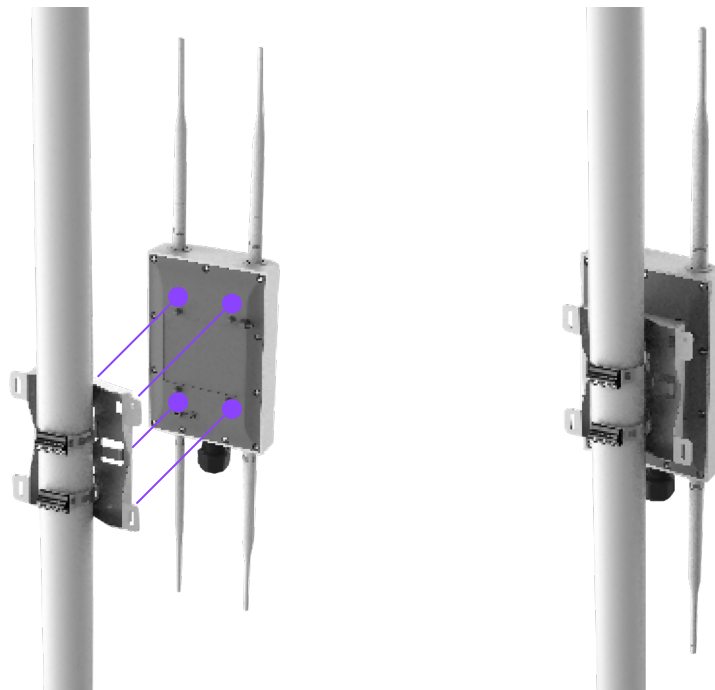
1. Thread the open end of the **Pole Mounting Strap** through the two tabs on the **Mounting Bracket**.

2. Lock and tighten the **Pole Mounting Strap** to secure the **Mounting Bracket** onto the pole.



3. Hang the **Access Point** onto the **Mounting Bracket**.

4. Secure the **Access Point** on the **Mounting Bracket** with the secure lock on the side.



# Powering EnGenius Fit AP

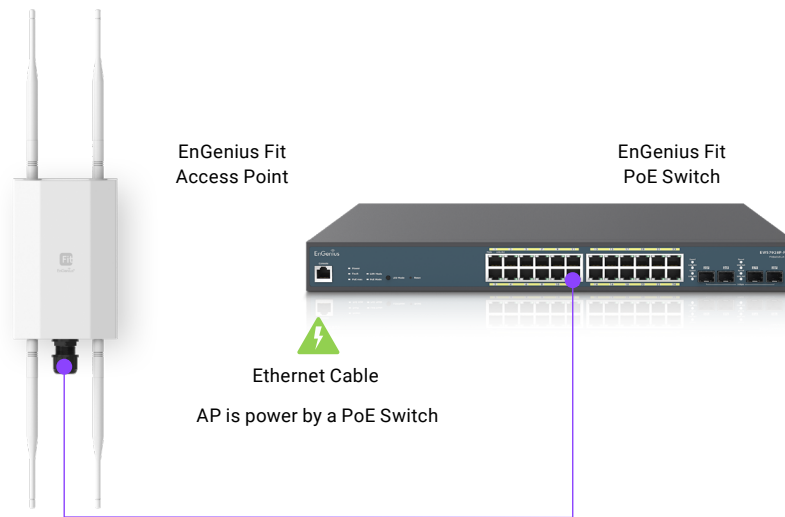
EnGenius Fit AP devices can be powered by any of the following:

- EnGenius Fit PoE switches or 802.3af/ 802.3at PoE+ compliant switches
- EnGenius PoE Injector (EPA5006GR)

