



FORTINET 221E Wireless Access Point User Guide

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FORTINET 221E Wireless Access Point



Specifications

- Model: FortiAP 221E, 223E
- Power Adapter: 12V DC, center positive
- Antennas: 4x 2.4 GHz Antennas, 1x 5.0 GHz Antenna

Product Usage Instructions

Before You Begin

Before starting the installation process, make sure to gather the following information provided by your network administrator or ISP:

- Static IP address
- IP address
- Subnet Mask
- Default Gateway
- Primary/Secondary DNS
- Hostname (if required by your ISP)

Installation

The FortiAP device can be mounted on a wall or ceiling using the provided mounting hardware. Ensure that the electrical wall box is pre-installed before proceeding with the installation.

Basic Connection

To establish a basic connection, follow these steps:

1. Connect the FortiAP device to a FortiGate controller or an Internet connection.
2. Make sure the Power over Ethernet (PoE) cable is connected to an applicable port on your FortiGate device or PoE injector.
3. Ensure both the FortiAP unit and the PoE injector are adequately grounded according to your local electrical

code or regulations.

4. Caution: Only use IEEE 802.3af-compliant PoE injectors to avoid damaging your device.

FortiAP Setup

To set up the FortiAP device, follow the steps based on whether your FortiGate is on the same network as the FortiAP or not:

If FortiGate is on the same network as the FortiAP:

1. Ensure you are running the Fortinet recommended version of the software. Check support.fortinet.com for more information.
2. Preauthorize the FortiAP device using the FortiGate.
3. Refer to the Access Point Deployment section of the FortiWiFi and FortiAP Configuration Guide for detailed instructions.
4. Plug the FortiAP into your local Ethernet connection. It will self-configure.

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

1. Log into the FortiAP directly using the IP address 192.168.1.2, username "admin," and no password. Specify the IP address of the controlling FortiGate.
2. Connect to the FortiAP via the CLI using the instructions provided in the Connecting to FortiAP CLI section of the FortiWiFi and FortiAP Configuration guide.

FAQ

- Q: Where can I find the recommended software version for my FortiAP device?
A: You can find the recommended software version for your FortiAP device on support.fortinet.com.
- Q: Can I use a non-IEEE 802.3af compliant PoE injector with my FortiAP device?
A: No, using non-compliant PoE injectors may cause damage to your device. Only use IEEE 802.3af-compliant PoE injectors.

8/28/2018

FortiAP 221E, 223E QuickStart Guide (Gen 2)

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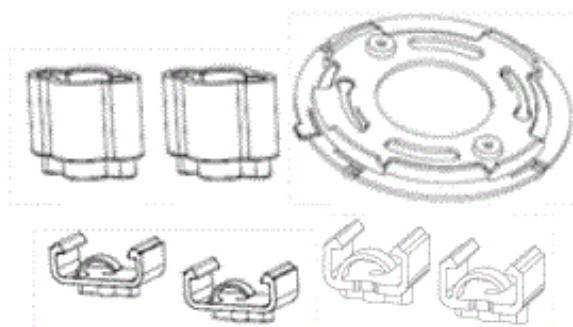
Box Includes



FortiAP Device



QuickStart Guide



2x sleeves

2x screws



2x M3L10 screws

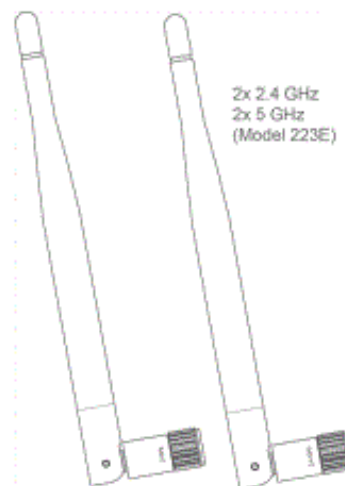


2x M3L24 screws



2x shoulder screws

Wall Mounting Hardware and Screw Set



4x Antennas

Before You Begin

Write down details typically provided by your network administrator or ISP.

