

FORTINET



FortiAP 321C

QuickStart Guide



January 13, 2015

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- New product features
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- Nouvelles fonctionnalités du produit
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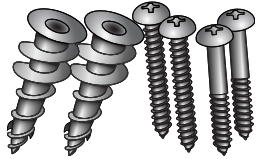
Box Includes



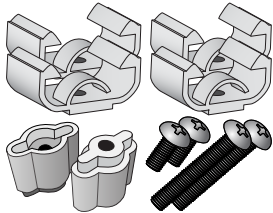
FortiAP 321C



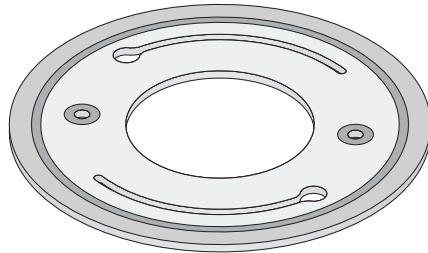
QuickStart Guide



Wall/Ceiling Mounting Hardware Kit



T-Rail Mounting Hardware Kit



Mounting Bracket

Before You Begin

Write down details that you may need from your network administrator or ISP.

DSL PPPoE

Username

Password

Cable Modem DHCP

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

Hostname

Static IP address

IP Address

Subnet Mask

Default Gateway

Primary/Secondary DNS

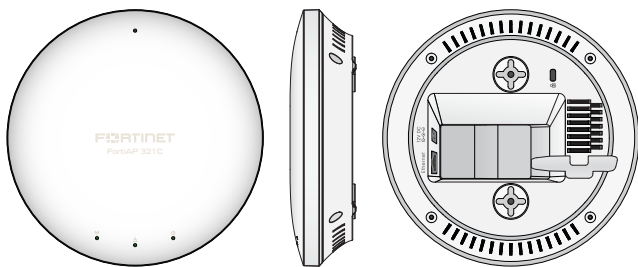


QuickStart Guide Video

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

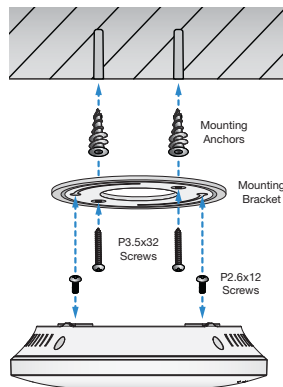
1 Installation

The unit can be mounted on a [wall](#) or [ceiling](#) using the provided [wall/ceiling mounting hardware kit](#), and to an appropriate [ceiling](#) using the [T-rail mounting hardware kit](#).



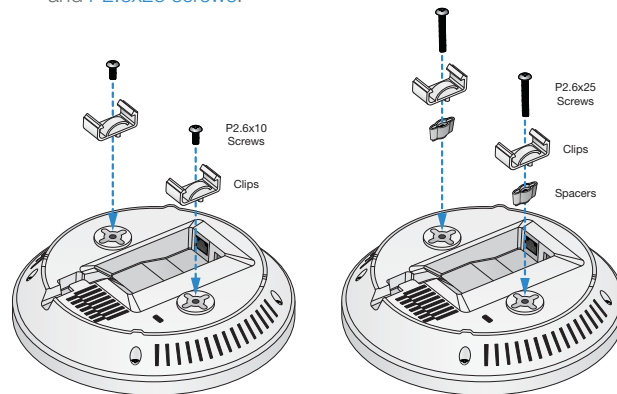
To attach the unit to a wall or ceiling

1. Select an appropriate location, then mark the locations on the [wall](#) or [ceiling](#) where the [anchors](#) will be inserted.
2. [Drill](#) the mounting holes, then insert the [anchors](#) into the holes.
3. Attach the [mounting bracket](#) to the anchors using two [P3.5x32 screws](#).
4. Insert two [P2.6X12 screws](#) into the bottom of the unit, leaving enough of the screws exposed so that the unit can be mounted to the [mounting bracket](#). If extra space is required between the unit and the [mounting bracket](#), use the [spacers](#) and [P2.6x25 screws](#) from the [T-rail mounting hardware kit](#).
5. Mount the device on the mounted [mounting bracket](#) then rotate it [clockwise](#) to secure it in place.



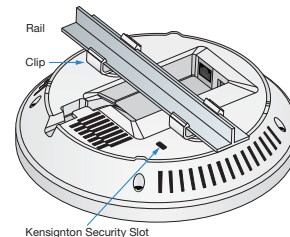
To attach the unit to a T-rail

1. Attach the [T-rail clips](#) to the bottom of the unit using two [P2.6X10 screws](#). If extra space is required to accommodate drop ceiling tiles, use the provided [spacers](#) and [P2.6x25 screws](#).



