



FortiAP-C220C, FAP-C220C

FortiAP-C225C, FAP-C225C

FortiAP-C220SC, FAP-C220SC

FortiAP-C225SC, FAP-C225SC

QuickStart Guide



July 09, 2015

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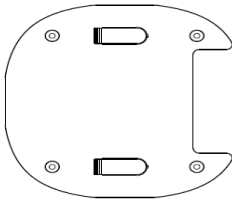
Box Includes



FortiAP device



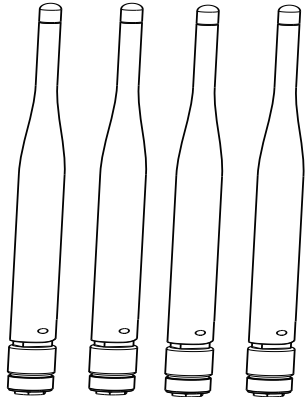
QuickStart Guide



Mounting Bracket



Wall/Ceiling Mounting Hardware Kit



External Antennas
(Models C225C and C225SC)

Before You Begin

Write down details typically provided by your network administrator or ISP.

DHCP

It is normal to not require a hostname, but your ISP might require it.

Hostname

Static IP address

IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS



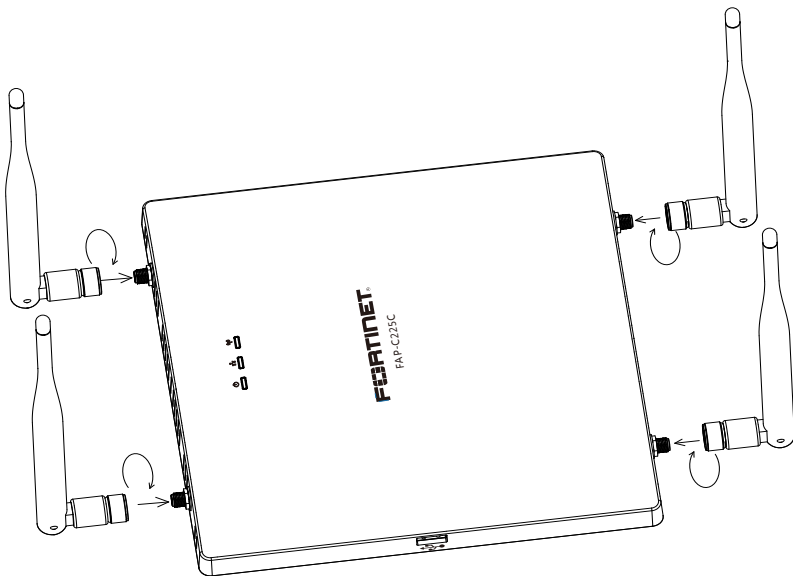
QuickStart Guide Video

<http://video.fortinet.com/video/38/fortigate-and-fortiwifi-quick-start-guide-5-0>

1 Installation

The unit can be mounted on a desk or on a wall or ceiling using the provided wall/ceiling mounting hardware kit.

FortiAP-C225C / FAP-C225C and FortiAP-C225SC / FAP-C225SC have external antennas. Attach the antennas to the antenna mounts before you install the unit to a wall or ceiling.

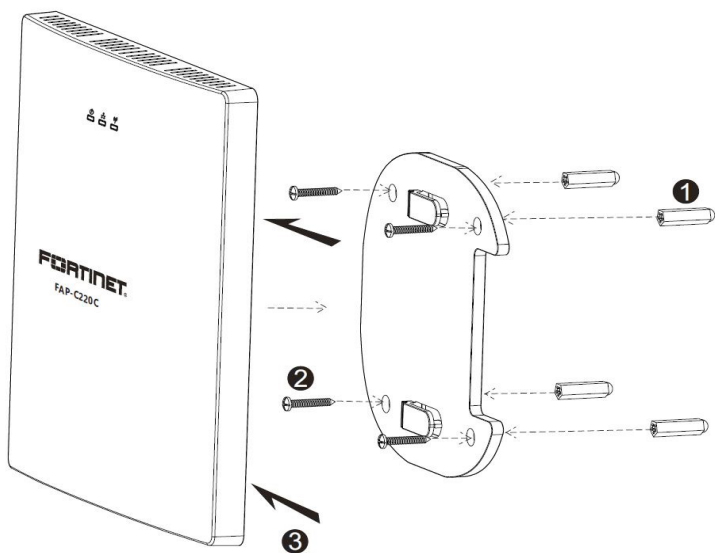


Note: FortiAP-C220C / FAP-C220C and FortiAP-C220SC / FAP-C220SC have internal antennas. This step is not applicable when installing those models.