Static IP address

IP address

Subnet Mask

Default Gateway

Primary/Secondary DNS

DHCP

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

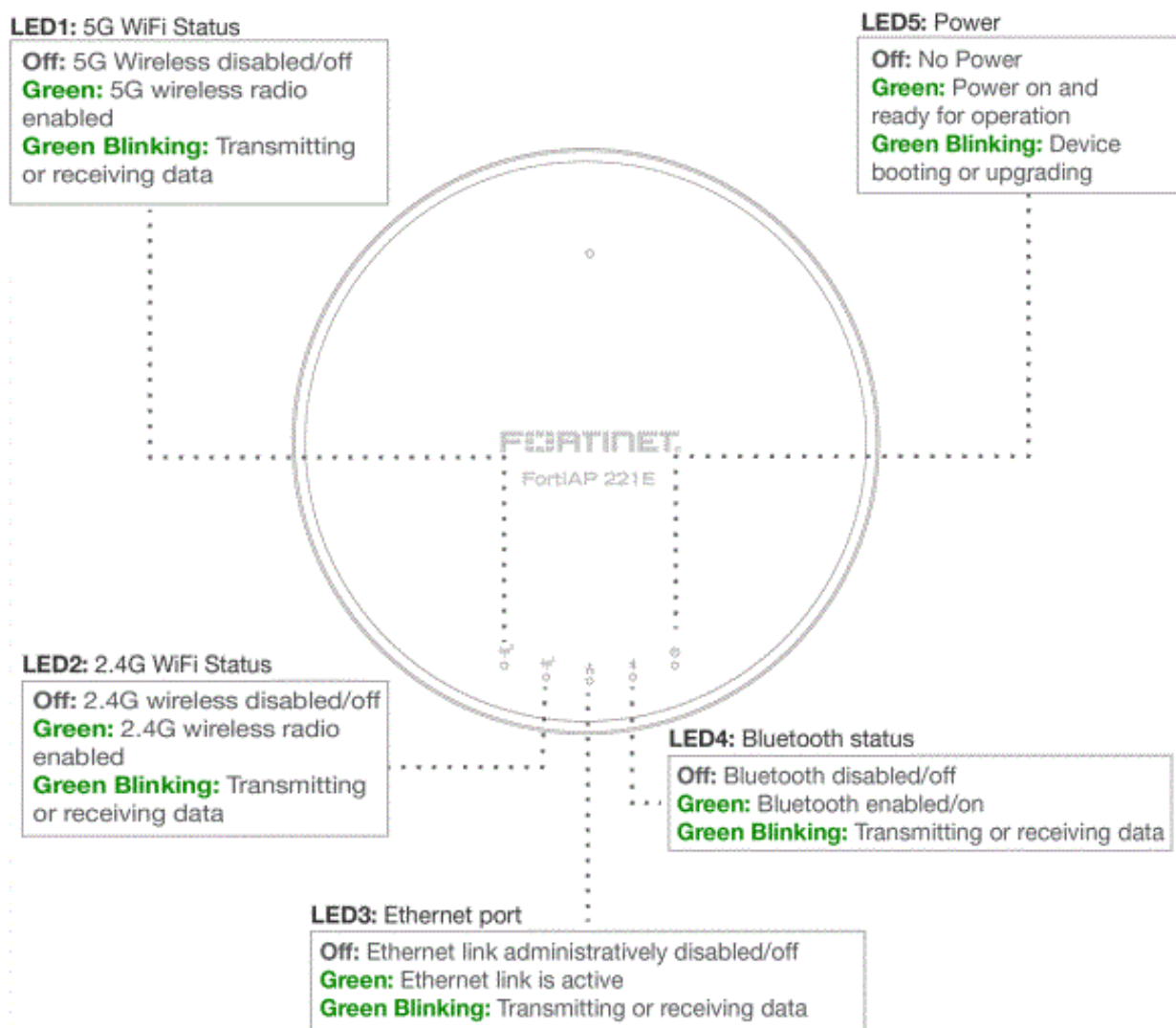
Hostname



QuickStart Guide Video

Device Front

FortiAP 221E



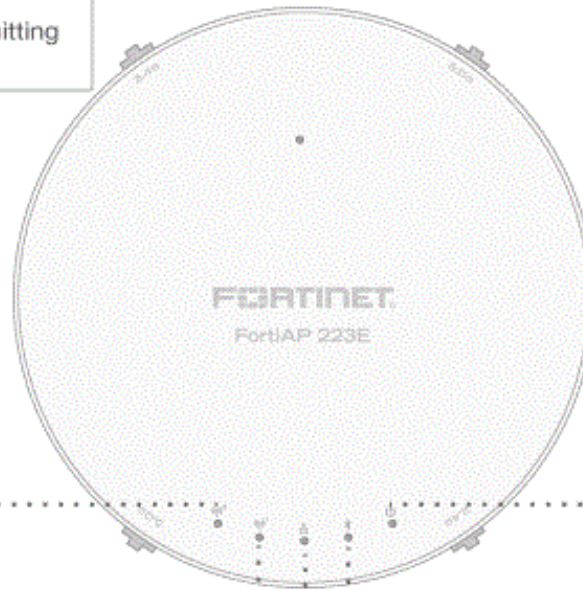
FortiAP 223E –

LED1: 5G WiFi status

Off: 5G Wireless disabled/off
Green: 5G wireless radio enabled
Green Blinking: Transmitting or receiving data

