



FORTINET®



FortiExtender 311F & 312F

QuickStart Guide





June 01, 2021

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

Vous devez enregistrer le produit pour recevoir:

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

La reistruzione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalità
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本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

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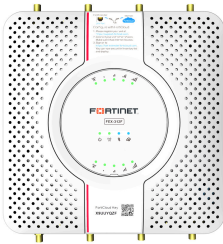
Email: register@fortinet.com





Packing List

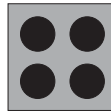
FEX-311F/312F



Mounting Kit

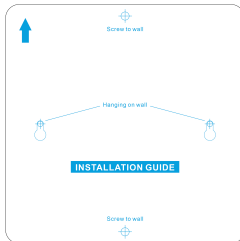


Anchors and Screws



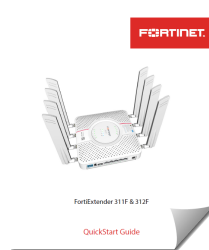
Rubber Feet

LTE/GPS Antennas



Drill Template Sticker

QuickStart Guide





Product Description

All FEX-311F and 312F products feature the same FEX-300F chassis with one (1) or two (2) CAT16 LTE modules pre-installed, as highlighted below.

Product Features

Model	Modem
FEX-311F	FEX-300F chassis with one (1) CAT16 LTE module pre-installed.
FEX-312F	FEX-300F chassis with two (2) CAT16 LTE modules pre-installed.

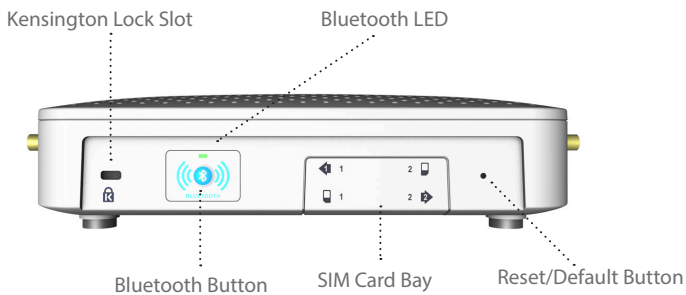
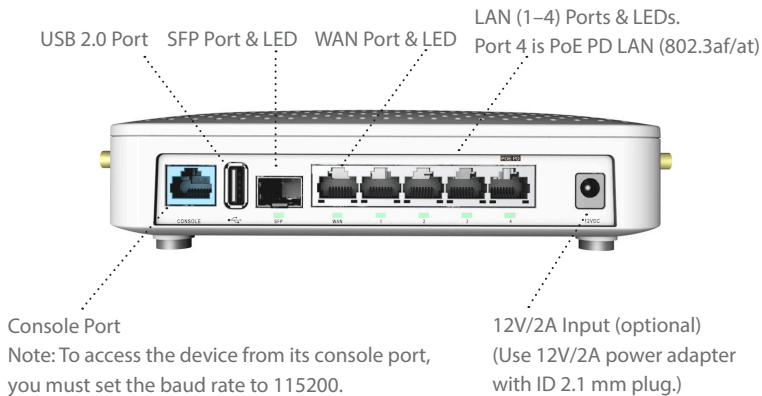
Notes:

- CAT16 LTE modules (downlink: maximum 1 Gbps; uplink: maximum 150 Mbps)
- FEX-311F and 312F only support MicroSIM (3FF) SIM cards, which are not included. You must purchase your own SIM cards.





Ports, LEDs, and Buttons





LED Behavior

LED	Behavior and Description
SFP	<ul style="list-style-type: none">• Green Steady: 1 G network connected.• Green Flashing: 1 G network activity.• OFF: No network connection.
WAN/LAN LEDs	<ul style="list-style-type: none">• Green Steady: 1 G network connected.• Green Flashing: 1 G network activity.• Amber Steady: 100 M network connected.• Amber Flashing: 100 M network activity.• Off: No network connection.
Bluetooth LED	<ul style="list-style-type: none">• Green Steady: The Bluetooth configuration window is open. (See Bluetooth Button below)• 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

