

QuickStart Guide

FortiWiFi 80F Series

Before you begin

Register your device to access FortiGuard updates, cloud management, firmware upgrades, technical support and warranty coverage.

<https://support.fortinet.com>



This document is prepared in English and French. In case of conflict between them, the English version shall prevail over the French version.

This guide covers: FWF-80F-2R, FWF-81F-2R, FWF-81F-2R-POE, FWF-80F-2R-3G4G-DSL, FWF-81F-2R-3G4G-DSL, and FWF-81F-2R-3G4G-POE

August 16, 2024

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The Essentials

Default Logins



https://192.168.1.99
 Username: **admin**
 Password: **leave blank**



SSID: **fortinet**
 Password: **fortinet**

Fortinet Documents Library

For a detailed Administration Guide, up-to-date Hardware documentation and Reference Manuals, visit <https://docs.fortinet.com/>

Customer Service

For contracts, licensing, product registration and account management, contact FortiCare Support at <https://www.fortinet.com/support/contact>

Technical Support

To access our Resource Center, Professional Services and Technical Support Services, visit <https://www.fortinet.com/support>

Thank you for choosing Fortinet

Package Contents

FortiWiFi 80F-2R Series

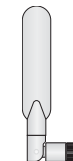
FWF-80F-2R*, FWF-81F-2R*, FWF-81F-2R-POE*, FWF-80F-2R-3G4G-DSL**,
 FWF-81F-2R-3G4G-DSL**, FWF-81F-2R-3G4G-POE**



QuickStart Guide



FortiWiFi Device



3x Antennas*
 6x Antennas**



1x DC Power Adapter



1x Power Cable



1x Ethernet Cable



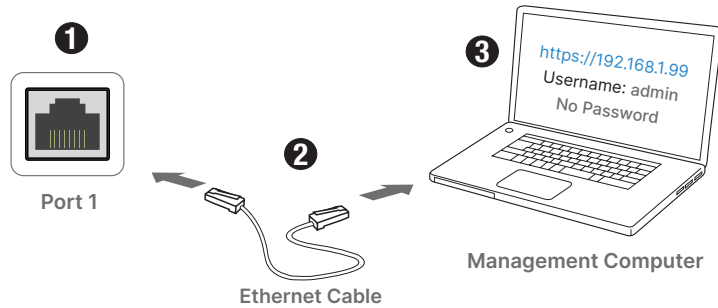
1x RJ-11 Cable
 (DSL models only)

Note: FortiWiFi models use the same antennas for WiFi and DSL/3G4G

Setup Options

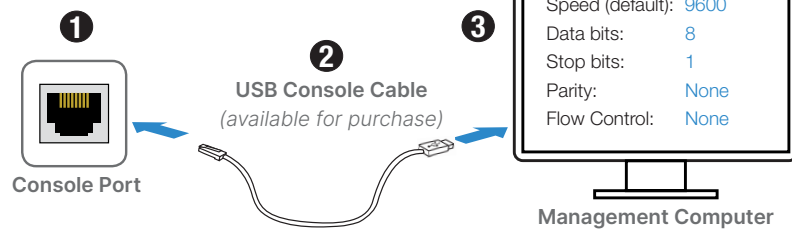
Set up your Fortinet device locally or connect using forticloud.com

GUI



Note: For static IP configuration, use 192.168.1.1 with subnet mask 255.255.255.0

CLI

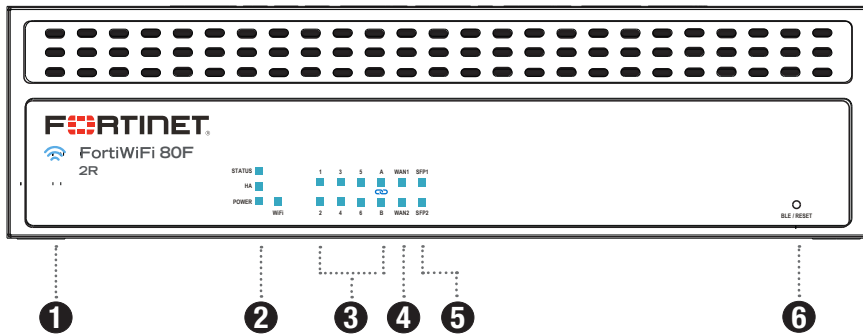


Note: For a detailed CLI guide, visit docs.fortinet.com

FortiGate Cloud Key (Connect a WAN port to the Internet)

- 1 Go to forticloud.com and login with your **FortiCloud Credentials** or **Register**
- 2 Follow the on-screen instructions, then click **Add FortiGate**
- 3 Enter the **FortiGate Cloud Key** located on the sticker of your device

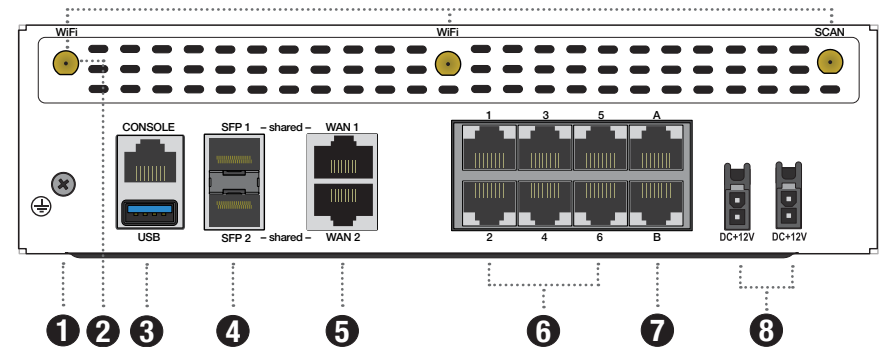
Front - FWF 80F-2R Series



- 1 LOGO**
 - FortiWiFi
 - Blue: The device is on
 - Off: The device is off
- 2 STATUS**
 - Green: Operating normally; BLE is off
 - Flashing Green: Booting up
 - Flashing Amber: BLE is on
- HA**
 - Green: Operating in an HA cluster
 - Amber: HA failover
 - Off: Not in an HA cluster
- POWER**
 - Green: Both power supplies are functioning
 - Amber: One power supply is functioning
 - Off: Power is off
- WIFI**
 - Green: WiFi is on
 - Flashing Green: WiFi activity
 - Off: WiFi is off
- 3 PORT LINK/ACT**
 - Flashing Green: 1000M/100M/10M data activity
 - Off: No link established
- 4 WAN**
 - Flashing Green: 1000M/100M/10M data activity
 - Off: No link established

