



FortiAP 421E

Information

Box Includes



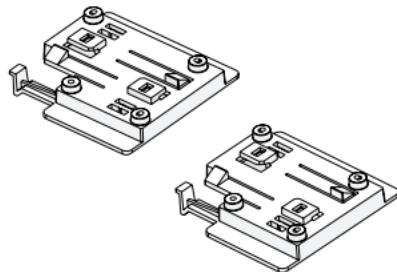
FortiAP 421E



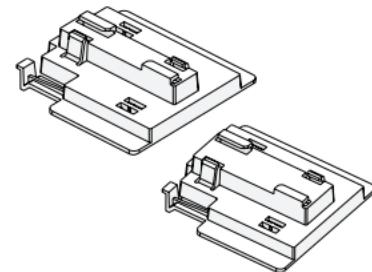
QuickStart Guide
FortiAP



FortiAP 421E
Information



Standard Ceiling Bracket
(2 Sizes)



Recessed Ceiling Bracket
(2 Sizes)

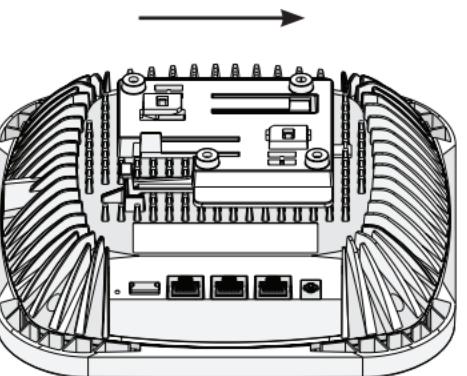
Installation

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:

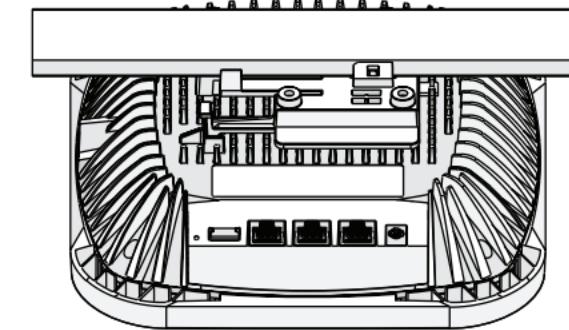
1. Attach the [ceiling mount bracket](#) to the bottom cover of the FortiAP unit by sliding the ceiling mount bracket from the left to the right onto the FortiAP Unit.

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.

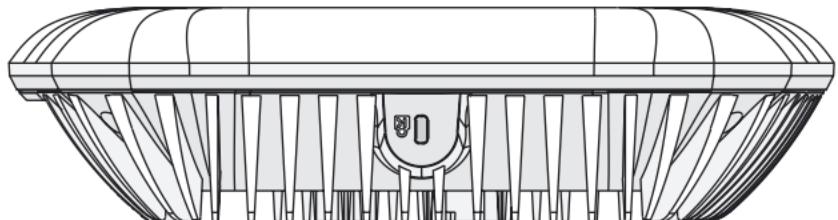
The unit can be removed from the bracket by pressing on the bracket tab and sliding the device out.



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).

Device Guide



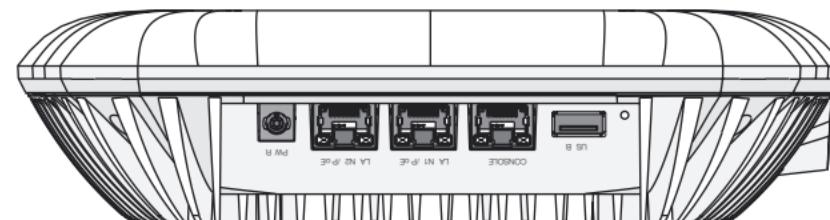
Kensington™ Security Slot

Anti-theft security slot for connecting lock-and-cable apparatus

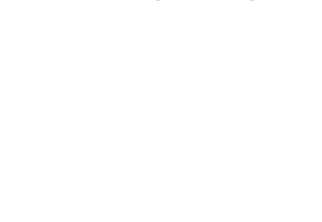


Ethernet Port (RJ-45)

Gigabit Ethernet port with Power over Ethernet (PoE) Powered Device (PD) support Use: 802.3at



USB Port (USB A)

