EDIMAX
NETWORKING PEOPLE TOGETHER

OAP1300

Quick Installation Guide

11-2020 / v1.1

I   Product Information

I-1   Package Contents

1

2

3

4

5

6

7

8

1. OAP1300 Access Point
2. Wall Mount Screw Template
3. Wall Mount Screw Set
4. CD

5. Quick Installation Guide
6. Ethernet Cable
7. Pole Mount Strap x2
8. Antenna x2

I-2   System Requirements

- Existing cable/DSL modem & router
- Computer with web browser for access point configuration

I-3   Hardware Overview

Ports and Button
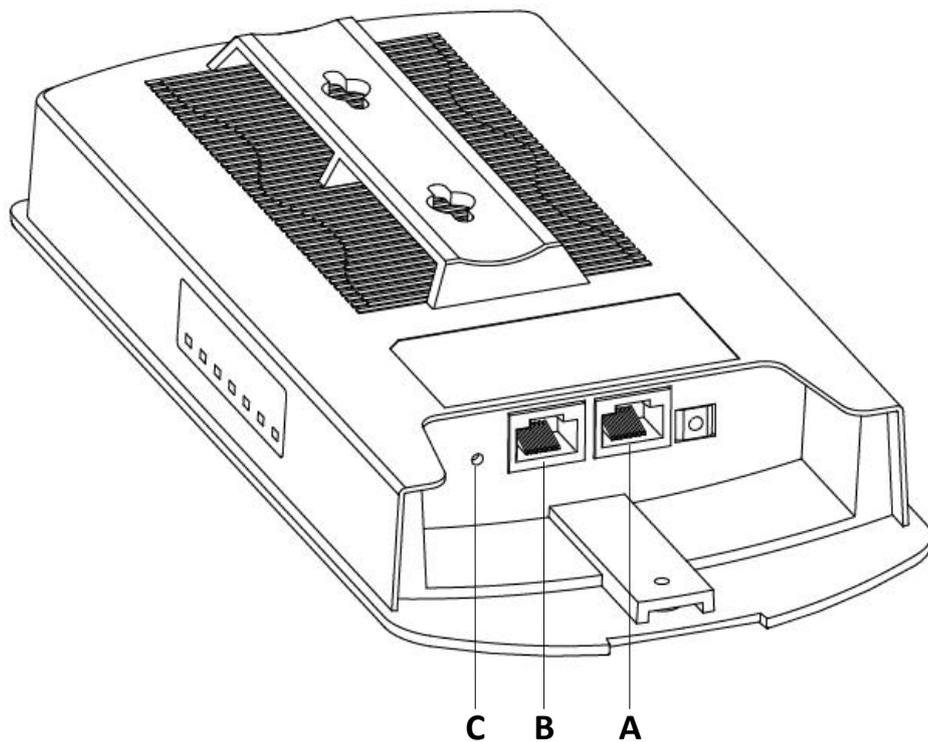
A	LAN 1 POE-IN	LAN port with Power over Ethernet (PoE) IN
B	LAN 2 POE-OUT	LAN port with PoE OUT
C	Reset	Reset Button

I-4 LED Status
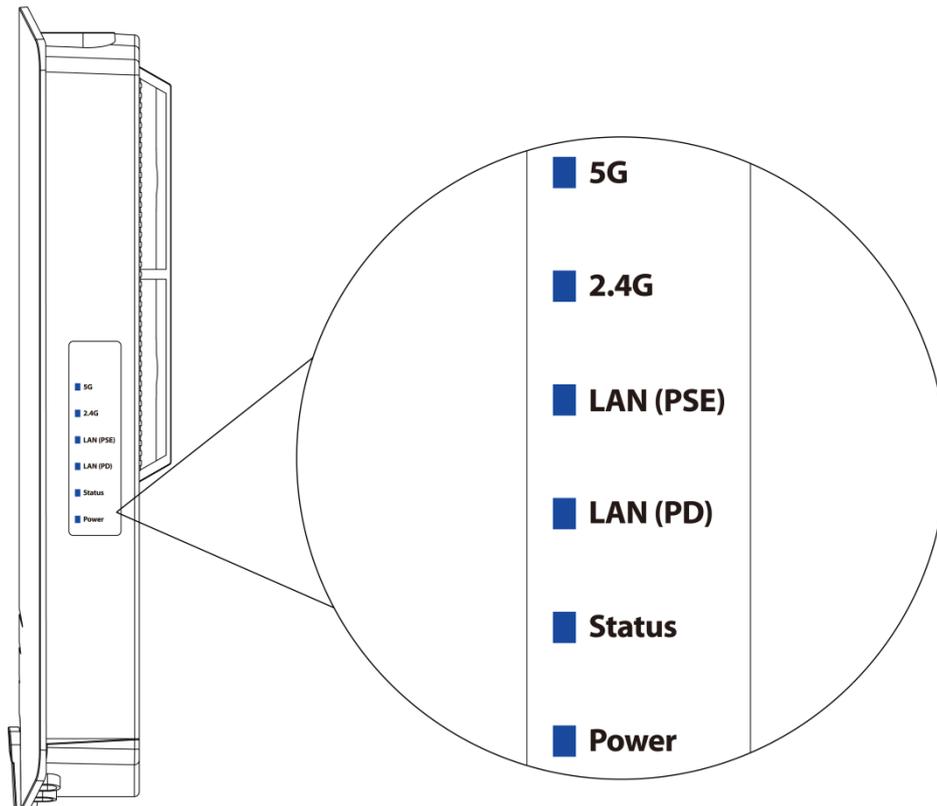
LED	LED Status	Description
5G (WLAN)	On	Wireless enabled.
	Off	Wireless disabled.
2.4G (WLAN)	On	Wireless enabled.
	Off	Wireless disabled.
LAN (PSE)	On	LAN port connected.
	Flashing	Activity (transmitting and receiving).
	Off	LAN port not connected.
LAN (PD)	On	LAN port connected.
	Flashing	Activity (transmitting and receiving).
	Off	LAN port not connected.
Status	On	Access point booting up.
	Off	No occurred error.
Power	On	The access point is on.
	Flashing	Upgrading firmware.
	Off	The access point is off.

I-5 Reset

If you experience problems with your access point, you can reset the device back to its factory settings. This resets all settings back to default.

1. Press and hold the reset button on the access point for at least 10 seconds then release the button.

> ⚠️ *You may need to use a pin or similar sharp object to push the reset button.*
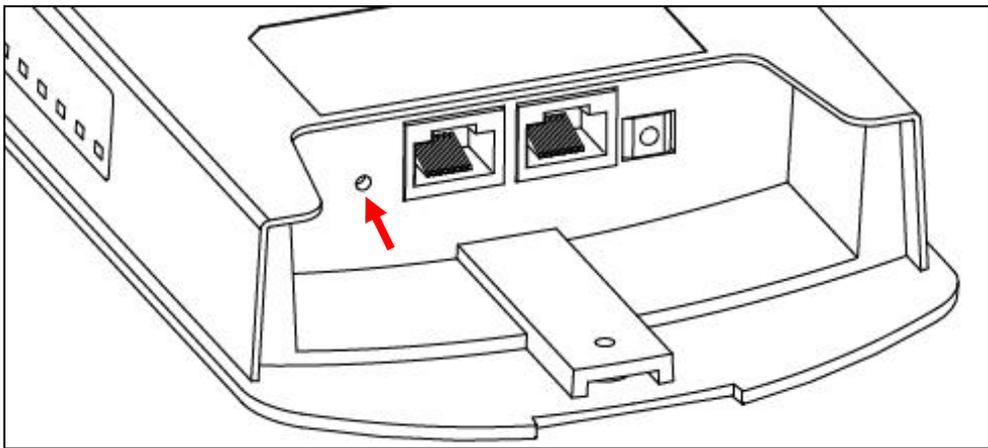
2. Wait for the access point to restart. The access point is ready for setup when the LED is **blue**.