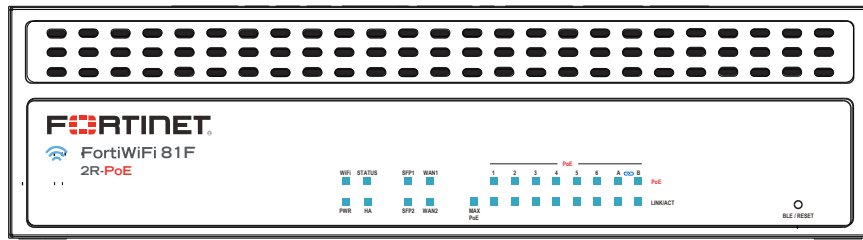
(WAN & SFP are Shared Ports)
- 5 SFP**
 - Flashing Green: 1000M/100M/10M data activity
 - Off: No link established
- 6 BLE/RESET** Activates BLE management or restores to factory default

Rear - FWF 80F-2R Series



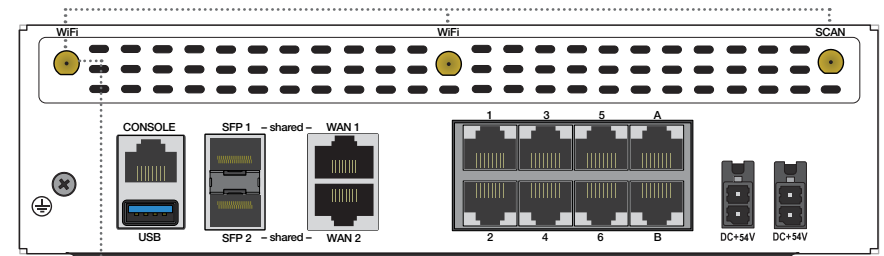
- 1 Grounding Screw** additional protective earth connection, reserved for applications where a permanent local connection of protective earth is required
- 2 Antenna Connection (SMA)** passive directional antenna connection
- 3 Console (RJ-45)** CLI management computer interface
- USB (USB A)** USB 3.0 server port
- 4 SFP Shared Ports 1 & 2 (SFP)** 1 Gbps SFP interface
- 5 WAN Shared Ports 1 & 2 (RJ45)** 1 Gbps Ethernet interface
- 6 Ports 1 to 6 (RJ-45)** 1 Gbps Ethernet interface
- 7 FortiLink Ports A & B (RJ-45)** 1 Gbps Ethernet interface
- 8 Power Input** 12V DC 5A, 100-240V AC 50/60Hz
(optional redundant power adapter and cable available for purchase)

Front - FWF 81F-2R-POE



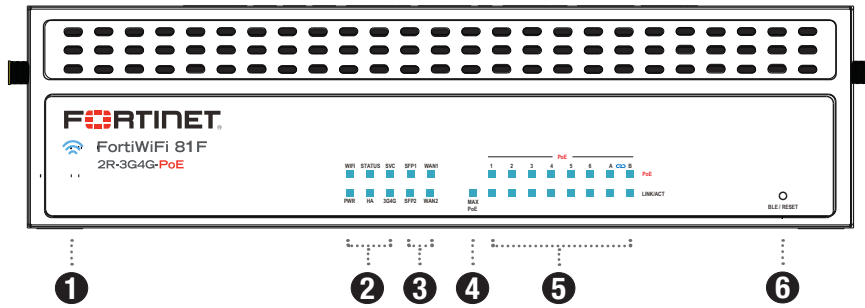
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 - Off: The device is off
- 2 WIFI**
 - Green: WiFi is on
 - Flashing Green: WiFi activity
 - Off: WiFi is off
- STATUS**
 - Green: Operating normally; BLE is off
 - Flashing Green: Booting up
 - Flashing Amber: BLE is on
- PWR**
 - Green: Both power supplies are functioning
 - Amber: One power supply is functioning
 - Off: Power is off
- HA**
 - Green: Operating in an HA cluster
 - Amber: HA failover
 - Off: Not in an HA cluster
- 3 SFP/WAN**
(WAN & SFP are Shared Ports)
 - Flashing Green: 1000M/100M/10M data activity
 - Off: No link established
- 4 MAX PoE**
 - Red: Providing Max PoE Power, 96W
 - Off: PoE power available
- 5 Ports**
PoE
 - Green: PoE power on
 - Off: PoE power off
- LINK/ACT**
 - Flashing Green: 1000M/100M/10M data activity
 - Off: No link established
- 6 BLE/RESET** Activates BLE management or restores to factory default

Rear- FWF 81F-2R-POE



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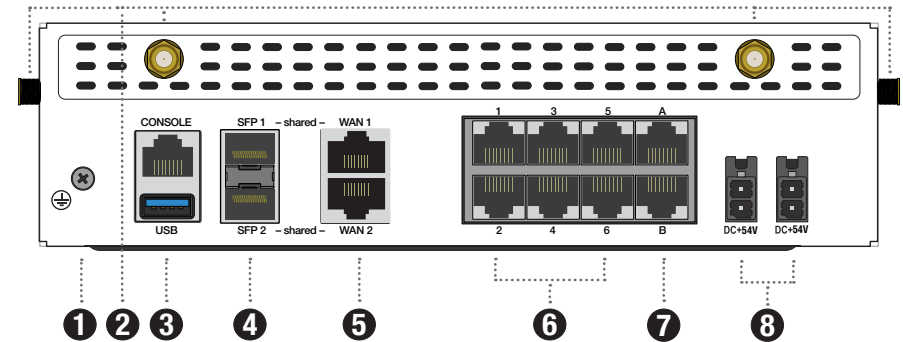
Front - FWF 81F-2R-3G4G-POE



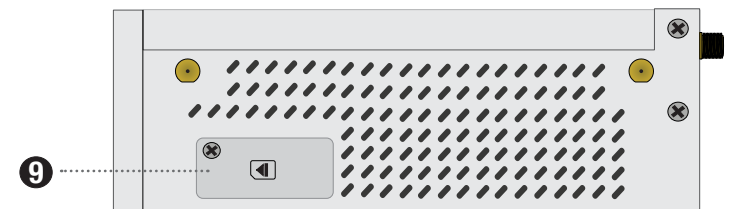
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 - Off: WiFi is off
- STATUS**
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 - Flashing Green: Booting up
 - Flashing Amber: BLE is on
- PWR**
 - Green: Both power supplies are functioning
 - Amber: One power supply is functioning
 - Off: Power is off
- HA**
 - Green: Operating in an HA cluster
 - Amber: HA failover
 - Off: Not in an HA cluster
- SVC**
 - Green: SVC is on
 - Flashing Green: SVC activity
 - Off: SVC is off
- 3G4G**
 - Green: 3G4G is on
 - Flashing Green: 3G4G activity
 - Off: 3G4G is off
- 3 SFP/WAN**
 - Flashing Green: 1000M/100M/10M data activity
 - Off: No link established

