

FORTINET



FortiAP 431F/433F

QuickStart Guide



May 20, 2020

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Product Registration

Thank you for purchasing a FortiAP. To access:

- Cloud Management
- FortiGuard Updates
- Firmware Upgrades
- Technical Support
- Warranty Coverage

Please register your FortiAP device:

Vous devez enregistrer le produit:

Debe registrar el producto:

登録のお願い:

请马上注册:

<http://support.fortinet.com>

Package Contents



FortiAP Device

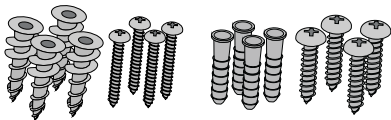
or



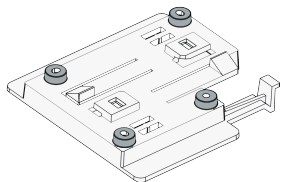
FortiAP Device



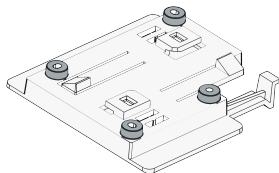
QuickStart Guide



8 x Mounting Screws with 8 x Anchors



9/16" Ceiling Mounting Bracket



15/16" Ceiling Mounting Bracket

Professional Installation Instructions

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 (44cm-FCC; 54cm-IC) 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 applicant. 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.

1. Installation

Ce produit est destiné à un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et les réglés 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 (44cm-FCC; 54cm-IC) entre l'antenne émettrice et les personnes.

3. Antenne 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/ISED, ce qui est interdit.

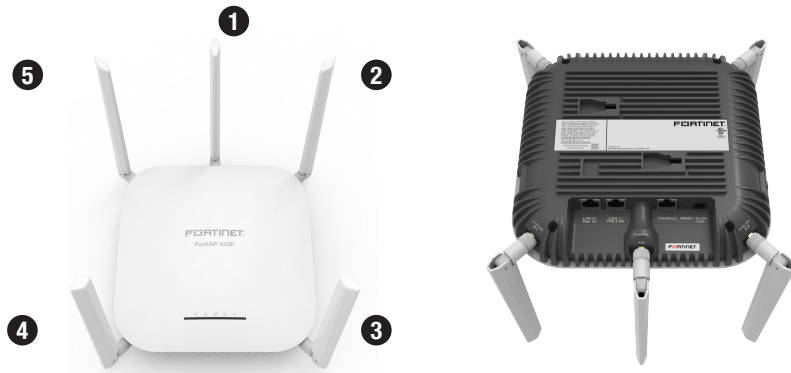
4. Procédure d'installation

Consulter le manuel d'utilisation.

5. Avertissement

Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette réglé peut conduire à de sérieuses pénalités fédérales.

Antenna Installation

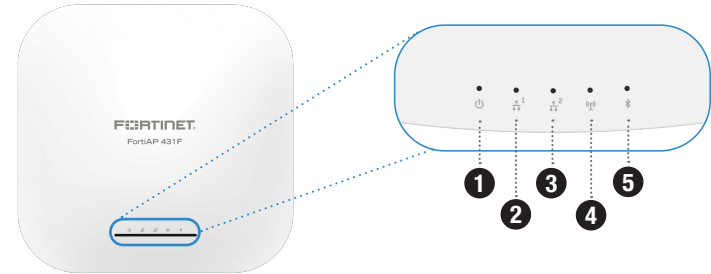


The FortiAP unit is a tri-radio, dual band access point. Use the 2.4/5GHz antennas to access the 2.4GHz and 5GHz radio signals. To use three radios concurrently, all five WiFi antennas are required.

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.