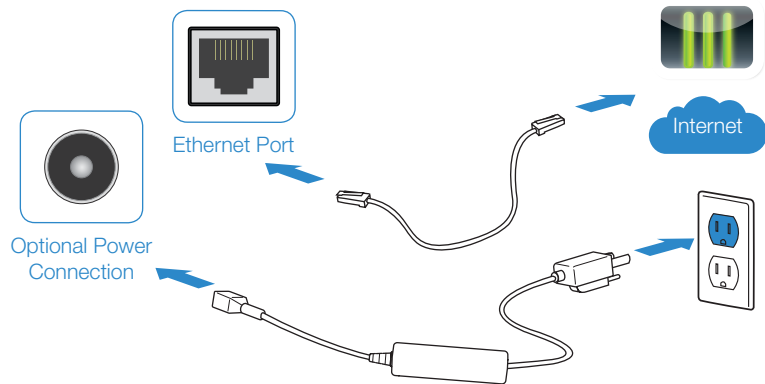
Note: Two sizes of [T-rail clips](#) are included in the mounting kit: 2.38cm (15/16in) and 1.43cm (9/16in).

2. Line up the connected [T-rail clips](#) with an appropriately sized rail, then [press](#) the unit into the rail until it [snaps](#) into place.



Note: To protect your device from unauthorized removal, use the [Kensington Security Slot](#) to attach a [cable lock](#) (not included).

1 Basic Connections



Connect your 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](#).

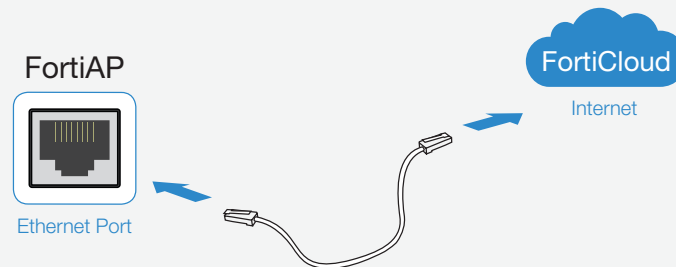
Optionally, connect your device to a [power outlet](#) using the optional power adapter.

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.

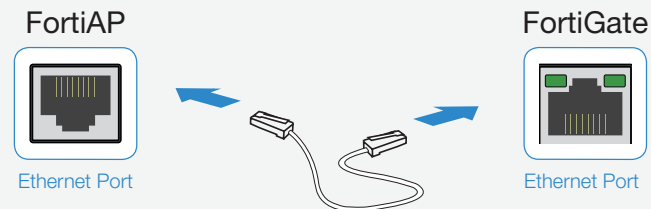
2 FortiAP Setup

A Cloud provisioning with FortiCloud



OR

B FortiGate secured on local network

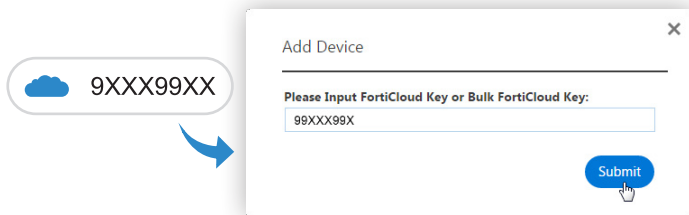


FortiAP Setup Video

<http://video.fortinet.com/video/92/basic-fortiap-setup>

A FortiCloud

1. Visit <http://www.forticloud.com> and [sign in](#) or [create a new account](#).
2. Click the “Add Device” link, enter the **unique FortiCloud key** located on your FortiAP device, then click **Submit**.



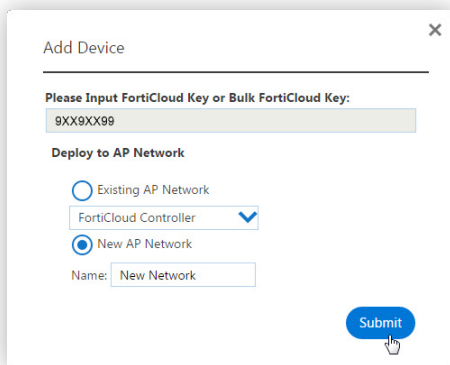
Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

99XX99XX

Submit

3. Deploy the FortiAP to an existing AP network, or create a new AP network, then click **Submit**.



Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

99XX99XX

Deploy to AP Network

Existing AP Network

FortiCloud Controller

New AP Network

Name: New Network

Submit

4. Follow the prompts to associate the **FortiAP** device to an **SSID**.
5. Connect your FortiAP to an **Internet connection**. This can be a modem or another source of Internet connectivity. The FortiAP will self-configure.

