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FortiExtender 201E/211E/202E/212E

QuickStart Guide

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March 06, 2020

Packing List

FEX-201E/211E

FEX-202E/212E

LTE/GPS Antennas

Note: Actual product depends on model purchased.

Mounting Kit

Anchors and Screws

Rubber Feet

INSTALLATION GUIDE

Drill Template Sticker

QuickStart Guide

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FortiExtender 201E/211E/202E/212E
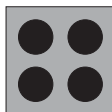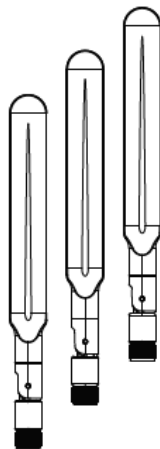
QuickStart Guide

Product Description

All FEX-201E/211E and 202E/212E products feature the same FEX-200E chassis with one or two LTE FEM-06-AMEU or FEM-12-GBL modem(s) pre-installed, as highlighted below.

Product Features

Model	Modem
FEX-201E	FEX-200E chassis with 1 FEM-06 AMEU modem pre-installed.
FEX-211E	FEX-200E chassis with 1 FEM-12 GBL modem pre-installed.
FEX-202E	FEX-200E chassis with 2 FEM-06 AMEU modems pre-installed.
FEX-212E	FEX-200E chassis with 2 FEM-12 GBL modems pre-installed.

Notes:
- FEM-06-AMEU LTE CAT 6 modem (Downlink: 300Mbps; Uplink: 50Mbps; Region: North America and Europe only).
- FEM-12-GBL LTE CAT 12 modem (Downlink: 600Mbps; Uplink: 150Mbps; Region: worldwide).
- FEX-201E/211E and 202E/212E only support MicroSIM (3FF) SIM cards, which are not included. You must purchase your own SIM cards.

Ports, LEDs, and Buttons

GE WAN and LAN (1–4) Ports. Port 4 is PoE PD
LAN (802.3af/at compatible).

USB 2.0   RJ45 Network LEDs

12V/2A Input (optional)
(Use 12V/2A power adapter
with ID 2.1 mm plug.)

Console Port
Note: To access the device from its console port,
you must set the baud rate to 115200.

Kensington Lock Slot   Bluetooth LED

Reset/Default Button   Bluetooth Button

LED Behavior

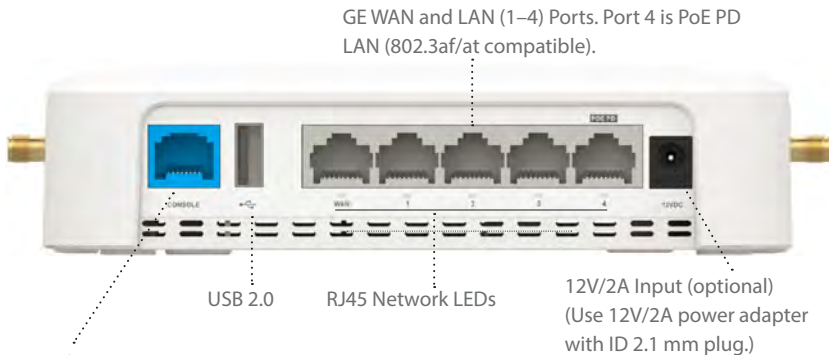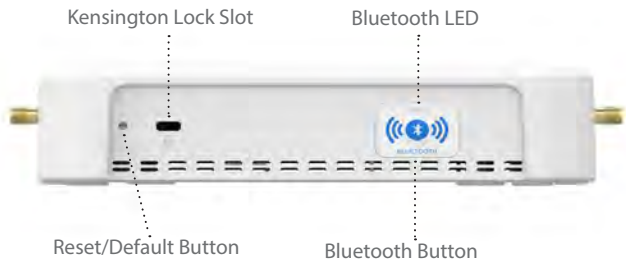| LED	Behavior and Description
RJ45 Network LEDs	Green Steady: 1G network connected. Green Flashing: 1G network activity. Amber Steady: 100M network connected. Amber Flashing: 100M network activity. Off: No network connection.
Bluetooth LED	Green Steady: The Bluetooth configuration window is open. Blue Flashing: Bluetooth configuration is in progress. Blue Steady: Bluetooth configuration is completed. The LED turns off in 5 seconds. Off: No Bluetooth configuration is allowed.