**Caution:** Do not use both power sources at the same time.

## Connecting to a PoE Switch

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



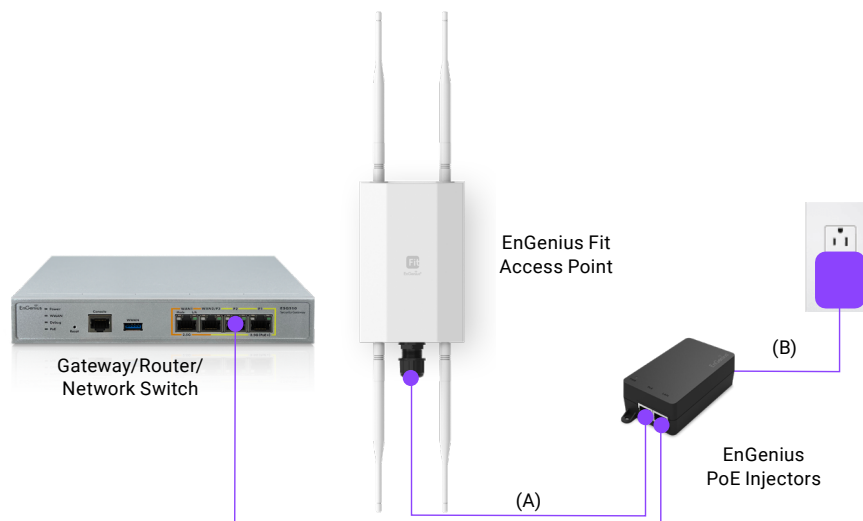
## Powering with a PoE Injector

(A) Connect one end of the Ethernet cable into the LAN (PoE) port of EnGenius FIT 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 to the network.

**Note:** Please make sure to use Cat6 RJ45 Ethernet cables.



## Management Plane

EnGenius Fit provides flexible options to manage your devices based on your network planning and deployment.

Option A: Cloud Management

Option B: On-Premises Management

Option C: Standalone Configuration

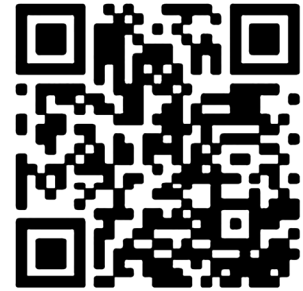
## Cloud Management

Manage and monitor the Access Point through the FitXpress Platform with a mobile app or through the web portal.

FitXpress App (iOS/ Android)

[Download the FitXpress mobile app App Store click here](#)

[Download the FitXpress mobile app Google Play click here](#)



Scan to download FitXpress app

## On-Premises Management

If you want to manage the device in on-premises mode, you need an onsite management station running the FitController connected to the same Layer 2 network.

### FitController

FitController is a custom-built appliance with optimized network management software installed to ease onsite deployment without manual server configurations.

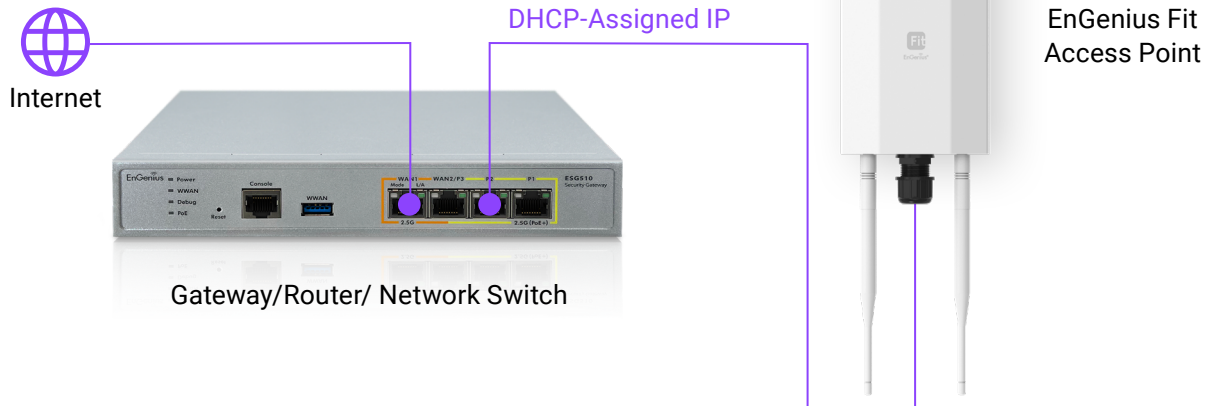
## Standalone Configuration

Using your computer, you can connect to the same network (subnet) as the Access Point and use the web browser to access the device's local web GUI page for configurations whenever the device is set to Standalone mode.