LED5: Power

Off: No Power
Green: Power on and ready for operation
Green Blinking: Device booting or upgrading



LED2: 2.4G WiFi status

Off: 2.4G wireless disabled/off
Green: 2.4G wireless radio enabled
Green Blinking: Transmitting or receiving data

LED4: Bluetooth status

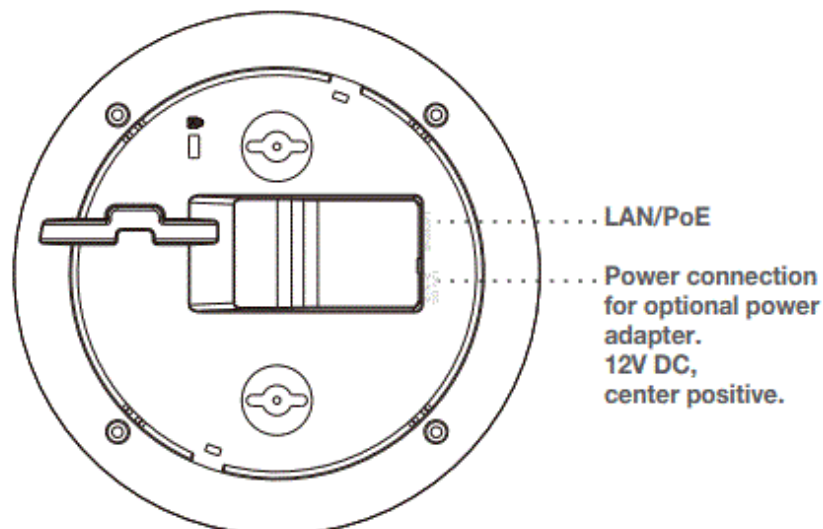
Off: Bluetooth disabled/off
Green: Bluetooth enabled/on
Green Blinking: Transmitting or receiving data

