



FortiAP S322CR

Information

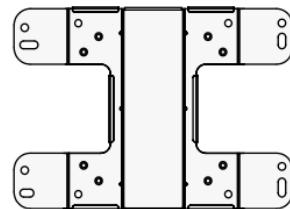
Box Includes



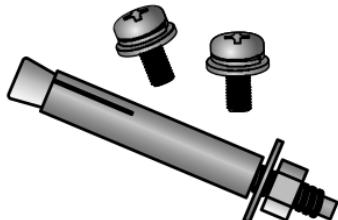
FortiAP S322CR



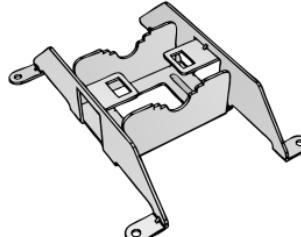
Information Supplement



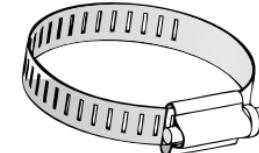
Wall Mount Bracket



Mounting Screws (8) & Bolts (4)



Pole Mount Bracket



Pole Mount Strap

Box Includes



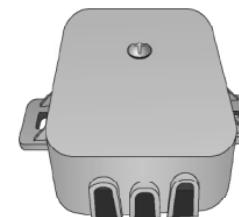
Grounding Screw



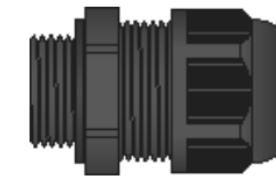
PoE Injector



Power Adapter



Surge Protector

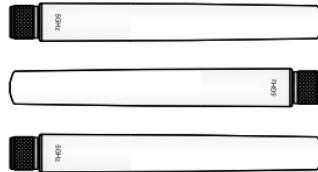


Waterproof Connector

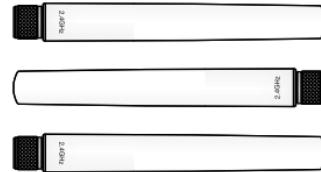


3 Grounding Cables

Box Includes



5GHz Antenna (3)



2.4GHz Antenna (3)

Installation

IMPORTANT NOTE: The device must be professionally installed and must use the supplied antennas.

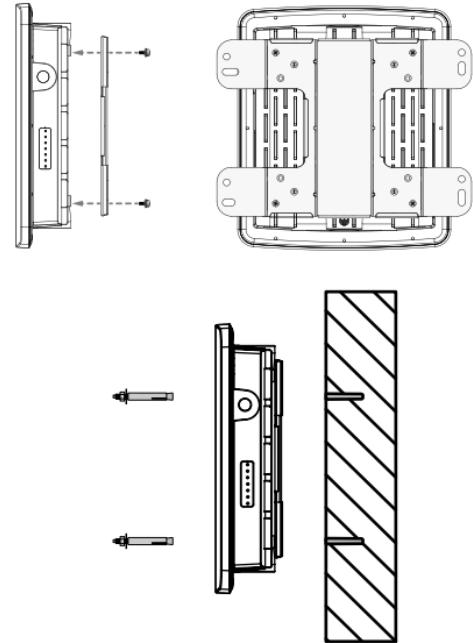
The unit is designed for outdoor use and may be attached to either a pole or wall. A waterproof connector is supplied to ensure a watertight seal for connecting the Ethernet cable to the device.

Note: The device can be mounted either outdoors or indoors. The included PoE injector and surge protector must be mounted indoors, as they are not weatherproof.

To mount the device on a wall

1. Using the wall-mount base as a template, mark the location of the mounting bolt holes on a flat wall surface.
2. Drill the mounting holes in the marked locations.
3. Fasten the wall-mount base securely to the back of the unit using the provided mounting screws.