Control Button Usage

Button	Operating Instructions
Reset/Default Button	Press and hold for less than 5 seconds: Reset/Reboot the device. Press and hold for more than 5 seconds: Restore the device to its factory default settings.
Bluetooth Button	Press and hold for less than 3 seconds: Ignored. Press and hold for more than 3 seconds: Opens a window (period) of time for Bluetooth configuration, and turns on the Bluetooth LED. Note: The "window" closes if no Bluetooth configuration activity occurs within 30 seconds. Re-pressing the button has no effect while Bluetooth configuration is in progress or if it is completed within 5 minutes.

RF Connectors & System LEDs

LTE Modem 1 RF Connectors

MAIN   AUX   GPS

LTE Modem 1

Management

LTE Signal Level 4
LTE Signal Level 3
LTE Signal Level 2
LTE Signal Level 1

Power

FortiGuard Cloud

GPS   AUX   MAIN
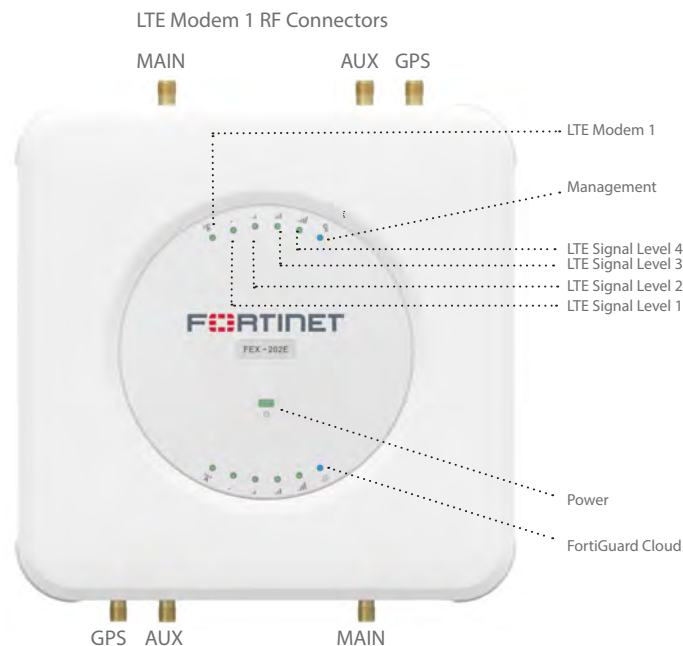
LTE Modem 2 RF Connectors (FEX-202E/212E only)

> **Note:**
> 1. Upper LTE LEDs are for LTE Modem 1; Lower LTE LEDs are for LTE Modem 2.
> 2. Management and FortiGuard Cloud LEDs apply to all FEX-201E/211E and 202E/212E models.

The following tables describe the use of RF connectors and the system LEDs on top of the FEX-201E/211E and 202E/212E casing.

RF Connector	Description
MAIN	Main LTE antenna.
AUX	Auxiliary (Diversity) LTE antenna.
GPS	GPS/GNSS antenna.