(WAN & SFP are Shared Ports)
- 4 MAX PoE**
 - Red: Providing Max PoE Power, 96W
 - Off: PoE power available
- 5 Ports**
 - Green: PoE power on
 - Off: PoE power off
- LINK/ACT**
 - Flashing Green: 1000M/100M/10M data activity
 - Off: No link established
- 6 BLE/RESET** Activates BLE management or restores to factory default

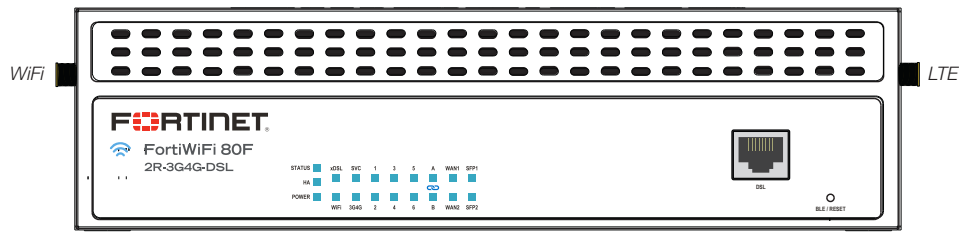
Rear - FWF 81F-2R-3G4G-POE



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- 9 Sim Slot** Nano Sim



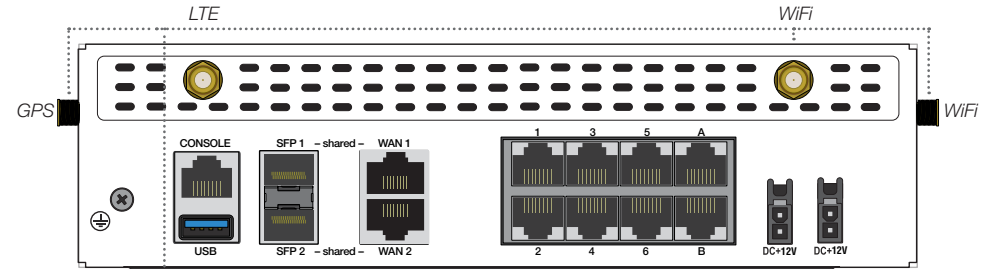
Front FWF 80F-2R-3G4G-DSL



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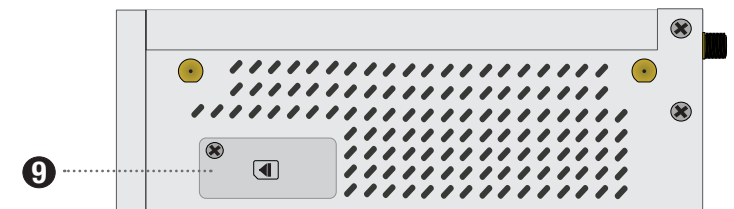
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- 2 STATUS**
 ■ Green: Operating normally; BLE is off
 ✦ Flashing Green: Booting up
 ✦ Flashing Amber: BLE is on
- POWER**
 ■ Green: Both power supplies are functioning
 ■ Amber: One power supply is functioning
 ■ Off: Power is off
- HA**
 ■ Green: Operating in an HA cluster
 ■ Amber: HA failover
 ■ Off: Not in an HA cluster
- 3 xDSL**
 ✦ Flashing Green: DSL data activity
 ■ Off: No DSL link established
- WIFI**
 ■ Green: WiFi is on
 ✦ Flashing Green: WiFi activity
 ■ Off: WiFi is off
- 3G4G**
 ■ Green: 3G4G is on
 ✦ Flashing Green: 3G4G activity
 ■ Off: 3G4G is off
- SVC**
 ■ Green: SVC is on
 ✦ Flashing Green: SVC activity
 ■ Off: SVC is off
- 4 SFP/WAN** ✦ Flashing Green: 1000M/100M/10M data activity
 (WAN & SFP are Shared Ports) ■ Off: No link established
- 5 DSL Port** Connects to the internet
- 6 BLE/RESET** Activates BLE management or restores to factory default

Rear - FWF 80F-2R-3G4G-DSL



① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- 1 Grounding Screw** additional protective earth connection, reserved for applications where a permanent local connection of protective earth is required
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Guide de démarrage rapide

Série FortiWiFi 80F

Avant de commencer

Enregistrez votre appareil pour avoir accès aux mises à jour, à la gestion infonuagique, aux mises à niveau de micrologiciel, au soutien technique et à la garantie de FortiGuard.

<https://support.fortinet.com>



Ce document est préparé en versions anglaise et française. En cas de conflit entre eux, la version anglaise prévaudra sur la version française.

Dans ce guide: FWF-80F-2R, FWF-81F-2R, FWF-81F-2R-POE, FWF-80F-2R-3G4G-DSL, FWF-81F-2R-3G4G-DSL et FWF-81F-2R-3G4G-POE

August 16, 2024

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Renseignements de base

Identifiants par défaut



https://192.168.1.99
Username: **admin**
Password: **(sans mot de passe)**



SSID: **fortinet**
Password/MdP: **fortinet**

Guide de gestion

Pour obtenir un guide de démarrage détaillé et des renseignements de configuration, consultez le guide de gestion sur <https://docs.fortinet.com/>

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Merci d'avoir choisi Fortinet

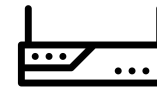
Contenu de l'emballage

Série FortiWiFi 80F

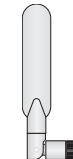
FWF-80F-2R*, FWF-81F-2R*, FWF-81F-2R-POE*, FWF-80F-2R-3G4G-DSL**, FWF-81F-2R-3G4G-DSL**, FWF-81F-2R-3G4G-POE**



QuickStart Guide



Appareil FortiWiFi



3 antennes*
6 antennes**



1 adaptateur
d'alimentation CC



1 câble d'alimentation



1 câble Ethernet



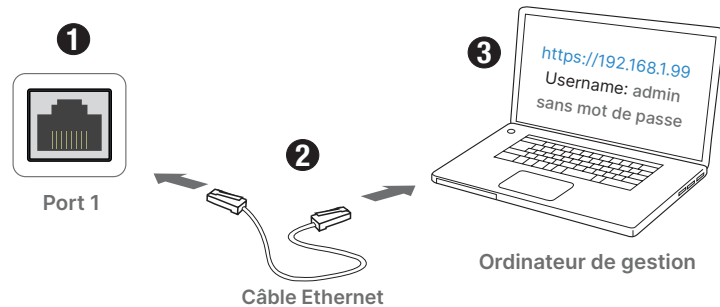
1 câble RJ-11
modèles DSL
seulement)