4. Attach the unit and base assembly to the wall using the provided mounting bolts.

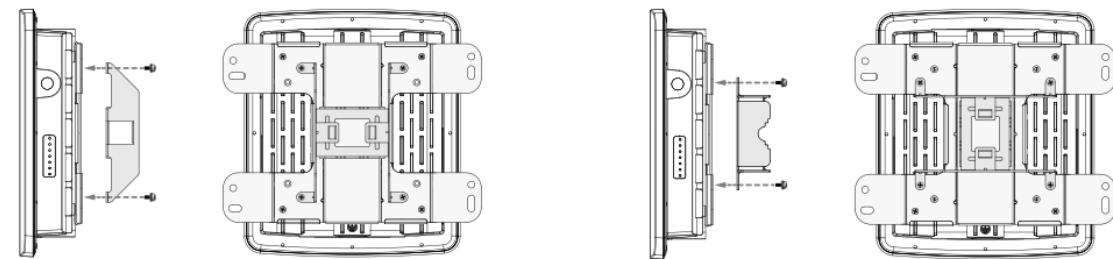


5. Securely tighten the mounting bolts.

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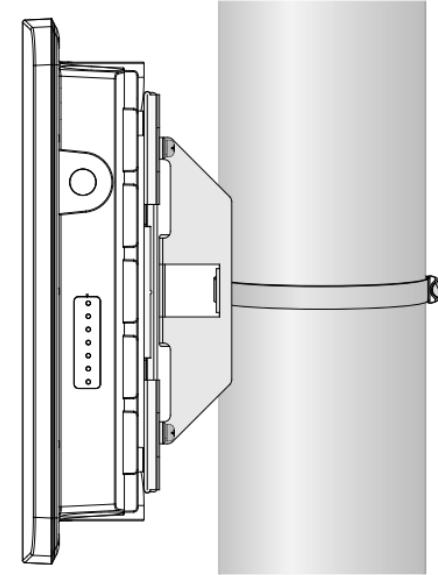
To mount the FortiAP unit on a pole

1. Fasten the wall-mount base securely to the back of the unit using the provided mounting screws.
2. Attach the pole-mount bracket to the wall-mount base using with the provided screws.
The pole-mount bracket can be attached either vertically or horizontally, as required.



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3. Loop the provided pole strap through the slots on the pole-mount bracket and then around the pole.
4. Tighten the strap with an appropriate screw driver and ensure that the device is firmly in place.



Antennas

The FortiAP S322CR unit provides dual concurrent radio signals. Use the 2.4GHz antennas to access Radio 1 (802.11 b/g/n at 300Mbps) signals, and the 5GHz antennas to access Radio 2 (802.11 a/n/c at 867Mbps) signals. To use both radio frequencies concurrently, use all six WiFi antennas.

To Install 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.

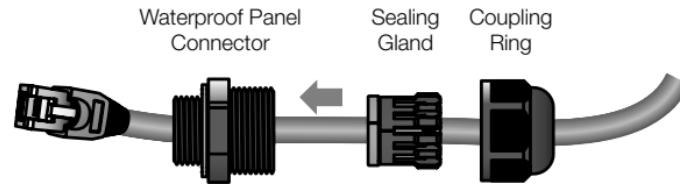


Cabling

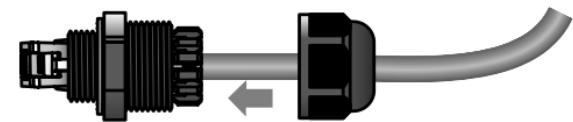
The unit requires 48V DC power, which is delivered by the PoE injector, through the surge protector, over a straight-through Ethernet cable.

To install the weatherproof connector

1. Unscrew the coupling ring from the waterproof connector, remove the sealing gland, and thread the RJ-45 plug through the connector components.



2. Insert the RJ-45 plug into the PoE port on the unit and install the weatherproof panel connector onto the threaded coupling at the port.
3. Slide the sealing gland along the cable into the panel connector.



4. Thread the coupling ring onto the panel connector and tighten it until the sealing gland is compressed, making a watertight seal on the cable.



Connections

Adequate grounding must be provided to the FortiAP unit, the PoE injector, and the surge protector; grounding lugs and cables are provided for this purpose. Consult a certified electrician to ensure that all grounding and cabling is installed in compliance with the local electrical code.

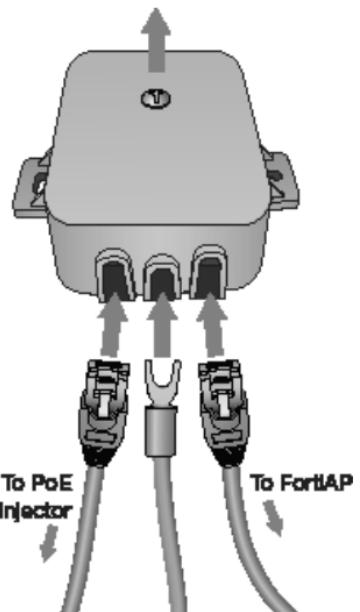
Use an exterior-grade or direct burial CAT5 Ethernet cable for connecting the outdoor unit to the surge protector. Use the supplied weatherproof connector to ensure a tight seal at the PoE port on the unit.

Note: The PoE injector and surge protector units are not weatherproof and must be mounted indoors. They should be mounted as close together as possible.

