

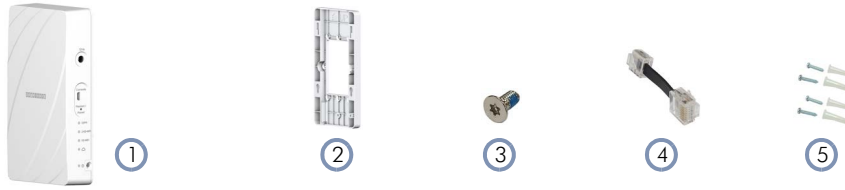
Quick Start Guide

Indoor Wall-Plate Wi-Fi 6 Access Point

EAP104 (T) | EAP104 (TL)

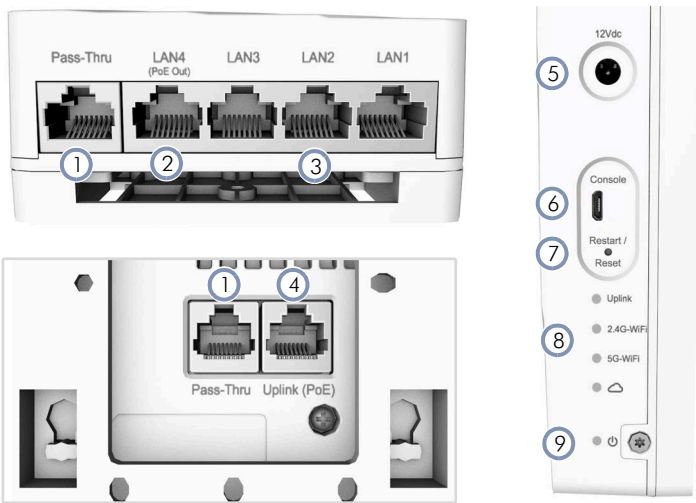


Package Contents



1. EAP104 (T)/EAP104 (TL) access point (EAP104 (TL) does not include BLE, Zigbee, and PoE Out)
2. Mounting bracket accessory
3. Mounting bracket T8 security screw
4. RJ-45 short cable
5. Screw kit—4 screws and 4 plugs

Overview



1. Pass-Thru Port: Bottom panel to rear panel connection.
2. LAN4 Port: 1Gbps LAN connection and PoE out port.
3. LAN1-LAN3 Ports: 1Gbps connection to LAN devices.
4. Uplink (PoE) Port: 1Gbps connection to 802.3at PoE.
5. 12 VDC power input
6. Console port
7. Restart/Reset button:
 - A quick press restarts the system.
 - Press and hold for 5 seconds resets to factory defaults.
8. System LED Indicators:
 - Uplink: Green (link), Blinking (traffic)
 - 2.4G-WiFi: On (radio on), Blinking (traffic)
 - 5G-WiFi: On (radio on), Blinking (traffic)
 - Cloud: TBD
9. Power/Status LED: On (power OK), Blinking (boot up)

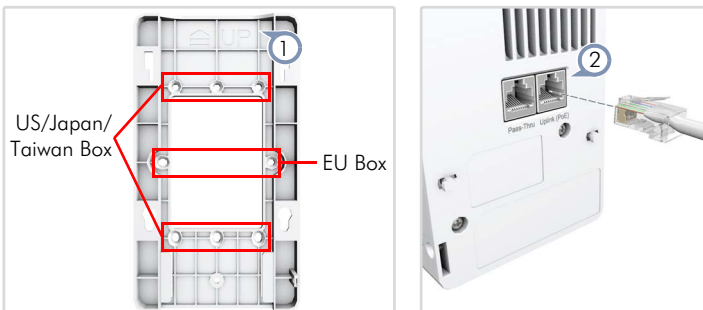
Installation



Warning: For indoor use only. The access point, AC power adapter, and all connected cables are not for outdoor use.

1 Mount the AP

a. Mounting on a Wall Junction Box



1. At the wall junction box, use two screws to secure the mounting bracket to the box. The bracket must be installed with the marking "UP" at the top.
2. Connect the Ethernet cable from the junction box to the Uplink (PoE) RJ-45 port on the rear of the device. When connected to a PoE source, the Uplink (PoE) port connection provides power to the unit.