Hardware / Front



- 1 Power (PoE 802.3at or 12V DC 2.5A)**
 ⏻ **Off:** Device is off
 🟢 **Green:** Device is on
 🟢 **Blinking Green:** Booting up
 🟡 **Orange:** Reserved for customizations

- 2 LAN 1 (2.5 Gbps 802.3at PoE RJ45)**
 🟡 **Off:** Link is off
 🟢 **Green:** Link is on
 🟢 **Blinking Green:** Transmitting at 2.5Gbps
 🟡 **Blinking Orange:** Transmitting at 1Gbps/100Mbps

- 3 LAN 2 (1 Gbps 802.3at PoE RJ45)**
 🟡 **Off:** Link is off
 🟢 **Green:** Link is on
 🟢 **Blinking Green:** Transmitting at 1Gbps
 🟡 **Blinking Orange:** Transmitting at 100Mbps

- 4 WiFi (5GHz & 2.4GHz 4x4 MU-MIMO)**
 🟡 **Off:** Radio 1 & 2 are off
 🟡 **Blue:** Radio 1 is on
 🟡 **Blinking Blue:** Radio 1 is transmitting data
 🟡 **Orange:** Radio 2 is on
 🟡 **Blinking Orange:** Radio 2 is transmitting data
 🟡 **Green:** Radio 1 & 2 are on
 🟡 **Blinking Green:** Radio 1 & 2 are transmitting data

- 5 Bluetooth Low Energy (BLE) & WiFi**
 🟡 **Off:** BLE & Radio 3 are off
 🟡 **Blue:** BLE is on
 🟡 **Blinking Blue:** BLE is transmitting data
 🟡 **Orange:** Radio 3 is on
 🟡 **Blinking Orange:** Radio 3 is transmitting data
 🟡 **Green:** BLE & Radio 3 are on
 🟡 **Blinking Green:** BLE and Radio 3 are transmitting data

Hardware / Back



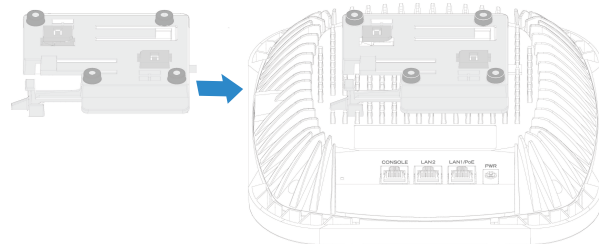
- 1 LAN2/POE 1G (RJ-45)** 1 Gbps 802.3at PoE Ethernet interface
- 2 LAN1/POE 2.5G (RJ-45)** 2.5 Gbps 802.3at PoE Ethernet interface
- 3 CONSOLE (RJ-45)** CLI management computer interface
- 4 RESET** resets the device
- 5 OPTIONAL POWER (12V DC)** Optional 12V DC 2.5A adapter

Note: For [optional items](#) and accessories such as [console cables](#), [DC adapters](#) and various [mounting brackets](#), contact Fortinet.

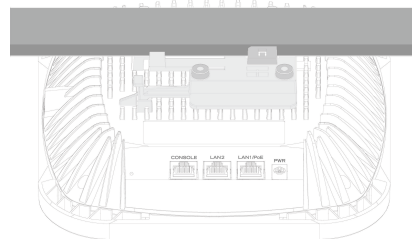
Ceiling Installation

The FortiAP mounts on a ceiling using the provided T-rail mounting brackets which come in two standard sizes: 1.43cm (9/16in) and 2.38cm (15/16in)

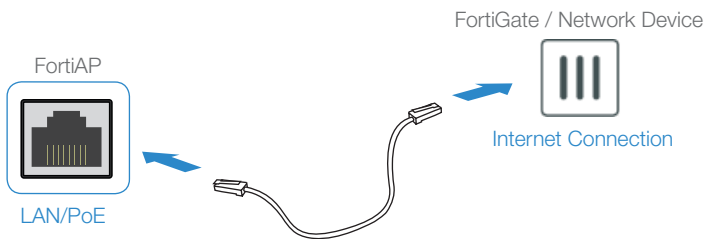
1. Select the [bracket](#) for the [T-rail size](#): 1.43cm (9/16in) or 2.38cm (15/16in)
2. With the ports facing you, [slide the bracket left to right](#)



3. Hold the device [against the ceiling T-rail](#) and [push until it snaps](#) into place



Basic Connections



1. Connect the FortiAP device to a [FortiGate controller](#) or an [Internet connection](#)
2. Ensure that the [Power over Ethernet \(PoE\)](#) cable is connected to an applicable port on your [FortiGate device](#) or [PoE injector](#)

Optional: If you are not using PoE, connect the DC plug of the optional power 12V 2.5A power adapter into the FortiAP power jack and the AC plug from the adapter into a power outlet.