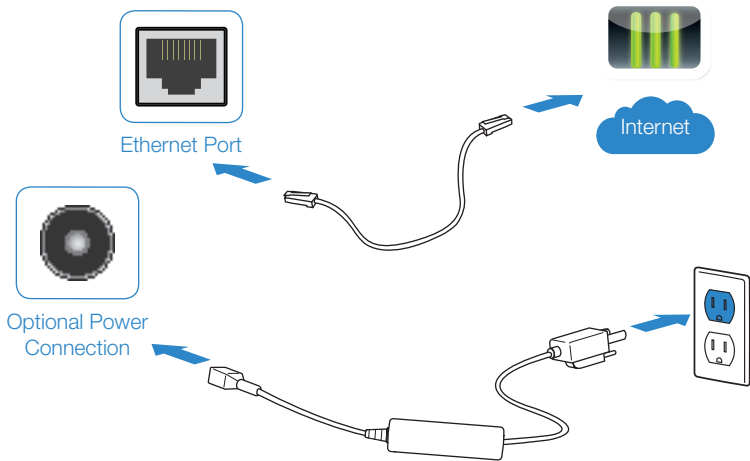
To attach the unit to a wall or ceiling

Before you begin: Select an appropriate location, mark the locations on the wall or ceiling where the anchors will be inserted, and then drill the mounting holes.

1. Insert the anchors into the mounting holes.
2. Use the screws to attach the mounting bracket to the anchors.
3. Mount the device on the mounted mounting bracket, then rotate it counterclockwise to secure it in place.



2 Basic Connections



Connect the FortiAP device to a FortiGate controller or an Internet connection. If you are using Power over Ethernet (PoE), ensure that the cable is connected to an applicable port on your FortiGate device or PoE injector.

Optionally, connect the device to a power outlet using the optional power adapter.

Caution: Adequate grounding must be provided to the FortiAP unit and the PoE injector, in compliance with your local electrical code or regulations.

Warning: This device complies with IEEE 802.3af PoE specification. Do not use any PoE injectors that are not IEEE 802.3af compliant as they may damage your device.

3 FortiAP Setup

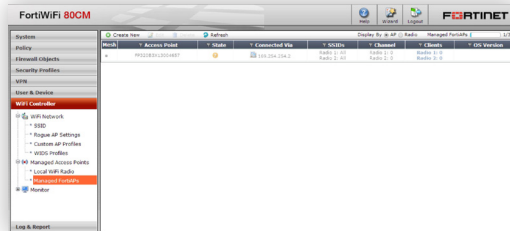
 FortiAP Setup Video <http://video.fortinet.com/video/92/basicfortiap-setup>

If FortiGate is on the same network as the FortiAP:

1. Use FortiGate to preauthorize the FortiAP device.
2. Refer to the “Access Point Deployment” section of the Deploying Wireless Networks Guide found at <http://docs.fortinet.com>.
3. Plug FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can use FortiGate to authorize the FortiAP device after you have connected the FortiAP to the network.
2. Within two minutes of connecting the FortiAP to FortiGate, the device appears on the Managed FortiAP page in the Web-based Manager:
authorize and assign a profile to the device.



