

Quick Start Guide

Dual-Band WiFi 6 Indoor Access Point (802.11ax 2x2)

EAP101



Smart Buildings.
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Package Contents



1. EAP101 access point
2. AC power adapter with international socket converters
3. Mounting bracket accessory
4. Mounting bracket security screw

5. Screw kit—4 screws and 4 plugs
6. Console cable—RJ-45 to DB-9 (TIP SKU only)

Overview



1. 12 VDC power input
2. Restart/Reset button
3. USB 2.0 port (reserved for future use)
4. Console port (reserved for future use)
5. LAN1/LAN2 Ports: 1 Gbps connection to LAN devices.
6. Uplink(PoE) Port: 2.5 Gbps connection to 802.3at PoE.
7. System LED Indicators:
 - 2.4G
 - 5G
 - Power/Status
8. Kensington lock slot

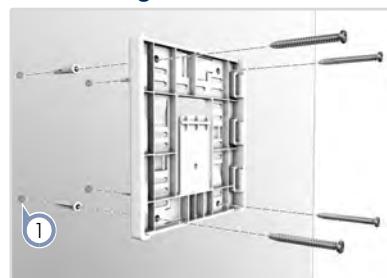
Installation



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



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.

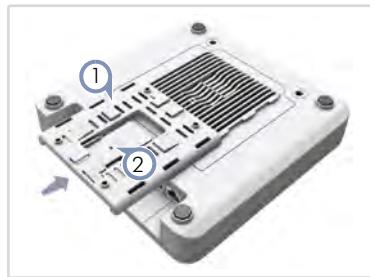


Note: Drill 2.5 mm (± 0.2 mm) holes for M3 self-tapping screws, or 4.5 mm (± 0.2 mm) holes for nylon wall plugs.

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

2. With its ports facing down, place the AP over the bracket flanges and then slide it down until it snaps into its secured position.

b. Mounting on a Suspended Ceiling T-Bar



1. Slide the bracket accessory onto the base of the AP until it clicks into its locked position.
2. Use the included security screw to 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 24.5 mm bars. Use the position at a 90 degrees angle for 15 mm bars.

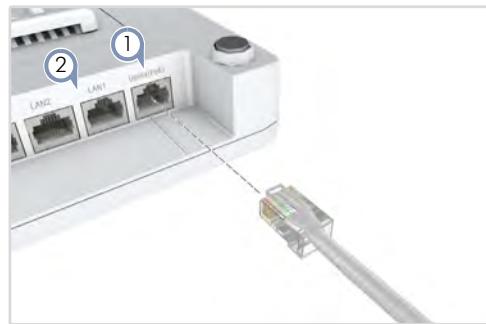
c. Mounting on a Ceiling Without T-Bars



1. At the installation location on the ceiling, use the mounting bracket to mark four holes for the plugs and screws (included in the screw kit). Drill four holes for the plugs, and then insert the plugs and tap them flush with the ceiling surface. Use the four screws to secure the bracket to the ceiling (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.

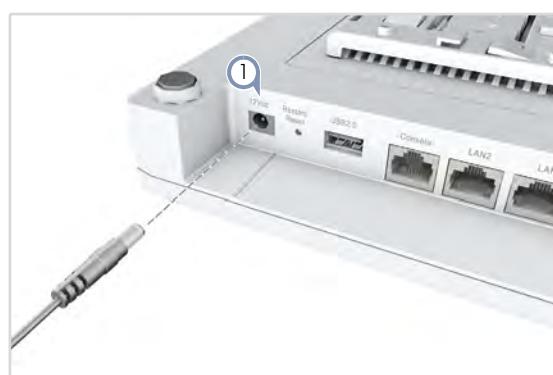
2 Connect Cables

a. Connect LAN Cables



1. Connect Category 5e or better cable to the Uplink(PoE) 2.5G 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 LAN1 or LAN2 1000BASE-T RJ-45 ports.

b. (Optional) Connect AC Power Adapter



1. When not connected to a PoE source, connect the AC power adapter to the DC power jack on the AP and then plug the adapter into a nearby AC power source.

3 Check AP LEDs



1. 2.4G and 5G LEDs — on green for radio enabled.
2. Power/Status LED — on green for normal operation.

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 24 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 23 cm away from any nearby persons.

3. External antenna

Use only the antennas which have been approved by the applicant. Using non-approved antenna(s) is prohibited and may produce unwanted spurious or excessive RF transmitting power which may lead to a violation of FCC limits.

4. Installation procedure

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

5. 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.

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

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.

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

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 (WxDxH) 195 x 195 x 39 mm (7.68 x 7.68 x 1.54 in.)

Weight 0.65 kg (1.435 lb)

Temperature Operating: 0° C to 50° C (32° F to 122° 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 Port: 2.5G, PoE PD
LAN1 RJ-45 Port: 1000BASE-T
LAN2 RJ-45 Port: 1000BASE-T

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

Radio Frequencies 2.4–2.4835 GHz (US, Canada, ETSI, Japan, TW)
5.15–5.25 GHz (lower band) US/Canada, TW
5.725–5.825 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

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

47 CFR FCC Rules and Regulations Part 15
Subpart B, Class B Digital Device
ICES-003, Issue 7 Class B

Safety Low Voltage Directive IEC 62368-1:2014;and/or
EN 62368-1:2014+A11:2017; and/or BS
62368-1:2014+A11:2017

IEC/EN 62368-1, IEC/EN 60950-1