II   Quick Setup & Mode Selection

The unit can function as a standalone access point (**AP Mode**), as a repeater (**Repeater Mode**), as part of an AP array (**Managed AP Mode**), or as a client bridge (**Client Bridge Mode**).

Follow the default mode steps below and select the desired operation mode.

II-1   Default Mode: Access Point Mode

1.   Set your computer's IP address to **192.168.2.x** where **x** is a number in the range **3 – 100**. If you are unsure how to do this, please refer to the appendix section in the user manual for more information.

⚠️ *Please ensure there are no other active network connections on your computer by disabling Wi-Fi and other Ethernet connections.*

2.   Wire an Ethernet cable to the **LAN 1 (PoE-In)** port of the access point and the PoE switch to power up the access point.

LAN 1 (PoE-In) Port
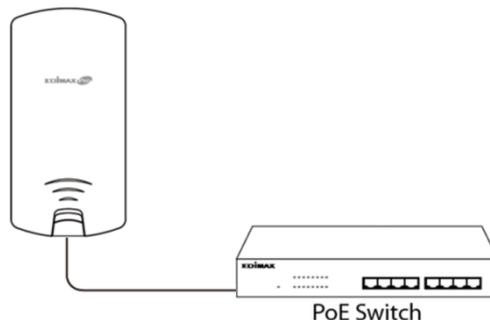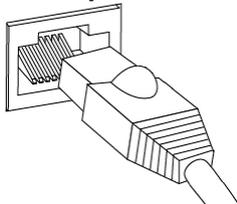
PoE Switch

3.   Please wait a moment for the device to start up. The device is ready when the Power LED stays turned on in blue.

4.   Connect a computer to the switch using an Ethernet cable.

PoE Switch

5
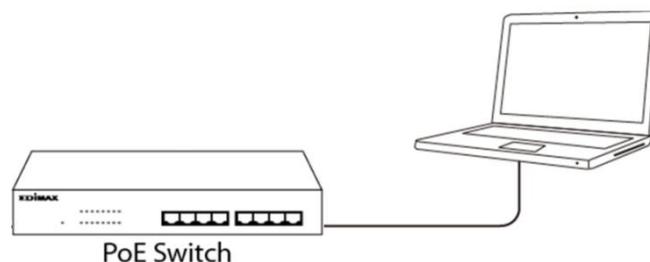
5. Enter the device's default IP address 192.168.2.2 into the URL bar of a web browser.

192.168.2.2/

6. You will be prompted for a username and password. Enter the default username "**admin**" and the default password "**1234**".

Connect to 192.168.2.2

The server 192.168.2.2 at localhost requires a username and password.

User name: admin

Password: •••••

Remember my password

OK   Cancel

7. "System Information" home screen will be shown:

8. By default, the device is in AP Mode.

> ⚠️ *If you do not wish to change the operation mode, switch your computer back to dynamic IP address now.*
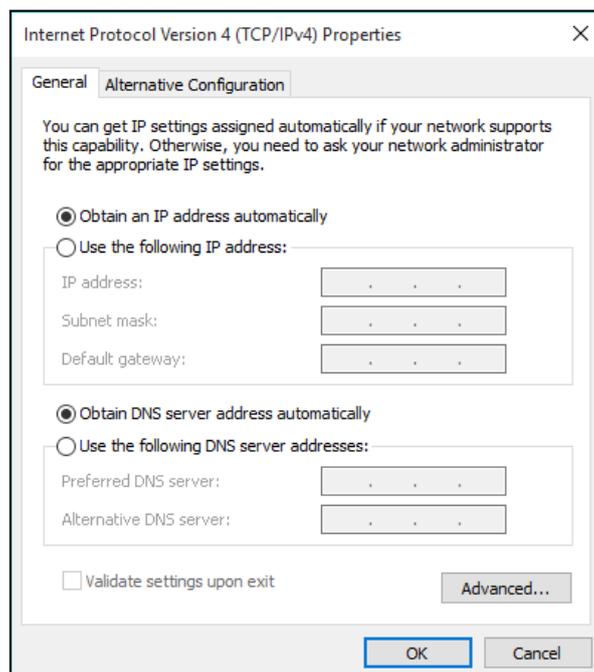
9. If you wish to change to a different operation mode, go to "Operation Mode" tab to select the desired operation mode. Follow the steps in the following sections to change the operation mode.
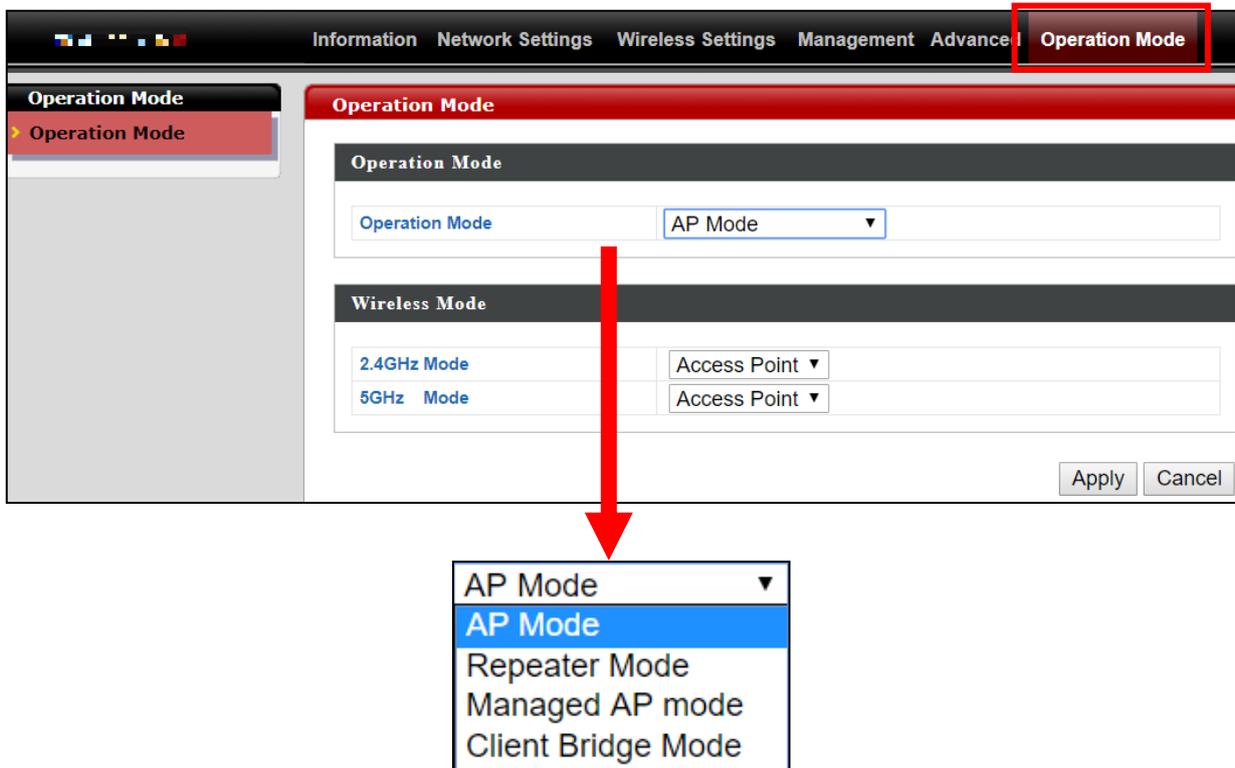
II-2　Repeater Mode

