

# FortiAP 423E



September 5, 2019

FAP-421F

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# Box Includes



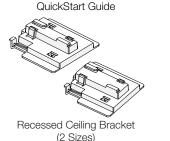
Standard Ceiling Bracket

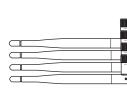
(2 Sizes)





Information Supplement





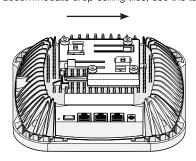
5 GHz Antennas (4) 2.4 GHz Antennas (4)

## Installation

The unit can be mounted on a ceiling using the provided ceiling mounting bracket.

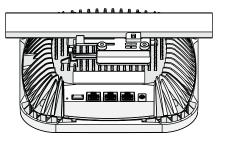
## To attach the unit to a ceiling using the ceiling mount bracket:

 Attach the ceiling mount bracket to the bottom cover of the FortiAP unit by sliding the ceiling the mount bracket from the left to the right onto the FortiAP Unit.
 If extra space is required to accommodate drop ceiling tiles, use the taller ceiling mount bracket.



2. Select an appropriate location, hold the device against the ceiling t-rail, and push the FortiAP unit onto the ceiling until it snaps into place.

The unit can be removed from the bracket by pressing on the bracket tab and sliding the device out.



**Note:** Four ceiling mount brackets are included; both standard and recessed ceiling mount brackets come in sizes: 1.43cm (9/16in) and 2.38cm (15/16in).

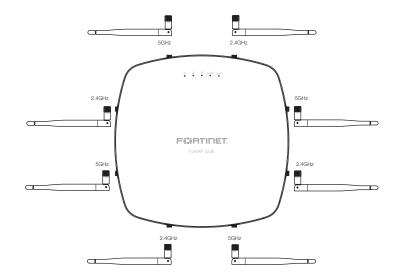
To protect your device from unauthorized removal, use the Kensington™ Security Slot to attach a cable lock (not included).

# Antennas

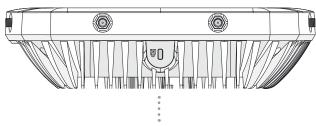
The FortiAP 423E unit provides dual concurrent radio signals. Use the 2.4GHz antennas to access 802.11b/g/n signals, and the 5GHz antennas to access 802.11/a/n/ac signals. To use both radio frequencies concurrently, use all eight WiFi antennas.

# Installing the WiFi Antennas

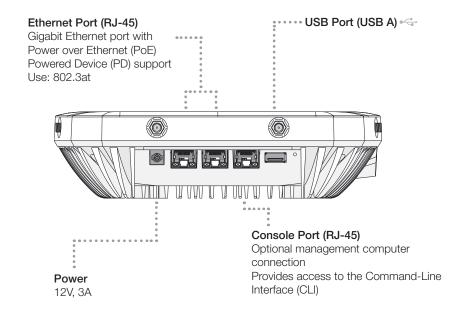
- 1. Insert the antenna base firmly into the appropriate antenna mount.
- 2. Securely hand tighten the fastening collar
- 3. Repeat for the remaining antennas



# FAP-423E

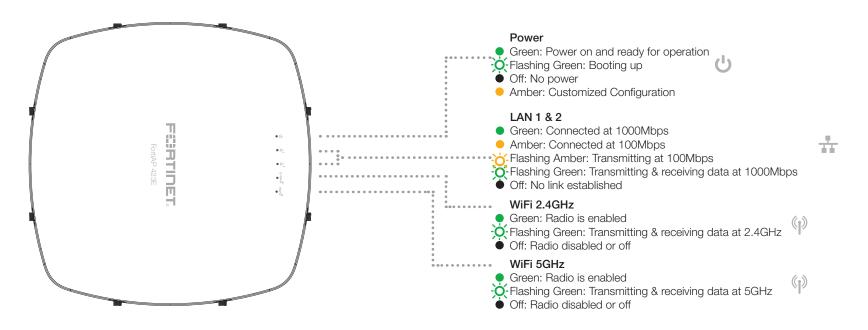


Kensington™ Security Slot
Anti-theft security slot for
connecting lock-and-cable
apparatus



9

# FAP-423E



10

## Cautions and Warnings

## Environmental specifications

Ambient operating temperature: 0-45°C.

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

#### Safety

Caution: This equipment is to be used in a Network Environment 0 per IECTR 62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12 Vdc, 3 A, Tma = 45°C or by 48-57 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 3 A, Tma = 45°C nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 48-57 Vdc (POE).

Suitable for use in environmental air space in accordance with Section 300-22(C) of the National Electrical Code, and Sections 2-128, 12-010(3) and 12-100 of the Canadian Electrical Code. Part 1. CSA C22.1.

Convient pour une utilisation dans l'espace aérien conformément à l'article 300-22 (C) du Code National de l'Electricité, et des articles 2-128, 12-010 (3) et 12-100 du Code de l'électricité canadien. Partie 1. CSA C22 1

### Regulatory Notices

# Federal Communication Commission (FCC) – USA

This device complies with Part 15 of 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.

