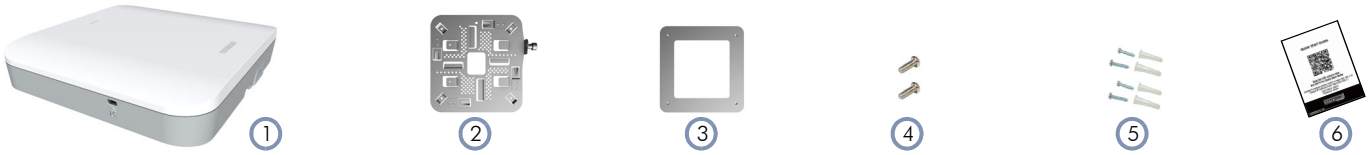
Quick Start Guide

Wi-Fi 7 Access Point

EAP105
Edgecore

Package Contents



1. EAP105 access point
2. Mounting bracket accessory
3. Ceiling plate
4. 2 x Mounting bracket security screws
5. Screw kit—4 screws and 4 plugs
6. QR code label

Overview

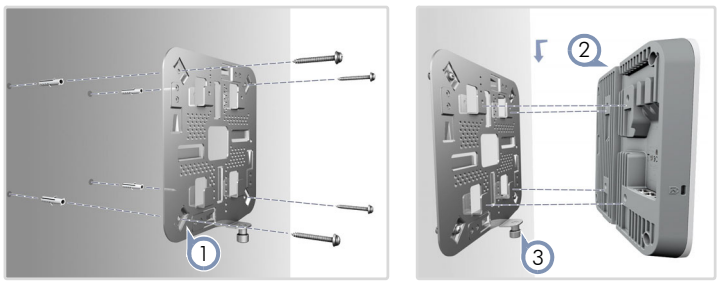


1. USB PD 3.0 15–20 VDC input
2. Uplink (PoE) Port: 5GBASE-T, 802.3at PoE
3. LAN Port: 10/100/1000BASE-T
4. Restart/Reset button:
   - A quick press restarts the system.
   - Press and hold for 5 seconds resets to factory defaults.
5. System LED Indicator:
   - Green: On (power OK), Blinking (boot up)
   - Blue: On (cloud managed)
   - Purple: Blinking (uplink activity in cloud-managed mode)
   - Orange: Blinking (uplink activity in stand-alone mode)
6. Kensington lock slot

Installation

1 Mount the AP

a. Mounting on a Wall



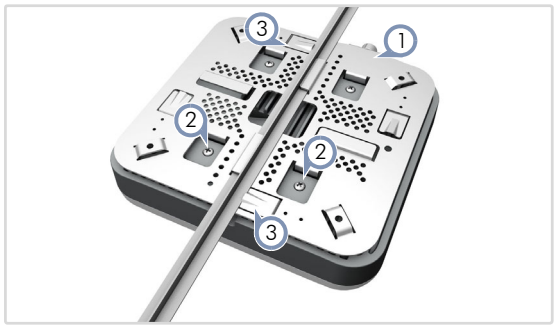
1. At the installation location on the wall, use the mounting bracket to mark four holes for the wall plugs and screws (included in the screw kit).

   Drill four holes for the wall plugs, and then insert the plugs and tap them flush with the wall surface.

> **Note:** Drill 2.5 mm (±0.2 mm) holes for M3 self-tapping screws, or 4.5 mm (±0.2 mm) holes for nylon wall plugs.

   Use the four screws to secure the bracket to the wall.
2. With its System LED at the top, place the AP over the bracket flanges and then slide it down until it snaps into its secured position.
3. Use the bracket's thumb screw to secure the AP to the bracket.

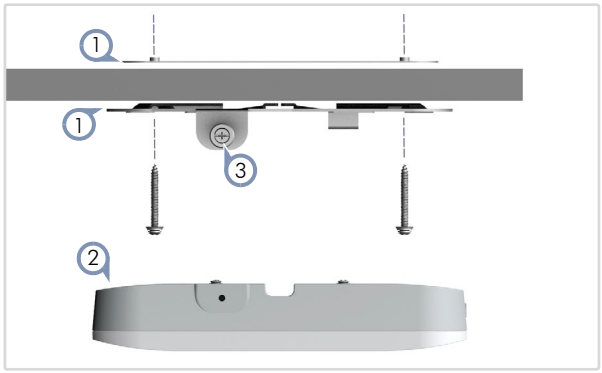
b. Mounting on a Suspended Ceiling T-Bar



1. Slide the bracket accessory onto the base of the AP and secure it using the bracket's thumb screw.
2. Use the two included security screws to completely secure the bracket to the AP.
3. Position the ceiling-mount clip holders on either side of the T-bar, and then turn the AP until the two clips lock it to the T-bar.