N.B.: Les modèles FortiWiFi utilisent les mêmes antennes pour les signaux Wi-Fi et DSL/3G/4G

Autres options de configuration

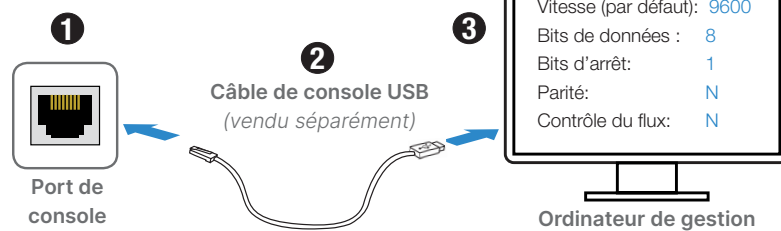
Configurez l'appareil Fortinet localement ou connectez-le avec forticloud.com

GUI



N.B.: Pour la configuration avec adresse IP fixe, utilisez l'adresse 192.168.1.1 et le masque de sous-réseau 255.255.255.0.

CLI

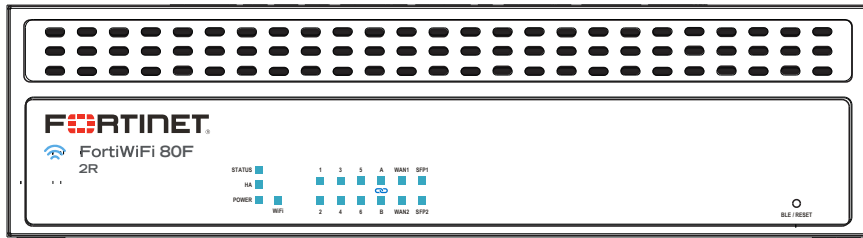


N.B.: Pour obtenir un guide détaillé pour l'interface de ligne de commande, rendez-vous sur docs.fortinet.com

Clé infonuagique FortiGate (Connexion à Internet avec un port WAN)

- 1 Rendez-vous sur forticloud.com et connectez-vous avec vos **identifiants FortiCloud** ou inscrivez-vous
- 2 Suivez les instructions à l'écran, puis cliquez sur **Add FortiGate**
- 3 Entrez la **clé infonuagique FortiGate** inscrite sur l'étiquette de l'appareil

Avant – Série FWF 80F-2R

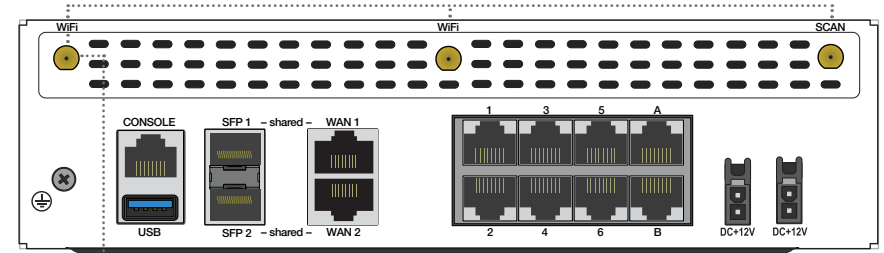


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- 4
- 5
- 6

- 1 LOGO**
 - FortiWiFi
 - Blue: L'appareil est allumé
 - Éteint: L'appareil est éteint
- 2 STATUS**
 - Vert: Fonctionnement normal, BLE désactivé
 - Vert clignotant: Démarrage
 - Orange clignotant: BLE activé
- HA**
 - Vert: Fonctionnement en grappe à haute disponibilité
 - Orange: Basculement vers la haute disponibilité
 - Éteint: Pas de grappe à haute disponibilité
- POWER**
 - Vert: Deux sources d'alimentation fonctionnelles
 - Orange: Une source d'alimentation fonctionnelle
 - Éteint: Aucune alimentation
- WIFI**
 - Vert: Wi-Fi connecté
 - Vert clignotant: Activité Wi-Fi
 - Éteint: Wi-Fi déconnecté
- 3 PORT LINK/ACT**
 - Vert clignotant: Activité de données 1000M/100M/10M
 - Éteint: Aucun lien établi
- 4 WAN**
 - Vert clignotant: Activité de données 1000M/100M/10M
 - Éteint: Aucun lien établi

(Les ports WAN et SFP sont partagés)
- 5 SFP**
 - Vert clignotant: Activité de données 1000M/100M/10M
 - Éteint: Aucun lien établi
- 6 BLE/RESET** Activation de la gestion BLE ou restauration des réglages par défaut

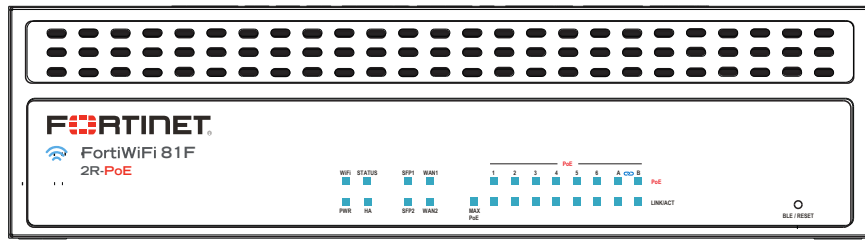
Arrière – Série FWF 80F-2R



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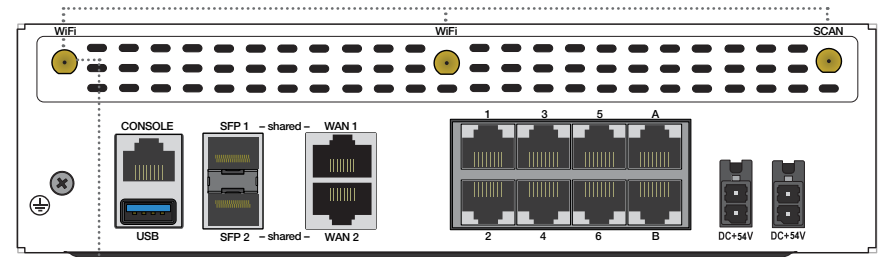
- 1 Vis de mise à la terre** : Protection supplémentaire, réservée pour les applications où une connexion locale permanente de mise à la terre est requise
- 2 Connexion d'antenne (SMA)** Connexion d'antenne passive directionnelle
- 3 Console (RJ45)** Ordinateur de gestion de l'interface de ligne de commande
USB (USB A) Port de serveur USB 3.0
- 4 Ports SFP partagés 1 et 2 (SFP)** Interface SFP 1 Gb/s
- 5 Ports WAN partagés 1 et 2 (RJ45)** Interface Ethernet 1 Gb/s
- 6 Ports 1 à 6 (RJ45)** Interface Ethernet 1 Gb/s
- 7 FortiLink Ports A & B (RJ45)** Interface Ethernet 1 Gb/s
- 8 Alimentation** 12V CC 5A, 100-240V CA 50/60Hz
(Adaptateur d'alimentation redondante et câble optionnels vendus séparément)