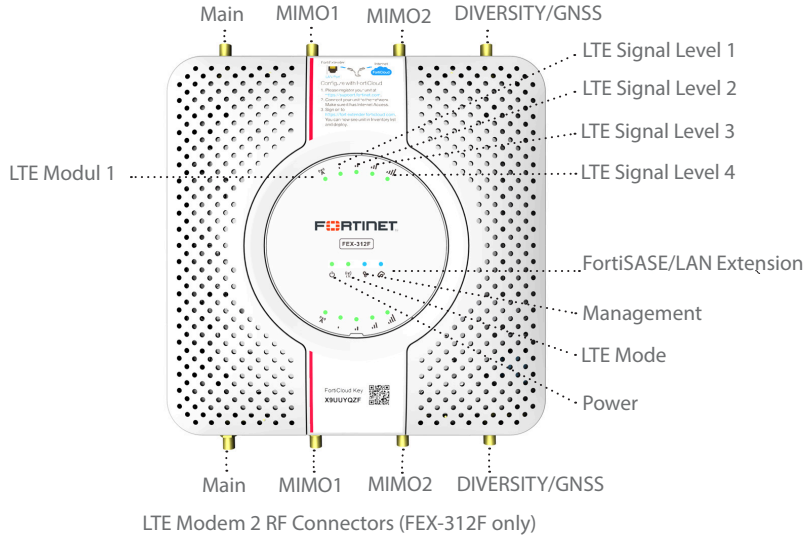
Button	Operating Instructions
Reset/Default Button	<ul style="list-style-type: none">• Press and hold for less than 5 seconds: Reset/Reboot the device.• Press and hold for more than 5 seconds: Restore the device to its factory default settings.
Bluetooth Button	<ul style="list-style-type: none">• Press and hold for less than five (5) seconds: Ignored.• Press and hold for more than five (5) 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 five (5) minutes.





RF Connectors & System LEDs

LTE Modem 1 RF Connectors



Note:

1. The upper LTE LEDs are for LTE Modem 1; the lower LEDs are reserved for LTE Modem 2.
2. The LTE LEDs apply to both Modems 1 and 2.
3. The Management and FortiSASE/LAN Extension LEDs apply to both FEX-311F and FEX-312F models.





System LEDs on top of the FEX-311F/312F

LED	Description
Power	<ul style="list-style-type: none">Green Steady—System has booted up, and is working properly.Green Flashing—System is booting up.Amber—System is in error state.OFF—System is powered off.
LTE Mode	<ul style="list-style-type: none">Green—System is running in LTE mode.
Management	<ul style="list-style-type: none">Blue Steady—System is managed by FortiGate or FortiExtender Cloud.Blue Flashing—System is connecting to a managing device.OFF—System is running in stand-alone mode.
FortiSASE/LAN Extension	<ul style="list-style-type: none">Blue Steady—System is connected to FortiSASE/LAN Extension.Blue Flashing—System is connecting to FortiSASE/LAN Extension.Blue Rapidly Flashing—Error in connecting to FortiSASE/LAN Extension.OFF—System is not connected to FortiSASE/LAN Extension.
Bluetooth	<ul style="list-style-type: none">Green—Bluetooth configuration window is open upon pressing the Bluetooth button. It closes in 30 seconds if no configuration occurs.Blue Flashing—Bluetooth configurartion is in progress.Blue Steady—Bluetooth configuration is completed. The LED turns off in 5 seconds.OFF—No Bluetooth configuration is allowed.





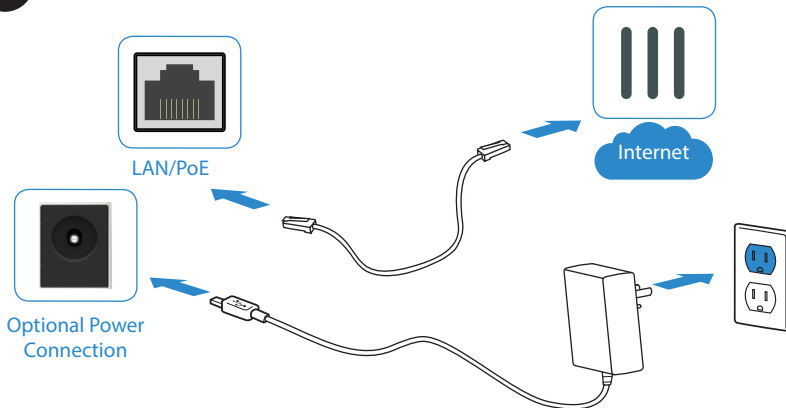
LTE LEDs	Description
LTE	<ul style="list-style-type: none">• Green Steady—The modem is connected to the wireless carrier and working properly.• Green Flashing—The modem is booting up and connecting to the wireless carrier.• Green Rapid Flashing—The modem is detected, but is experiencing some SIM or firmware error.• OFF—The modem is not detected.
LTE Signal Strength LEDs (Green)	<ul style="list-style-type: none">• 1 On—< 25%.• 1 & 2 On—25% - 50%.• 1, 2 & 3 On—50% - 75%.• 1, 2, 3, & 4 On—> 75%.