LED	Description
LTE Modem 1	Green Steady: Connected to carrier and working properly. Green Flashing: Booting up and connecting to carrier. Green Rapidly Flashing: SIM or firmware error. OFF: No LTE Modem 1.
LTE signal level 1	Green: LTE signal strength <25% (LED 1 on).
LTE signal level 2	Green: LTE signal strength 25%–50% (LED 1 & 2 on).
LTE signal level 3	Green: LTE signal strength 50%–75% (LED 1, 2, & 3 on).
LTE signal level 4	Green: LTE signal strength >75% (LED 1 , 2, 3, & 4 all on).
LTE Modem 2	Same as LTE Modem 1. See above.
Power	Green Steady: Booted up and working properly. Green Flashing: Booting up. Amber Steady: System error. OFF: No power.
Management	Blue Steady: Managed by FortiGate or FortiExtender Cloud. Blue Flashing: Connecting to a managing device. OFF: No management connection.
FortiGuard Cloud	Blue Steady: Connected to FortiGuard Cloud (FGC). Blue Flashing: Connecting to FGC. Blue Rapidly Flashing: Error in connecting to FGC. OFF: No connection to FGC.

① Basic Connections


LAN/PoE

Internet

Optional Power Connection
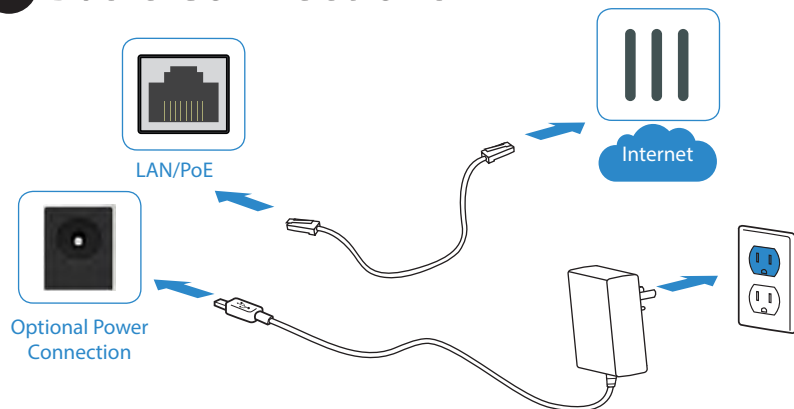
1. Insert one end of an Ethernet cable into the LAN/PoE port on the device.
2. Insert the other end of the Ethernet cable into the PoE LAN port on your FortiGate appliance. Ensure that FortiGate and FortiExtender are on the same subnet.
3. Optionally, if you are not using PoE, connect the device to a power outlet using a power adapter.

Warning:
You must provide adequate grounding to the PoE injector of the FortiExtender unit, if required, in compliance with your local electrical code or regulations.
This device complies with IEEE 802.3af/at PoE specification. Do not use a PoE injector that is not IEEE 802.3af/at compliant as it might damage your device.

② Assembly

1. Remove the dust cover that protects the SIM sockets and fits over the antenna posts.
2. Insert your MicroSIM (3FF) SIM card(s) into the SIM socket(s).
3. Observe the following guidelines:
    • If installing one SIM card, you can insert the card into either SIM socket.
    • If installing two SIM cards, use SIM1 as the primary socket and SIM2 as the secondary.
4. Insert the SIM card(s) into the SIM socket(s), making sure that the card is facing down with the cut corner on the left. (If necessary, press the card again to remove it.)
5. Replace the cover, and then attach the antennas.
6. (FEX-202E/212E only) Repeat Steps 1 through 4 above to assemble the LTE Modem 2 side.

