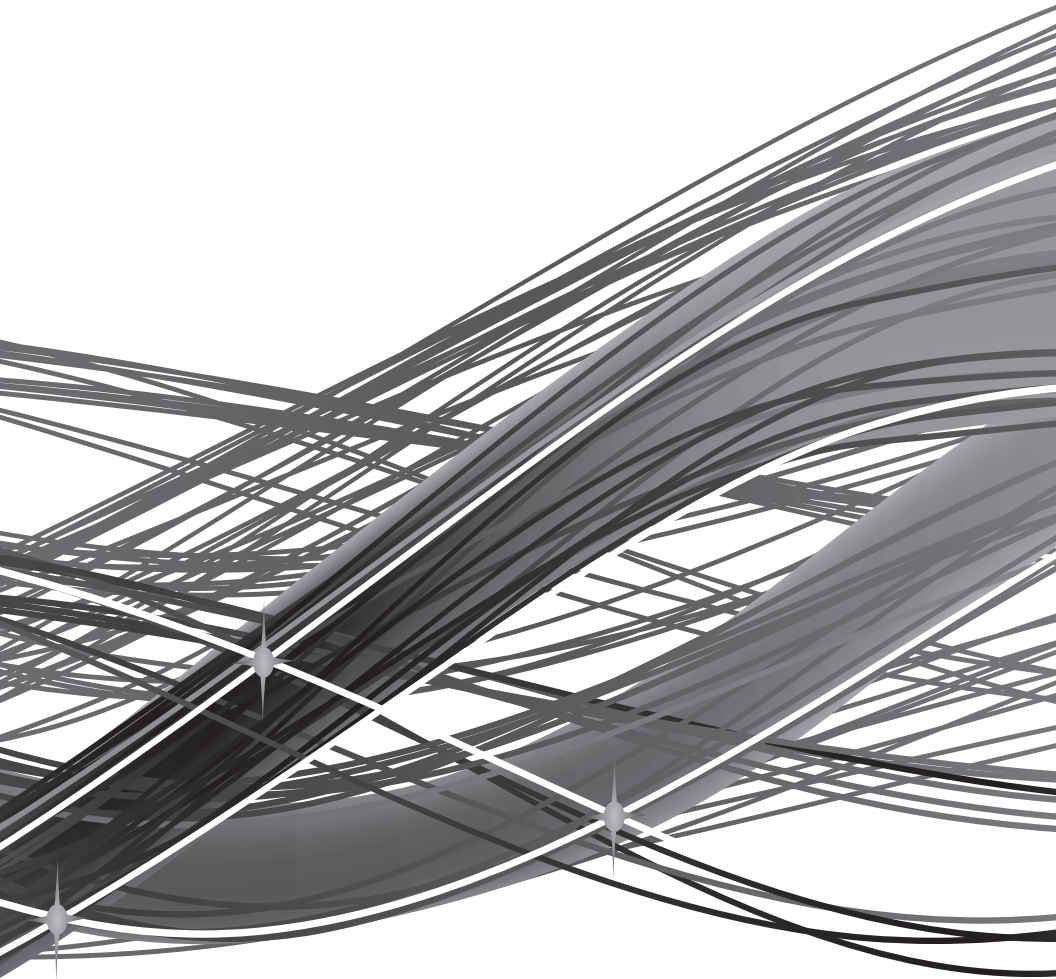




FortiAP-222B QuickStart Guide



FORTINET®
Real Time Network Protection

February 15, 2011

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Package Contents

1

Thank you for purchasing the FortiAP-222B. The FortiAP-222B offers you unmatched performance, flexibility, and security for your wireless network. The appliance combines high performance hardware with multi-band wireless support, weatherproofing, 802.3af Power over Ethernet, and provides simplified protection for your network with Fortinet's unmatched depth and breadth of security services.