> **Note:** The AP mounting supports two different sizes of suspended ceiling T-bars. The position illustrated above is for 15 mm bars. Use the position at a 90 degrees angle for 24.5 mm bars.

c. Mounting on a Ceiling Without T-Bars

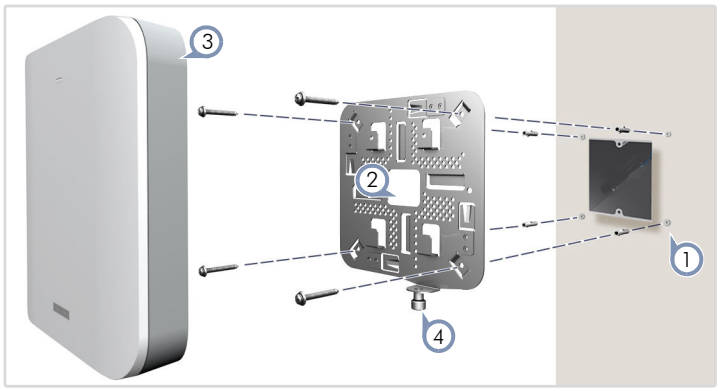


1. At the installation location on the ceiling, use the mounting bracket to mark and drill four holes for the screws (included in the screw kit).

   Place the ceiling plate on the top side of the ceiling surface.

   Use the four screws to secure the bracket to the ceiling plate through the ceiling material (screw torque must be less than 6 kgf.cm).
2. Place the AP over the bracket flanges and then slide it onto the bracket until it snaps into its secured position.
3. Use the bracket's thumb screw to secure the AP to the bracket.

d. Mounting Over a Wall Junction Box



1. At the wall junction box, use the mounting bracket to mark four holes for the wall plugs and screws (included in the screw kit).

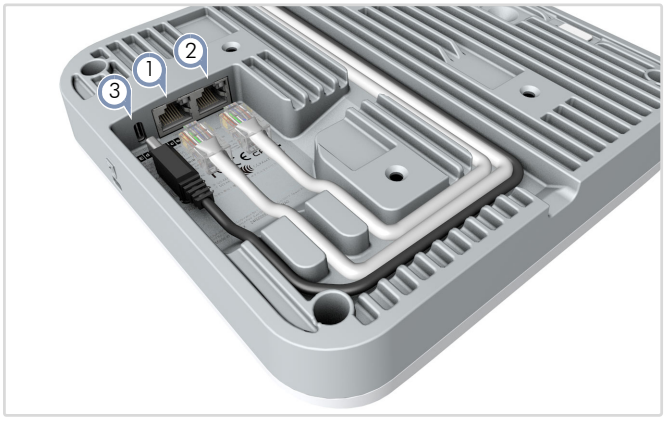
   Drill four holes for the wall plugs, and then insert the plugs and tap them flush with the wall surface.

> **Note:** Drill 2.5 mm (±0.2 mm) holes for M3 self-tapping screws, or 4.5 mm (±0.2 mm) holes for nylon wall plugs.

   Use the four screws to secure the bracket to the wall.
2. Feed cables from the junction box through the center hole of the bracket and connect them to the AP.
3. With its System LED at the top, place the AP over the bracket flanges and then slide it down until it snaps into its secured position.
4. Use the bracket's thumb screw to secure the AP to the bracket.

2 Connect Cables

a. Connect LAN Cables



1. Connect Category 5e or better cable to the Uplink (PoE) 5GBASE-T RJ-45 port. When connected to a PoE source, the Uplink (PoE) port connection provides power to the unit.
2. (Optional) Connect a local LAN switch or computer to the LAN 1000BASE-T RJ-45 port.

b. (Optional) Connect AC Power Adapter

3. When not connected to a PoE source, connect the AC power adapter to the USB PD Type-C port on the AP and then plug the adapter into a nearby AC power source.