Note: The above descriptions apply to both Modem 1 and Modem 2. Modem 2 applies to FEX 312F only.





1 Basic Connections



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:

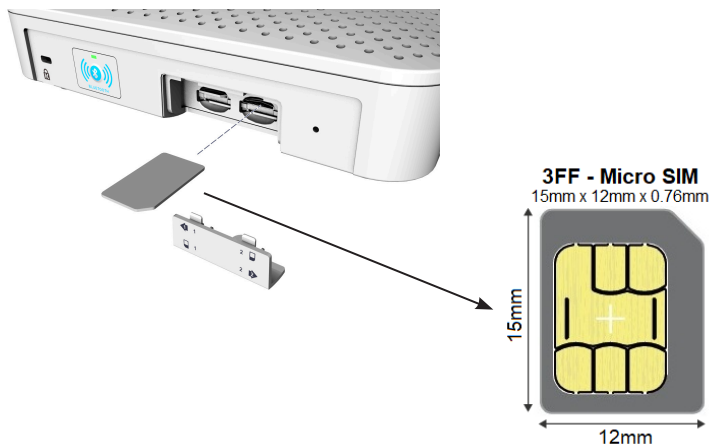
You must provide adequate grounding to the PoE injector of the FortiExtender unit, if required, in compliance with your local electrical code or regulations. This device complies with IEEE 802.3af/at PoE specification. Do not use a PoE injector that is not IEEE 802.3af/at compliant as it might damage 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 right. (If necessary, press the card again to remove it.)
5. Replace the cover, and then attach the antennas.





3 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:

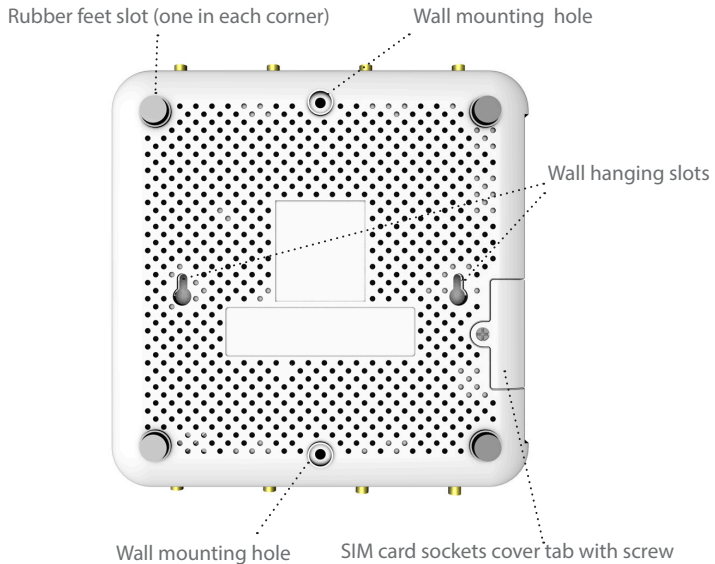
1. Use an Ethernet cable to connect one of the LAN ports in the back of the FortiExtender to the Ethernet port of your computer.
2. Set the computer Ethernet port to DHCP mode, and connect it to port1, port2, or port3.
3. Open your web browser and point to the default FortiExtender web GUI address:
<http://192.168.200.99>
4. In both the username and password fields, type **admin** and press the Enter key on your keyboard.
5. Go to Networking>Interface, where you'll see all the system interfaces.
6. Select a desired interface, set it to "static" mode, configure the static IP address, and click Save.





4 Installation

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



Install SIM card(s)

1. Unscrew the SIM card sockets cover 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 SIM card sockets cover, and fasten it onto the unit housing with the screw.





