

快速入門指南

FortiExtender 511G Series

FEX-511G, FEX-511G-WiFi

要點

保護你的網路

在 <https://support.fortinet.com> 註冊以取得最新的威脅防護更新

預設登入



<https://192.168.200.99>
 Username: **admin**
 Password: **leave blank**



<https://fortiedge.forticloud.com>
 Username: **user-defined**
 Password: **user-defined**

Fortinet 文件庫

如需入門文件管理指南、最新硬體手冊和參考資源，請造訪

<https://docs.fortinet.com/>

FortiEdge Cloud

體驗簡化的雲端配置、零接觸部署、配置管理和報告，網址為

<https://fortiedge.forticloud.com>

FortiSASE ThinEdge

在微分公司部署中，使用 FortiExtender 作為 FortiSASE LAN 擴展，為邊緣節點提供企業級安全防護。詳情請瀏覽 <https://www.fortinet.com/products/sase>

包裝內容

FortiExtender 511G Series
 FEX-511G, FEX-511G-WiFi



QuickStart Guide



FortiExtender Device
 (FEX-511G or FEX-511G-WiFi)



4x 5G/LTE Antennas



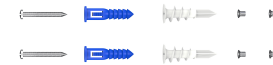
4x Rubber Feet



2x WiFi Antennas
 (WiFi model only)



2x Wall Mount Brackets

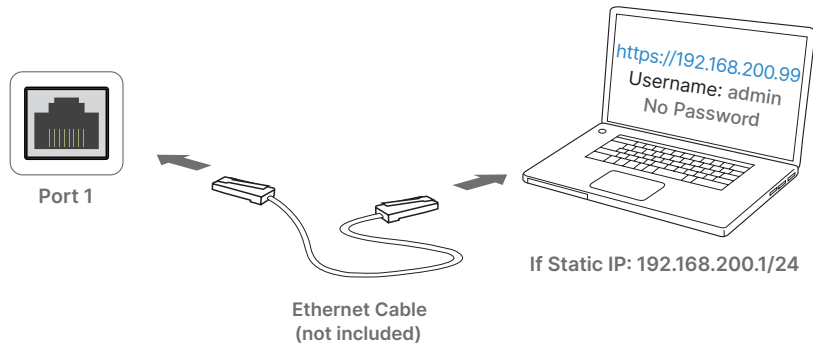


2x Wall Mount Screws
 4x Wall Mount Anchors
 4x Bracket Screws

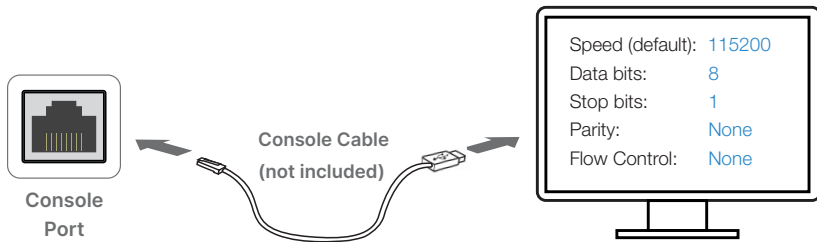
設置

可透過 PoE 供電器、FortiGate PoE 端口或 FortiSwitch PoE 端口，從Port 4 為設備供電。設備也可透過背面的直流電源插座，使用 12VDC 變壓器（需另購）供電。