3 Check the System LED



1. When operating normally, the System LED should be on green. Blinking indicates the device is booting up.

Safety and Regulatory Information

FCC Class B

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 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.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

IMPORTANT NOTE:
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 54 cm between the radiator and your body.

Professional Installation Instructions

1. Installation personnel
This product is designed for specific applications and should be installed by qualified personnel who have knowledge of RF and its related regulations. A general user shall not attempt to install or modify the equipment configuration.

2. Installation location
To meet regulatory RF exposure requirements, this product shall be installed at a location where, during normal operations, the radiating antenna is at least 54 cm away from any nearby persons.

3. Installation procedure
Please refer to this equipment's user manual for the procedure details.

4. Warning
The installation position must be carefully selected so that the final output power does not exceed the limit set forth in relevant regulations. Violation of output power regulations could lead to serious federal penalties.

The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that the 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.

Industry Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x) RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

(1) Cet appareil ne doit pas provoquer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

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.

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.

IMPORTANT NOTE:
IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 32 cm between the radiator & 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 32 cm de distance entre la source de rayonnement et votre corps.

Caution

User should also be advised that:

Devices shall not be used for control of or communications with unmanned aircraft systems.

Les appareils ne doivent pas être utilisés pour contrôler ou communiquer avec des systèmes d'aéronefs sans pilote.

Devices shall not be used on oil platforms.

Les appareils ne doivent pas être utilisés sur les plates-formes pétrolières.

Devices shall not be used on aircraft, except for the low-power indoor access points, indoor subordinate devices, low-power client devices, and very low-power devices operating in the 5925-6425 MHz band, that may be used on large aircraft as defined in the Canadian Aviation Regulations, while flying above 3,048 metres (10,000 feet).

Les appareils ne doivent pas être utilisés sur les avions, à l'exception des points d'accès intérieure à faible puissance, des dispositifs subordonnés intérieurs, des dispositifs clients de faible puissance et des dispositifs de très faible puissance fonctionnant dans la bande 5925-6425 MHz, qui peut être utilisée sur de grands avions tel que défini dans la réglementation de l'aviation canadienne, tout en volant au-dessus de 3 048 mètres (10 000 pieds).

CE Statement

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

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

All operational modes:

2.4 GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ax (HE20), 802.11ax (HE40), 802.11be (EHT20), 802.11be (EHT40)

5 GHz: 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80), 802.11ac (VHT160), 802.11ax (HE20), 802.11ax (HE40), 802.11ax (HE80), 802.11ax (HE160), 802.11be (EHT20), 802.11be (EHT40), 802.11be (EHT80), 802.11be (EHT160)

6 GHz: 802.11ax (HE20), 802.11be (EHT20), 802.11ax (HE40), 802.11be (EHT40), 802.11ax (HE80), 802.11be (EHT80), 802.11ax (HE160), 802.11be (EHT160), 802.11be (EHT320)

BLE 2.4 GHz: 802.15.1

The frequency and maximum transmitted power limit in EU are listed as below:

2412-2472 MHz: 20 dBm
5150-5350 MHz: 23 dBm
5500-5700 MHz: 30 dBm
5925-6425 MHz: 23 dBm

AT	BE	BG	CH	CY	CZ
DE	DK	EE	EL	ES	FI
FR	HR	HU	IE	IS	IT
LI	LT	LU	LV	MT	NL
NO	PL	PT	RO	SE	SI
SK	TR	UK			

The abbreviations of the countries, as prescribed in above table, where any restrictions on putting into service or any requirements for authorization of use exist.

CE

CE Mark Declaration of Conformance for EMI and Safety (EEC)

This information technology equipment is in compliance with the Directive 2014/53/EU and Directive 2014/35/EU.

The Declaration of Conformity (DoC) can be obtained fromEdgecore.

Japan VCCI Statement

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。 **VCCI ー B**

5 GHz band (W52, W53): Indoor use only
6 GHz LPI (Low Power Indoor), indoor use only

NCC Statement (Taiwan)

NCC 警語
取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

WiFi 5GHz Device 警語：
應避免影響附近雷達系統之操作

Warnings and Cautionary Messages

Warning: This product does not contain any serviceable user parts.
Warning: Installation and removal of the unit must be carried out by qualified personnel only.