From the default mode above,

1.　Select Repeater Mode from the operation mode drop down menu:
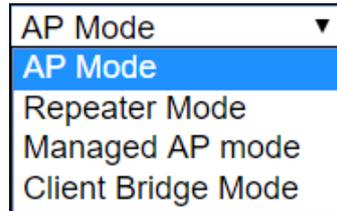
2.　Press "Apply" and wait for the device to reboot into Repeater Mode:

3.　When system page is displayed, go to **Wireless Settings → Wireless Extender**.

4. Click Scan to search for and display available SSIDs

5. Click the circle icon to connect to an available source SSID. SSIDs can be configured independently for each frequency 2.4GHz & 5GHz.

6.　Edit the new extended SSID according to your preference and enter the security details for the source SSID (e.g. Pre-shared Key). Click "Connect" to proceed.
Wait for the configuration to take effect:

Wireless Extender

Configuration is complete. Reloading now...

Please wait for 106 seconds.
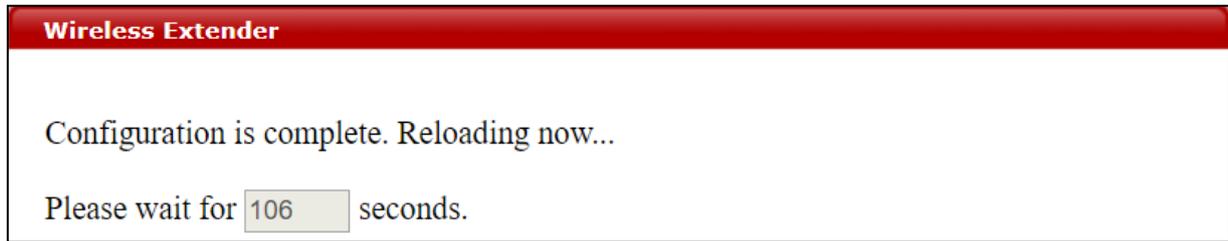
7.　The device (now in Repeater Mode) will establish a connection to the source SSID and repeat the extended SSID. The device will become a DHCP client of the router/root AP. Switch your computer back to dynamic IP address.

Internet Protocol Version 4 (TCP/IPv4) Properties   ✕

General | Alternative Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

⦿ Obtain an IP address automatically
◯ Use the following IP address:
　IP address:
　Subnet mask:
　Default gateway:

⦿ Obtain DNS server address automatically
◯ Use the following DNS server addresses:
　Preferred DNS server:
　Alternative DNS server:

☐ Validate settings upon exit　　　　　　Advanced...

OK　　Cancel

8.　To access the web user interface, check your router/root AP's settings to determine the device's new IP address. Enter the new IP address into the browser for the web user interface.

⚠ *If you wish to switch the operation mode, please reset the device to factory default (via web user interface or hardware reset).*

II-3   Client Bridge Mode
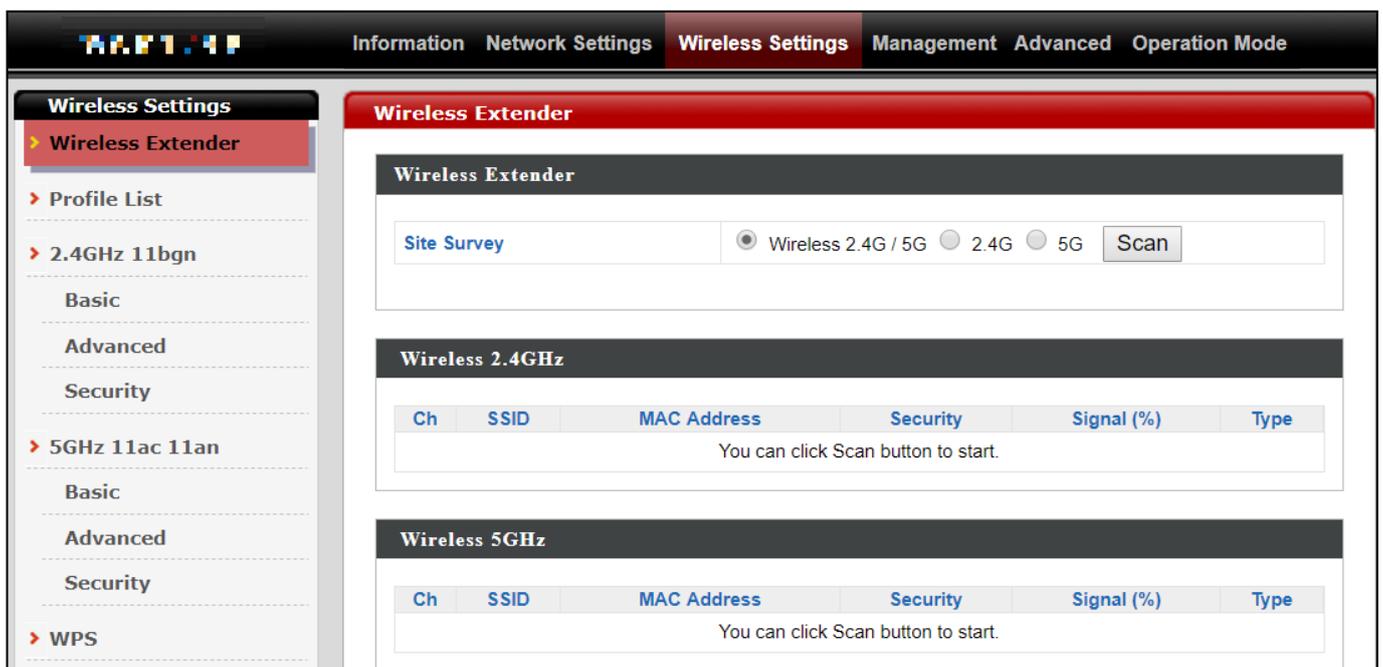
From the default mode above,

1. Select Client Bridge Mode from the operation mode drop down menu:
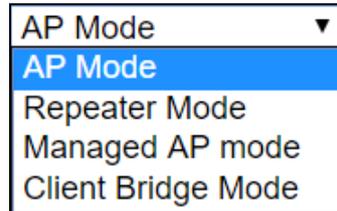
2. Press "Apply" and wait for the device to reboot into Client Bridge Mode:

3. When system page is displayed, go to **Wireless Settings → Wireless Extender**.

4. Click Scan to search for and display available SSIDs

5. Click the circle icon to connect to an available source SSID. SSIDs can be configured independently for each frequency 2.4GHz & 5GHz.