LED3: Ethernet port

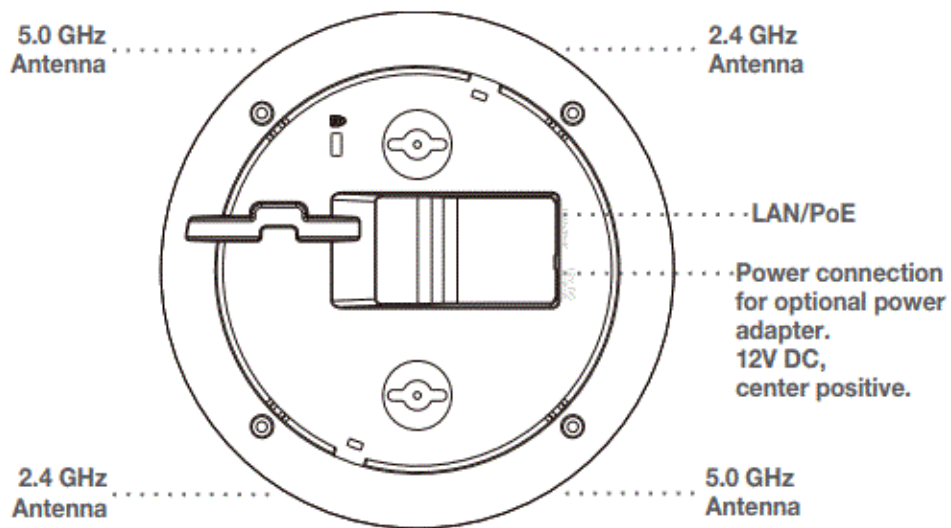
Off: Ethernet link administratively disabled/off
Green: Ethernet link is active
Green Blinking: Transmitting or receiving data