Your box contains the following:

FortiAP-222B

Mounting Hardware

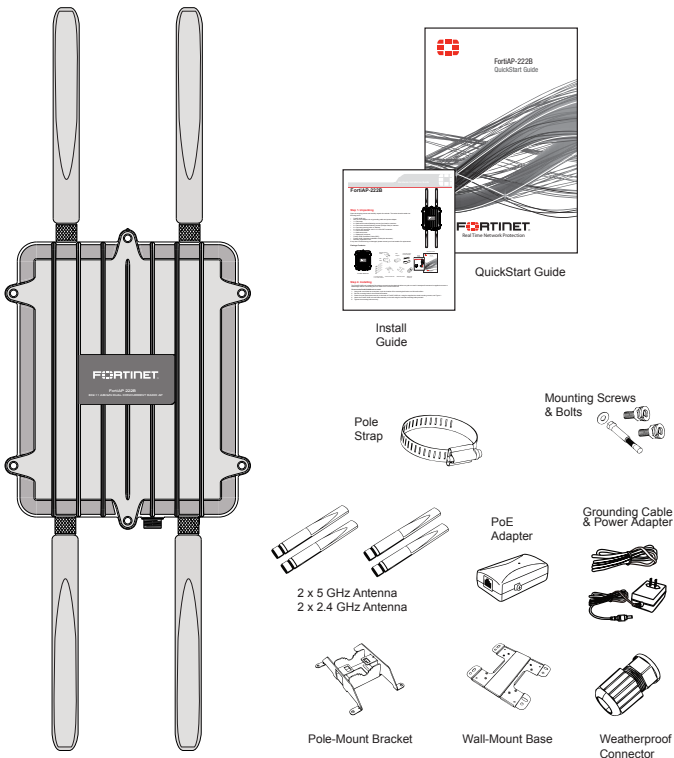
2x 2.4GHz Wireless Antenna (N-type connector)

2x 5GHz Wireless Antenna (N-type connector)

Power over Ethernet Adapter

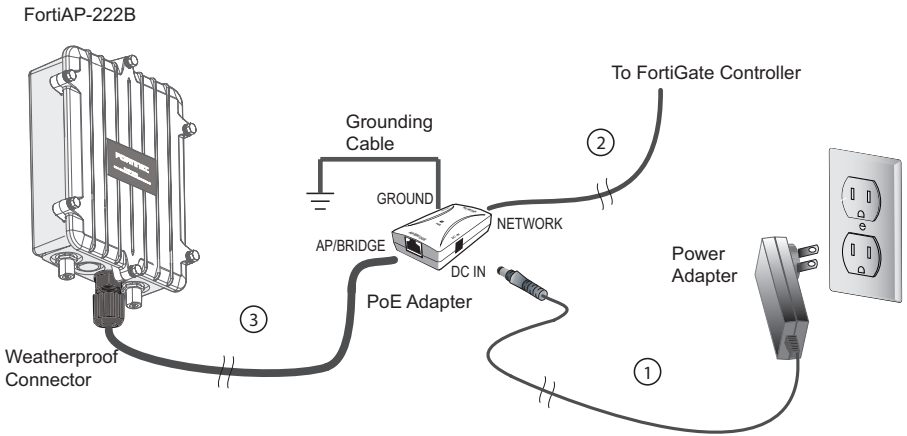
Weatherproof connector

QuickStart and Installation Guides



2

Connect Devices



Using the provided mounting brackets, attach the outdoor FortiAP unit to a wall or pole, as described in the *FortiAP-222B Hardware Installation Guide*. The PoE adapter unit is not weatherproof and must be mounted indoors. Adequate grounding must be provided to the FortiAP unit and the PoE adapter, in compliance with the local electrical code. Grounding lugs are provided for this purpose.