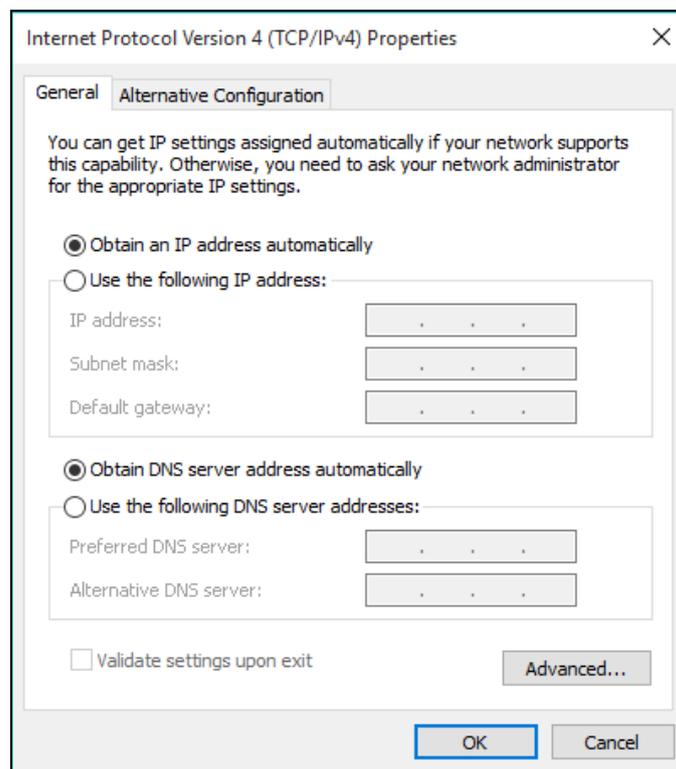**6.** Edit according to your preference and enter the security details for the source SSID (e.g. Pre-shared Key). Click "Connect" to proceed.

Wait for the configuration to take effect:

Wireless Extender

Configuration is complete. Reloading now...

Please wait for 106 seconds.

7. The device (now in Client Bridge Mode) will receive wireless signal and provides it to devices connected to the bridge via Ethernet cable. The device will become a DHCP client of the router/root AP. Switch your computer back to dynamic IP address.

Internet Protocol Version 4 (TCP/IPv4) Properties ✕

General | Alternative Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

◉ Obtain an IP address automatically
○ Use the following IP address:
IP address:
Subnet mask:
Default gateway:

◉ Obtain DNS server address automatically
○ Use the following DNS server addresses:
Preferred DNS server:
Alternative DNS server:

☐ Validate settings upon exit   Advanced...

OK   Cancel
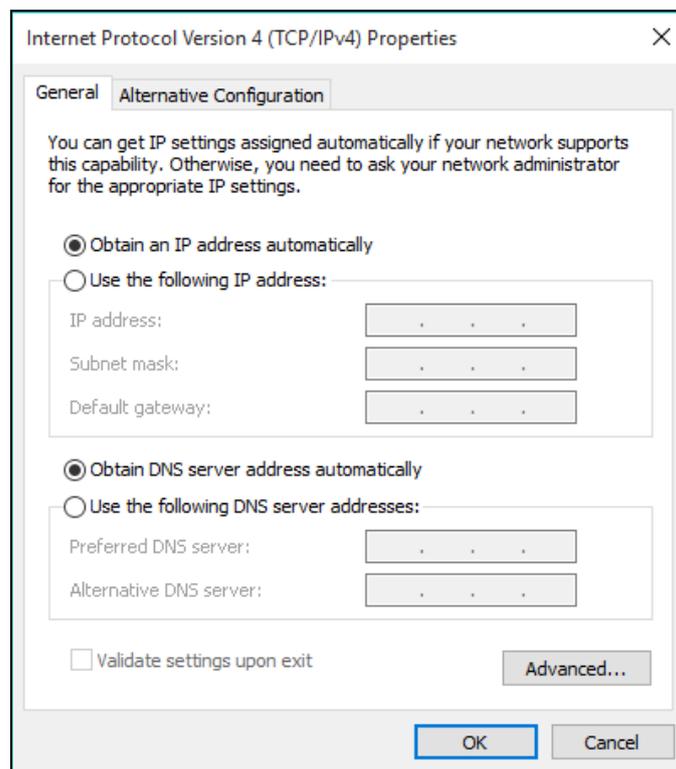
8. To access the web user interface, check your router/root AP's settings to determine the device's new IP address. Enter the new IP address into the browser for the web user interface.

⚠️ *If you wish to switch the operation mode, please reset the device to factory default (via web user interface or hardware reset).*

II-4 Managed AP Mode

AP Controller

Edimax Pro Network Management Suite (NMS) supports the central management of a group of access points, otherwise known as an AP Array.

An AP Array is managed by one *AP Controller*, where it can monitor, configure and manage all Managed APs.

An overview of the system is shown below:
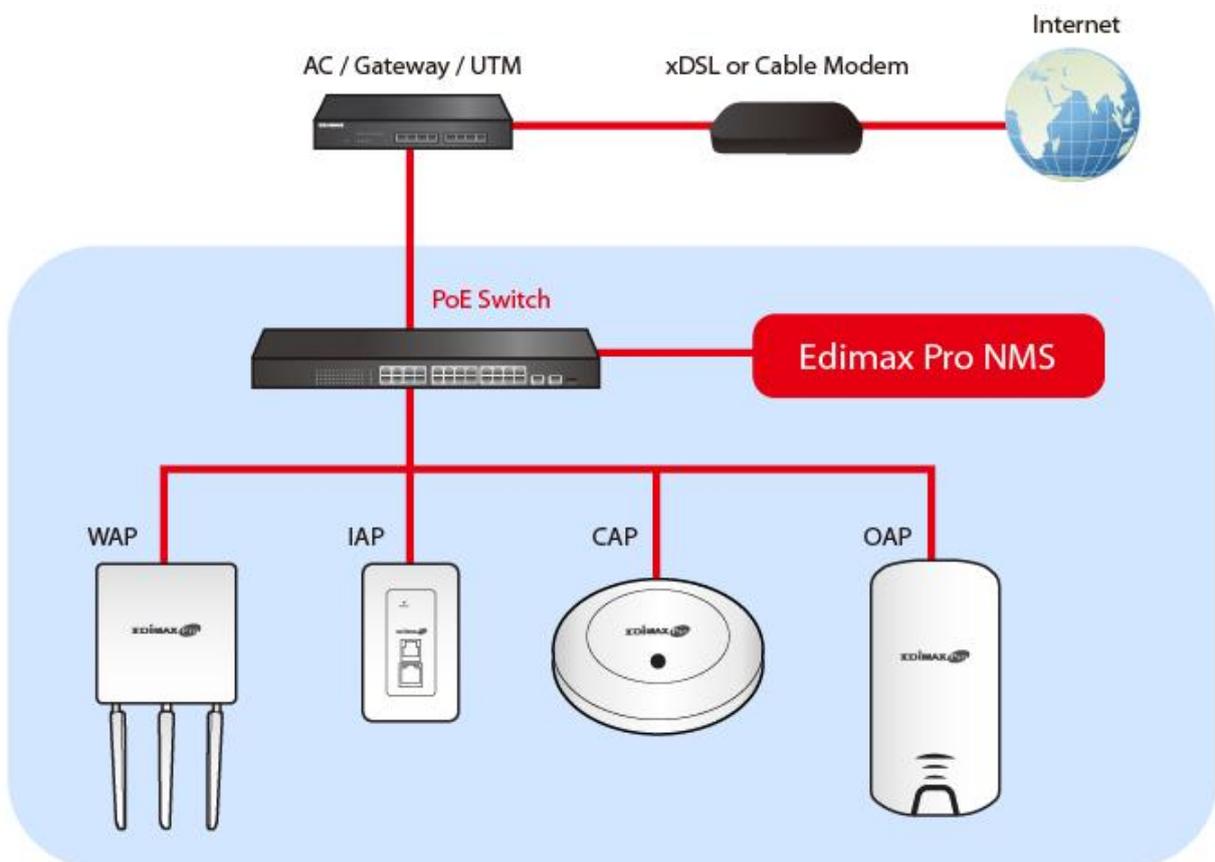
⚠️ *By default, the access point will automatically switch mode if an AP Controller is present in the network.*