3FF - Micro SIM
15mm x 12mm x 0.76mm

15mm
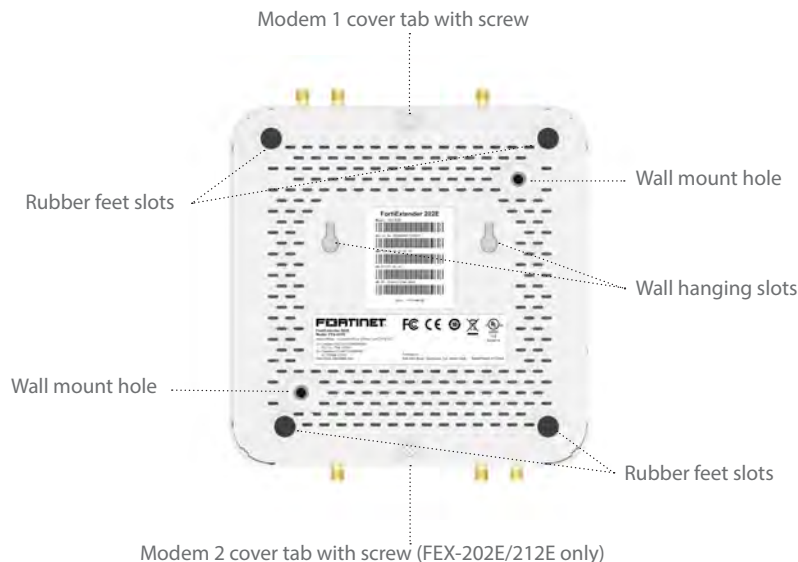
12mm
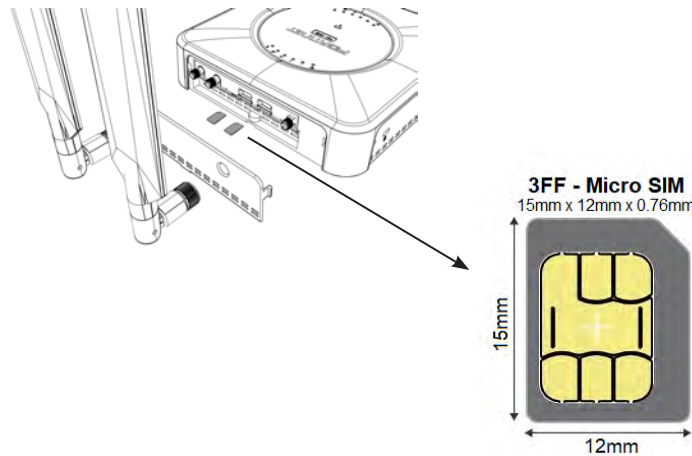
➌ IP Configuration

After you have connected the FortiExtender network interfaces, the device automatically attempts to obtain an IP address from a DHCP server. If you do not use DHCP, you can configure a static IP address.

To configure a static IP address:

1. Use an Ethernet cable to connect one of the LAN ports in the back of the FortiExtender to the Ethernet port of your computer.
2. Configure the computer to be on the same subnet as the FortiExtender by changing its IP address to 192.168.1.1 and the netmask to 255.255.255.0.
3. Open your web browser and point to the default FortiExtender web GUI address: http://192.168.1.2
4. In both the username and password fields, type `admin` and press Enter.
5. Go to Network Configuration.
6. For address mode, select Static.
7. Specify the IP address, netmask, and gateway; and then click APPLY.

➍ Installation

The FortiExtender device is designed for placement near a window (desk or wall mount) to achieve the best 3G/4G signal strength. Refer to the diagram below for proper placement and mounting.

Modem 1 cover tab with screw

Rubber feet slots

Wall mount hole

Wall hanging slots

Wall mount hole

Rubber feet slots

Modem 2 cover tab with screw (FEX-202E/212E only)

Install SIM card(s)

1. Unscrew the modem cover screw on the bottom of the unit.
2. Push the screw tab outwards, and unlock the cover from one end to remove it.
3. Insert your MicroSIM (3FF) SIM card(s) into the SIM socket(s).
4. Replace the modem cover, and fasten it onto the unit housing with the screw.

Place on top of a desk or flat surface

1. Attach the rubber feet to the four corners on the bottom of the unit.
2. Place the unit on the desk or flat surface.
3. Secure the unit in place with a Kensington lock.
4. Attach the antennas.