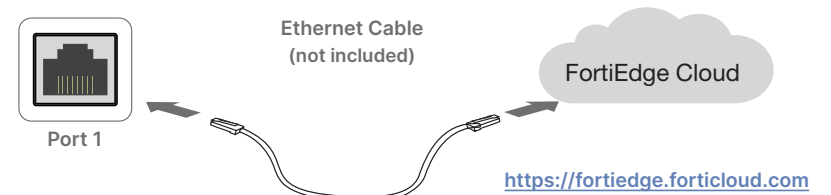
GUI



CLI



FortiEdge Cloud for FortiExtender



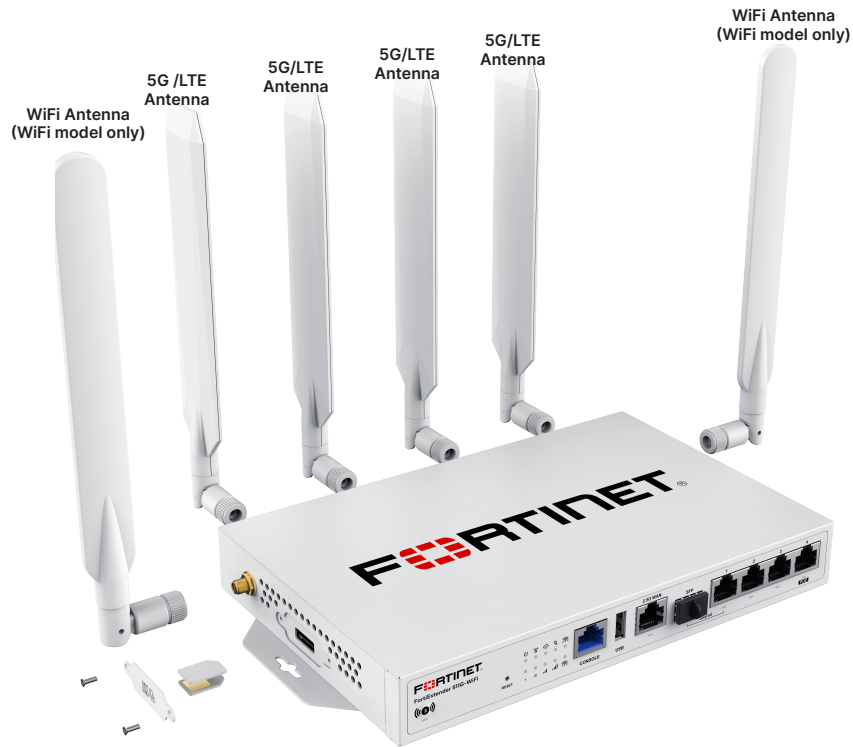
備註：註冊並登入 FortiEdge 雲端後，您的裝置將自動出現在 Inventory 中。

FortiSASE LAN Extension

若要將 FortiExtender 配置為 FortiSASE LAN 擴展，請參閱 FortiSASE Admin Guide (<https://docs.fortinet.com/product/fortisase>) 中的 Edge Device 和 Prerequisites 部分。

天線和 SIM 安裝

- 1 用手擰緊每個 5G/LTE 天線的卡箍，然後擰緊兩個 WiFi 天線（僅限 WiFi 型號）。
- 2 插入兩張 micro-SIM 卡 (3FF)。配置請參考 Admin Guide：<https://docs.fortinet.com/product/fortiextender/>



壁掛安裝

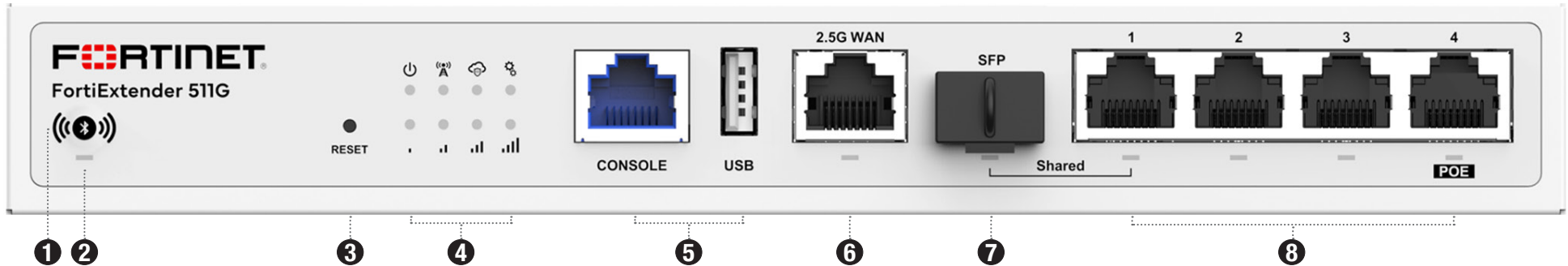
- 1 使用提供的螺絲固定支架。



- 2 標記錨固位置並鑽孔。
- 3 安裝錨栓和螺絲，然後將設備鎖定到位。



Front FEX-511G



1 BLE BUTTON

Press and hold for less than five seconds: Ignored
 Press and hold for more than five seconds: Turns on Bluetooth LED, and opens Bluetooth configuration window. (Note: the window closes if no Bluetooth configuration activity occurs within 30 seconds. Repressing the button has no effect while Bluetooth configuration is in progress or if it is completed within five minutes.)