## Option A: Cloud Management with FitXpress

### Step 1: Connecting Ethernet

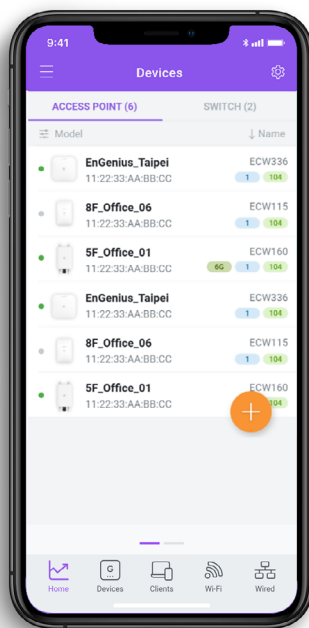
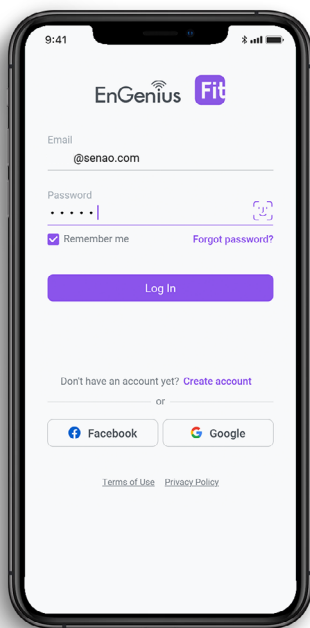
Connect the Ethernet cable from the EnGenius Fit AP directly to the DHCP-enabled network and make sure the AP can reach the Internet.



### Step 2: Register Device

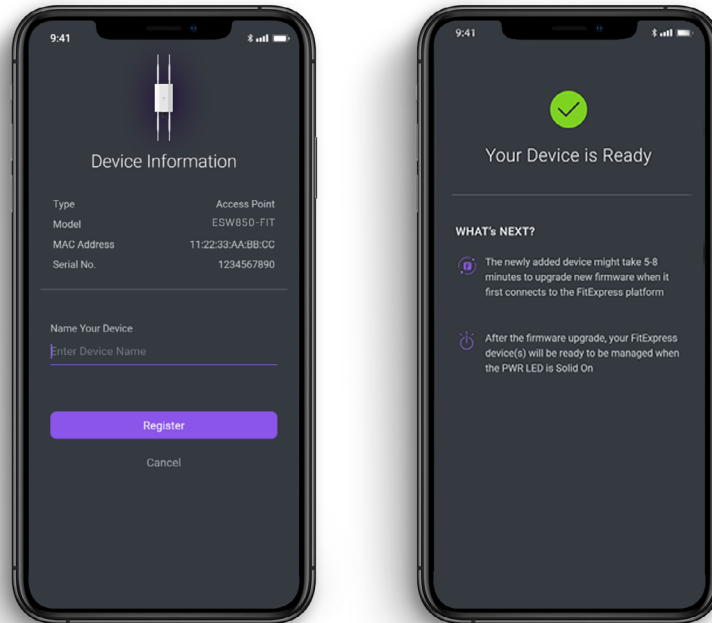
You can register the access point with the FitXpress app.

1. Open the FitXpress mobile app and create an account.
2. Login and go to the Devices section. Click the Add (+) button.
3. Scan the QR code on the back of the device via the app.



Scan QR-code for device registration

4. If the camera successfully scans the QR code, the app will display the device information. You can tap “Register” to complete the registration.