Avant – FWF 81F-2R-POE



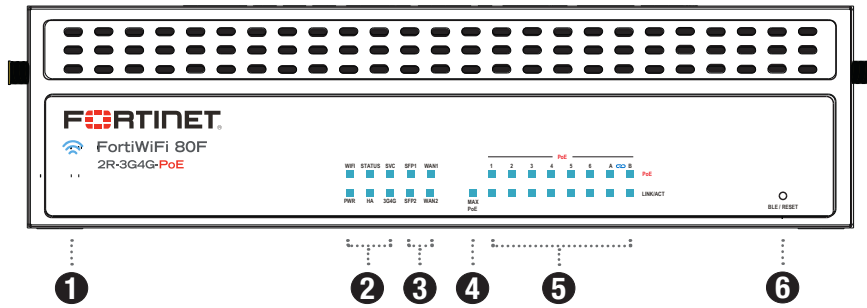
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 - **Orange:** Basculement vers la haute disponibilité
 - **Éteint:** Pas de grappe à haute disponibilité
 - 3 SFP/WAN**
 - ✦ **Vert clignotant:** Activité de données 1000M/100M/10M
(Les ports WAN et SFP sont partagés)
 - **Éteint:** Aucun lien établi
 - 4 MAX PoE**
 - **Rouge:** Alimentation par Ethernet maximale (96 W)
 - **Éteint:** Alimentation par Ethernet disponible
 - 5 Ports PoE**
 - **Vert:** Alimentation par Ethernet activée
 - **Éteint:** Alimentation par Ethernet désactivée
 - LINK/ACT**
 - ✦ **Vert clignotant:** Activité de données 1000M/100M/10M
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Arrière – FWF 81F-2R-POE



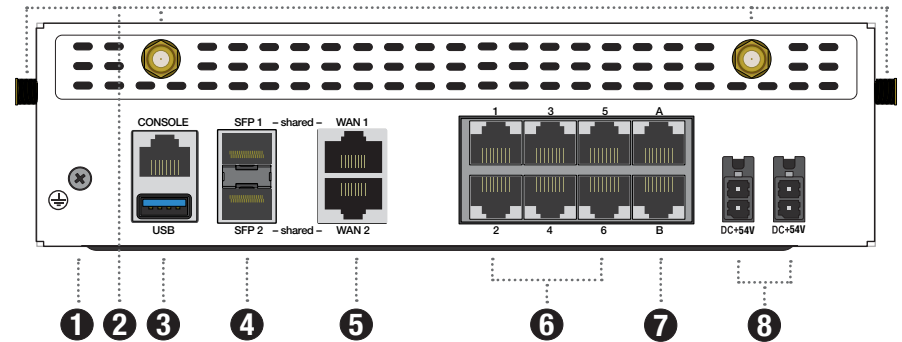
- 1 Vis de mise à la terre :** Protection supplémentaire, réservée pour les applications où une connexion locale permanente de mise à la terre est requise
- 2 Connexion d'antenne (SMA)** Connexion d'antenne passive directionnelle
- 3 Console (RJ45)** Ordinateur de gestion de l'interface de ligne de commande
USB (USB A) Port de serveur USB 3.0
- 4 Ports SFP partagés 1 et 2 (SFP)** Interface SFP 1 Gb/s
- 5 Ports WAN partagés 1 et 2 (RJ45)** Interface Ethernet 1 Gb/s
- 6 Ports 1 à 6 (RJ45)** Interface Ethernet 1 Gb/s
- 7 FortiLink Ports A & B (RJ45)** Interface Ethernet 1 Gb/s
- 8 Alimentation 54V CC 2.78A, 100-240V CA 50/60Hz**
(Adaptateur d'alimentation redondante et câble optionnels vendus séparément)

Avant – FWF 81F-2R-3G4G-POE

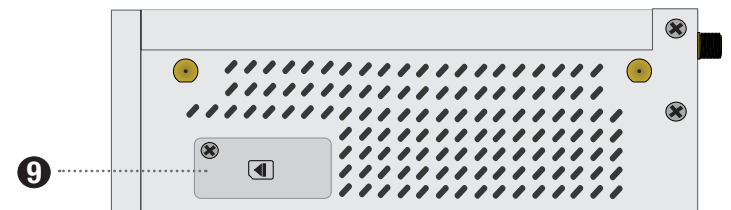


- 1 LOGO**
 - FortiWiFi
 - **Blue:** L'appareil est allumé
 - **Éteint:** L'appareil est éteint
- 2 WIFI**
 - **Vert:** Wi-Fi connecté
 - ✦ **Vert clignotant:** Activité Wi-Fi
 - **Éteint:** Wi-Fi déconnecté
- STATUS**
 - **Vert:** Fonctionnement normal, BLE désactivé
 - ✦ **Vert clignotant:** Démarrage
 - ✦ **Orange clignotant:** BLE activé
- PWR**
 - **Vert:** Deux sources d'alimentation fonctionnelles
 - **Orange:** Une source d'alimentation fonctionnelle
 - **Éteint:** Aucune alimentation
- HA**
 - **Vert:** Fonctionnement en grappe à haute disponibilité
 - **Orange:** Basculement vers la haute disponibilité
 - **Éteint:** Pas de grappe à haute disponibilité
- SVC**
 - **Vert:** CVC activé
 - ✦ **Vert clignotant:** Activité CVC
 - **Éteint:** CVC désactivé
 - 3G4G** ■ **Vert:** 3G/4G activé
 - ✦ **Vert clignotant:** Activité 3G/4G
 - **Éteint:** 3G/4G désactivé
- 3 SFP/WAN** ✦ **Vert clignotant:** Activité de données 1000M/100M/10M
(Les ports WAN et SFP sont partagés)
 - **Éteint:** Aucun lien établi
- 4 MAX PoE**
 - **Rouge:** Alimentation par Ethernet maximale (96 W)
 - **Éteint:** Alimentation par Ethernet disponible
- 5 Ports PoE**
 - **Vert:** Alimentation par Ethernet activée
 - **Éteint:** Alimentation par Ethernet désactivée
- LINK/ACT**
 - ✦ **Vert clignotant:** Activité de données 1000M/100M/10M
 - **Éteint:** Aucun lien établi
- 6 BLE/RESET** Activation de la gestion BLE ou restauration des réglages par défaut