2 BLE LED

- **Green:** Discovery mode
- **Flashing Blue:** Pairing
- **Blue:** Connected (LED will turn off after five seconds)
- **Off:** BLE is off

3 RESET

Press and hold (>10secs) until the device reboots and restores factory settings

4 Power LED

- **Green:** Device is on
- **Flashing Green:** Booting up
- **Amber:** System error
- **Off:** Device is off

FortiSASE LAN Extension

- **Blue:** Connected
- **Slow Flashing Blue:** Connecting
- **Fast Flashing Blue:** Connection Error
- **Off:** Not connected

5G/LTE Carrier

- **Blue:** 5G connected
- **Green:** LTE connected
- **Slow Flashing Green/Blue:** Connecting to carrier
- **Fast Flashing Green/Blue:** SIM or firmware error
- **Off:** 5G/LTE not connected

Management

- **Blue:** FortiGate or FortiExplorer Cloud managed
- **Flashing Blue:** Connecting to a managed device
- **Off:** Stand-alone mode

Signal Strength Blue = 5G, Green = LTE

- **Four Bars:** >75%
- **Three Bars:** 50% to 75%
- **Two Bars:** 25% to 50%
- **One Bar:** <25%

5 CONSOLE Port (RJ45) CLI management

USB 2.0 Port (USB-A) for future use

6 2.5G WAN Port (RJ45)

- **Blue:** 2.5 Gbps connection
- **Green:** 1 Gbps or 100/10Mbps connection
- **Off:** Not connected

7 SFP Port (SFP) Port 1 Shared with SFP Port

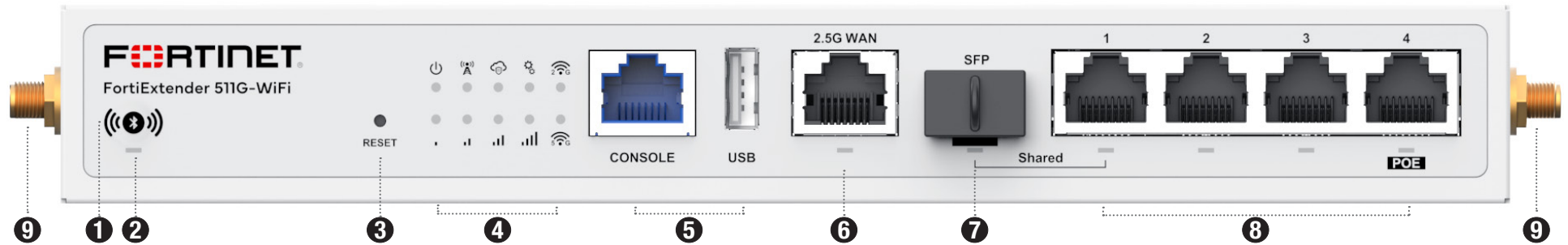
- **Green:** 1 Gbps connection
- **Flashing Green:** Data activity
- **Off:** Not connected

8 Ports 1 to 4 (RJ45) Port 1 Shared with SFP Port

- **Green:** 1 Gbps connection
- **Flashing Green:** 1 Gbps data activity
- **Amber:** 100/10 Mbps connection
- **Flashing Amber:** 100/10 Mbps connection
- **Off:** Not connected

POE Port 4 PoE PD 802.3at (25.5W)

Front FEX-511G-WiFi



1 BLE BUTTON

Press and hold for less than five seconds: Ignored
 Press and hold for more than five seconds: Turns on Bluetooth LED, and opens Bluetooth configuration window. (Note: the window closes if no Bluetooth configuration activity occurs within 30 seconds. Repressing the button has no effect while Bluetooth configuration is in progress or if it is completed within five minutes.)