To manually change to "Managed AP Mode":

> ⚠️ ***Ensure you have the latest firmware from the Edimax website for your Edimax Pro products.***

1. Connect the APs to an Ethernet or PoE switch currently connected to an AP controller.
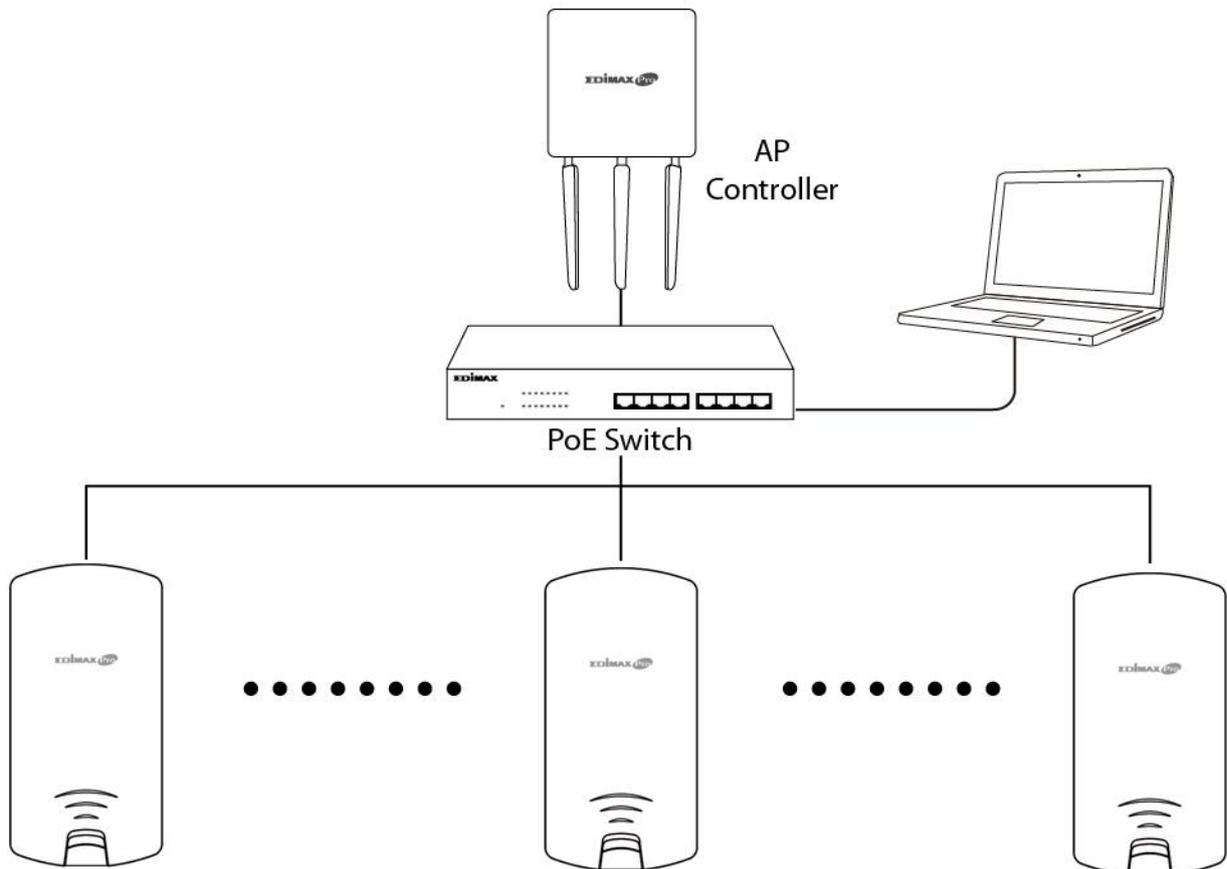
2. From the default mode above, select Managed AP Mode from the operation mode drop down menu:
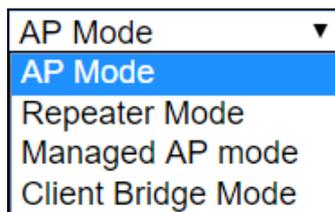
3. Press "Apply" and wait for the device to reboot into Managed AP Mode:

Operation Mode

Rebooting...

Please wait for 48 seconds.

Wait for a few minutes for the settings to sync.

II-5   Basic Settings

Basic settings of the access point are:
- *LAN IP Address; and*
- *2.4GHz & 5GHz SSID & Security; and*
- *Administrator Name & Password; and*
- *Time & Date*

> ⚠️ *It is recommended that these settings are configured before using the access point.*

Whenever a new setting is applied to the access point, the webpage will reload, as shown below:

Configuration is complete. Reloading now...

Please wait for 19 seconds.

Instructions below will help you configure these settings:

Changing IP Address:

1.   Go to **"Network Settings" > "LAN-side IP Address"** for the screen below:

LAN-side IP Address

LAN-side IP Address

IP Address Assignment	DHCP Client ▼
IP Address	192.168.2.2
Subnet Mask	255.255.255.0
Default Gateway	From DHCP ▼
Primary DNS Address	From DHCP ▼ 0.0.0.0
Secondary DNS Address	From DHCP ▼ 0.0.0.0

Apply

2. Enter the IP address settings you wish to use for your access point. You can use a dynamic (DHCP) or static IP address, depending on your network environment. Click "Apply" to save the changes and wait a few moments for the access point to reload.