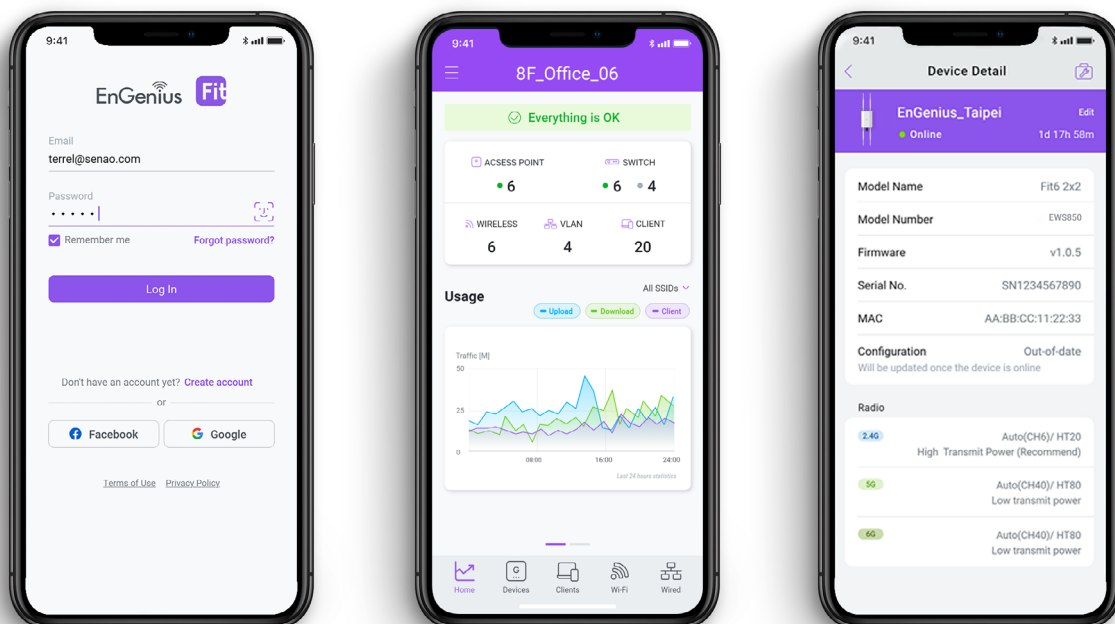
### Step 3: Connect to FitXpress

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

When the Access Point is connected to the FitXpress Platform for the first time, it will automatically check the latest firmware version available. If a firmware upgrade is required, it might take 8~10 minutes to complete the process. All LED indicators will be Flashing (0.5 sec) till the process is finished.

### Step 4: Manage with the FitXpress

Log in to the FitXpress app to configure detailed settings and monitor your devices.