Warning: This device complies with [IEEE 802.3af/at](#) PoE specification. Do not use any [PoE injectors](#) that are not [IEEE 802.3at compliant](#) as they may damage your device.

Device Setup

Set up your device locally or on the cloud. Choose one of the following options to complete your setup and configure your device.



FortiAP Cloud

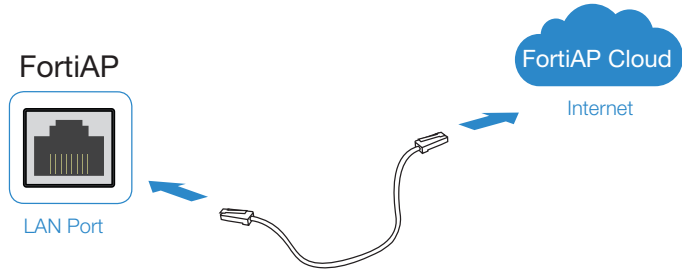
FortiAPCloud is a [cloud-based FortiAP management solution](#) and log retention service. It provides centralized reporting, traffic analysis, configuration management, and log retention.



FortiGate Deployment

Your FortiAP can be [preauthorized](#) and [configured](#) using a [FortiGate](#). You can also authorize your FortiAP after you have connected it to the same network. If the FortiGate is not on the same network as the FortiAP, you can [log directly into the AP](#) and authorize it via the [CLI](#).

FortiAP Cloud



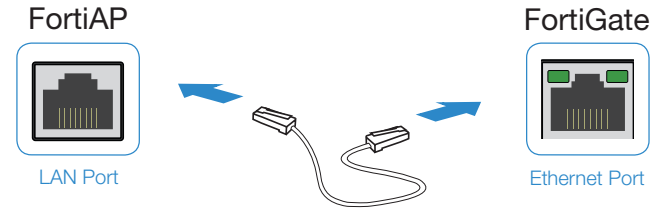
1. Log in to fortiapcloud.com using your FortiCloud credentials
2. Click [Inventory](#), then click [Import AP Key](#)

The screenshot shows a dialog box titled 'Add AP' with a close button (X) in the top right corner. Inside the dialog, there is a text input field with the placeholder text 'Please input the FortiAPCloud Key to add an AP:'. Below the input field is a blue 'Submit' button.

3. Input the [Cloud Key](#) located on the [sticker](#) on your device

Info: Refer to the “Access Point Configuration” section of the FortiWiFi and FortiAP Configuration Guide found at <https://docs.fortinet.com/product/fortiap>

FortiAP Deployment



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

1. [Preauthorize](#) your [FortiAP](#) device using your [FortiGate](#)
2. [Plug](#) the [FortiAP](#) into your local [Ethernet](#) connection
3. The [FortiAP](#) will [self-configure](#)

Or

1. Instead of preauthorizing, [authorize the FortiAP device after you have connected the FortiAP to the network](#)
2. Within two minutes of connecting the FortiAP to your FortiGate, the device will appear on the [Managed FortiAP page](#) in the [GUI](#) to [authorize and assign a profile](#)

If FortiGate is not on the same network as the 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. 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
3. The FortiAP device connects to the FortiGate, and then you can [authorize](#) the FortiAP

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, 2.5A or by 51 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 2,5A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 51 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 44cm 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.

For operation within 5.15 – 5.25GHz frequency range, 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

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Innovation, Science and Economic Development (ISED) – Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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 equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 54cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 54cm de distance entre la source de rayonnement et votre corps.

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.

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.

