

**FORTINET.
FortiAP U231F
Wireless
Access Point**



FORTINET FortiAP U231F Wireless Access Point User Guide

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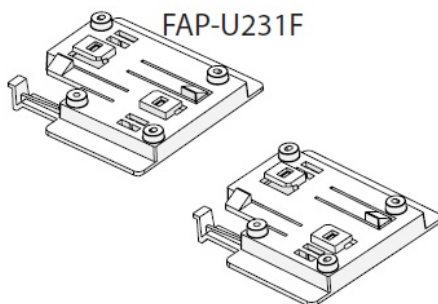


FORTINET FortiAP U231F Wireless Access Point



Box Includes

FAP-U231F Box Includes



Wall/Ceiling Mount & Standard
Tile T-rail Bracket (2 Sizes)

About FAP-U231F

IMPORTANT:

Supported only from FortiWLC 8.6.1 and FortiGate with FOS version 6.4.3 and later.

- The FortiAP-U231F access points are 802.11ax, 2x2 MIMO, tri-radio, and dual-band indoor access points and

are compliant with the IEEE 802.3at PoE specifications.

- The FAP-U231F is compatible with FortiWLC enterprise wireless LAN controllers, integrated FortiGate enterprise firewall LAN controllers, and the FortiAPCloud management platform.
- This device can be wall-mounted or ceiling-mounted. Use the supplied hardware components to complete installing the unit.

Installing FAP-U231F

Follow this procedure to attach the unit to a wall or ceiling using the supplied mounting bracket.

1. Slide and attach the ceiling mount bracket to the bottom cover of the FortiAP unit.

If extra space is required to accommodate drop ceiling tiles, use the taller ceiling mount bracket.

2. Select an appropriate location, hold the device against the ceiling T-rail, and push the FortiAP unit onto the ceiling until it snaps into place.

The unit can be removed from the bracket by pressing on the bracket tab and sliding the device out.