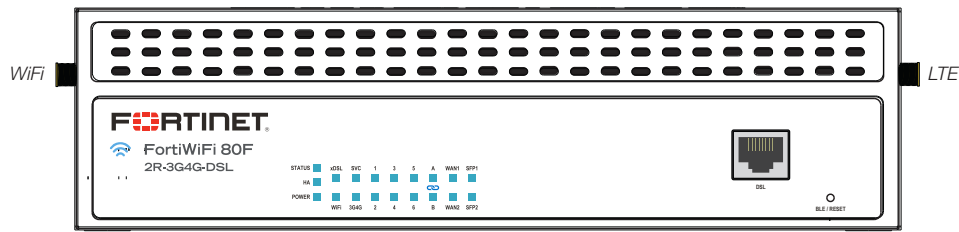
Arrière – FWF 81F-2R-3G4G-POE



- 1 Vis de mise à la terre :** Protection supplémentaire, réservée pour les applications où une connexion locale permanente de mise à la terre est requise
- 2 Connexion d'antenne (SMA)** Connexion d'antenne passive directionnelle
- 3 Console (RJ45)** Ordinateur de gestion de l'interface de ligne de commande
USB (USB A) Port de serveur USB 3.0
- 4 Ports SFP partagés 1 et 2 (SFP)** Interface SFP 1 Gb/s
- 5 Ports WAN partagés 1 et 2 (RJ45)** Interface Ethernet 1 Gb/s
- 6 Ports 1 à 6 (RJ45)** Interface Ethernet 1 Gb/s
- 7 FortiLink Ports A & B (RJ45)** Interface Ethernet 1 Gb/s
- 8 Alimentation 54V CC 2.78A, 100-240V CA 50/60Hz**
(Adaptateur d'alimentation redondante et câble optionnels vendus séparément)
- 9 Fente de carte Nano SIM**



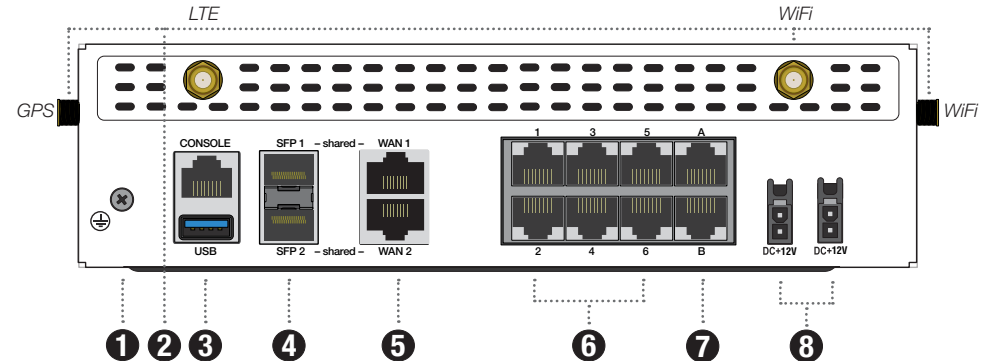
Avant – FWF 80F-2R-3G4G-DSL



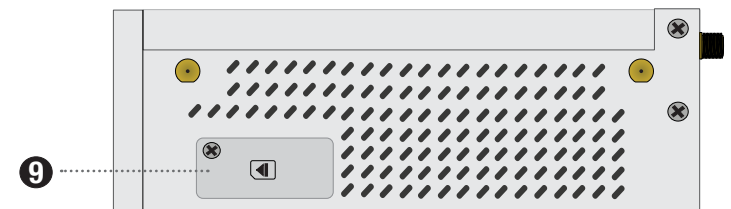
- 1** **LOGO**
 - FortiWiFi
 - Blue:** L'appareil est allumé
 - Éteint:** L'appareil est éteint
- 2** **STATUS**
 - Vert:** Fonctionnement normal, BLE désactivé
 - Vert clignotant:** Démarrage
 - Orange clignotant:** BLE activé
- POWER**
 - Vert:** Deux sources d'alimentation fonctionnelles
 - Orange:** Une source d'alimentation fonctionnelle
 - Éteint:** Aucune alimentation
- HA**
 - Vert:** Fonctionnement en grappe à haute disponibilité
 - Orange:** Basculement vers la haute disponibilité
 - Éteint:** Pas de grappe à haute disponibilité
- 3** **xDSL**
 - Vert clignotant:** Activité de données DSL
 - Éteint:** Aucun lien DSL établi
- WIFI**
 - Vert:** Wi-Fi connecté
 - Vert clignotant:** Activité Wi-Fi
 - Éteint:** Wi-Fi déconnecté
- 3G4G**
 - Vert:** 3G/4G activé
 - Vert clignotant:** Activité 3G/4G
 - Éteint:** 3G/4G désactivé
- SVC**
 - Vert:** CVC activé
 - Vert clignotant:** Activité CVC
 - Éteint:** CVC désactivé
- 4** **SFP/WAN**
 - Vert clignotant:** Activité de données 1000M/100M/10M
 - Éteint:** Aucun lien établi

(Les ports WAN et SFP sont partagés)
- 5** **DSL Port** Port DSL se connectant à Internet
- 6** **BLE/RESET** Activation de la gestion BLE ou restauration des réglages par défaut

Arrière – FWF 80F-2R-3G4G-DSL



- 1** **Vis de mise à la terre :** Protection supplémentaire, réservée pour les applications où une connexion locale permanente de mise à la terre est requise
- 2** **Connexion d'antenne (SMA)** Connexion d'antenne passive directionnelle
(Connecteurs arrière pour le 3G/4G, connecteurs latéraux pour le Wi-Fi; mêmes antennes utilisées)
- 3** **Console (RJ45)** Ordinateur de gestion de l'interface de ligne de commande
USB (USB A) Port de serveur USB 3.0
- 4** **Ports SFP partagés 1 et 2 (SFP)** Interface SFP 1 Gb/s
- 5** **Ports WAN partagés 1 et 2 (RJ45)** Interface Ethernet 1 Gb/s
- 6** **Ports 1 à 6 (RJ45)** Interface Ethernet 1 Gb/s
- 7** **FortiLink Ports A & B (RJ45)** Interface Ethernet 1 Gb/s
- 8** **Alimentation** 12V CC 5A, 100-240V CA 50/60Hz
(Adaptateur d'alimentation redondante et câble optionnels vendus séparément)
- 9** **Fente de carte Nano SIM**



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

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.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

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: Shock Hazard. Disconnect all power sources.