Place on top of a desk or flat surface

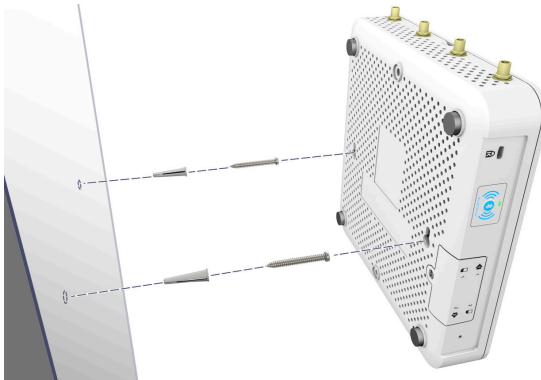
1. Attach the rubber feet to the four corners on the bottom of the unit.
2. Place the unit on the desk or flat surface.
3. Secure the unit in place with a Kensington lock.
4. Attach the antennas.





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:

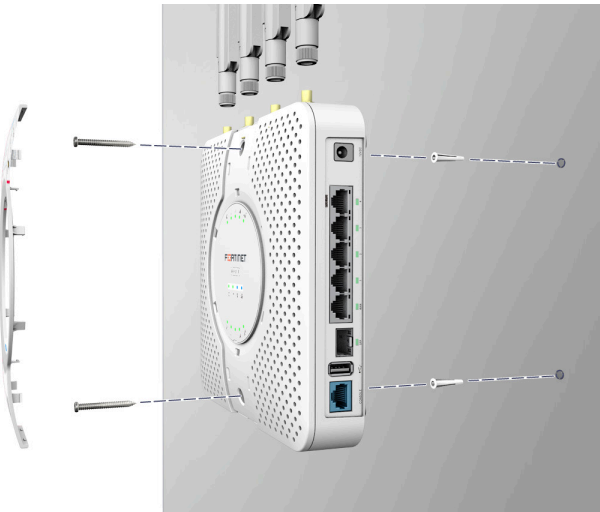
Use bear claw screws. The screw heads of bear claw screws have a built-in gap that fits well with the hanging holes. You can purchase bear claw screws from a local or online hardware store.





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 cosmetic cover over the LEDs on the front. Refer to the illustrations on the next page.





Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 40°C

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

BCaution: 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, 2 A or by 54 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 2 A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 54 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 20cm 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.

This equipment complies with ISED 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.

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 20cm de distance entre la source de rayonnement et votre corps.

This radio transmitter (IC: 7280B-111M01A / Model: FEX-311F, FEX-312F) 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-111M01A / Model: FEX-311F, FEX-312F) 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 its antenna(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 fonctionner en association avec une autre antenne ou transmetteur.





Antenna Type	Connector	Antenna Gain (dBi)	Remark
Dipole External Antenna	SMA	1559 MHz—1606 MHz: 0.92	GPS
Chip	N/A	2400 MHz—2483.5 MHz: 1.08	Bluetooth
Dipole External Antenna	SMA	617 MHz—798 MHz: 0.8 824 MHz—960 MHz: 1.91 1452 MHz—1606 MHz: 0.92 1710 MHz—2690 MHz: 2.4 3300 MHz—4200 MHz: 3.28 5150 MHz—5925 MHz: 4.8	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.



This equipment should be installed and operated with minimum distance 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.

Български

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

Česky

Tento produkt je v souladu se směrnici 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/UE.

Latviski

Šis produkts atbilst 2014/53/EU Direktīvu.



**Lietuvių**

Šis gaminytis 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	Maximum Transmit Power
Bluetooth	2402 MHz—2480 MHz	10 dBm (EIRP)
WCDMA	Band 1: 1920 MHz—1980 MHz (Uplink); 2110 MHz—2170 MHz (Downlink) Band 3: 1710 MHz—1785 MHz (Uplink); 1805 MHz—1880 MHz (Downlink) Band 8: 880 MHz—915 MHz (Uplink); 925 MHz—960 MHz (Downlink)	25.5 dBm (Conducted)
LTE	Band 1: 1920 MHz—1980 MHz (Uplink); 2110 MHz—2170 MHz (Downlink) Band 3: 1710 MHz—1785 MHz (Uplink); 1805 MHz—1880 MHz (Downlink) Band 7: 2500 MHz—2570 MHz (Uplink); 2620 MHz—2690 MHz (Downlink) Band 8: 880 MHz—915 MHz (Uplink); 925 MHz—960 MHz (Downlink) Band 20: 832 MHz—862 MHz (Uplink); 791 MHz—821 MHz (Downlink) Band 28: 703 MHz—748 MHz (Uplink); 758 MHz—803 MHz (Downlink) Band 32: 1452 MHz—1496 MHz (Downlink) Band 38: 2570 MHz—2620 MHz (Uplink); 2570 MHz—2620 MHz (Downlink) Band 40: 2300 MHz—2400 MHz (Uplink); 2300 MHz—2400 MHz (Downlink) Band 42: 3400 MHz—3600 MHz (Uplink); 3400 MHz—3600 MHz (Downlink) Band 43: 3600 MHz—3800 MHz (Uplink); 3600 MHz—3800 MHz (Downlink) Band 46: 5150 MHz—5925 MHz (Downlink)	25 dBm (Conducted)



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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 40°C

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

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, 2 A or by 54 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 2 A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 54 Vdc (PoE).