2 BLE

- Green: Discovery mode
- Flashing Blue: Pairing
- Blue: Connected (LED will turn off after five seconds)
- Off: BLE is off

3 RESET Press and hold (>10secs) until the device reboots and restores factory settings

4 Power LED

- Green: Device is on
- Flashing Green: Booting up
- Amber: System error
- Off: Device is off

FortiSASE LAN Extension

- Blue: Connected
- Slow Flashing Blue: Connecting
- Fast Flashing Blue: Connection Error
- Off: Not connected

Signal Strength

- Blue = 5G, Green = LTE
- ▬▬▬▬ Four Bars: >75%
- ▬▬▬ Three Bars: 50% to 75%
- ▬▬ Two Bars: 25% to 50%
- ▬ One Bar: <25%

5G/LTE Carrier

- Blue: 5G connected
- Green: LTE connected
- Slow Flashing Green/Blue: Connecting to carrier
- Fast Flashing Green/Blue: SIM or firmware error
- Off: 5G/LTE not connected

Management

- Blue: FortiGate or FortiExplorer Cloud managed
- Flashing Blue: Connecting to a managed device
- Off: Stand-alone mode

2.4G WiFi

- Blue: WiFi WAN connected
- Green: WiFi LAN connected
- Off: WiFi not connected

5G WiFi

- Blue: WiFi WAN connected
- Green: WiFi LAN connected
- Off: WiFi not connected

5 CONSOLE Port (RJ45) CLI management

USB 2.0 Port (USB-A) for future use

6 2.5G WAN Port (RJ45)

- Blue: 2.5 Gbps connection
- Green: 1 Gbps or 100/10Mbps connection
- Off: Not connected

7 SFP Port (SFP) Port 1 Shared with SFP Port

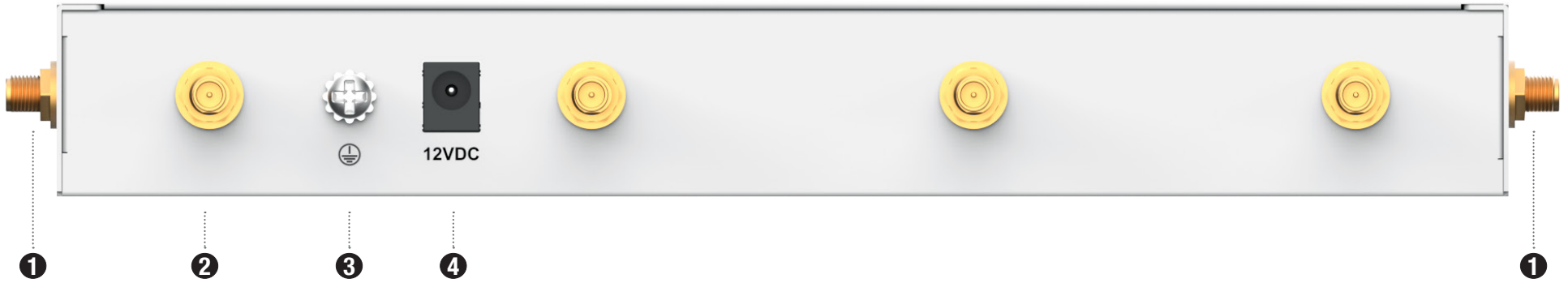
- Green: 1 Gbps connection
- Flashing Green: Data activity
- Off: Not connected

8 Ports 1 to 4 (RJ45) Port 1 Shared with SFP Port

- Green: 1 Gbps connection
- Flashing Green: 1 Gbps data activity
- Amber: 100/10 Mbps connection
- Flashing Amber: 100/10 Mbps connection
- Off: Not connected
- POE** Port 4 PoE PD 802.3at (25.5W)

9 WiFi Antenna Connectors x2 (RP-SMA)

Rear FEX-511G Series



- ❶ WiFi Antenna Connectors x2 (RP-SMA) WiFi model only
- ❷ 5G/LTE Antenna Connectors x4 (SMA)
- ❸ Grounding Connection (Optional)
- ❹ Power Input (Optional) 12VDC/2A adapter

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 IEC TR 62102. 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 IEC TR 62102. 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, minimum 2A or by 54Vdc from PoE source.

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

Grounding — To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.

Mise à la terre — Pour éviter d'endommager votre matériel, assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurtenseur et sont correctement mis à la terre. Utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise.

This product has a separate protective earthing terminal provided on the back of the product in addition to the grounding terminal of the attachment plug. This separate protective earthing terminal must be permanently connected to earth with a green with yellow stripe conductor minimum size # 22AWG and the connection is to be installed by a qualified service personnel.