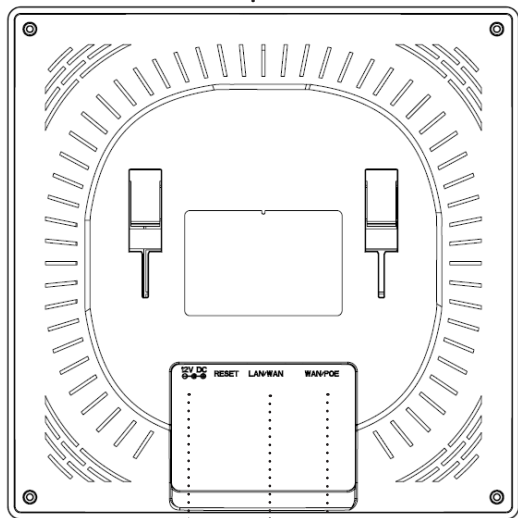
If FortiGate is not on the same network as the FortiAP:

1. Log into FortiAP directly (IP address: 192.168.1.2) with username **admin** and no password, and specify the IP address of the controlling FortiGate.
2. Connect to FortiAP via the CLI using the instructions in the “Connecting to FortiAP CLI” section of the Deploying Wireless Networks guide.
3. Specify the IP address of the controlling FortiGate:

```
config capwap wtp acIpAddr 0.0.0.0
```

where 0.0.0.0 is the address of the FortiGate.
4. The FortiAP device connects to FortiGate, and then you can authorize the FortiAP.

USB Type A
USB 2.0 port.



Power

Optional power
adapter connection.
12V DC, 2A

LAN/WAN

RJ45 10/100/1000
Gigabit Ethernet port.

WAN/PoE

RJ45 10/100/1000
Gigabit Ethernet port
with PoE powered device
(PD) compliant to both
IEEE 802.3af (15.4W) and
802.3at (25.5W).

Device Guide

Power LED

- Green: 3.3V established, boot-up complete
- ⚙️ Flashing: 3.3V established, booting up
- Off: No power

Network LED

- Green: WAN connected
- ⚙️ Flashing (2-3 Hz): WAN activity
- ⚙️ Flashing (.5 Hz): No IP address assigned by DHCP server
- Amber: LAN / second WAN connected
- ⚙️ Flashing (2-3 Hz): LAN / second WAN activity
- Off: WAN/LAN disconnected

Wireless Radio LED

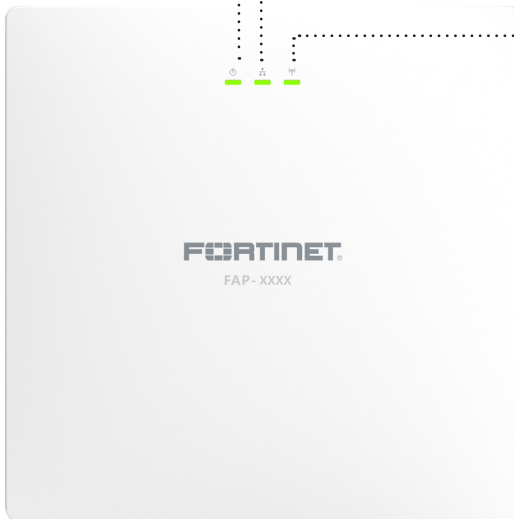
- Green: 2.4G enabled
- ⚙️ Flashing (2-3 Hz): 2.4G WiFi activity
- Amber: 5G enabled
- ⚙️ Flashing (2-3 Hz): 5G WiFi activity
- Off: 2.4G/5G Disabled

Diagnostic LED Combinations

Access Controller disconnected
Network LED steady on and
Wireless Radio LED flashing (.5 Hz)

Defect

Network LED flashing (.5Hz) and
Wireless Radio LED flashing (.5 Hz)



Wireless Radios

Radio 1: 2.4GHz, 300Mbps, 802.11 b/g/n
Radio 2: 5GHz, 867Mbps, 802.11a/n/ac

Cautions and Warnings

Environmental specifications

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:

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, 2 A or by 48 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 2 A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 48 Vdc (PoE).

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 20cm 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's licence-exempt RSSs. 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.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur 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. 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 co-canal. Les radars à haute puissance sont désignés comme utilisateurs principaux (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.

This device has been designed to operate with an antenna having a maximum gain of 4.3 dBi for 2.4GHz and 4.64 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 isotropically 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 4,3 dBi pour 2,4 GHz et 4,64 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.

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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