ATTENTION: Risque d'électrocution. Débranchez toutes les sources d'alimentation.

This product is intended to be supplied by a Listed pluggable A via Class I external power supply adaptor by means of a power cord connected to a socket-outlet with earthing connection. Ce produit est destiné à être alimenté par un adaptateur d'alimentation externe de classe I par l'intermédiaire d'un cordon d'alimentation enfichable de classe A qui doit être branché à une prise de courant avec terre.

Caution: This equipment is to be used in a Network Environment 0 per IEC/TR 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 IEC/TR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

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 #12AWG and the connection is to be installed by a qualified service personnel. Ce produit a une borne de mise à la terre séparé sur le dos 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 connecté en permanence à la terre avec un conducteur vert avec la taille bande jaune de minimum #12AWG et la connexion doit être installé par un personnel qualifié.

Disconnect ES2 (TNV) circuit connector before removing cover.

Débranchez le câble du circuit ES2 (TNV) avant d'enlever le couvercle.

IMPORTANT SAFETY INSTRUCTIONS - When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

CONSIGNES DE SÉCURITÉ IMPORTANTES - Lorsque vous utilisez votre équipement téléphonique, des précautions de sécurité de base doivent toujours être suivies pour réduire le risque d'incendie, de choc électrique et de blessures corporelles, y compris ce qui suit:

-Do not use this product near water for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.

-Ne pas utiliser ce produit près de l'eau, par exemple, près d'une baignoire, d'un lavabo, d'un évier de cuisine ou cuve à lessive, dans un sous-sol humide ou près d'une piscine.

-Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
-Évitez d'utiliser un téléphone (autre qu'un téléphone sans fil) pendant un orage. Il peut y avoir un risque de choc électrique par la foudre.

-Do not use the telephone to report a gas leak in the vicinity of the leak.
-Ne pas utiliser le téléphone pour rapporter une fuite de gaz à proximité de la fuite.

-Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
-Utilisez uniquement le cordon d'alimentation et les piles indiquées dans ce manuel. Ne jetez pas les batteries au feu. Ils peuvent exploser. Vérifiez les codes locaux pour connaître les instructions spéciales d'élimination.

SAVE THESE INSTRUCTIONS

CONSERVER CES INSTRUCTIONS

Warning: Equipment intended for installation in Restricted Access Location.

Avertissement: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

CAUTION: To reduce the risk of fire, use only No. 26 AWG or larger (e.g., 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord

ATTENTION: Pour réduire le risque d'incendie, utilisez uniquement 26 AWG ou supérieur (par exemple, 24 AWG) lister UL ou cordon certifié CSA

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 # 12AWG and the connection is to be installed by a qualified service personnel. Ce produit a une borne de mise à la terre séparé sur le dos 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 connecté en permanence à la terre avec un conducteur vert avec la taille bande jaune de minimum # 12AWG et la connexion doit être installé 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

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

Model: FWF-80F-2R, FWF-81F-2R, FWF-80F-2R-3G4G-DSL, FWF-81F-2R-3G4G-DSL, FWF-80F-2R-POE, FWF-81F-2R-POE, FWF-81F-2R-3G4G-POE

Caution: Operation of this device is restricted to indoor use only.

For operation within 5.15 – 5.25GHz frequency range, it is restricted to indoor environment

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

This equipment complies with ANSI TIA/EIA/968-B and Part 68 of the FCC rules and the requirements adopted by the ACTA. On the base of this equipment is a label that contains, among other information, a product identifier in the format US: AAEEQH#TXXXX. If requested, this number must be provided to the telephone company.

This equipment uses the following USOC jacks: RJ11.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total REN, contact the local telephone company. The REN for this product is separately shown on the label and also part of the product identifier that has the format US: AAEEQH#TXXXX. The digits represented by ## are the REN without a decimal point (e.g., .03 is a REN of 0.3).

If you experience trouble with this equipment, for repair or warranty information, please refer to Fortinet's End-User License Agreement which set forth the terms and limitation of Fortinet's product warranty and contact the following address and phone number for additional information.

Fortinet, Inc.
899 Kifer Road, Sunnyvale, CA 94086 USA
1-866-393-9960 (US and Canada)
1-613-725-2466 (International)
<http://www.fortinet.com>

It is recommended that the customer install an AC surge arresiter in the AC outlet to which this device is connected. This is to avoid damaging the equipment caused by local lightning strikes and other electrical surges.

This equipment may not be used on coin service provided by the telephone company. Connection to party line service is subject to state tariffs.

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.

Industry Canada (IC CS) – Canada

NOTICE: This product meets the applicable Industry Canada terminal technical specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not guarantee the equipment will operate to the user's satisfaction.

AVIS: Ce produit est conforme aux spécifications techniques terminales applicables d'Industrie Canada. Cette conformité est confirmée par le numéro d'enregistrement. Le sigle IC, placé devant le numéro d'enregistrement, signifie que l'enregistrement s'est effectué conformément à une déclaration de conformité et indique quelles spécifications techniques d'Industrie Canada ont été respectées. Il ne garantit pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

NOTICE: The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

AVIS: L'indice d'équivalence de la sonnerie (IES) du présent matériel est de 0.1. L'IES assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être reliés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'exécède pas 5.

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.

Model: FWF-80F-2R, FWF-81F-2R, FWF-80F-2R-3G4G-DSL, FWF-81F-2R-3G4G-DSL, FWF-80F-2R-POE, FWF-81F-2R-POE, FWF-81F-2R-3G4G-POE

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 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.

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.

The gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.l.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

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

(ii) where applicable, antenna type(s), antenna model(s), and 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.

(iii) lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.l.r.e. applicable au masque d'élevation, 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: Le dispositif de la bande 5150-5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite co-canal.