⚠️ *When you change your access point's IP address, you need to use the new IP address to access the browser based configuration interface instead of the default IP 192.168.2.2.*

Changing SSID for 2.4GHz wireless network

1. Go to **"Wireless Settings" > "2.4GHz 11bgn" > "Basic"**.

2. Enter the new SSID for your 2.4GHz wireless network in the "SSID1" field and click "Apply".
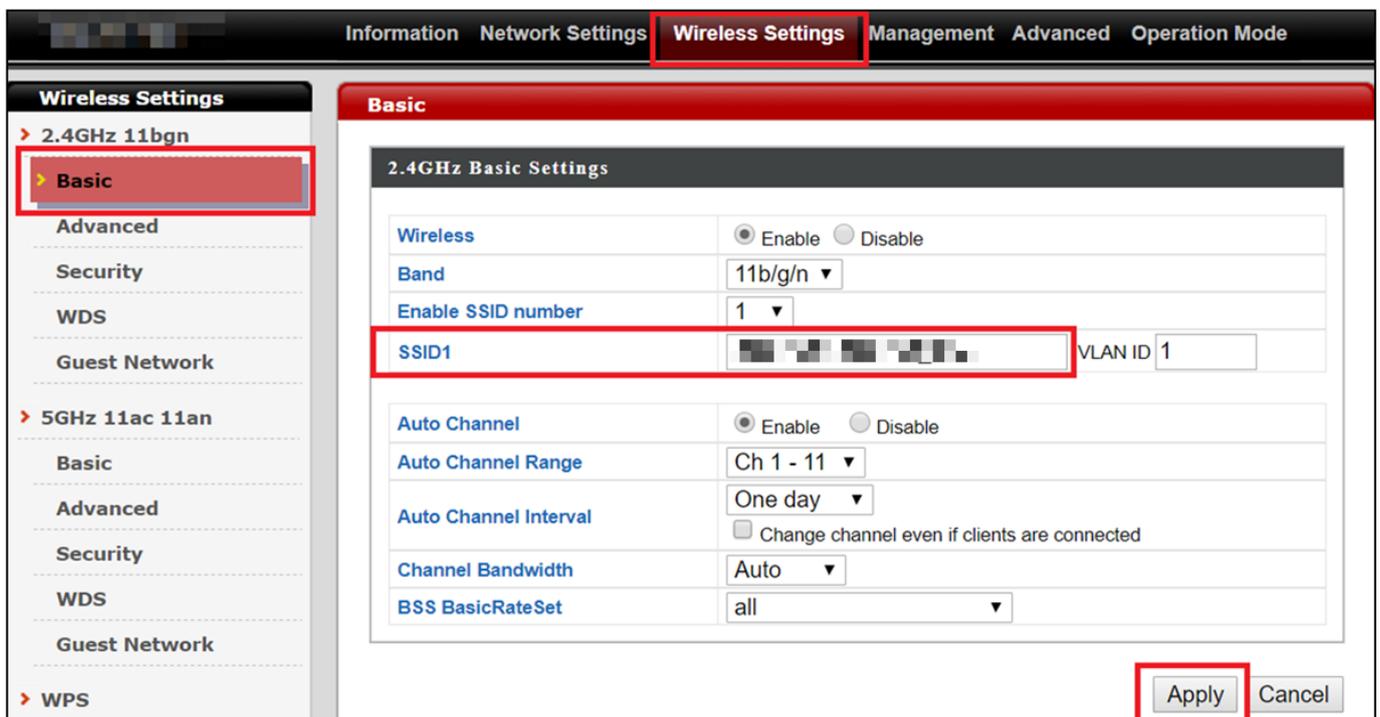
⚠️ *To utilize multiple 2.4GHz SSIDs, open the drop down menu labelled "Enable SSID number" and select how many SSIDs you require. Then enter a new SSID in the corresponding numbered fields below, before clicking "Apply".*

Configuring Security Settings of 2.4GHz wireless network

1. Go to **"Wireless Settings" > "2.4GHz 11bgn" > "Security"**.

2. Select an "Authentication Method", enter or select fields where appropriate, and click "Apply".

⚠️ *If multiple SSIDs are used, specify which SSID to configure using the "SSID" drop down menu.*

<u>Changing SSID and Configuring Security Setting for 5GHz wireless network</u>
Follow the steps outlined in "Changing SSID for 2.4GHz wireless network" and
"Configuring Security Setting for 2.4GHz wireless network" but choose the
5GHz option instead.

<u>Changing Admin Name and Password</u>

1.   Go to **"Management" > "Admin"** as shown below:

2.   Complete the "Administrator Name" and "Administrator Password"
fields and click "Apply".

Changing Date and Time

1. Go to **"Management" > "Date and Time"**.

2. Set the correct time and time zone for your access point using the drop down menus. The access point also supports NTP (Network Time Protocol) so, alternatively, you can enter the host name or IP address of a time server. Click "Apply" when you are finished.

⚠️ *You can use the "Acquire Current Time from your PC" button if you wish to set the access point to the same time as your PC.*

The basic settings of your access point are now configured. Please refer to **III Hardware Installation** for guidance on connecting your access point to a router or PoE switch.

II-6   Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup is a simple way to establish connections between WPS compatible devices. You can use the WPS button or the configuration webpage activate the access point's WPS function.

1.   Go to **"Wireless Settings" > "WPS"** on your configuration webpage.

2.   Check the checkbox of "Enable" and click "Apply".

3.   On the "Push-button WPS" line, click "Start" to activate WPS on the AP for approximately 2 minutes.
(For more information on "WPS by PIN", please refer to the user manual).

4.   Within two minutes, activate WPS on your WPS-compatible wireless device. Please check the documentation of your wireless device for information regarding its WPS function.

5.   The devices will establish a connection.

III Hardware Installation

After finishing the above setup processes, you may relocate the access point to the desired location.

III-1 Antenna

The antennae must be screwed onto the access point.

Please screw both antennae on clock-wise onto the SMA connectors as demonstrated below:

SMA Connectors
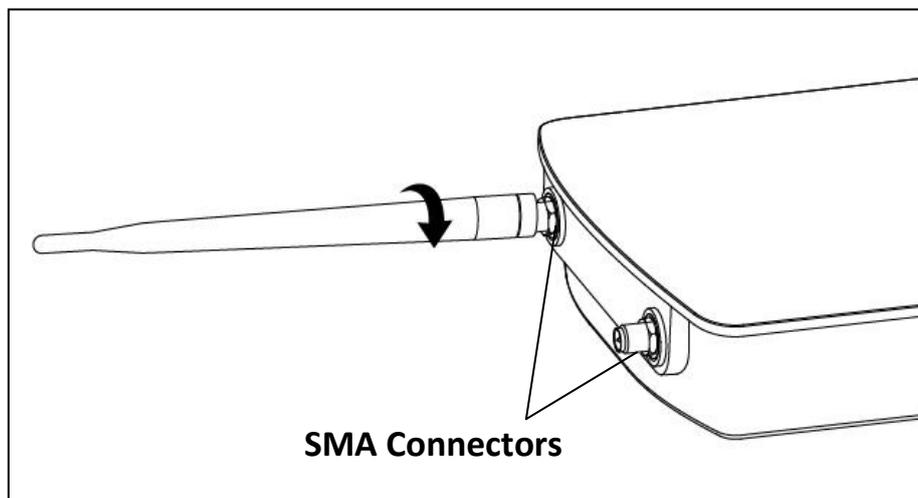
III-2   Powering on the Access Point Outdoor