Hang on a wall

1. Peel off the drill template sticker, and stick it onto the wall in a desired location.
2. Use the template to mark and drill the pilot holes.
3. Insert the anchors into the holes.
4. Insert the screws into the anchors and tighten, leaving around a 5-mm gap between the screw head and the wall.
5. Position the device so that the mounting holes line up with the screws.
6. Place the mounting slots over the screws and slide the device down until the screws fit into the slots.

> **Tip:**
> Use bear claw screws. The screw heads of bear claw screws have a built-in gap that fits well with the hanging holes. You can purchase bear claw screws from a local or online hardware store.

Fasten onto a wall

1. Peel off the drill template sticker, and stick it onto the wall in a desired location.
2. Use the template to mark and drill the pilot holes.
3. Insert the anchors into the holes.
4. Snap off the plastic cover over the LEDs on the front to reveal the long screw holes.
5. Insert the long screws through the device from front to back.
6. Insert the long screws into the anchors on the wall and tighten.
7. Replace the cover over the LEDs on the front. Refer to the illustrations on the next page.
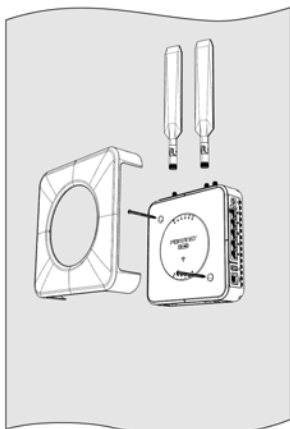
FEX-201E/211E Wall Mount
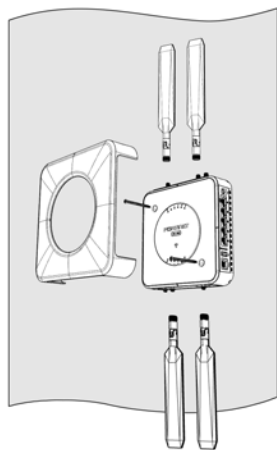
FEX-202E/212E Wall Mount
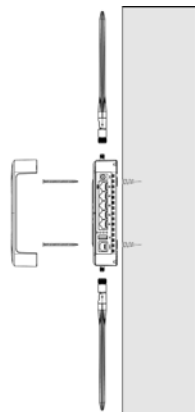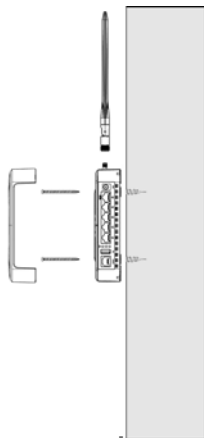
Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0℃ to 40℃

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

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'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.

Batterie—Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

CAUTION
There is a danger of explosion if a battery is incorrect replaced. Replace only with the same or equivalent type.
Dispose batteries of according to the manufacturer's instructions.
Disposing a battery into fire, a hot oven, mechanically crushing, or cutting it can result in an explosion.
Leaving a battery in an extremely hot environment can result in leakage of flammable liquid, gas, or an explosion.
If a battery is subjected to extremely low air pressure, it may result in leakage of flammable liquid, gas, or an explosion.

WARNUNG
Lithium-Batterie Achtung: Explosionsgefahr bei fehlerhafter Batteriewechsel. Ersetzen Sie nur den gleichen oder gleichwertigen Typ. Batterien gemäß den Anweisungen des Herstellers entsorgen.

Beseitigung einer BATTERIE in Feuer oder einen heißen Ofen oder mechanisches Zerkleinern oder Schneiden einer BATTERIE, die zu einer EXPLOSION führen kann

Verlassen einer BATTERIE in einer extrem hohen Umgebungstemperatur, die zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann

Eine BATTERIE, die einem extrem niedrigen Luftdruck ausgesetzt ist, der zu einer EXPLOSION oder zum Austreten von brennbarer Flüssigkeit oder Gas führen kann.

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: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12 Vdc, 3 A or by 48 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 3 A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 48 Vdc (PoE).