Laser Class 1 optical transceiver shall be used only
L'émetteur-récepteur optique de classe 1 laser doit être utilisé uniquement

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 **20cm** 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.

This equipment complies with ISED 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.

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 **20cm** de distance entre la source de rayonnement et votre corps.

This radio transmitter (IC: 7280B-111M01A / Model: FEX-311F, FEX-312F) 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-111M01A / Model: FEX-311F, FEX-312F) 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 its antenna(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 fonctionner en association avec une autre antenne ou transmetteur.

Antenna type	Connector	Antenna Gain (dBi)	Remark
Dipole External Antenna	SMA	1559MHz – 1606MHz: 0.92	GPS
Chip	N/A	2400MHz – 2483.5MHz: 1.08	Bluetooth
Dipole External Antenna	SMA	617MHz – 798MHz: 0.8 824MHz – 960MHz: 1.91 1452MHz – 1606MHz: 0.92 1710MHz – 2690 MHz: 2.4 3300MHz – 4200MHz: 3.28 5150MHz – 5925MHz: 4.8	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.



This equipment should be installed and operated with minimum distance **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.

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

Šis produkts atbilst Direktīvai 2014/53/ES.

Lietuvių

Šis gaminyas 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
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Bluetooth	2402–2480 MHz	10 (EIRP)
WCDMA	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 3: 1710-1785MHz(Uplink); 1805-1880MHz(Downlink) Band 8: 880-915MHz(Uplink);925-960MHz(Downlink)	25.5dBm (Conducted)
LTE	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 3: 1710-1785MHz(Uplink); 1805-1880MHz(Downlink) Band 7: 2500-2570MHz(Uplink); 2620-2690MHz(Downlink) Band 8: 880-915MHz(Uplink);925-960MHz(Downlink) Band 20: 832-862MHz(Uplink); 791-821MHz(Downlink) Band 28: 703-748MHz(Uplink); 758-803MHz(Downlink) Band 32: 1452-1496MHz(Downlink) Band 38: 2570-2620MHz(Uplink); 2570-2620MHz(Downlink) Band 40: 2300-2400MHz(Uplink); 2300-2400MHz(Downlink) Band 42: 3400-3600MHz(Uplink); 3400-3600MHz(Downlink) Band 43: 3600-3800MHz(Uplink); 3600-3800MHz(Downlink) Band 46: 5150-5925MHz(Downlink)	25dBm (Conducted)

UK Conformity Assessed (UKCA) – United Kingdom

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

Standard	Frequency Range	Max. Transmit Power
Bluetooth	2402–2480 MHz	10 (EIRP)
WCDMA	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 3: 1710-1785MHz(Uplink); 1805-1880MHz(Downlink) Band 8: 880-915MHz(Uplink);925-960MHz(Downlink)	25.5dBm (Conducted)
LTE	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 3: 1710-1785MHz(Uplink); 1805-1880MHz(Downlink) Band 7: 2500-2570MHz(Uplink); 2620-2690MHz(Downlink) Band 8: 880-915MHz(Uplink);925-960MHz(Downlink) Band 20: 832-862MHz(Uplink); 791-821MHz(Downlink) Band 28: 703-748MHz(Uplink); 758-803MHz(Downlink) Band 32: 1452-1496MHz(Downlink) Band 38: 2570-2620MHz(Uplink); 2570-2620MHz(Downlink) Band 40: 2300-2400MHz(Uplink); 2300-2400MHz(Downlink) Band 42: 3400-3600MHz(Uplink); 3400-3600MHz(Downlink) Band 43: 3600-3800MHz(Uplink); 3600-3800MHz(Downlink) Band 46: 5150-5925MHz(Downlink)	25dBm (Conducted)

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This product is in compliance with **Statutory Instrument 1206 Radio Equipment Regulations 2017**

The full Declaration of Conformity for this product is available in the link below:

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