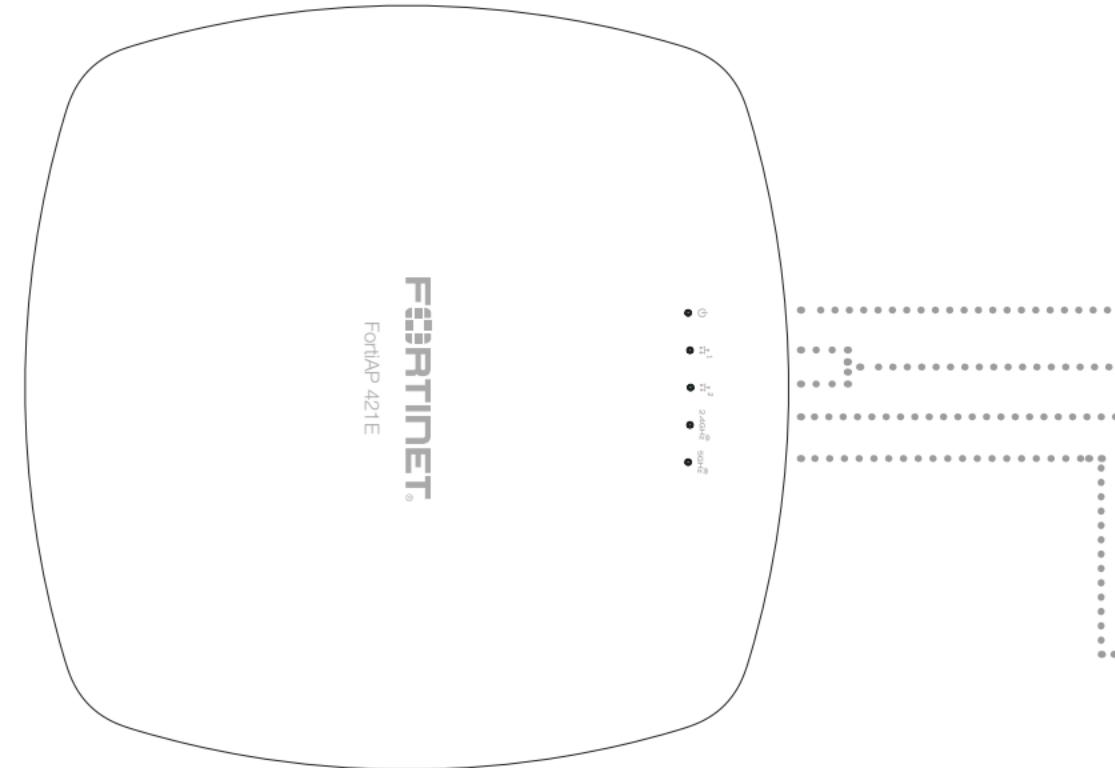


Power
12V, 3A

Console Port (RJ-45)

Optional management computer connection Provides access to the Command-Line Interface (CLI)

Device Guide



Power

- Green: Power on and ready for operation
- Flashing Green: Booting up
- Off: No power
- Amber: Customized Configuration



LAN 1 & 2

- Green: Connected at 1000Mbps
- Amber: Connected at 100Mbps
- Flashing Amber: Transmitting at 100Mbps
- Flashing Green: Transmitting & receiving data at 1000Mbps
- Off: No link established



WiFi 2.4G

- Green: Radio is enabled
- Flashing Green: Transmitting & receiving data at 2.4GHz
- Off: Radio disabled or off



WiFi 5GHz

- Green: Radio is enabled
- Flashing Green: Transmitting & receiving data at 5GHz
- Off: Radio disabled or off



Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 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 IEC/EN 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 IEC/EN 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).

The connecting cable between the outdoor equipment and the indoor ITE devices should comply with Class 3 wiring methods as listed in NEC, Table 725.154(G) for Class 3 Cable Substitutions.

Le câble connectant l'équipement extérieur et ceux d'intérieur de type ITE doit être conforme avec les méthodes de câblage de classe 3 tel que listé dans le standard NEC, Table 725.154(G) pour les câbles de substitutions de classe 3.

This product is intended to be supplied by 48-57Vdc from POE

or by a UL Listed / IEC Certified ITE AC/DC adaptor rated output 12Vdc, 3A, Tma = 45°C, (marked LPS or Class 2).

Ce produit est fourni par la puissance de 48-57VDC alimentation POE, certifié IEC / UL avec l'émission de 12VDC, 3A, Tma = 45 ° C (Marqué LPS ou classe 2)

PoE input cable type should be CL3, CL3P, CL3R, CL3X, marked "SUNLIGHT RESISTANT", "SUN. RES.", or "SR." and "water resistant" or "W".

Le type de câble PoE d'entrée doit être CL3, CL3P, CL3R, CL3X marqué "SUNLIGHT RESISTANT", "SUN RES.", Ou "SR", et "waterproof" ou "W".

If further assistance is needed with purchasing a power source and POE input cable, please contact Fortinet, Inc.

Si vous avez besoin de plus d'aide à l'achat de l'alimentation et le fil d'entrée PoE, s'il vous plaît communiquer avec Fortinet, Inc.

The Console port is not intended to be connected to the computer after the outdoor installation is completed.

La porte Console n'est pas destinée à être raccordée à l'ordinateur après l'installation extérieure faite.

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 radiate 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 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 31 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For operation within 5.15 ~ 5.25GHz, it is restricted to indoor environment.

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

CAN ICES-3 (B) / NMB-3 (B)

Industry Canada (IC RSS) – Canada

This device complies with Industry Canada 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'Industrie Canada applicables aux appareils radio 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 radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 37 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 37 cm de distance entre la source de rayonnement et votre corps.

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.

Attention: Le dispositif de la bande 5150-5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentiellement aux systèmes mobiles par satellite co-canal.

Caution: 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.

Attention: Le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5725 à 5850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation 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.

This radio transmitter (7280B-28166011) has been approved by Industry Canada 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 Industrie Canada 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.

FAP-421E and FAP-S421E antennas:

Ant.	Antenna Type	Connector	Gain (dBi)	
			2.4GHz	5GHz
1	Printed	IPEX	3.81	-
2	Printed	IPEX	3.98	-
3	Printed	IPEX	3.47	-
4	Printed	IPEX	3.75	-
5	Printed	IPEX	-	5.65
6	Printed	IPEX	-	5.50
7	Printed	IPEX	-	5.84
8	Printed	IPEX	-	5.84

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

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.

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.



This device and its 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-localisé ou fonctionnement en association avec une autre antenne ou transmetteur.

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.

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