



# FortiAP S423E

Information

## Box Includes



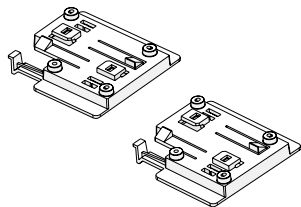
FortiAP S423E



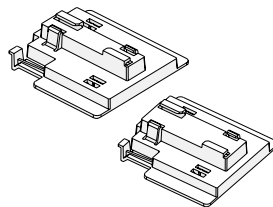
QuickStart Guide



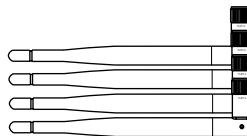
Information Supplement



Standard Ceiling Bracket  
(2 Sizes)

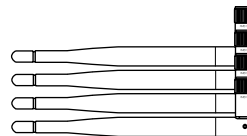


Recessed Ceiling Bracket  
(2 Sizes)



5 GHz Antennas (4)

## Box Includes



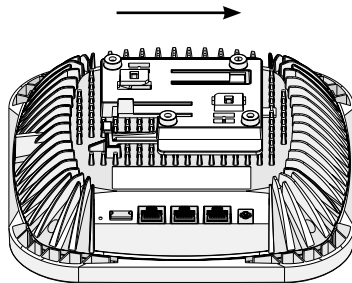
2.4 GHz Antennas (4)

# Installation

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

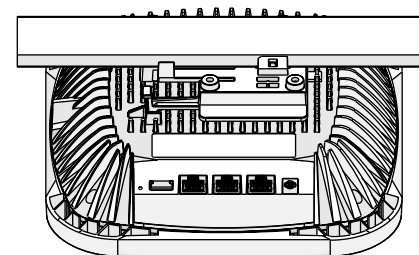
## To attach the unit to a ceiling using the ceiling mount bracket:

1. 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

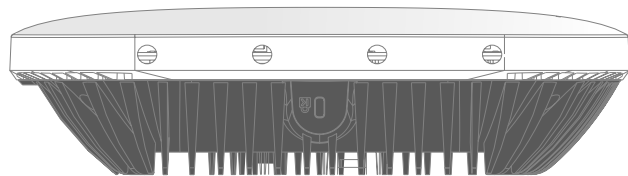
The FortiAP S423E unit provides dual concurrent radio signals. Use the 2.4GHz antennas to access 802.11b/g/n signals, and the 5GHz antennas to access 802.11a/n/ac signals. To use both radio frequencies concurrently, use all eight WiFi antennas.

## 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



## Device Guide



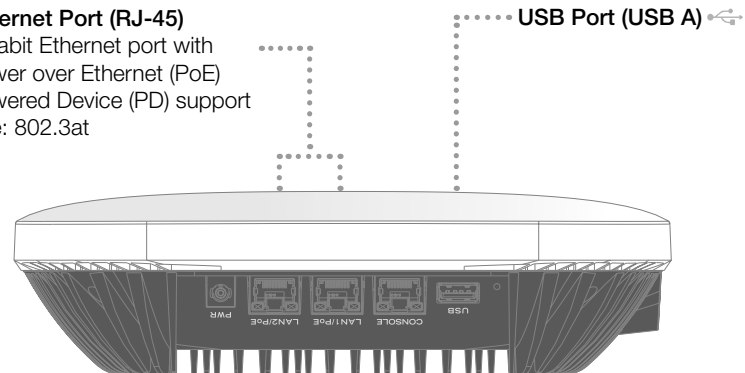
### Kensington™ Security Slot

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



### WiFi 5GHz

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



### WiFi 2.4GHz

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



### 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



### Power

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



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 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).

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 30 cm 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.

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 30 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 30 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 potentielle aux systèmes mobiles par satellite co-canal.

This device has been designed to operate with an antenna having a maximum gain of 4.42 dBi for 2.4GHz and 5.84 dBi for 5GHz. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. 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 4.42 dBi pour 2,4 GHz et 5.84 dBi pour 5GHz. Une antenne ayant un gain supérieur sont strictement interdites par la réglementation d'Industrie Canada. L'impédance

d'antenne requise est de 50 ohms.