Caution: Wear an anti-static wrist strap or take other suitable measures to prevent electrostatic discharge when handling this equipment.
Caution: Do not plug a phone jack connector in the RJ-45 port. This may damage this device.
Caution: Use only twisted-pair cables with RJ-45 connectors that conform to FCC standards.

限用物質含有情況標示聲明書
Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：無線接取器 /Wi-Fi 7 Access Point				型號 (型式) : EAP105		
Equipment Name				Type Designation (Type)		
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr^{+6})	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
電路板組件 PCBA	—	○	○	○	○	○
機殼 Chassis	—	○	○	○	○	○
天線 Antenna	—	○	○	○	○	○
配件 Accessories	○	○	○	○	○	○

備　考 1.	" 超出 0.1 wt %" 及 " 超出 0.01 wt %" 係指限用物質之百分比含量超出百分比含量基準值。
Note 1:	"Exceeding 0.1 wt %" and "exceeding 0.01 wt %" indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.
備　考 2.	" ○ " 係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2:	" ○ " indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.
備　考 3.	" — " 係指該項限用物質為排除項目。
Note 3:	The " — " indicates that the restricted substance corresponds to the exemption.

Hardware Specifications

AP Chassis

Size (WxDxH)	195 x 179 x 35 mm (7.48 x 7.05 x 1.38 in.)
Weight	0.907 kg (1.99 lb)
Temperature	Operating: 0° C to 50° C (32° F to 122° F) Storage: -30° C to 70° C (-22° F to 158° F)
Humidity	Operating: 5% to 95% (non-condensing)
Waterproof Rating	IP41

Network Interfaces

Ports	Uplink (PoE) RJ-45 Port: 5GBASE-T, PoE PD LAN RJ-45 Port: 1000BASE-T
2.4 GHz Radio	IEEE 802.11b/g/n/ax/be
5 GHz Radio	IEEE 802.11a/ac/n/ax/be
6 GHz Radio	IEEE 802.11a/ac/n/ax/be
Bluetooth Radio	IEEE 802.15.1
Radio Frequencies	2.4–2.4835 GHz (US, Canada, ETSI, Japan, TW) 5.15–5.25 GHz (lower band) US/Canada, TW 5.250–5.320 GHz (DFS band) US/Canada, TW 5.470–5.725 GHz (DFS band) US/Canada, TW 5.725–5.825 GHz (upper band) US/Canada, TW 5.925–6.425 GHz (US, Canada, ETSI, Japan, TW) Europe 5.15–5.25 GHz, 5.25–5.35, 5.47–5.725 GHz Japan 5.15–5.25 GHz, 5.25–5.35, 5.47–5.73 GHz

Power Specifications

PoE Input Power	25.5 W, 42.5–57 VDC, 0.6 A max., 802.3at compliant
USB Power Delivery	USB PD 3.0 15–20 VDC

Regulatory Compliances

Radio	EN300 328 V2.2.2 (2019-07) EN301 893 V2.1.1(2017-05) ETSI EN 303 687 V1.1.1 47 CFR FCC Part 15.247 47 CFR FCC Part 15.407 IC RSS-247 Issue 3, RSS-248 Issue 3, and RSS-Gen Issue 5 NCC LP002 Section 4.10.1 (2024-02-06) NCC LP002 Section 5.7 (2024-02-06) NCC LP002 Section 5.13 (2024-02-06) MIC certification Rule, Article 2 Paragraph 1 Item 19 MIC certification Rule, Article 2 Paragraph 1 Item 19-3 MIC Certification Rule, Article 2 Paragraph 1 Item 80 (WIFI 6E LPI device) TELEC ARIB STD-T66
Emissions	EN 55032:2015/A1:2020 Class B EN 55035:2017/A11:2020 EN 301 489-1 V2.2.3 EN 301 489-17 V3.3.1 AS/NZS CISPR 32:2015, Class B 47 CFR FCC Rules and Regulations Part 15 Subpart B, Class B Digital Device ICES-003, Issue 7 Class B CNS 15936 Class B VCCI Class B Jete Article 9 (WLAN, Bluetooth) Jete Article 34-8 (Ethernet)
Safety	Low Voltage Directive IEC 62368-1:2018;and/or EN IEC 62368-1:2020+A11:2020; and/or BS EN 62368-1:2020+A11:2020 CNS 15598-1:2020
Taiwan RoHS	CNS 15663