Ce produit a une borne de mise à la terre séparée située à l'arrière de l'appareil, en plus de la borne de mise à la terre de la fiche de raccordement. Cette borne de mise à la terre séparée doit être connectée en permanence à la terre avec un conducteur vert avec la taille bande jaune de minimum # 22 AWG et la connexion doit être installée par un personnel qualifié.

Regulatory Notices

Federal Communication Commission (FCC) – USA

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.

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.

FEX-511G

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.

FEX-511G-WIFI

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 21 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Innovation, Science and Economic Development (ISED) – 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.

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

Pour les produits disponibles sur le marché des États-Unis/Canada, seuls les canaux 1 à 11 peuvent être utilisés. La sélection d'autres canaux n'est pas possible.

FEX-511G

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 and 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.

FEX-511G-WIFI

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 28 cm between the radiator and 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 28 cm de distance entre la source de rayonnement et votre corps.

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.

Le gain maximal d'antenne permis (pour les appareils utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and

Le gain maximal d'antenne permis pour les appareils utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limite de p.i.r.e.;

The worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.

Les angles d'inclinaison maximaux nécessaires pour rester conformes à l'exigence du masque d'élévation de la p.i.r.e. énoncée à la section 6.2.2(3) doivent être clairement indiqués.

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

Attention: L'appareil destiné à la bande 5150-5250 MHz est uniquement conçu pour un usage intérieur afin de réduire les risques d'interférences nuisibles avec les systèmes satellites mobiles utilisant la même fréquence.

Caution: The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

Attention: Le gain maximal d'antenne permis pour les appareils utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.i.r.e.; le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

This radio transmitter (**IC: 7280B-240702, model: FEX-511G**) 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.

Ce transmetteur radio (**IC: 7280B-240702, modèle: FEX-511G**) a été approuvé par ISED pour fonctionner avec les types d'antennes énumérés ci-dessous, chacun avec le gain maximal admissible et l'impédance d'antenne requise spécifiés pour chaque type. Les types d'antennes ne figurant pas dans cette liste, ou ayant un gain supérieur au gain maximal indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil.

This radio transmitter (**IC: 7280B-240703, model: FEX-511G-WIFI**) 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.

Ce transmetteur radio (**IC: 7280B-240703, modèle: FEX-511G-WIFI**) a été approuvé par ISED pour fonctionner avec les types d'antennes énumérés ci-dessous, chacun avec le gain maximal admissible et l'impédance d'antenne requise spécifiés pour chaque type. Les types d'antennes ne figurant pas dans cette liste, ou ayant un gain supérieur au gain maximal indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil.

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.

Conformément à la réglementation d'ISED, cet émetteur radio peut fonctionner seulement avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par ISED. Dans le but de réduire les risques de brouillage radioélectrique aux 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 réussie.

This device and its 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 (ses) antenne(s) ne doivent pas être installés ou utilisés conjointement avec une autre antenne ou un autre émetteur, sauf conformément aux procédures de produit multi-émetteurs de l'IC.

Antenna No.	Manufacturer	Model	Antenna Type	Connector	Antenna Peak Gain (dBi)	
					2.4 GHz	5GHz
1*	INPAQ TECHNOLOGY CO., LTD	RFDPA222200SBLB801	Dipole	RP-SMA	3.31dBi (WLAN)	4.84dBi (WLAN)
2*	INPAQ TECHNOLOGY CO., LTD	RFDPA222200SBLB801	Dipole	RP-SMA	3.31dBi (WLAN)	4.84dBi (WLAN)
3	RFLINK	U00T02S000N05272	PCB	IPEX	3.57 dBi (BLE)	

Note: * Only for model FEX-511G-WIFI

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.



FEX-511G and FEX-511G-WIFI:

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

Simplified EU Declaration of Conformity

Hereby, Fortinet, declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://site.fortinet.com/ProductRegulatory/EU>.

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 Direktīvai 2014/53/EU.

Lietuvių
Šis gaminyš 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.