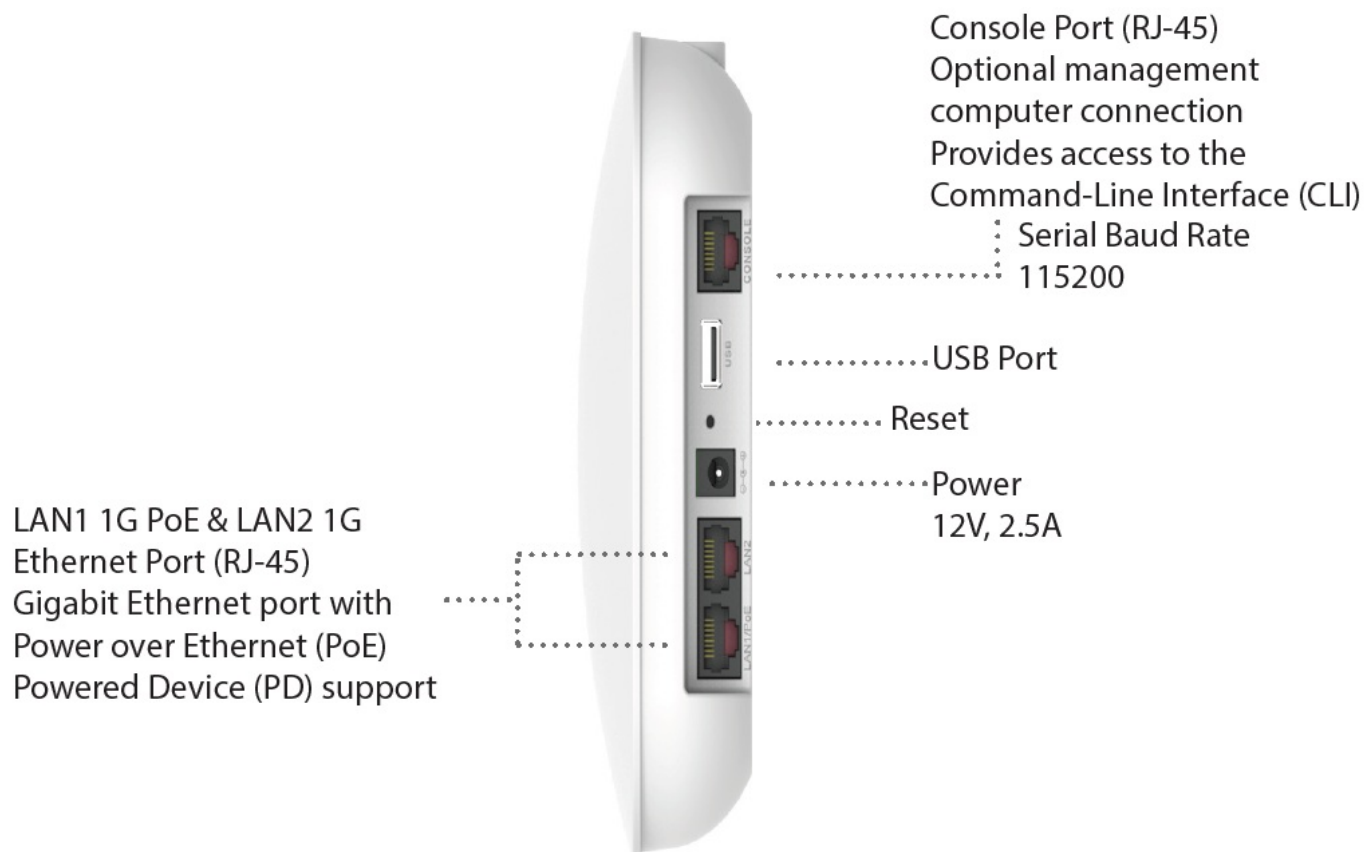
Bracket attached



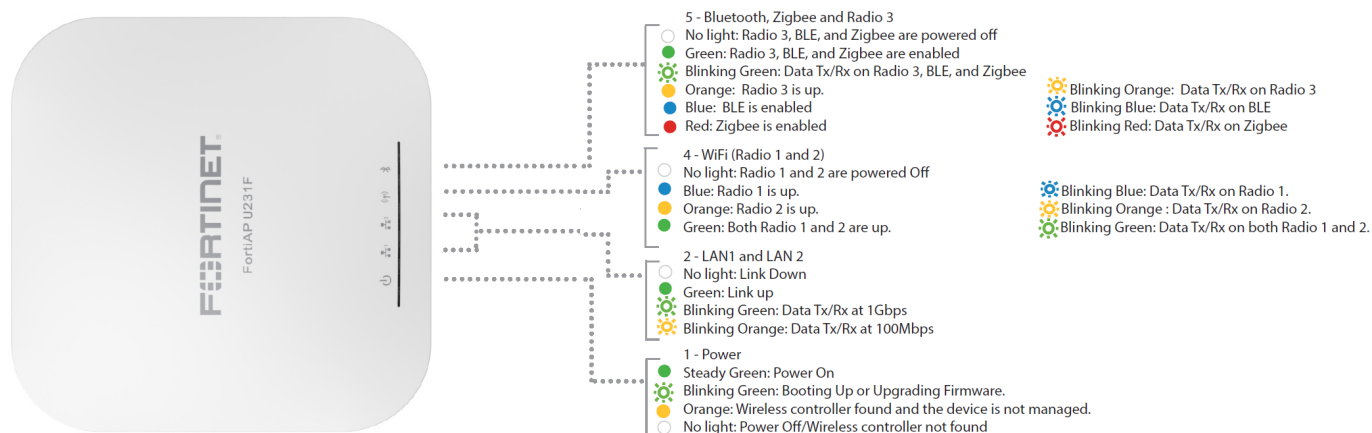
Notes:

- One standard ceiling mount bracket is included in sizes: 1.43cm (9/16in) and 2.38cm (15/16in).
- Mounting above the ceiling: FAP-U231F is UL2043 plenum rating certified. However, mounting it above the ceiling is restricted to the FortiAP either facing up or facing down; mounting FAP-U231F vertically is not allowed.
- To protect your device from unauthorized removal, use the Kensington™ Security Slot to attach a cable lock (not included).