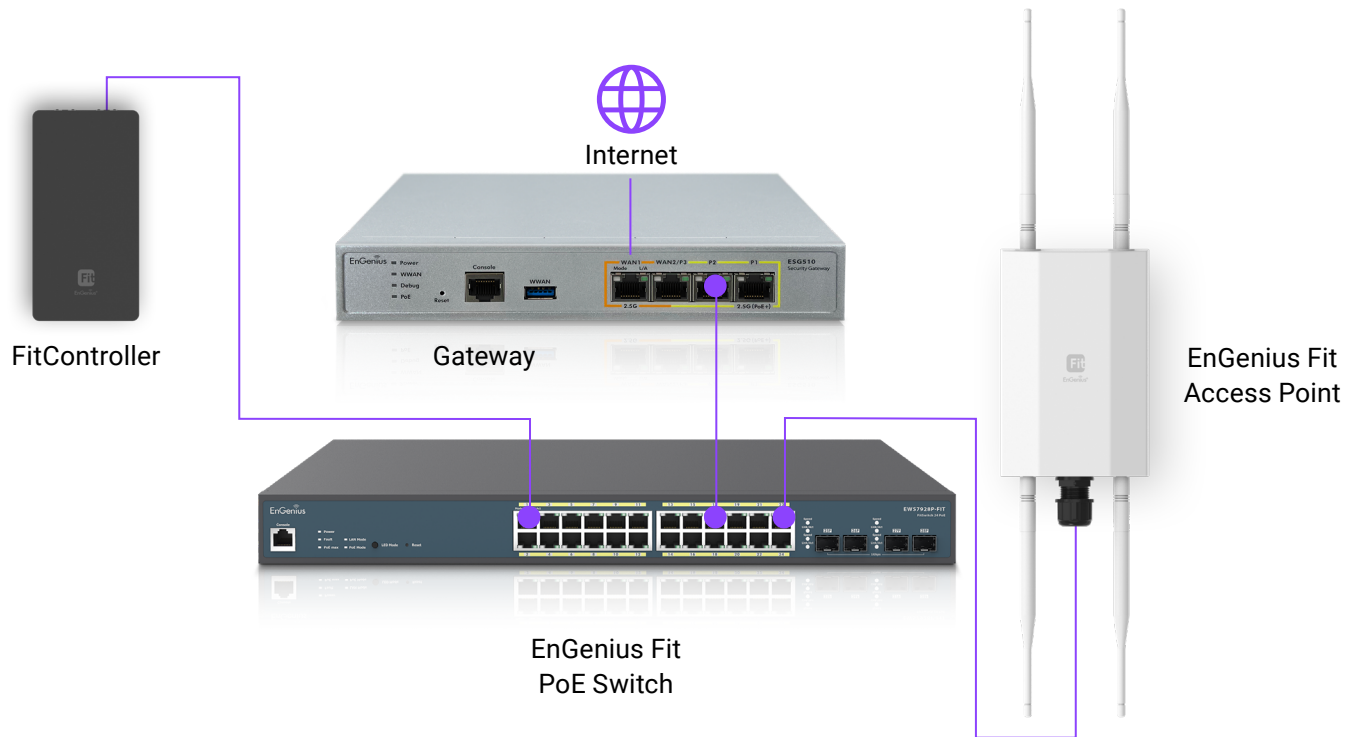




## Option B: On-premises Management with FitController

### Step 1: Connecting Ethernet

Connect the Ethernet cable from the EnGenius Fit AP directly to the DHCP-enabled network, which is the same Layer-2 network as FitController.



### Step 2: Log in to the FitController

Launch your web browser to access the login page of FitController and create an account. Enter the email address and password that you created and click Sign In.

The FitController default IP address in DHCP client mode will get an IP address (e.g. X.X.X.X:8080) from the DHCP server. If FitController cannot get an IP address from the DHCP server, the default IP address will be 192.168.1.250:8080.



Don't have an account? [SIGN UP](#)

Sign in to FitCon100

Email

Password

[Forgot Password?](#)

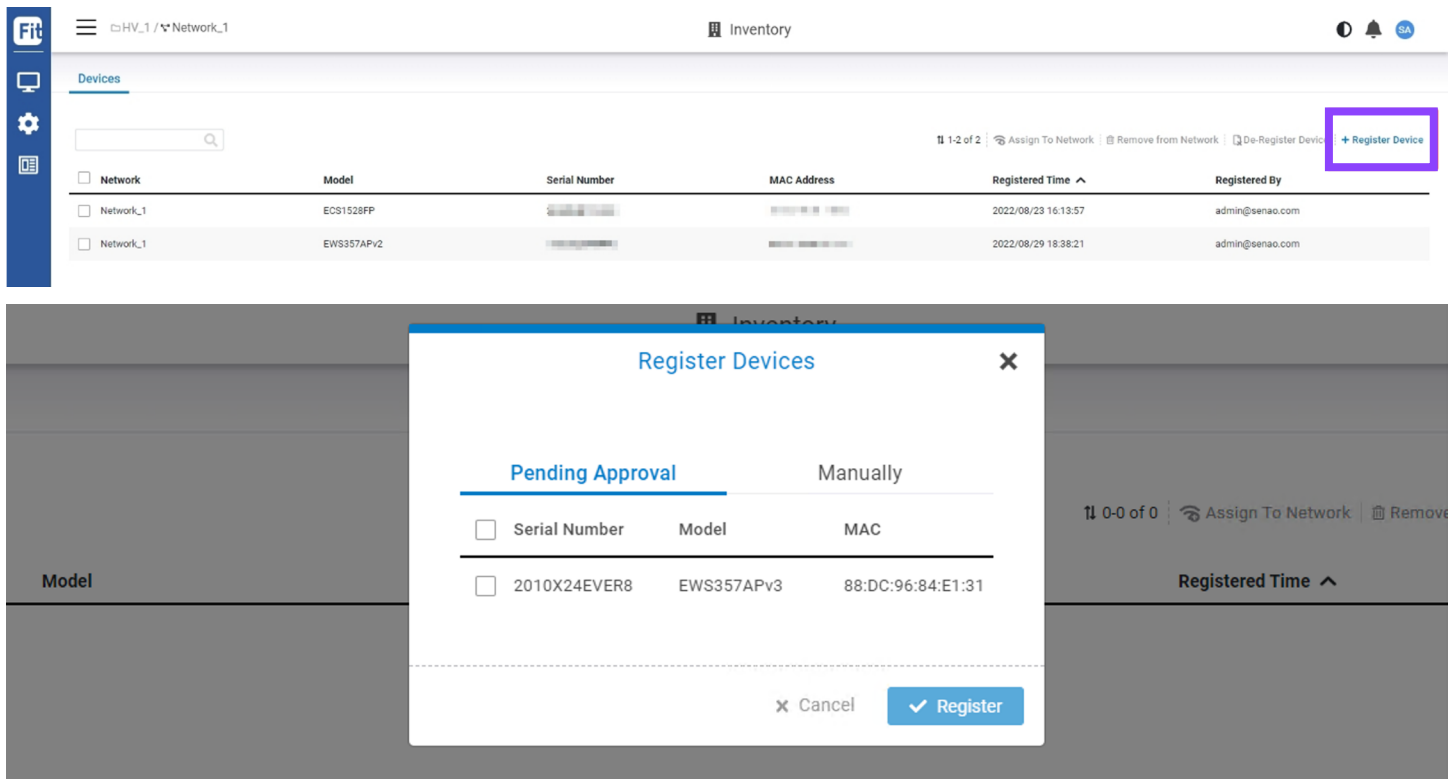
[SIGN IN](#)