Device Rear

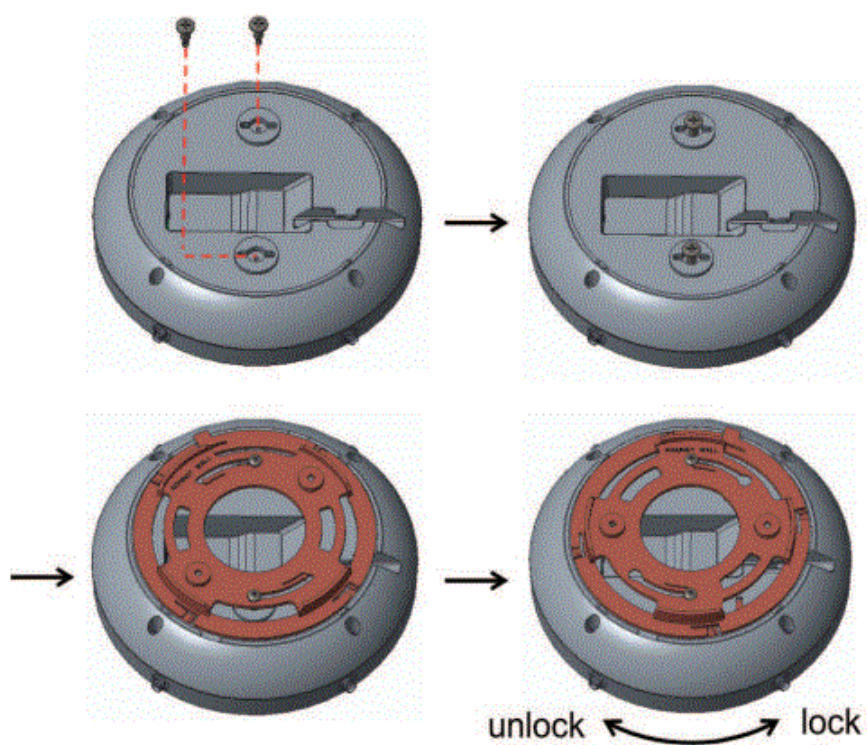
FortiAP 221E

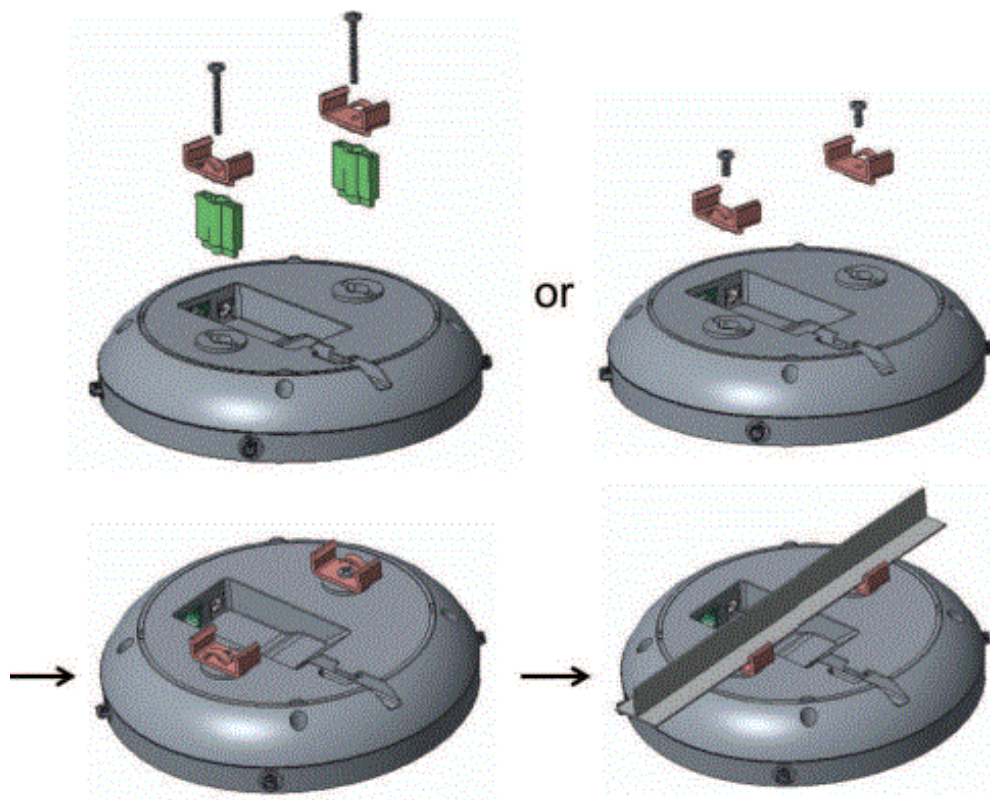


FortiAP 223E



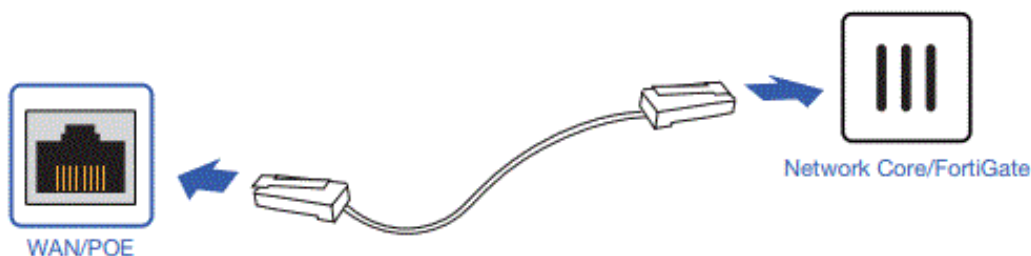
Installation





- The unit can be mounted on a wall or ceiling using the mounting hardware provided.
- The electrical wall box must be pre-installed.

BasicConnection



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

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.

FortiAP Setup

Deployment through a FortiGate

Ensure that you are running the Fortinet recommended version of the software. Please check support.fortinet.com for more information.

If FortiGate is on the same network as the FortiAP:

1. Use FortiGate to preauthorize the FortiAP device.
2. Refer to the “Access Point Deployment” section of the FortiWiFi and FortiAP Configuration Guide found at <http://forti.net/ap-docs>.
3. Plug the FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can use the FortiGate to authorize the FortiAP device after you have connected the FortiAP to the network.
2. Within two minutes of connecting the FortiAP to the FortiGate, the device appears on the Managed FortiAP page in the Web-based Manager: authorize and assign a profile to the device.