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	

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:

Radio	Frequency Range (MHz)	Transmit Power
Bluetooth	2402-2480MHz	Less than 10 dBm (EIRP)
WLAN**	2412-2472MHz	Less than 20 dBm (EIRP)
	5180-5240MHz	Less than 23 dBm (EIRP)
	5260-5320MHz	Less than 23 dBm (EIRP)*
	5500-5700MHz	Less than 30 dBm (EIRP)*
	5745-5825MHz	Less than 14 dBm (EIRP)
WCDMA	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 8: 880-915MHz(Uplink);925-960MHz(Downlink)	23.5 dBm (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: 1452-1496 MHz (Downlink) Band 34: 2010-2025MHz Band 38: 2570-2620MHz Band 40: 2300-2400MHz	23 dBm (Conducted)
	Band 41: 2496-2690MHz Band 42: 3400-3600MHz Band 43: 3600-3800MHz	25 dBm (Conducted)
5G NR	n1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) n3: 1710-1785MHz(Uplink); 1805-1880MHz(Downlink) n7: 2500-2570MHz(Uplink); 2620-2690MHz(Downlink) n8: 880-915MHz(Uplink);925-960MHz(Downlink) n20: 832-862MHz(Uplink); 791-821MHz(Downlink) n28: 703-748MHz(Uplink); 758-803MHz(Downlink) n38: 2570-2620MHz n40: 2300-2400MHz	24 dBm (Conducted)
	n41: 2496-2690MHz n77: 3300-4200MHz n78: 3300-3800MHz	26 dBm (Conducted)

Note: *Only with DFS bands certification. **Only for model FEX-511G-WIFI.

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 (MHz)	Transmit Power
Bluetooth	2402-2480MHz	Less than 10 dBm (EIRP)
WLAN**	2412-2472MHz	Less than 20 dBm (EIRP)
	5180-5240MHz	Less than 23 dBm (EIRP)
	5260-5320MHz	Less than 23 dBm (EIRP)**
	5500-5700MHz	Less than 30 dBm (EIRP)**
	5745-5825MHz	Less than 14 dBm (EIRP)
WCDMA	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 8: 880-915MHz(Uplink);925-960MHz(Downlink)	23.5 dBm (Conducted)
	LTE	23 dBm (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: 1452-1496 MHz (Downlink) Band 34: 2010-2025MHz Band 38: 2570-2620MHz Band 40: 2300-2400MHz	23 dBm (Conducted)
	Band 41: 2496-2690MHz Band 42: 3400-3600MHz Band 43: 3600-3800MHz	25 dBm (Conducted)
5G NR	n1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) n3: 1710-1785MHz(Uplink); 1805-1880MHz(Downlink) n7: 2500-2570MHz(Uplink); 2620-2690MHz(Downlink) n8: 880-915MHz(Uplink);925-960MHz(Downlink) n20: 832-862MHz(Uplink); 791-821MHz(Downlink) n28: 703-748MHz(Uplink); 758-803MHz(Downlink) n38: 2570-2620MHz n40: 2300-2400MHz	24 dBm (Conducted)
	n41: 2496-2690MHz n77: 3300-4200MHz n78: 3300-3800MHz	26 dBm (Conducted)

Note: **Only with DFS bands certification. **Only for model FEX-511G-WiFi.

FEX-511G and FEX-511G-WiFi

This equipment should be installed and operated with minimum distance 20 cm between the radiator and 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>

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



National Telecommunications Commission (NCC) – Taiwan

NCC警語

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

使用此產品時應避免影響附近雷達系統之操作。

減少電磁波影響，請妥適使用

FEX-511G:

電磁波曝露量MPE標準值1mW/cm2，送測產品實測值為：0.279081 mW/cm2，建議使用時至少距 人體 20 cm

FEX-511G-WiFi:

電磁波曝露量MPE標準值1mW/cm2，送測產品實測值為：0.7362 mW/cm2，建議使用時至少距 人體 20 cm

限用物質含有情況表 (RoHS Table) 請到以下 網址下載:

<https://www.fortinet.com/bsmi>

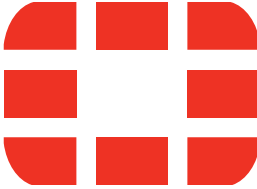
英屬蓋曼群島商防特網股份有限公司台灣分公司

地址：台北市內湖區行愛路176號2樓

電話：(02) 27961666

Agência Nacional de Telecomunicações (ANATEL) – Brazil

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FEX-511G-Series-QSG-20260206