(iii) where applicable, antenna type(s), antenna models(s), and 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.

(iii) lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élevation, énoncée à la section 6.2.2.3, doivent être clairement indiqués.

For model: FAP-431F

Antenna Type	PIFA					
Antenna Connector	IPEX					
Antenna No.	Gain (dBi)					
	2400MHz	2450MHz	2500MHz	5150MHz	5500MHz	5850MHz
DL1	4.04	4.36	4.79	6.21	6.33	5.25
DL2	5.52	5.29	5.19	5.07	5.99	5.03
DL3	4.94	5.06	5.05	5.30	5.15	5.18
DL4	4.72	4.66	5.62	5.34	6.37	5.85
Scanning	4.93	4.60	5.22	5.06	5.09	5.14
BT	4.23	4.66	4.71	-	-	-

This radio transmitter (IC: 7280B-4617T06785 / Model: FAP-431F, FAP-433F) has been approved by ISED to operate with the antenna type listed below with maximum permissible gain indicated. Antenna type 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 (IC: 7280B-4617T06785 / Model: FAP-431F, FAP-433F) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

This device and its antenna(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 fonctionnellement en association avec une autre antenne ou transmetteur.

For model: FAP-431F

Antenna Type	Dipole					
Antenna Connector	SMA					
Gain (dBi)	Frequency					
	2400MHz	2450MHz	2500MHz	5150MHz	5500MHz	5850MHz
Ext. Ant.	3.88	3.33	4	6.01	6.18	6.2
BT	4.23	4.66	4.71	-	-	-

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.



The product transmits within the frequency ranges and less than or equal to the power listed below:
2412–2472 MHz less than 20 dBm
5180–5240 MHz less than 23 dBm
5500–5320 MHz less than 23 dBm *
5200–5700 MHz less than 30 dBm *

Note: * Only with DFS bands certification.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Simplified EU Declaration of Conformity

This declaration is only valid for Fortinet products (including, combinations of software, firmware and hardware) provided by Fortinet or Fortinet's authorized partners to the end customer directly for use within the EU or countries that have implemented the EU Directives and/or spectrum regulation. Any Fortinet products not obtained directly from Fortinet or Fortinet's authorized partners may not comply with EU Directives and Fortinet makes no assurances for such products.

Български

Този продукт е в съответствие с Директива 2014/53/ЕУ.

Česky

Tento produkt je v souladu se směrnicí 2014/53/EU.

Dansk

Dette produkt er i overensstemmelse med direktiv 2014/53/EU.

Deutsch

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

Eesti

See toode vastab direktiivile 2014/53/EL.

English

This product is in compliance with Directive 2014/53/EU.

Español

Este producto cumple con la Directiva 2014/53/UE.

Ελληνική

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Frçais

Ce produit est conforme à la Directive 2014/53/UE.

Hrvatski

Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Italiano

Questo prodotto è conforme alla Direttiva 2014/53/UE.

Latviski

Šis produkts ir atbilstošs Direktīvas 2014/53/UE.

Lietuvių

Šis gaminyis atitinka direktyvą 2014/53/ES.

Malti

Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Magyar

Ez za termék megfelel a 2014/53/EU irányelvnek.

Nederlands

Dit product is in overeenstemming met Richtlijn 2014/53/EU.

Norsk

Denne produktet er i samsvar med direktiv 2014/53/UE.

Polski

Ten produkt jest zgodny z dyrektywą 2014/53/UE.

Portugués

Este produto está em conformidade com a Diretiva 2014/53/UE.

Rumunski

Acest produs este în conformitate cu Directiva 2014/53/UE.

Slovensky

Tento produkt je v súlade so smernicou 2014/53/EÚ.

Slovensko

Ta izdeldek je v skladu z Direktivo 2014/53/EU.

Suomi

Tämä tuote on direktiivin 2014/53/EU mukainen.

Svenska

Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available at the link below:

<https://site.fortinet.com/ProductRegulatory/EU>

Fortinet Product License Agreement / EULA and Warranty Terms

Product License Agreement

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