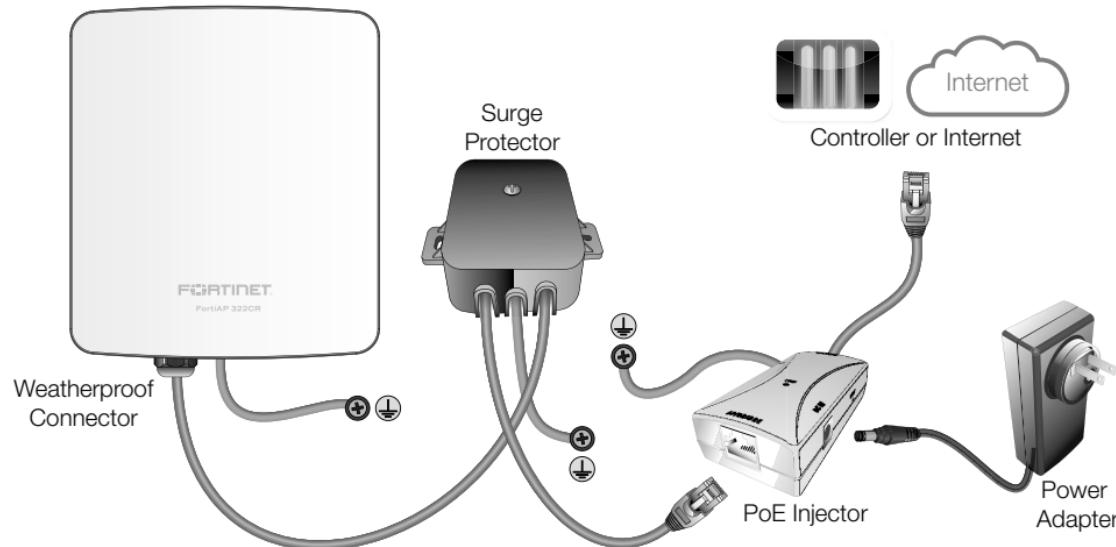
Caution: Do not connect the PoE injector to a PoE enabled Ethernet port.

To wire the surge protector

1. Remove the cover of the surge protector using an appropriate screwdriver.
2. Connect the ground wire with the spade lug connector to the grounding post between the two Ethernet connectors.
3. Connect the straight-through Ethernet cable that will connect to the FortiAP unit to the Ethernet port on the right side of the surge protector.
4. Connect the straight-through Ethernet cable that will connect to the PoE injector the Ethernet port on the left side of the surge protector.
5. Ensure that the cables comfortably pass through the provided slots on the front of the surge protector.
6. Replace the cover onto the surge protector using an appropriate screwdriver.



To Connect the FortiAP unit



1. Connect grounding cables to the grounding lugs on both the FortiAP unit (bottom middle of unit), using the provided grounding screw, and the PoE injector, then connect the other ends of the cables to appropriate ground connections.
2. Connect the surge protector's grounding cable to an appropriate ground connection.
3. Connect the region-specific AC plug adapter to the AC power adapter by inserting the round disk into the adapter and rotating clockwise until you hear the disk lock in place.
4. Insert the DC plug of the power adapter into the DC IN port on the PoE injector, then plug the AC adapter into an appropriate power outlet. The Power LED will light up.
5. Connect one end of a cross-over Ethernet cable to the Network port on the PoE injector. Connect the other end to the FortiGate controller or an Internet connection. Do not connect the PoE injector to a PoE enabled Ethernet port.
6. Using the supplied weatherproof connector, connect the weatherproof, straight-through Ethernet cable on the right side of the surge protector to one of the PoE ports on the bottom of the FortiAP unit, as described in "Cabling" on page 9.
7. Connect the straight-through Ethernet cable on the left side of the surge protector into the AP/Bridge port on the PoE injector.

Device Guide

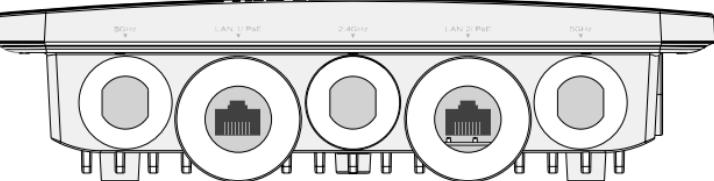
Ground Lug
Grounding cable connection



AP/Bridge Port (RJ-45)
48V DC PoE output.
15

Ethernet Port (RJ-45)

