



# FortiAP 231F

QuickStart Guide





# October 29, 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 produir:

Debe registrar el producto:

登録のお願い:

请马上注册:

http://support.fortinet.com

# Package Contents

# POHYPET

FortiAP 231F Device



QuickStart Guide



9/16" Ceiling Mounting Bracket

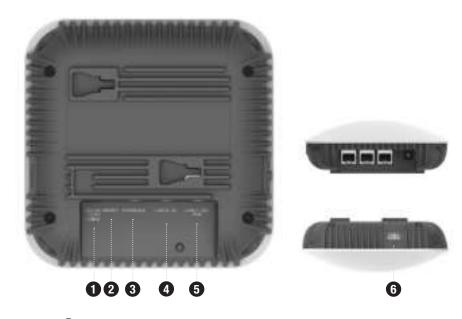


8 x Mounting Screws with 8 x Anchors



15/16" Ceiling Mounting Bracket

# Interfaces



- 1 OPTIONAL POWER (12V DC) Optional 12V DC 2.5A adapter
- 2 RESET resets the device
- 3 CONSOLE (RJ-45) CLI management computer interface
- 4 LAN2 GE (RJ-45) 1 Gbps Ethernet interface
- 5 LAN1/POE GE (RJ-45) 1 Gbps 802.3at PoE Ethernet interface
- 6 USB 3.0 (Type A) software enabled power through the GPIO, 9A/5V

# **LED Indicators**

# 1 3 4 5

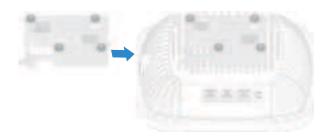
- 1 Power (PoE 802.3at or 12V DC 2.5A)
- Off: Device is off
- [1] Green: Device is on
- [1] Blinking Green: Booting up
- Orange: Reserved for customizations
- 2 LAN 1 (1 Gbps 802.3at PoE RJ45)
- Off: Link is off
- Green: Link is on
- Blinking Green: Transmitting at 1Gbps
- Blinking Orange: Transmitting at 100Mbps
- 3 LAN 2 (1 Gbps RJ45)
- Off: Link is off
- Green: Link is on
- Blinking Green: Transmitting at 1Gbps
- Blinking Orange: Transmitting at 100Mbps

- 4 WiFi (5GHz & 2.4GHz 2x2 MU-MIMO)
- F 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
- 5 Bluetooth Low Energy (BLE) & WiFi
- ♠ Off: BLE & Radio 3 are off
- Blue: BLE is on
- Blinking Blue: BLE is transmitting data
- X 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

# 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)

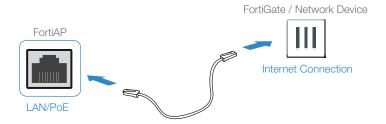
- 1. Select the bracket for the T-rail size: 1.43cm (9/16in) or 2.38cm (15/16in)
- 2. With the ports facing you, slide the bracket left to right



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

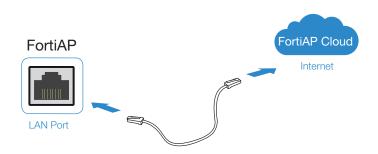
FortiAPCloud is a cloud-based FortiAP management solution and log retention service. It provides centralized reporting, traffic analysis, configuration management, and log retention.



# 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



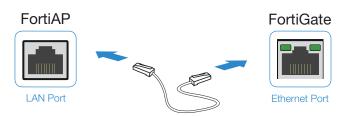
- 1. Log in to fortiapcloud.com using your FortiCloud credentials
- 2. Click Inventory, then click Import AP Key



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

- 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 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, 2.5A or by 54 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 54 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 21cm 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 NMR-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 24cm 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 24cm 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

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'élévation, énoncée à la section 6,2,2,3, doivent être clairement indiqués.

This radio transmitter (IC: 7280B-3417T0696 / Model: FAP-231F) has been approved by ISED to operate with the antenna type listed below with maximum permissible gain 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 (IC: 7280B-3417T0696 / Model: FAP-231F) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et avant 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 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

# For model: FAP-231F

Antenna Type Antenna Connnector		PIFA i-pex(MHF)	
2.4~2.4835GHz	5.180~5.825GHz		
1	Chain0	4.9	5.2
2	Chain1	3.8	5.5
3	Scan	4.0	5.1
4	BLE & Zibess	3.6	

# 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 dRm

5180-5240 MHz less than 23 dBm 5260-5320 MHz less than 23 dBm \*

5500-5700 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.

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

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

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

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

See toode vastab direktiivile 2014/53/EL.

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

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

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

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

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

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

# Latviski

Šis produkts atbilst Direktīvai 2014/53/EU.

# Lietuviu

Šis gaminys atitinka direktyva 2014/53/ES.

# ois gair

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

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

# . .

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

# .

Norsk

Dette produktet er i samsvar med direktiv 2014/53/EU.

# Dolcki

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

# Português

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

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

# Slovensky

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

## Slovensk

Ta izdelek ie 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

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The term of the license is the shorter of (a) the term as set forth in the ordering documents, other Fortinet documentation, or per Fortinet practices or policies (such as with evaluation or beta licenses or subscription or other term licenses) and (b) for the duration of Fortinet's copyright in the Software. Fortinet may terminate this Agreement, and the licenses and other rights herein, immediately without notice if you breach or fall to comply with any of the terms and conditions of this Agreement or for other reasons as stated in Fortinet's other documentation. You agree that, upon such termination, you will cease using the Software and any Product and either destroy all copies of the Fortinet documentation or return all materials to Fortinet.

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# 6. Limited Warranty.

Fortinet provides this limited warranty for its product only to the single end-user person or entity that originally purchased the Product from Fortinet or its authorized reseller or distulbutor and paid for such Product. The warranty is only valid for Products which are properly registered on Fortinet's Support Websile, https://support.fortinet.com, or such other website as provided by Fortinet, or for which the warranty to therwise starts according to Fortinet's policies, and any support is only valid for products properly purchased

through authorized distributors and resellers. The warranty periods discussed below will start according to Fortinet's policies posted at http://www.fortinet.com/aboutus/legal. html or such other website as provided by Fortinet. It is the Fortinet distributor's and reseller's responsibility to make clear to the end user the date the product was originally shipped from Fortinet, and it is the end user's responsibility to understand the original ship date from the party from which the end user purchased the product. All warranty claims must be submitted in writing to Fortinet before the expiration of the warranty term or such claims are waived in full. Fortinet provides no warranty for any beta, donation or evaluation Products, Fortinet warrants that the hardware portion of the Products ("Hardware") will be free from material defects in workmanship as compared to the functional specifications for the period set forth as follows and applicable to the Product type ("Hardware Warranty Period"): (a) a three hundred sixty-five (365) day limited warranty for the Hardware products; (b) for FortiAP, 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 Hardware; (c) for FortiSwitch Hardware appliance products other than the FortiSwitch-5000 series, 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 Hardware. 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. 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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 of the license granted by Fortinet for the Software. The Software Warranty Period shall extend for an additional ninety (90) days after any warranty replacement software is delivered. If Fortinet determines in its reasonable discretion that a material non-conformance is incapable of correction or that it is not practical to repair or replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by Fortinet; provided that the non-conforming Software (and all copies thereof) is first returned to Fortinet. The license granted respecting any Software for which a refund is given automatically terminates immediately upon refund. 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