Ports



LED Status



Connecting

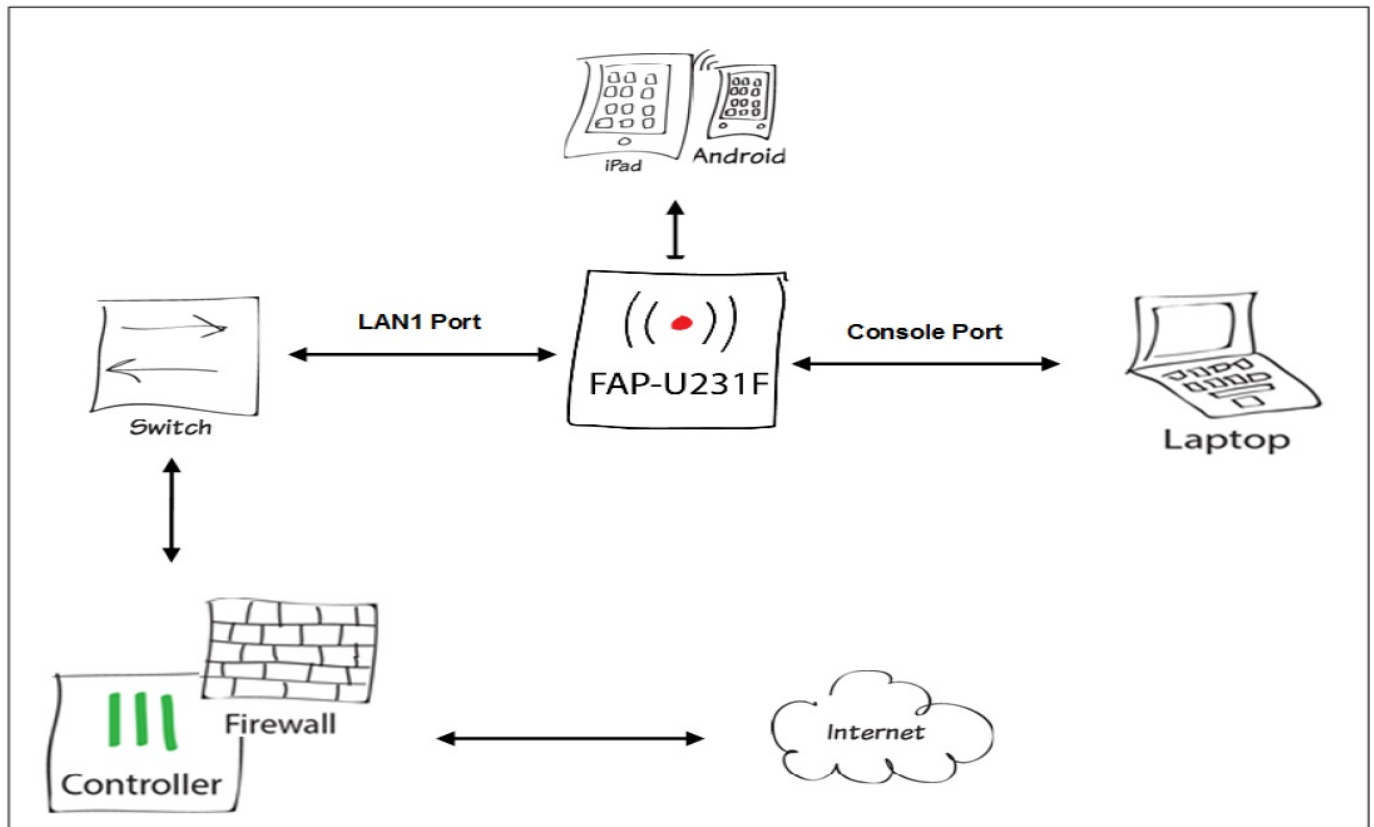
Adequate grounding must be provided to the FortiAP unit in compliance with the local electrical code.