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 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas 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 20 cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

This radio transmitter (IC:7280B-121101A) 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.

Le présent émetteur radio (IC:7280B-121101A) a été approuvé par ISED pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

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.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionnement en association avec une autre antenne ou transmetteur.

Antenna Type	Model Number	Antenna Gain (dBi)	Remark
Dipole External Antenna	FEX-200E-ANT	698–960 MHz: 3.2 1447–1511 MHz: 2.2 1559–1606 MHz: 2.5 1710–2170 MHz: 4.8 2300–2700 MHz: 4.6	GPS/Glonass/BDS/Galileo
Printing	RF11C02360S	4	Bluetooth
Dipole External Antenna	FEX-200E-ANT	698–960 MHz: 3.2 1447–1511 MHz: 2.2 1559–1606 MHz: 2.5 1710–2170 MHz: 4.8 2300–2700 MHz: 4.6	WWAN

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.

CE

This equipment should be installed and operated with minimum distance 20 cm 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.

Български
Този продукт е в съответствие с Директива 2014/53/ЕС.

Česky
Tento produkt je v souladu se směrnicí 2014/53/EU.

Dansk
Dette produkt er i overensstemmelse med direktiv 2014/53/EU.

Deutsch
Dieses Produkt entspricht der Richtlinie 2014/53/EU.

Eesti
See toode vastab direktiivile 2014/53/EL.

English
This product is in compliance with Directive 2014/53/EU.

Español
Este producto cumple con la Directiva 2014/53/UE.

Ελληνική
Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Français
Ce produit est conforme à la Directive 2014/53/UE.

Hrvatski
Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Italiano
Questo prodotto è conforme alla Direttiva 2014/53/EU.

Latviski
Questo prodotto è conforme alla Direttiva 2014/53/EU.

Lietuvių
Šis gaminys atitinka direktyvą 2014/53/ES.

Malti
Dan il-prodott huwa konformi mad-Direttiva 2014/53/UE.

Magyar
Ez a termék megfelel a 2014/53/EU irányelvnek.

Nederlands
Dit product is in overeenstemming met Richtlijn 2014/53/EU.

Norsk
Dette produktet er i samsvar med direktiv 2014/53/EU.

Polski
Ten produkt jest zgodny z dyrektywą 2014/53/UE.

Português
Este produto está em conformidade com a Diretiva 2014/53/UE.

Rumunski
Acest produs este în conformitate cu Directiva 2014/53/UE.

Slovensky
Tento produkt je v súlade so smernicou 2014/53/EÚ.

Slovensko

Ta izdelek je v skladu z Direktivo 2014/53/EU.

Suomi
Tämä tuote on direktiivin 2014/53/EU mukainen.

Svenska
Denna produkt överensstämmer med direktiv 2014/53/EU.

Note: The full declaration of conformity for this product is available in the link below:
https://site.fortinet.com/ProductRegulatory/EU

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

In accordance with 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:

Standard	Frequency Range	Max. Transmit Power
Bluetooth	2402–2480 MHz	9.98 dBm (EIRP)
WCDMA	FDD Band I: 1920–1980 MHz (TX); 2110–2170 MHz (RX) FDD Band III: 1710–1785 MHz (TX); 1805–1880 MHz (RX) FDD Band VIII: 880–915 MHz (TX); 925–960 MHz (RX)	24.5 dBm (Conducted)
LTE	FDD Band 1: 1920–1980 MHz (TX); 2110–2170 MHz (RX) FDD Band 3: 1710–1785 MHz (TX); 1805–1880 MHz (RX) FDD Band 7: 2500–2570 MHz (TX); 2620–2690 MHz (RX) FDD Band 8: 880–915 MHz (TX); 925–960 MHz (RX) FDD Band 20: 832–862 MHz (TX); 791–821 MHz (RX)	24.5 dBm (Conducted)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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