1. Remove the cap from the underside of the access point by 1) pulling the hook upwards, and 2) pulling the cap downward, as shown below:
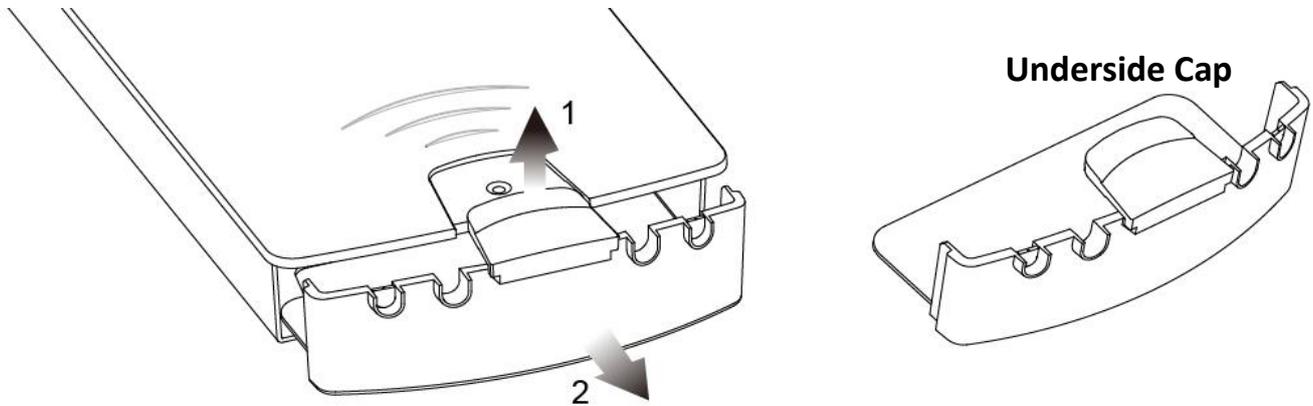
Underside Cap

2. Wire an Ethernet cable to the **LAN 1 (PoE-In)** port of the access point and the PoE switch to power up the access point.

LAN 1 (PoE-In) Port
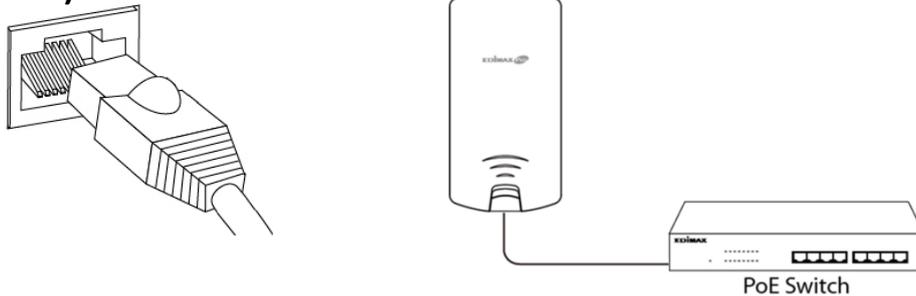
PoE Switch

3. The access point will be powered by the PoE switch. Connect another Ethernet cable to **LAN 2** where necessary.

4. Replace the cap and allow the cable(s) to rest in the arch(es) of the cap.
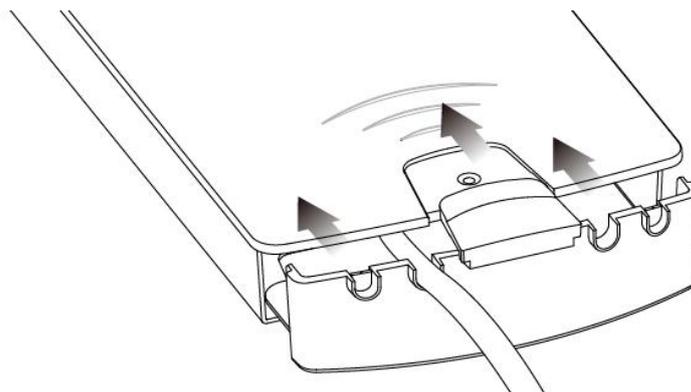
5. Let the hook click with the access point and make sure it does not come off easily. The cap serves as a rain-proof design suitable for use in the open.
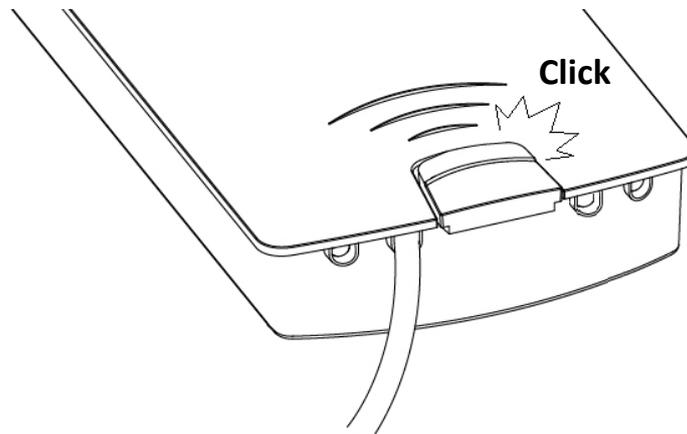
III-3   Mounting

After powering up the access point, mount it according to the desired mounting options: **Wall** or **Pole Mount**

Wall Mount

Attach the mount and access point to a wall using the included wall mount template and wall mount screw sets.
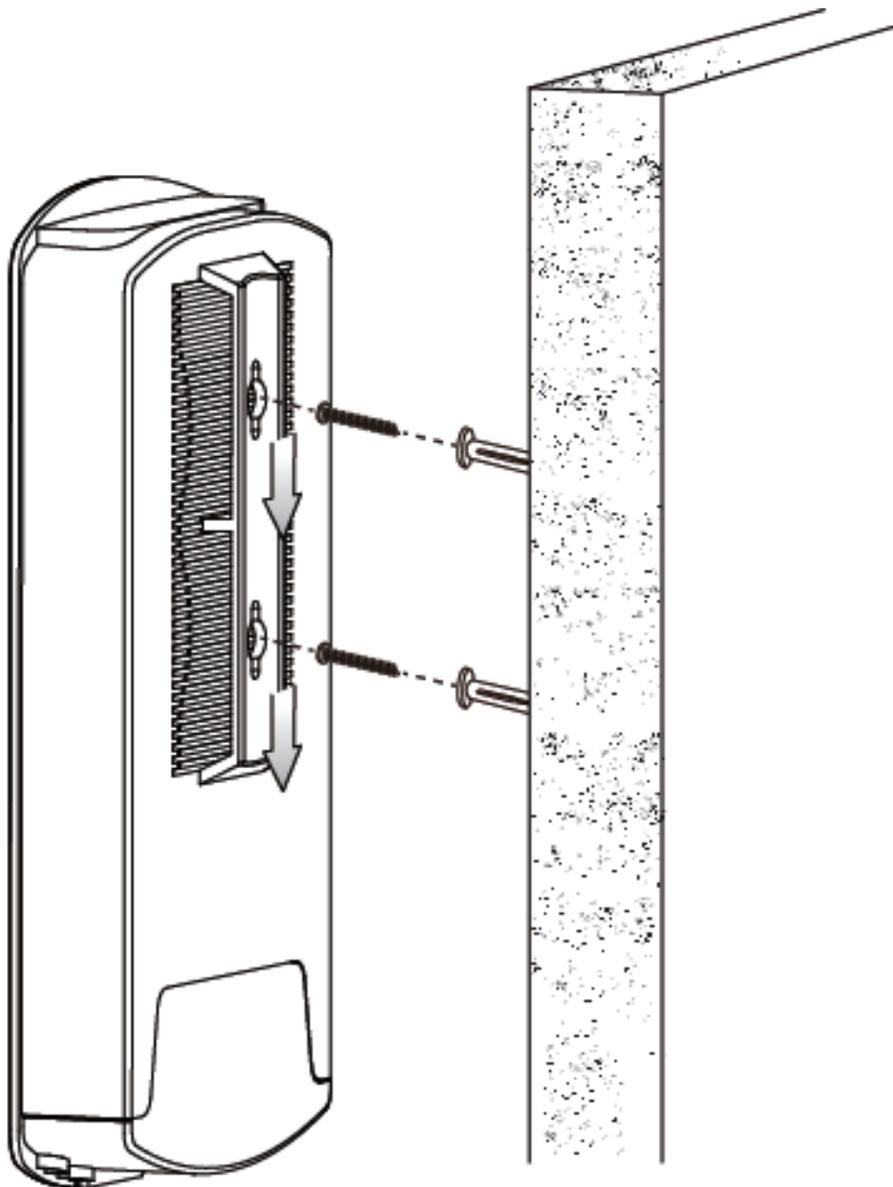
Pole Mount