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 residential installation. This equipment generates, uses, and can readiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
   Connect the equipment into an outlet on a circuit different
- 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.

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 31cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution: Operation of this device is restricted to indoor use only.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

#### Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

# Innovation, Science and Economic Development (ISED) – Canada

This device complies with ISED license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d' ISED applicables aux appareils racio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage racioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 36cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 36cm de distance entre la source de rayonnement et votre corps.

The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

Caution: Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Attention: De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Attention: Le dispositif de la bande 5150-5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite cocanal. Les radars à haute puissance sont désignés comme utilisateurs prioripiaux (à savoir les utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou endommager les périphériques LE-LAN.

#### External antennas:

	Antenna Type	Antenna Connector	Gain (dBi)	
			2.4 GHz	5 GHz
	Dipole	RP SMA plug	4.42	3.18

This device has been designed to operate with an antenna having a maximum gain of 4.4 2 dBi for 2.6Hz and 3.18 dBi for 5GHz. Antenna having a higher gain is strictly prohibited per regulations of ISED. The required antenna impedance is 50 ohms.

Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotopically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de 4.4 CBI pour 2,4 GHz et 3.18 dBi pour 5GHz. Une antenne ayant un gain supérieur sont strictement interdites par la réglementation d'ISED. L'impédance d'antenne requise est de 50 ohrss.

Conformément à la réglementation d'ISED, cet émetteur radio peut fonctionner seulement avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par ISED. Dans le but de réduire les risques de brouillage radioélectrique aux autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication réussie. This radio transmitter (72808-28168011) has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (7280B-28166011) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and it's antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnement en association avec une autre antenne ou transmetteur.

#### European Conformity (CE) - EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



The product transmits within the frequency ranges and less than or equal to the power listed below: 2412-2472 MHz less than 20 dBm 5180-5240 MHz less than 23 dRm 5260-5320 MHz less than 23 dBm 3 5500-5700 MHz less than 30 dBm \*

Note: \* Only with DFS bands certification.

#### Simplified EU Declaration of Conformity

This declaration is only valid for Fortinet products (including, combinations of software, firmware and hardware) provided by Fortinet or Fortinet's authorized partners to the endcustomers directly for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. Any Fortinet products not obtained directly from Fortinet or Fortinet's authorized partners may not comply with EU Directives and Fortinet makes no assurances for such products.

## Български

Този продукт е в съответствие с Директива 2014/53/ЕС.

## Česky

Tento produkt je v souladu se směrnicí 2014/53/EU.

#### Dansk

Dette produkt er i overensstemmelse med direktiv 2014/53/EU

#### Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

#### Eesti

See toode vastab direktiivile 2014/53/FL.

#### English

This product is in compliance with Directive 2014/53/EU.

#### Español

Este producto cumple con la Directiva 2014/53/UE.

#### Ελληνική

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

#### Français

Ce produit est conforme à la Directive 2014/53/UE.

#### Hrvatski

Ovai proizvod je u skladu s Direktivom 2014/53/EU.

Questo prodotto è conforme alla Direttiva 2014/53/EU.

#### Latviski

Questo prodotto è conforme alla Direttiva 2014/53/EU.

#### Lietuviu

Šis gaminys atitinka direktyva 2014/53/ES.

Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Ez a termék megfelel a 2014/53/EU iránvelvnek.

#### Nederlands

Dit product is in overeenstemming met Richtlijn 2014/53/EU.

#### Norsk

Dette produktet er i samsvar med direktiv 2014/53/EU.

#### Polski

Ten produkt jest zgodny z dyrektywa 2014/53/UE.

### Português UF.

Este produto está em conformidade com a Diretiva 2014/53/

#### Rumunski

Acest produs este în conformitate cu Directiva 2014/53/UE.

Tento produkt je v súlade so smernicou 2014/53/EÚ.

#### Slovensko

Ta izdelek ie v skladu z Direktivo 2014/53/EU.

Tämä tuote on direktiivin 2014/53/EU mukainen.

## Suomi Svenska

Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available in the link below: https://site.fortinet.com/ProductRegulatory/EU

#### Voluntary Control Council for Interference (VCCI) - Japan

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取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B

#### Bureau of Standards Metrology and Inspection (BSMI) - Taiwan

The presence conditions of the restricted substance (BSMI BoHS table) are available at the link below: https://www.fortinet.com/bsmi

#### Korea Certification (KC) - Korea

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National Telecommunications Commission (NCC) - Taiwan

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前項合法通信,指依電信法規定作業之無線電通信,

低功率射頻電機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。

在5.25-5.35科赫斯帶內操作之無線資訊傳輸設備、限於室

電磁波曝露量MPE標準值1mW/cm2, 送測產品實測值為: 31cm

#### Agência Nacional de Telecomunicações (ANATEL) - Brazil

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.



Para maiores consultas sobre ANATEL consulte o site: www.anatel.gov.br

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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