




# FORTINET FortiAP 831F Wireless Access Point User Guide

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**FORTINET FortiAP 831F Wireless Access Point**



April 8, 2021

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## Product Registration

Thank you for purchasing a Fortinet Device.

Register to access:

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

<http://support.fortinet.com>

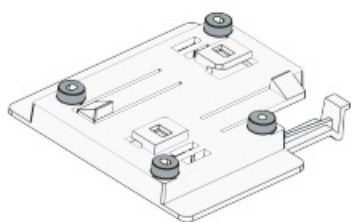
## Box Includes



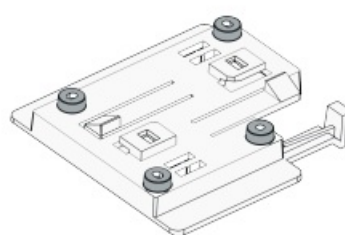
FortiAP 831F



QuickStart Guide



15/16" Ceiling Mounting Bracket



9/16" Ceiling Mounting Bracket



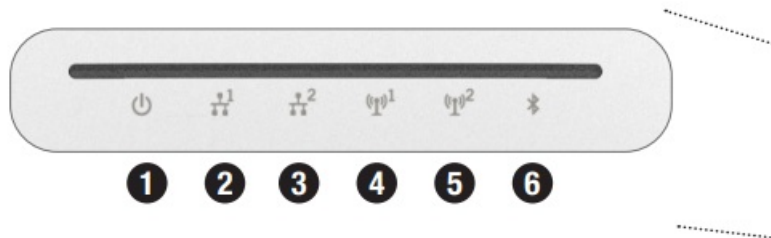
## Interfaces



1. LAN2/POE 1G (RJ-45) 1 Gbps 802.3at PoE Ethernet interface

2. LAN1/POE 5G (RJ-45) 5 Gbps 802.3at PoE Ethernet interface
3. CONSOLE (RJ-45) CLI management computer interface
4. OPTIONAL POWER (Not Included) 12V DC 3A adapter
5. USB (3.1) Type A for future use
6. RESET resets the device

## LED Indicators



### • Power

- Off: Device off
- Green: Device on
- Blinking Green: Booting up or upgrading
- Amber: Reserved for customizations

### • LAN 1 (5 Gbps 802.3at PoE RJ45) Off:

- Link off
- Green: Link on
- Blinking Green: Transmitting at 5 Gbps
- Blinking Amber Transmitting at 2.5 Gbps or lower speeds

### • LAN 2 (1 Gbps 802.3at PoE RJ45)

- Off: Link off
- Green: Link on
- Blinking Green: Transmitting at 1Gbps
- Blinking Amber Transmitting at 100 Mbps

### • WiFi

- Off: Radio 1 & 2 off
- Blue: Radio 1 on
- Blinking Blue: Radio 1 transmitting
- Amber: Radio 2 on
- Blinking Amber: Radio 2 transmitting
- Green: Radio 1 & 2 on
- Blinking Green: Radio 1 & 2 transmitting

## LED Indicators



### • WiFi & Scanning

- Off: Radio 3 off; Scanning off
- Blue: Radio 3 on
- Blinking Blue: Radio 3 transmitting data
- Amber: Scanning on
- Green: Radio 3 on; Scanning on
- Blinking Green: Radio 3 transmitting data; Scanning on

### • 6 BLE & ZigBee

- Off: BLE & ZigBee off
- Blue: BLE on
- Blinking Blue: BLE transmitting data
- Amber: ZigBee on
- Blinking Amber: ZigBee transmitting data
- Green: BLE & ZigBee on
- Blinking Green: BLE & ZigBee 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



## 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.

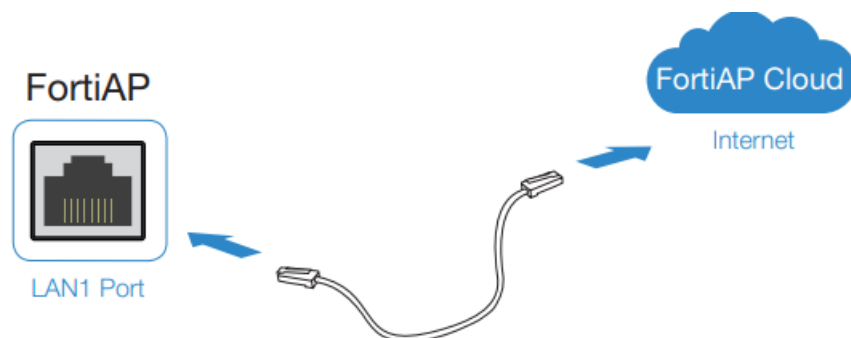
### FortiAP Cloud

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 use FortiAP CLI configuration and diagnostics commands found on [docs.fortinet.com](https://docs.fortinet.com) to setup the information to find the controller.