Fix the mount and access point to a pole using the included pole mount straps.
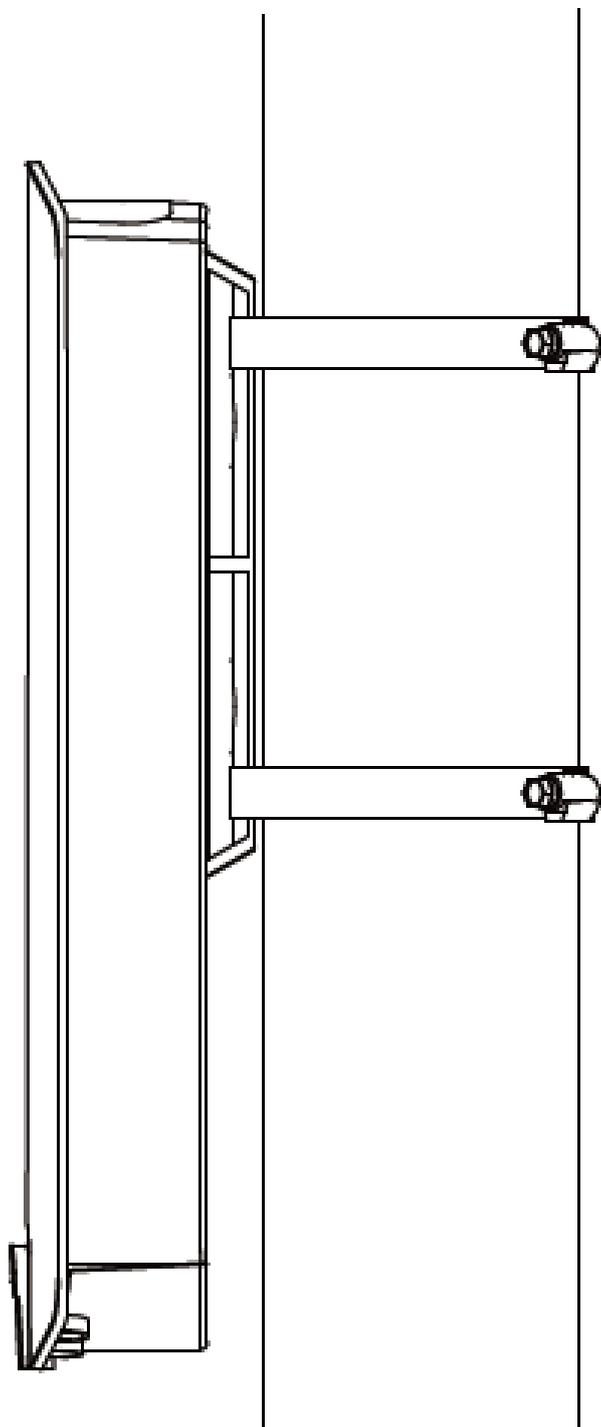
Professional installation warning:

This device is point-to-multi-point device. The general user should not attempt to install or change settings, it needs to be installed by a qualified personal who has RF exposure and related rule knowledge or technology.

The installation position and output power does not exceed the limit set forth in US Rule CFR 47 part 15 section 15.247 & 15.407. If violate the rule, could lead to serious federal penalty.

It is complies with §15.407 (a)(1)(i) requirement that the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

About TDWR 5600-5650 MHz, installation and operation should with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

Use two type antenna specifications. One type antenna model name is 98623PRSX000, antenna type is dipole antenna with peak gain 4.58dBi for 2.4GHz; 6.18dBi for 5150-5250MHz; 6.22dBi for 5250-5350MHz; 6.12dBi for 5470-5725MHz; 6.05dBi for 5725-5850MHz. Other type antenna model name is C095-510399-A, antenna type is dipole antenna with peak gain 3dBi for 2.4GHz; 4dBi for 5150-5850MHz. Only use manufacturer approved antenna type of antenna.

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The product you have purchased and the setup screen may appear slightly different from those shown in this QIG. The software and specifications are subject to change without notice. Please visit our website www.edimax.com for updates. All brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

RED Compliance Statement

Compliance with 2014/53/EU Radio Equipment Directive (RED)

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency range (MHz)	Max. Transmit Power (dBm)
2412-2472	19.66 dBm
5500-5700	27.73 dBm

A simplified DoC shall be provided as follows: Article 10(9)

Hereby, Edimax Technology Co., Ltd. declares that the radio equipment type **AC1300 Outdoor AP** 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://www.edimax.com/edimax/global/

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not Intended for Use

None

EU Declaration of Conformity

English:	This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU, 2014/35/EU.
Français:	Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2014/53/EU, 2014/35/EU.
Čeština:	Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnic 2014/53/EU, 2014/35/EU.
Polski:	Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2014/53/EU, 2014/35/EU.
Română:	Acest echipament este în conformitate cu cerinţele esenţiale şi alte prevederi relevante ale Directivei 2014/53/UE, 2014/35/UE.
Русский:	Это оборудование соответствует основным требованиям и положениям Директивы 2014/53/EU, 2014/35/EU.
Magyar:	Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek (2014/53/EU, 2014/35/EU).
Türkçe:	Bu cihaz 2014/53/EU, 2014/35/EU direktifleri zorunlu istekler ve diğer hükümlerle ile uyumludur.
Українська:	Обладнання відповідає вимогам і умовам директиви 2014/53/EU, 2014/35/EU.
Slovenčina:	Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2014/53/EU, 2014/35/EU.
Deutsch:	Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2014/53/EU, 2014/35/EU.
Español:	El presente equipo cumple los requisitos esenciales de la Directiva 2014/53/EU, 2014/35/EU.
Italiano:	Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2014/53/EU, 2014/35/UE.
Nederlands:	Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van richtlijn 2014/53/EU, 2014/35/EU.
Português:	Este equipamento cumpre os requesitos essênciais da Directiva 2014/53/EU, 2014/35/EU.
Norsk:	Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv 2014/53/EU, 2014/35/EU.
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WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European Radio Equipment directives.

Equipment: **AC1300 Outdoor AP**
Model No.: **OAP1300**

The following European standards for essential requirements have been followed:

Directives 2014/53/EU

Spectrum	: EN 300 328 V2.1.1 (2016-11)
	EN 301 893 V2.1.1 (2017-05)
EMC	: EN 301 489-1 V2.1.1 (02-2017)
	Draft EN 301 489-17 V3.2.0 (2017-03)
EMF	: EN 62311:2008
Safety (LVD)	: IEC 62368-1:2014 (2nd Edition) and/or EN 62368-1:2014+A11:2017

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Date of Signature: Nov., 2020
Signature:

Printed Name: Albert Chang
Title: Director
                      Edimax Technology Co., Ltd.

CE

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