v0.0.21

©2022 EnGenius Technologies

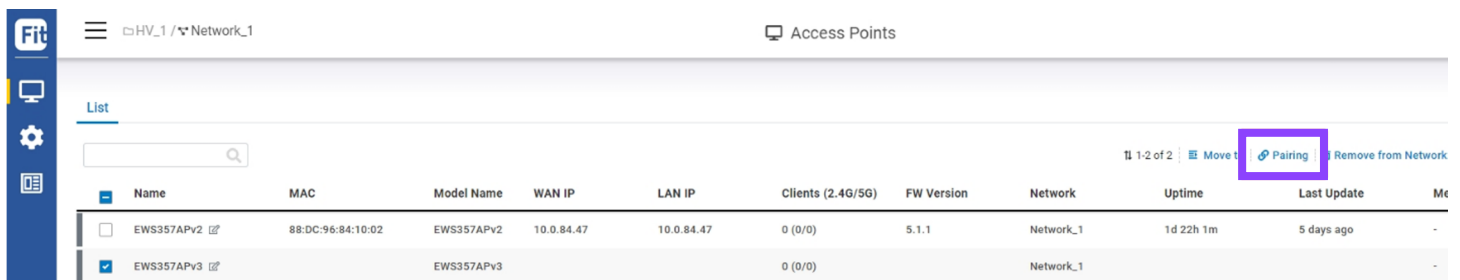
### Step 3: Register Device and Assign to Network

1. Go to the system > Inventory page and click “Register Device (+)”.
2. FitController will list all EnGenius Fit devices discovered from the same L2 network in the Pending Approval section. Select the device and Click “Register” to add to inventory. You can also tap “Manually” tab and register Fit device by entering Serial Number.
3. From the Inventory page, Select the newly added device and click “Assign to Network” to add the device to your personalized network.



### Step 4: Pairing the Device

1. Go to access point or switch list.
2. Select the newly added device and click “Pairing” to allow the access point to build an encrypted connection between the device and FitController.



### Step 5: Manage with FitController

Navigate to the left side menu to configure & manage your network and view network statistics using the FitController management interface.