Caution:

Do not use any PoE injectors that are not IEEE 802.3at compliant, as they may damage your device.

1. Connect one end of the Ethernet cable to the LAN1 port of the FortiAP unit.
2. Connect the other end of the Ethernet cable to your switch.
3. Connect one end of the console cable to the RJ-45 console port on the FortiAP. Connect the other end to a management computer for CLI access.
4. If you are not using PoE, connect the DC plug of the optional power adapter to the DC power jack on the FortiAP unit, and then insert the other end into an appropriate power outlet.

The power LED will light up.



Supported Controller Types

FAP-U231F is compatible with FortiWLC enterprise wireless LAN controllers, integrated FortiGate enterprise firewall LAN controllers, and FortiAPCloud management platform.

- If the FortiWLC controller is discovered, the unit continues booting up with the default FortiWLC image.
- If the FortiGate controller or the FortiAPCloud management platform is discovered, the unit reboots with the FortiAP image.
- For the FortiAP to discover the FortiAPCloud management platform, you need to add the unique FortiAPCloud key labeled on the device to the FortiAPCloud. See section FortiAPCloud Deployment.
- For the FortiAP to complete the FortiGate discovery, you need to authorize the FortiAP on the FortiGate. See section FortiGate Deployment.
- To bring the FortiAP back to the factory default setting, insert a pin into the reset point on the FortiAP unit and hold on for 10 seconds. Release the pin.
- On the FortiAP image, run the reload default factory command to reset the FortiAP to factory default.

FortiAPCloud Deployment

Follow these steps to complete the FortiAPCloud discovery.

1. Visit <https://login.fortiapcloud.com> and sign in or create a new account.
2. Click Inventory > Import AP Key and enter the unique FortiAPCloud key, then click Submit.

Note: The FortiAPCloud key is located on the back of your FortiAP unit.

✕

Add AP

Please input the FortiCloud Key to add an AP:

FUTXXXXP

Submit

3. Deploy the FortiAP to an existing AP network, or create a new AP network, then click Submit.
4. Follow the prompts to associate the FortiAP device with an SSID.
5. Connect your FortiAP to an Internet connection. This can be a modem or another source of Internet connectivity.

Configure the discovered FortiAP.

- To complete the FortiGate controller discovery process, you need to authorize the FortiAP on FortiGate.
- 192.168.1.2 is the default FortiAP IP address when it boots up with the FortiAP image managed by FortiGate

WiFi & Switch Controller		+ Create New		Edit	Delete	Refresh	Search		Managed	AP
Managed FortiAPs		Access Point	Status	SSIDs		Channel	Clients	OS Version	LLDP	FortiAP Profile
WiFi Clients		PU231FTH20000005	Online	All Tunnel Mode SSIDs		1	0	PU231F-v6.2-build0233	eth0: FortiAP-421E - 90:6c:ac:fa:1d:e0 eth0: FAPU433_SAG_CUBE - 00:0c:e6:78:57:00	FAPU231F-de
WiFi Maps				All Tunnel Mode SSIDs		153				
SSIDs				N/A		N/A				

Zero Configuration

- The FortiAP unit is designed to require no configuration in most networks. Zero configuration mode works if the unit is on the same layer-2 network and subnet as the FortiWLC, or if the unit is on the same layer-3 network and subnet as the FortiGate controller or FortiAPCloud management platform.
- If the FortiAP wireless controller's IP address cannot be determined using Zero Configuration mode, or if the network uses static IP addresses, it can be configured to use a static IP address.
- To enable the FortiAP with a static IP address:

To enable the FortiAP using Zero Configuration:

1. After connecting the FortiAP unit as described in the previous chapter, the unit goes through its boot procedure and requests an IP address from the DHCP server.
2. If the IP address is retrieved successfully, the FortiAP enters discovery mode to locate a Controller.