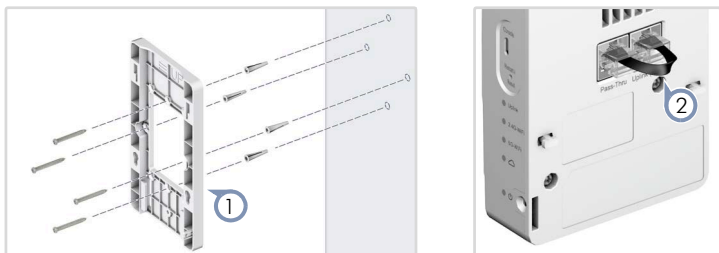
Note: When not connected to a PoE source, you can power the AP using the optional AC power adapter.



3. With its ports facing down, place the AP over the bracket and then slide it down until it is in its secured position.
4. Use the included security screw to secure the bracket to the AP.
5. (Optional) Connect a local LAN switch or computers to the LAN1 to LAN4 1000BASE-T RJ-45 ports.



b. Mounting on a Wall Without a Junction Box



- At the installation location on the wall, use the mounting bracket to mark four holes for the wall plugs and screws. The bracket must be installed with the marking "UP" at the top.
Drill four holes for the wall plugs, and then insert the plugs and tap them flush with the wall surface.

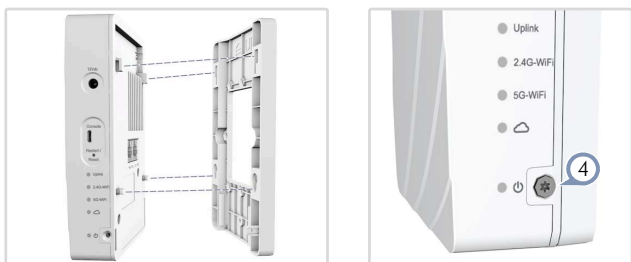
Note: Drill 2.5 mm (±0.2 mm) holes for M3 self-tapping screws, or 4.5 mm (±0.2 mm) holes for nylon wall plugs.

Use the four screws to secure the bracket to the wall.

- To power the AP from a PoE source, use the included short Ethernet cable to connect the Uplink (PoE) port to the Pass-Thru port on the rear of the device. When the Pass-Thru port on the bottom of the device is connected to a PoE source, it provides power to the unit.

Note: When not connected to a PoE source, you can power the AP using the optional AC power adapter.

- With its ports facing down, place the AP over the bracket and then slide it down until it is in its secured position.



- Use the included security screw to secure the bracket to the AP.
- (Optional) Connect a local LAN switch or computers to the LAN1 to LAN4 1000BASE-T RJ-45 ports.

c. Mounting Using the Optional Desktop Stand



- At the installation location, slide the AP onto the desktop mounting bracket and then place on the desktop.
- Connect Ethernet cable from a PoE source to the Uplink (PoE) RJ-45 port on the rear of the AP.

Alternatively, connect Ethernet cable from a PoE source to the Pass-Thru port on the bottom of the device and then use the included short Ethernet cable to connect the Uplink (PoE) port to the Pass-Thru port on the rear of the device.

Note: When not connected to a PoE source, you can power the AP using the optional AC power adapter.

- (Optional) Connect a local LAN switch or computers to the LAN1 to LAN4 1000BASE-T RJ-45 ports.

2 Check AP LEDs

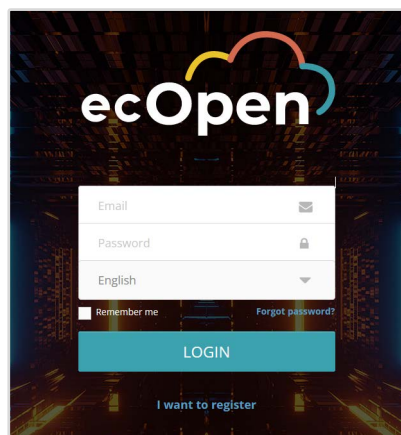


- Uplink LED — on green for a valid RJ-45 Uplink port connection.
- 2.4G and 5G LEDs — on green for radio enabled.
- Cloud LED — TBD
- Power/Status LED — on green for normal operation.

3 Initial Setup and AP Registration

There are two options for setting up the AP for your network:

- When the AP is first connected to the Internet through the Uplink port, it is automatically redirected to ecOpen (<https://cloud.openwifi.ignitenet.com/>). Enter the AP's MAC address and serial number for device registration.