### FortiAP Cloud



1. Log in to <http://www.fortiapcloud.com> using your FortiCloud credentials
2. Click Inventory, then click Import AP Key

**Add AP** ×

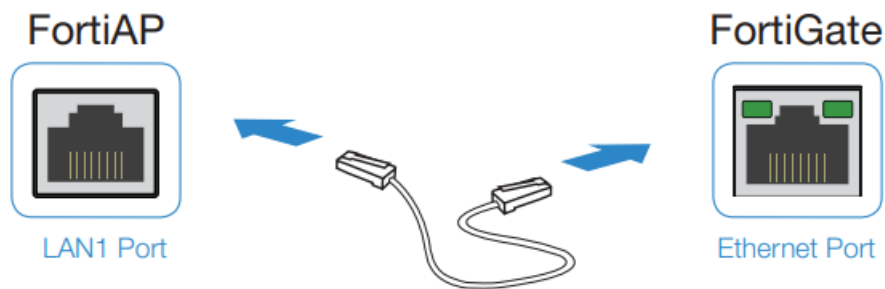
Please input the FortiAPCloud Key to add an AP:

Submit

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

## 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
4. Instead of preauthorizing, authorize the FortiAP device after you have connected the FortiAP to the network
5. 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. To specify the IP address of the controlling FortiGate:

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

3. The FortiAP device connects to the FortiGate, and then you can authorize the FortiAP

## Cautions and Warnings

### Environmental specifications

- Ambient operating temperature: -30°C to 60°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.

### Attention:

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12Vdc, 3A or by 54Vdc, 0.6A from PoE source.

## **Grounding**

To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning/surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.

## **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 22cm 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.

For product 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 minimum distance 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 potential for harmful interference to co-channel mobile satellite systems.

**Attention:**

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-41417T07866 / Model: FAP-831F) has been approved by ISED to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type 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 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.

Antenna Type				PIFA		
Antenna Connector				IPEX		
Antenna No.	Gain (dBi)			UNII-1 & UNII-2A	UNII-2C	UNII-3
	2400MHz	2450MHz	2500MHz			
Ant 1-4	4.14	4.49	4.34	–	–	–
Ant 5-12	–	–	–	5.88	6.27	5.96
Ant 13 Scan	3.88	4.69	4.25	4.42	4.6	4.6
Antenna Type				DiPole		
Antenna Connector				IPEX		
Ant 14 BLE/ Scanning	4.32	5.2	5.09	–	–	–

**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:

- 2402–2480 MHz less than 20 dBm
- 2405–2480 MHz less than 20 dBm
- 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 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.

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>

## **Fortinet Product License Agreement / EULA and Warranty Terms**

### **Product License Agreement**

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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. Fortinet warrants that Software as initially shipped by Fortinet will substantially conform to Fortinet’s then-current functional specifications for the Software, as set forth in the applicable documentation for a period of ninety (90) days (“Software Warranty Period”), if the Software is properly installed on approved Hardware and operated as contemplated in its documentation. Fortinet’s sole obligation shall be to repair or offer replacement Software for the non-conforming Software with software that substantially conforms to Fortinet’s functional specifications. 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. 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. For purpose of the above hardware and software warranties, the term “functional specifications” means solely those specifications authorized and published by Fortinet that expressly state in such specifications that they are the functional specifications referred to in this section 6 of this Agreement, and, in the event no such specifications are provided to you with the Software or Hardware, there shall be no warranty on such Software. For purpose of the above hardware and software warranties, the term “functional specifications” means solely those specifications authorized and published by Fortinet that expressly state in such specifications that they are the functional specifications referred to in this section 6 of this Agreement, and, in the event no such specifications are provided to you with the Software or Hardware, there shall be no warranty on such Software.

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## **Documents / Resources**



	<p><a href="#">FORTINET FortiAP 831F Wireless Access Point</a> [pdf] User Guide</p> <p>41417T07866, TVE-41417T07866, TVE41417T07866, FortiAP 831F Wireless Access Point, Wireless Access Point</p>
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