The discovery modes for the FortiWLC controller are:

- DHCP option 43
- DHCP option 138
- DNS
- Static Controller IP address

The discovery modes for the FortiGate controller are:

- DHCP option 138
- DNS
- Multicast
- Broadcast
- Static Controller IP address

The discovery mode for the FortiAPCloud management platform is:

- DNS (for an FQDN pointing to the FortiAPCloud)

3. Verify that the FortiAP has successfully connected to the controller in the FortiWLC/FortiAPCloud/FortiGate WebUI.

Manual IP Configuration & Controller Discovery

To enable the FortiAP with a static IP address:

1. Connect the FortiAP device to a separate private switch or hub.
2. Access the AP console through the serial port.
3. To configure FortiAP's own IP address, type `ip config net static address <ip-address> netmask <netmask ip-address> gateway <gateway ip-address>`.
4. [FortiWLC only] To discover the controller, type `ip config l2l3 <l2only | l2preferred | l3only | l3preferred>`.
5. To configure a designated wireless controller's IP address, type `ip config controller name <controller ip-address>`.
6. Save the configuration by typing `ip config save`.
7. Move the FortiAP to the intended deployment location and connect the Ethernet cable.

Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0C to 50C

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.

Battery

Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode.

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, under 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 by 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 25cm 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, and (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 25cm between the radiator & your body.

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.

- 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.
- Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.
- This device has been designed to operate with an antenna having a maximum gain of 3.97 dBi for 2.4GHz and 5.89 dBi for 5GHz. 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-371BB072) 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 by IC multi-transmitter product procedures.

Internal antenna Model:

Antenna	Qty	Antenna Type	Connector	Gain (dBi)	
				2.4GHz	5GHz
2.4/5 GHz Wi-Fi Antenna	4	PIFA	IPEX	3.97	5.44
5 GHz Wi-Fi Antenna	2	PIFA	IPEX	–	5.89
BLE/ZigBee- Antenna	1	PIFA	IPEX	3.69	–

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.



Perchlorate Material

special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate/.

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 20cm between the radiator & 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.

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

Compliance with 2014/53/EU Radio Equipment Directive (RED)

By Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency Range (MHz)	Max. Transmit Power (dBm)
Bluetooth: 2402-2480MHz	9.99dBm
Zigbee: 2405-2480MHz	9.99dBm
WLAN 2.4GHz: 2412-2472MHz	19.99dBm
WLAN 5GHz: 5150-5350MHz	22.97dBm
WLAN 5GHz: 5470-5725MHz	28.66dBm

UK Conformity Assessed (UKCA) – United Kingdom

The product transmits within the frequency ranges and less than or equal to the power listed below:

- 2402-2480MHz less than 20dBm
- 2405-2480MHz less than 20dBm
- 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 20cm between the radiator & your body.
- This product complies with Statutory Instrument 1206 Radio Equipment Regulations 2017
- The full Declaration of Conformity for this product is available at this link.

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

License Agreement

Fortinet Product License Agreement/EULA and Warranty Terms

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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, at its discretion,

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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 the software as initially shipped with the Hardware Products will substantially conform to Fortinet's then-current functional specifications for the Software, as outlined in the applicable documentation for 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.

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- **Fortinet Customer Service & Support**

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- **Fortinet Document Library**

Up-to-date versions of Fortinet publications for the entire family of Fortinet products. <http://docs.fortinet.com>.

- **Training Services**

Course descriptions, availability, schedules, and location of training programs in your area.

<http://www.fortinet.com/training>.

- **Technical Discussion Forums**

Communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues. <https://support.fortinet.com/forum>.

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Documents / Resources

	<p>FORTINET FortiAP U231F Wireless Access Point [pdf] User Guide</p> <p>FortiAP U231F Wireless Access Point, FortiAP U231F, Wireless Access Point, Access Point, Po int</p>
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References

- [User Manual](#)

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