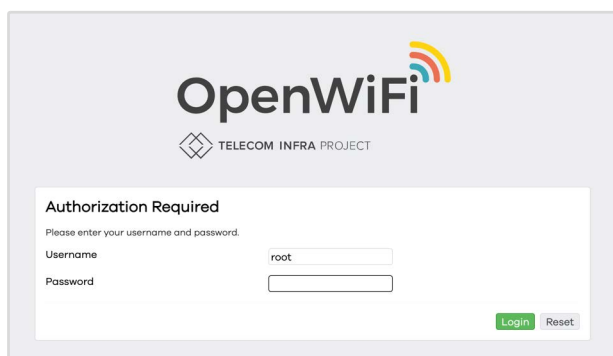
- By default, the AP is assigned an IP address through DHCP. If the AP cannot connect to ecOpen, access the AP's web interface through one of the AP's LAN ports to make configuration changes (for example, to change from DHCP to a static IP). See section "Connecting to the Web Interface".

Connecting to the Web Interface

Note that you can only connect to the AP's web interface when the AP is not connected to the Internet.

Follow these steps to connect to the AP's web interface through a network connection to one of the AP's LAN ports.

1. Connect a PC directly to one of the AP's LAN ports.
2. Set the PC IP address to be on the same subnet as the AP LAN port default IP address. (The PC address must start 192.168.1.x with subnet mask 255.255.255.0.)
3. Enter the AP's default IP address of 192.168.1.1 into the web browser address bar.
4. Log in to the web interface using the default user name "root" and password "openwifi".



Note: The TIP OpenWiFi SDK default URL of the DigiCert certificate is set to ecOpen: (<https://cloud.openwifi.ignitenet.com>). If you want to register the AP to your own TIP OpenWiFi SDK, contact oxherd@edge-core.com to change the default URL.

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 20 cm between the radiator and your body.

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 28 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 28 cm de distance entre la source de rayonnement et votre corps.

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 24 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)

5 GHz: 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40), 802.11ac (VHT80), 802.11ax (HE20), 802.11ax (HE40), 802.11ax (HE80)

BLE 2.4 GHz: 802.15.1

ZigBee 2.4 GHz: 802.15.4

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



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 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 from www.edge-core.com -> support -> download.

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 - B

5 GHz band (W52, W53): 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。

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.

Hardware Specifications

AP Chassis

Size (LxWxH)	160.5 x 89.5 x 34 mm (6.32 x 3.52 x 1.34 in.)
Weight	450 g (0.99 lb)
Temperature	Operating: 0° C to 45° C (32° F to 113° F) Storage: -20° C to 60° C (-4° F to 140° F)
Humidity	Operating: 5% to 95% (non-condensing)

Network Interfaces

Ports	Uplink(PoE) RJ-45: 1000BASE-T, PoE PD LAN1-LAN3 RJ-45: 1000BASE-T LAN4 RJ-45: 1000BASE-T, PoE out (PSE) (EAP104 (T) only) Pass-Thru RJ-45: Rear to bottom
2.4 GHz Radio	IEEE 802.11b/g/n/ax
5 GHz Radio	IEEE 802.11a/ac/n/ax
Bluetooth Radio	IEEE 802.15.1 (EAP104 (T) only)
ZigBee Radio	IEEE 802.15.4 (EAP104 (T) only)
Radio Frequencies	2.4–2.4835 GHz (US, Canada, ETSI, Japan, TW) 5.15–5.25 GHz (lower band) US/Canada, TW 5.725–5.85 GHz (upper band) US/Canada, 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	22.4 W max, 48 VDC–55 VDC; 802.3at-compliant
AC Power Adapter	AC Input: 100–240 VAC, 50-60 Hz DC Output: 12 VDC, 2 A

Regulatory Compliances

Radio	EN300 328 V2.2.2 (2019-07) EN301 893 V2.1.1 (2017-05) 47 CFR FCC Part 15.247 47 CFR FCC Part 15.407 IC RSS-247 Issue 2 and RSS-Gen Issue 5 NCC LP0002 Section 4.10.1 (2020-07-01) NCC LP0002 Section 5.7 (2020-07-01) MIC certification Rule, Article 2 Paragraph 1 Item 19 MIC certification Rule, Article 2 Paragraph 1 Item 19-3
Emissions	EN 301 489-1 V2.1.1 (2017-02) EN 301 489-17 V3.1.1 (2017-02) EN 55032:2015 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 13438 terminal equipment design certification, Article 3, Article 4, Article 6, Article 9 and Article 34 regulation
Safety	Low Voltage Directive IEC 62368-1:2014;and/or EN 62368-1:2014+A11:2017; and/or BS 62368-1:2014+A11:2017 CNS 14336-1 IEC/EN 62368-1, IEC/EN 60950-1
Taiwan RoHS	CNS 15663