Access Point	State	Connected Via	SSIDs	Channel	Clients	OS Version	FortiAP Profile	Ref.
FP221E3X16000016	Online	192.168.1.51 - SW-WAN2-INT	Radio 1: 10 FP221E3X16000016_1_1 (FAP_VAP_1_1) Radio 2: 10 FP221E3X16000016_1_2 (FAP_VAP_1_2)	Radio1: 11 Radio2: 40	Radio 1: 0 Radio 2: 0	FP221E-v5.4-build4118	221E_Profile_1	0
FP223E3X16000001	Online	192.168.1.50 - SW-WAN2-INT	Radio 1: 10 FP223E3X16000001_2_1 (FAP_VAP_2_1) Radio 2: 10 FP223E3X16000001_2_2 (FAP_VAP_2_2)	Radio1: 1 Radio2: 153	Radio 1: 0 Radio 2: 0	FP223E-v5.4-build4118	223E_Profile_2	0

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

1. Log into 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 FortiAP via the CLI using the instructions in the “Connecting to FortiAP CLI” section of the FortiWiFi and FortiAP Configuration 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 device connects to FortiGate, and then you can authorize the FortiAP.

Cautions and warnings

Environmental specifications

Ambient operating temperature: 0°C–40°C

Refer to the specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Safety

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

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, 2A, or 54 Vdc from a 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, according 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 under 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 the receiver.
- Connect the equipment to 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 of 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.
- For operation within 5.15– 5.25 GHz 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 channels 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 20cm 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.
 - This device has been designed to operate with an antenna having a maximum gain of 3.89 dBi for 2.4 GHz and 5.55 dBi for 5 GHz. Antenna having a higher gain is strictly prohibited per regulations of ISED. The required antenna impedance is 50 ohms.
 - Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotopically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
 - This radio transmitter (IC: 7280B-2507T121) 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 its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except per IC multi-transmitter product procedures.

Qty	Antenna Type	Connector	Gain (dBi)	
			2.4 GHz	5 GHz
Internal Antenna Model				
2	PIFA	IPEX	3.89	-
2	PIFA	IPEX	-	5.55
External Antenna Model				
2	Dipole	RP SMA Plug	2.0	-
2	Dipole	RP SMA Plug	-	3.0
Bluetooth				
1	Chip	IPEX	2.93	-

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:

- 2412-2472MHz less than 20dBm
- 5180-5240MHz less than 23dBm
- 5260-5320MHz less than 23dBm *
- 5500-5700MHz less than 30dBm *

Note: * Only with DFS bands certification.

This equipment should be installed and operated with a minimum distance of 32cm 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 complies 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>

The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range in the following countries:

AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	EL	HU	IE
IT	LV	LT	LU	MT	NL	PL
PT	RO	SK	SI	ES	SE	UK

National Telecommunications Commission (NCC) – Taiwan

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warranty is only valid for Products that are properly registered on Fortinet's Support Website, <https://support.fortinet.com>, or such other website as provided by Fortinet, or for which the warranty otherwise starts according to Fortinet's policies. The warranty periods discussed below will start according to Fortinet's policies posted at <http://www.fortinet.com/aboutus/legal.html> or such other websites 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, for any spare parts not purchased directly from Fortinet by the end-user, for any accessories, or for any stand-alone software. Fortinet warrants that the hardware portion of the Products, including spare parts unless noted otherwise ("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 three hundred sixty-five (365) day limited warranty for the Hardware excluding spare parts, power supplies, and accessories (provided, solely for FortiAP and Meru AP indoor Wi-Fi access point Hardware appliance products and FortiSwitch Hardware appliance products other than the FortiSwitch-5000 series (for both excluding spare parts, power supplies, and accessories), 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), and, for spare parts, power supplies, and accessories, solely a ninety (90) days limited warranty. 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. 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Documents / Resources

 <p>FortiAP 221E, 223E QuickStart Guide</p>	FORTINET 221E Wireless Access Point [pdf] User Guide 221E Wireless Access Point, 221E, Wireless Access Point, Access Point, Point
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