Conformément à la réglementation d'Industrie Canada, cet émetteur radio peut fonctionner seulement avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. 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 (7280B-28166022) 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-28166022) 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-S421E antennas:

| Ant. | Brand Holder         | P/N          | Antenna Type | Connector | Gain (dBi) |      |      |
|------|----------------------|--------------|--------------|-----------|------------|------|------|
|      |                      |              |              |           | 2.4GHz     | 5GHz |      |
|      |                      |              |              |           |            | B1   | B4   |
| 1    | Senao Networks, Inc. | 5718A0167300 | PIFA Antenna | IPEX      | 3.98       | -    | -    |
| 2    | Senao Networks, Inc. | 5718A0168300 | PIFA Antenna | IPEX      | 3.98       | -    | -    |
| 3    | Senao Networks, Inc. | 5718A0115300 | PIFA Antenna | IPEX      | 3.98       | -    | -    |
| 4    | Senao Networks, Inc. | 5718A0116300 | PIFA Antenna | IPEX      | 3.98       | -    | -    |
| 5    | Senao Networks, Inc. | 5718A0146300 | PIFA Antenna | IPEX      | -          | 4.78 | 5.84 |
| 6    | Senao Networks, Inc. | 5718A0118300 | PIFA Antenna | IPEX      | -          | 4.78 | 5.84 |
| 7    | Senao Networks, Inc. | 5718A0169300 | PIFA Antenna | IPEX      | -          | 4.78 | 5.84 |
| 8    | Senao Networks, Inc. | 5718A0120300 | PIFA Antenna | IPEX      | -          | 4.78 | 5.84 |

Note : The EUT has eight internal antennas.

FAP-S423E antennas:

| Ant. | Brand Holder                     | Model Name   | Antenna Type   | Connector   | Gain (dBi) |      |
|------|----------------------------------|--------------|----------------|-------------|------------|------|
|      |                                  |              |                |             | 2.4GHz     | 5GHz |
| 1    | Master Wave Technology Co., Ltd. | 98152MRSX010 | Dipole Antenna | RP SMA Male | 4.42       | -    |
| 2    | Master Wave Technology Co., Ltd. | 98152MRSX010 | Dipole Antenna | RP SMA Male | 4.42       | -    |
| 3    | Master Wave Technology Co., Ltd. | 98152MRSX010 | Dipole Antenna | RP SMA Male | 4.42       | -    |
| 4    | Master Wave Technology Co., Ltd. | 98152MRSX010 | Dipole Antenna | RP SMA Male | 4.42       | -    |
| 5    | Master Wave Technology Co., Ltd. | 98152URSX005 | Dipole Antenna | RP SMA Male | -          | 3.18 |
| 6    | Master Wave Technology Co., Ltd. | 98152URSX005 | Dipole Antenna | RP SMA Male | -          | 3.18 |
| 7    | Master Wave Technology Co., Ltd. | 98152URSX005 | Dipole Antenna | RP SMA Male | -          | 3.18 |
| 8    | Master Wave Technology Co., Ltd. | 98152URSX005 | Dipole Antenna | RP SMA Male | -          | 3.18 |

Note : The EUT has eight antennas.

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 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.

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.

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.



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Hardware appliance products other than the FortiSwitch-5000 series (for both excluding spare parts, power supplies, and accessories), the warranty herein shall last from the start of the warranty period as discussed above until five (5) years following the product announced end-of-life date), and, for spare parts, power supplies, and accessories, solely a ninety (90) days limited warranty. Fortinet's sole obligation shall be to repair or offer replacement Hardware for the defective Hardware at no charge to the original owner. This obligation is exclusive of transport fees, labor, de-installation, installation, reconfiguration, or return shipment and handling fees and costs, and Fortinet shall have no obligation related thereto. Such repair or replacement will be rendered by Fortinet at an authorized Fortinet service facility as determined by Fortinet. The replacement Hardware need not be new or of an identical make, model, or part; Fortinet may, in its discretion, replace the defective Hardware (or any part thereof) with any reconditioned Product that Fortinet reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. The Hardware Warranty Period for the repaired or replacement Hardware shall be for the greater of the remaining Hardware Warranty Period or ninety days from the delivery of the repaired or replacement Hardware. If Fortinet determines in its reasonable discretion that a material defect is incapable of correction or that it is not practical to repair or replace defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by Fortinet upon return to Fortinet of the defective Hardware. All Hardware (or part thereof) that is replaced by Fortinet, or for which the purchase price is refunded, shall become the property of Fortinet upon replacement or refund. Fortinet warrants that the software as initially shipped with the Hardware Products will substantially conform to Fortinet's then current functional specifications for the Software, as set forth in the applicable documentation for a period of ninety (90) days ("Software Warranty Period"), if the Software is properly installed on approved Hardware and operated as contemplated in its documentation. Fortinet's sole obligation shall be to repair or offer replacement Software for the non-conforming Software with software that substantially conforms to Fortinet's functional specifications. This obligation is exclusive of transport fees, labor, de-installation, installation, reconfiguration, or return shipment and handling fees and costs, and Fortinet shall have no obligation related thereto. Except as otherwise agreed by Fortinet in writing, the warranty replacement Software is provided only to the original licensee, and is subject to the terms and conditions

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