



FORTINET FortiAP 231F Wireless Access Point User Guide

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FortiAP 231F QuickStart Guide



Product Registration

Thank you for purchasing a FortiAP. To access: <http://support.fortinet.com>

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Package Contents

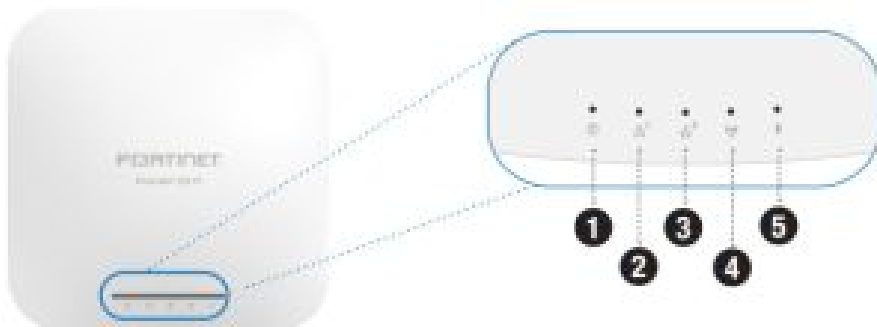


Interfaces



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. Power (PoE 802.3at or 12V DC 2.5A)



Off: The device is off



Green: The device is on



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)



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

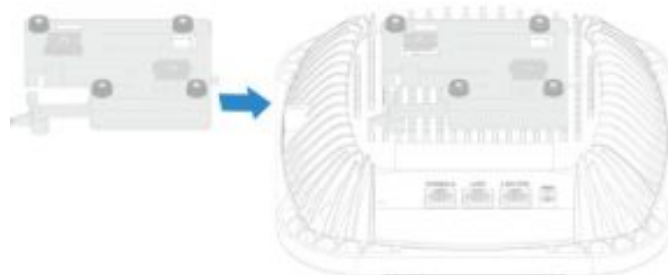


Blinking Green: BLE and Radio 3 are transmitting data

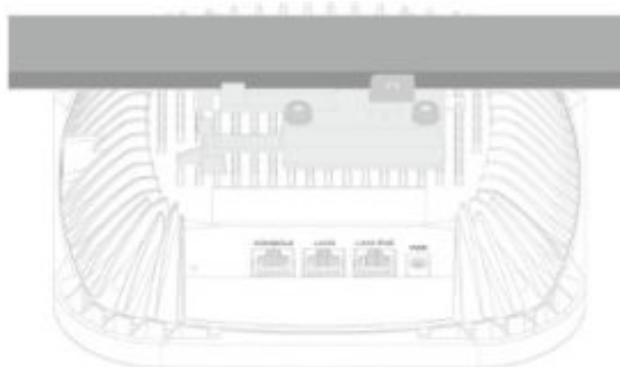
Ceiling Installation

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

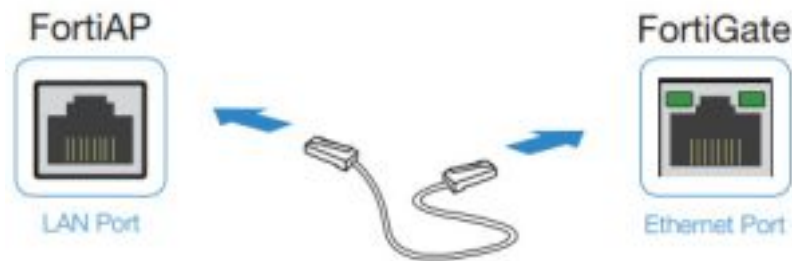


3. Hold the device against the ceiling T-rail and push until it snaps into place



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

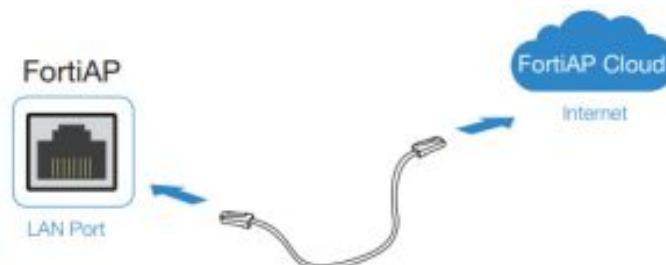
FortiAPCloud is a cloud-based FortiAP management solution and log retention service. It provides centralized reporting, traffic analysis, configuration management, and log retention.



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

Add AP
✕

Please input the FortiAPCloud Key to add an AP:

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:

```
config -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).

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.

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.

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 a 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 a 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 the 5.15 ~ 5.25GHz frequency range, it is restricted to the 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.

Innovation, Science and Economic Development (ISED) – Canada

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-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.

For products available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 24cm between the radiator & your body. 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.

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce the potential for harmful interference to co-channel mobile satellite systems.

(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.

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.

This device and its 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.

Antenna Type			PIFA			
Antenna Connector			IPEX			
Antenna No.	2400MHz	2450MHz	Gain (dBi) 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	4.34	5.06	5.05	5.3	5.15	5.18
DL4	4.72	4.66	5.62	5.34	6.37	5.85
Scanning	4.93	4.6	5.22	5.06	5.09	5.14
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

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 a minimum distance of 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.

This product is in compliance with Directive 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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Up-to-date information on vulnerabilities and threats, includes a virus scanner, IP signature look-up, and web filtering tools.



<http://www.fortiguard.com>

[Fortinet.com](http://www.fortinet.com)







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Documents / Resources

 FortiAP 231F QuickStart Guide	FORTINET FortiAP 231F Wireless Access Point [pdf] User Guide FortiAP 231F, Wireless Access Point, FortiAP 231F Wireless Access Point, Access Point, 231F Wireless Access Point
 FortiAP 231F QuickStart Guide	FORTINET FortiAP 231F Wireless Access Point [pdf] User Guide 3417T0696, TVE-3417T0696, TVE3417T0696, FortiAP 231F Wireless Access Point

References

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