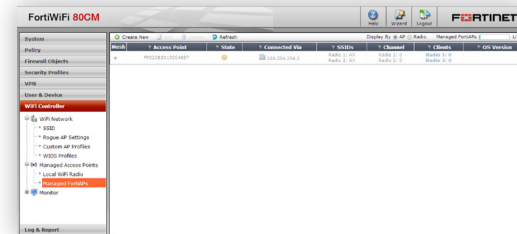
B Deployment through a FortiGate

If your FortiGate is on the same network as your FortiAP:

1. Preauthorize your FortiAP device using your FortiGate. If you are not familiar with deploying a FortiAP using your FortiGate, refer to the “[Access Point Deployment](#)” section of the [Deploying Wireless Networks Guide](http://docs.fortinet.com) found at <http://docs.fortinet.com>.
2. Plug your FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can authorize your FortiAP via the FortiGate after you have connected the FortiAP to your local **Ethernet**.
2. Within **two minutes** of connecting the FortiAP to your FortiGate, the device will appear on the **Managed FortiAP** page in the **Web-based Manager**: authorize and assign a profile to the device.

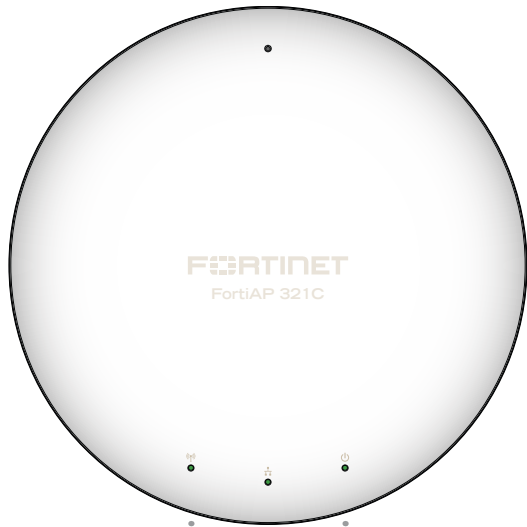


If your FortiGate is not on the same network as your FortiAP:

1. [Log in](#) to the 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 the 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:

```
cfg -a AC_IPADDR_1=0.0.0.0
cfg -c
```

where **0.0.0.0** is the address of the FortiGate.
4. The FortiAP will connect to the FortiGate, and then you can **authorize** the FortiAP.



Power

- Green: The unit is on
- Flashing Green: Booting up
- Off: The unit is off

Ethernet Port

- Green: Connected at 1Gbps
- Flashing Green: Transmitting & receiving data at 1Gbps
- Amber: Connected at 10/100Mbps
- Flashing Amber: Transmitting & receiving data at 10/100Mbps
- Off: No link established

Wireless Radios

- Green: 5GHz wireless radio enabled
- Flashing Green: Transmitting & receiving data on 5GHz radio
- Amber: 2.4GHz wireless radio enabled
- Flashing Amber: Transmitting & receiving data on 2.4GHz radio
- Off: No link established

Kensington Security Slot

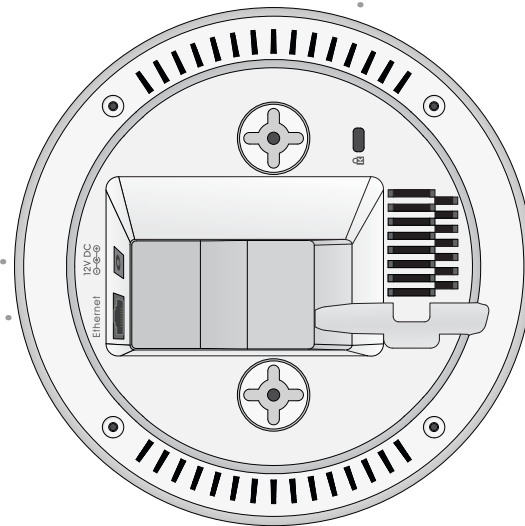
Anti-theft security slot for connecting lock-and-cable apparatus.

Power

Optional power adapter connection.
12V DC, 1.25A

Ethernet Port (RJ-45)

Gigabit Ethernet port with PoE powered device (PD) support.



Wireless Radios

Radio 1: 2.4GHz, 450Mbps, 802.11b/g/n
Radio 2: 5GHz, 1300Mbps, 802.11a/n/ac

Cautions and Warnings

Environmental Specifications

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

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. The unit is intended to be powered by PoE source of a LPS UL Listed or Class 2 IEC certified power adaptor.

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. Le produit doit être alimenté par une source PoE d'une alimentation à puissance limitée (UL Listed) ou par une alimentation Class 2 certifiée par IEC.

Regulatory Compliance

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

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 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)

This device complies with Industry Canada licence-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.

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 20cm 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 20cm 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. 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: Les dispositifs fonctionnant dans la bande 5 150-5 250 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. 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 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

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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