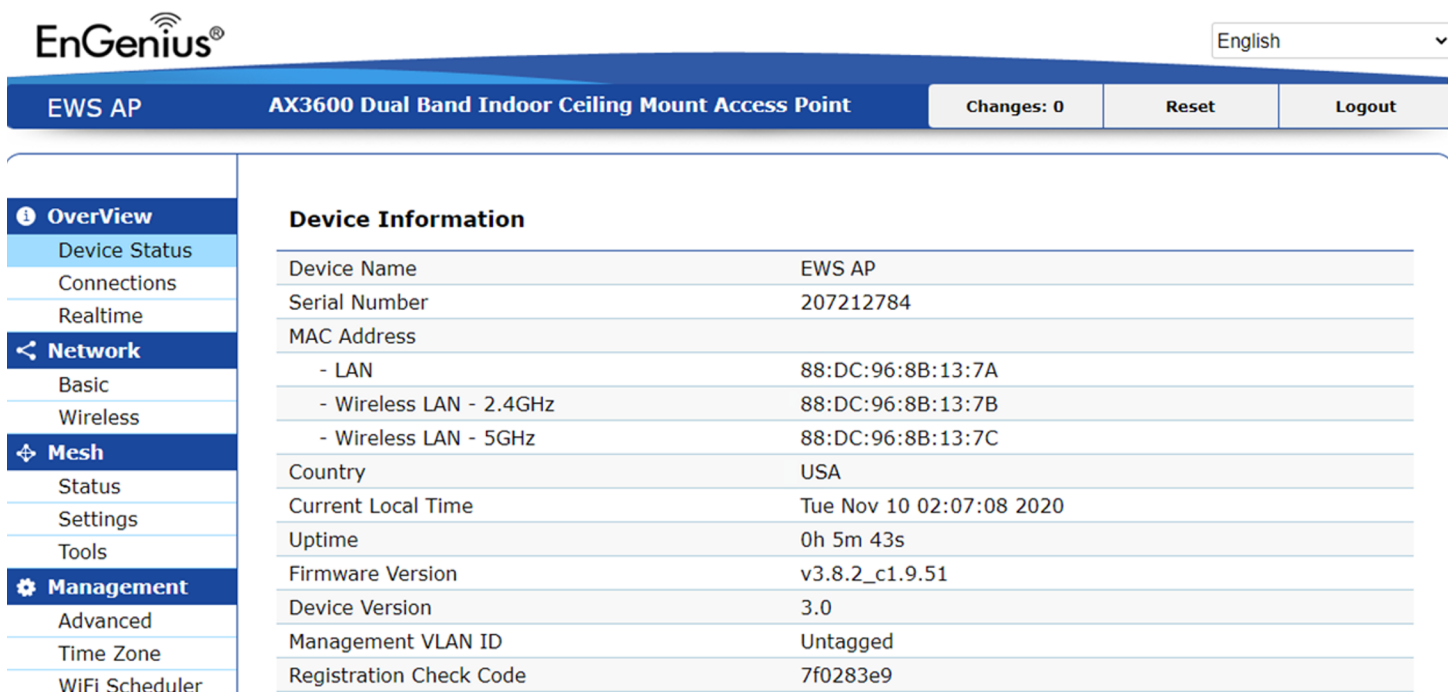
## Option C: Standalone Configuration

### Step 1: Access to Local Web

1. Use your client device (e.g., a laptop, mobile device, or tablet) to find the SSID: "EnMGMTxxxx" and connect to it. 1) EnMGMTxxxx - xxxx is the last four digits of MAC - MAC can be found on the device label on the back of the access point.
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. Use the default login credential (ID/PWD: admin/admin) to log in to the device's local web page.

### Step2: Configure and Manage the Device

After logging into the device's local web page, navigate to the left side menu to configure and manage the AP accordingly.



The screenshot displays the EnGenius web interface for an EWS AP. The top navigation bar includes the EnGenius logo, a language dropdown set to English, and buttons for 'Changes: 0', 'Reset', and 'Logout'. The main content area is divided into a left sidebar menu and a central 'Device Information' table.

**Device Information Table:**

Device Information	
Device Name	EWS AP
Serial Number	207212784
MAC Address	
- LAN	88:DC:96:8B:13:7A
- Wireless LAN - 2.4GHz	88:DC:96:8B:13:7B
- Wireless LAN - 5GHz	88:DC:96:8B:13:7C
Country	USA
Current Local Time	Tue Nov 10 02:07:08 2020
Uptime	0h 5m 43s
Firmware Version	v3.8.2_c1.9.51
Device Version	3.0
Management VLAN ID	Untagged
Registration Check Code	7f0283e9

## How to Change Management Mode?

EnGenius Fit devices support versatile network management methods, but the device can only be managed under one management mode at a time - either **FitXpress**, **FitController**, or **Standalone**. Therefore, you need to reset the device before changing to a different management mode. Then follow **Quick Start Guide** instructions for the device onboarding.