Gigabit Ethernet port with Power over Ethernet (PoE) Powered Device (PD) support



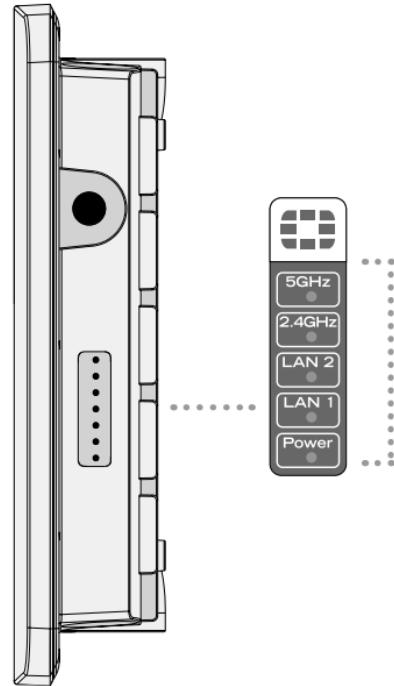
Network Port (RJ-45)

Gigabit Ethernet port

DC In

Power adapter connection
100-240V AC, 50-60Hz, 1.5A max

2.4GHz Antenna Mount (3)
5GHz Antenna Mount (3)



Radio 2 - 5GHz

Green: Radio is enabled
Flashing Green: Transmitting & receiving at 5G
Off: Radio disabled or off

Radio 1 - 2.4GHz

Green: Radio is enabled
Flashing Green: Transmitting & receiving at 2.4G
Off: Radio disabled or off

LAN 1 & 2

Green: Connected
Flashing Green: Transmitting & receiving data
Off: Not connected

Power

Green: Power on & ready
Flashing Green: Booting up
Off: No power

Cautions and Warnings

Environmental Specifications

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

Safety

Grounding — To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.

Mise à la terre — Pour éviter d'endommager votre matériel, assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurteuse et sont correctement mis à la terre. Utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise.

Power over Ethernet (PoE) — Do not connect this device to PoE networks with routing to the outside plant. Use this equipment in a Network Environment 0 per IECTR 62101. Do not use PoE injectors that are not IEEE 802.3af compliant. They may damage your device.

Alimentation par Ethernet — Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce matériel est uniquement connecté aux réseaux PoE sans installation externe de routage. Cet appareil est conforme aux normes IEEE 802.3af. Ne pas utiliser d'autres injecteurs d'alimentation non conformes sous peine d'endommager votre matériel.

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 has a separate protective earthing terminal provided on the back of the product in addition to the grounding terminal of the attachment plug. This separate protective earthing terminal must be permanently connected to earth with a green with yellow stripe conductor minimum size # 14 AWG and the connection is to be installed by a qualified service personnel.

Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise. Cette séparation protège la borne de mise à la terre qui doit être en permanence reliée au conducteur à rayure verte et jaune de taille minimum #14 AWG. Seul un technicien qualifié est autorisé à effectuer le raccordement.

Regulatory Compliance

Federal Communication Commission (FCC) – USA

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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. 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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antenna must be installed vertically as described in the manual for all outdoor use condition for ensuring that all emission above 30 degree elevation will not exceed FCC 21dBm eirp limit.

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

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 42cm between the radiator & your body.

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

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

This device complies with RSS-247 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Caution :

- (i) 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;
 - (ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
 - (iii) 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; and
 - (iv) the worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.
- (v) Users should also be advised that 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.

Avertissement:

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment :

- (i) 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;
- (ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5250 à 5 350 MHz et de 5470 à 5725 MHz doit être conforme à la limite de la p.i.r.e;
- (iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 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;

(iv) les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élevation, et énoncés à la section 6.2.2(3), doivent être clairement indiqués.

(v) 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 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 42cm between the radiator & your body.

Déclaration d'exposition aux radiations:

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 42cm de distance entre la source de rayonnement et votre corps.

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.



Professional installation instruction

1. Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 42cm from nearby person in normal operation

condition to meet regulatory RF exposure requirement.

3. External antenna

Use only the antennas which have been approved by the manufacturer. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC/IC limit and is prohibited.

4. Installation procedure

Please refer to user's manual for the detail.

5. Warning

Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

1. Installation

Ce produit est destiné à un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et les règles s'y rapportant. L'installation et les réglages ne doivent pas être modifiés par l'utilisateur final.

2. Emplacement d'installation

En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 42cm entre l'antenne émettrice et les personnes.

3. Antenn externe.

Utiliser uniquement les antennes approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/IC, ce qui est interdit.

4. Procedure d'installation

Consulter le manuel d'utilisation.

5. Avertissement

Choisir avec soin la position d'installation et s'assurer que la puis-

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