Connect the FortiAP unit as follows:

- 1 Connect your region-specific AC plug adapter to the AC Adapter by inserting the round disk into the Adapter and rotating clockwise until you hear the disk lock in place.
- 2 Insert the DC plug of the power adapter into the DC IN port on the PoE adapter. Plug the AC Adapter into a wall outlet or power strip. The PWR LED will light up.
- 3 Connect one end of a cross-over Ethernet network cable into the Network port on the PoE adapter. Connect the other end to the FortiGate controller or router.
- 4 Using the supplied weatherproof connector, connect one end of an outdoor straight-through Ethernet cable to the PoE port on the bottom of the FortiAP unit, following the procedure in the *FortiAP-222B Hardware Installation Guide*. Insert the other end of the Ethernet cable into the AP/Bridge port on the PoE adapter.

Configure Your Device

3

The FortiAP is designed to require no configuration in most networks. Zero Configuration mode works if the FortiAP is directly connected to the FortiGate performing the Wireless LAN Controller (WLC) functions, or on the same layer-2 network and subnet as the FortiGate.

To enable the FortiAP using Zero Configuration:

- 1** Connect the network and power cable as described in the Connecting section.
- 2** Once power is applied, the FortiAP goes through boot procedure and requests an IP address from the DHCP server.
- 3** If the IP address is retrieved successfully, the FortiAP enters discovery mode to locate a FortiGate wireless controller. The discovery modes are:
 - Broadcast
 - Multicast
 - DHCP option 138
- 4** Verify that the FortiAP has successfully connected to the controller. In FortiGate controller Web Config, go to *Wireless Controller > Managed Access Points > Managed FortiAP*. A successfully discovered unit displays a gray circle with a question mark in the Status column.
- 5** Select the check box for the Access Point and click *Authorize*. The status icon will change to a green circle with a check mark.
- 6** Select the check box for the Access Point and select *Edit*.
- 7** In the Edit FortiAP dialog box, select *Enable Wireless Radio*. Leave the remaining settings at their default values.
- 8** The configuration is downloaded from the FortiGate unit to the FortiAP. For more details, see the *FortiOS 4.3 Online Help*.

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Configure Your Device (Continued)

If the FortiAP wireless controller's IP address cannot be determined from the methods above or if the network uses static IP addresses, do the following:

- 1 Connect the FortiAP unit to a separate private switch or hub or directly connect it to your management computer via a cross-over cable.
- 2 Change your management computer's IP address to 192.168.1.3
- 3 Telnet to IP address 192.168.1.2.
- 4 Login with username: `admin` and no password.
- 5 Configure a static IP address for the FortiAP unit and netmask & gateway information for your network, using the following commands:

```
cfg -a ADDR_MODE=STATIC
cfg -a AP_IPADDR=xxx.xxx.xxx.xx
cfg -a AP_NETMASK=255.255.255.0
cfg -a IPGW=yyy.yyy.yyy.yyy
cfg -a AC_IPADDR_1=zzz.zzz.zzz.zzz
```

where `xxx` is the IP address of the FortiAP unit, `yyy` is the Gateway IP address and `zzz` is the IP address of the FortiGate Wireless Controller.

- 6 Save the configuration by typing the following command:

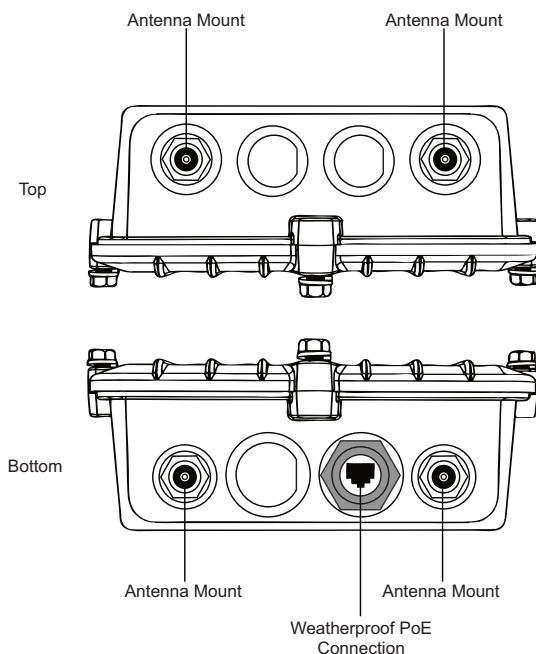
```
cfg -c
```

- 7 Unplug the FortiAP unit and plug it back in order for the configuration to take effect.
- 8 Move the FortiAP to the intended deployment location and connect the Ethernet cable as described in the Connecting section.
- 9 Log in to the FortiGate controller web-based manager, and go to *Wireless Controller > Managed Access Points > Managed Access Points*. A successfully discovered unit displays a gray circle with a question mark in the Status column.
- 10 Select the check box for the discovered Access Point and click *Authorize*. The status icon changes to a green circle with an up arrow.
- 11 Select the check box for the Access Point and select *Edit*.
- 12 In the Edit FortiAP dialog box, select *Enable Wireless Radio*. Leave the remaining settings at their default values. The configuration is downloaded from the FortiGate unit to the FortiAP.

For more information about configuring your wireless network, see the FortiOS 4.3 Handbook on the Fortinet Technical Documentation website.

Interface Specifications

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Interface	Type	Speed	Protocol	Description
PoE Port (FAP-222B - bottom)	RJ-45	Gigabit Ethernet + 48V PoE	802.3af	PoE input from adapter via weatherproof Ethernet cable. Use with weatherproof connector.
AP/Bridge (PoE Adapter)	RJ-45	Gigabit Ethernet	Ethernet	PoE output. Provides 48V of DC power and network connectivity to the AP.
Network (PoE Adapter)	RJ-45	Gigabit Ethernet	Ethernet	Connection to your network.
Ground (PoE Adapter)	Copper			Electrical ground connection for PoE Adapter.
DC in (PoE Adapter)	DC Power Jack			Provides power to PoE Adapter.
WLAN 1 (FAP-222B - top)	N-type connector		802.11a/n (5 GHz)	Two 802.11a/n antenna mounts.
WLAN 2 (FAP-222B - bottom)	N-type connector		802.11b/g/n (2.4 GHz)	Two 802.11b/g/n antenna mounts.

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Unit Specifications

Type	Description
Power Required	Power over Ethernet; 48V DC
Dimensions	LxWxD: 10in x 8in x 3in (245mm x 200mm x 75mm)
Ethernet Port	1 x 10/100/1000 Base-T Gigabit Ethernet
Housing	Weatherproof enclosure suitable for outdoor use.
Mount	Wall or pole.
Frequency Bands	802.11a/n: 5.15-5.35 GHz, 5.47-5.72 GHz, 5.725-5.825 GHz 802.11b/g/n: 2.400-2.484 GHz
Antenna Type	N-type connector

Note: The availability of some specific channels and/or operational frequency bands are country-specific and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Factory Defaults

Administrator Login

Username admin

Password <none>

Default Port Address

Ethernet Port 192.168.1.2

Register Your Product

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If you did not register your product using the FortiExplorer wizard, please register your product now.

Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

Registra

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

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Cautions and Warnings

FCC Interference Statement

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 not installed and used in accordance with the instructions, 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Operation within the 5.15 ~ 5.25GHz frequency range is restricted to indoor environments.

This device complies with Part 15 of the 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.

IMPORTANT NOTE: Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operate in conjunction with any other antenna or transmitter.

Industry Canada Statement

This device complies with RSS-210 of the Industry Canada 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.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

IMPORTANT NOTE: Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

- the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.
- les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

This device has been designed to operate with an antenna having a maximum gain of 5dBi. Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Ce dispositif a été conçu pour fonctionner avec une antenne ayant un gain maximal de dBi 5. Une antenne à gain plus élevé est strictement interdite par les règlements d'Industrie Canada. L'impédance d'antenne requise est de 50 ohms.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émission par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Product License Agreement

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