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 dispositifs utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.l.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.l.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

This radio transmitter (IC: **7280B-341770695A** / Model: FWF-80F-2R, FWF-81F-2R, FWF-80F-2R-3G4G-DSL, FWF-81F-2R-3G4G-DSL) 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-341770695A** / Model: FWF-80F-2R, FWF-81F-2R, FWF-80F-2R-3G4G-DSL, FWF-81F-2R-3G4G-DSL) 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 radio transmitter (IC: **7280B-341770695A** / Model: FWF-80F-2R-POE, FWF-81F-2R-POE, FWF-81F-2R-3G4G-POE) 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-341770695A** / Model: FWF-80F-2R-POE, FWF-81F-2R-POE, FWF-81F-2R-3G4G-POE) 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 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 fonctionner en association avec une autre antenne ou transmetteur.

Model: FWF-80F-2R, FWF-81F-2R, FWF-80F-2R-3G4G-DSL, FWF-81F-2R-3G4G-DSL
FWF-80F-2R-POE, FWF-81F-2R-POE, FWF-81F-2R-3G4G-POE

Antenna		Gain (dB)					
Type: Dipole	Connector: SMA	2400MHz	2450MHz	2500MHz	5150MHz	5600MHz	5850MHz
ANT1		2	3.24	2.64	3.27	2.01	1.58
ANT2		2	3.24	2.64	3.27	2.01	1.58
ANT3		2	3.24	2.64	3.27	2.01	1.58

Antenna		Gain (dB)		
Type: PIFA	Connector: IPEX	2400MHz	2450MHz	2500MHz
BLE		-2.76	0.74	-0.83

IMPORTANT: The device must be professionally installed and must use the supplied antenna.

Professional Installation Instruction

1. Installation personnel
This product is designed for specific application and needs to be installed by qualified personnel who has RF and related rule knowledge. The general user shall not attempt to install or change the settings.
2. Installation location
The product shall be installed at a location where the radiating antenna can be kept 20cm from nearby person in normal operation condition to meet Regulatory RF exposure requirement. The installation applies to indoor location.
3. External antenna(s)
Use only the antenna(s) that have been approved by the manufacturer. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power that may lead to the violation of FCC/ISED limit and is prohibited.
4. Warning
Please carefully select the installation position and ensure that the final output power does not exceed the limit set forth in relevant rules. The violation of the rule could lead to serious federal penalty.

Instructions d'installation professionnelle

1. Installation
Ce produit est conçu pour un usage spécifique et doit être installé par un personnel qualifié maîtrisant les radiofréquences et règle similaires. L'utilisateur ne doit pas tenter d'installer ou de modifier les paramètres.
2. Emplacement d'installation
En usage normal, afin de respecter les exigences réglementaires concernant l'exposition aux radiofréquences, ce produit doit être installé de façon à respecter une distance de 20cm entre l'antenne émettrice et. L'installation s'applique aux emplacements intérieur.
3. Antenne externe (s)
Utiliser uniquement l'antenne (s) approuvées par le fabricant. L'utilisation d'autres antennes peut conduire à un niveau de rayonnement essentiel ou non essentiel dépassant les niveaux limites définis par FCC/ISED, ce qui est interdit.
4. Avertissement
Choisir avec soin la position d'installation et s'assurer que la puissance de sortie ne dépasse pas les limites en vigueur. La violation de cette règle peut conduire à de sérieuses pénalités fédérales.

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.



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

Frequency Range (MHz)	Transmit Power Less Than (dBm)
2402-2480MHz	20
2412-2472MHz	20**
5180-5240MHz	23**
5260-5320MHz	23*
5500-5700MHz	30*

* Only with DFS bands certification. Applies to FortWiFi 81F-2R Series

** Applies to FortWiFi 81F-2R Series

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/ЕО.

Česky

Tento produkt je v souladu se směrnici 2014/53/EU.

Dansk

Denne 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/UE.

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/EU.

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/UE.

Norsk

Denne 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/EU.

Slovensko

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

Suomi

Tämä tuote on direktiivin 2014/53/UE 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>

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

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK (NI)

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 dBm (EIRP)
Bluetooth	2402-2480 MHz	2.44
WLAN	2412-2472 MHz	19.84
	5180-5240MHz	22.77
	5260-5320 MHz	22.60
	5500-5700 MHz	29.67

Standard	Frequency Range	Max Transmit Power dBm (Conducted)
WCDMA*	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink)	25.7
	Band 8: 880-915MHz(Uplink);925-960MHz(Downlink)	
LTE*	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink)	25.7
	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 42: 3400-3600MHz	
	Band 43: 3600-3800MHz	
	Band 46: 5150-5925MHz(Downlink)	

* Applies to models FWF-80F-2R-3G4G-DSL, FWF-81F-2R-3G4G-DSL, FWF-81F-2R-3G4G-POE

Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスB機器です。この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

V C C I – B

Product Safety Electrical Appliance & Material (PSE) – Japan

日本では電気用品安全法(PSE)の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:
 限用物質含有情況表 (RoHS Table) 請到以下 網址下載:
<https://www.fsinet.com/bsmi/>

請仔細閱讀以下說明
 本設備勿置於潮濕處。
 連接至電源前，請先檢查電壓。
 當設備不用時，請將所有電源線拔除，避免電壓不穩而造成危害。
 勿將任何液體滲入設備中，避免線路短路。
 基於安全理由，只有受到專業訓練的從業人員，才可以打開本設備。
 請勿自行調整或修理已通電的設備，以確保您的安全。
 如不小心受傷，請立刻找急救人員給予您適當的救護，千萬別因傷勢輕微而忽略自己的傷勢。

請依照台灣法規處置電池。
 若不正確替換電池可能導致爆炸危險。替換電池時，請使用設備生產商推薦使用的電池。
 請勿拆卸、刺穿或以其他方式損壞電池。

雷射設備非用戶維修設備，請與生產商聯繫維修事宜。

注意：要斷開電源，請將所有電源線從本機上拔下

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

Model: FWF-80F-2R, FWF-81F-2R National Telecommunications Commission (NCC) – Taiwan

NCC警告
 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。
 高增益指向性天線只得應用於固定式點對點系統。
 本器材須經專業工程人員安裝及設定，始得設置使用，且不得直接販售給一般消費者。

UK Conformity Assessed (UKCA) – United Kingdom

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

Frequency Range (MHz)	Transmit Power Less Than (dBm)
2402-2480MHz	20
2412-2472MHz	20
5180-5240MHz	23
5260-5320MHz	23*
5500-5700MHz	30*

* Only with DFS bands certification.

Standard	Frequency Range	Max Transmit Power dBm (EIRP)
Bluetooth	2402-2480 MHz	2.44
WLAN	2412-2472 MHz	19.84
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	5260-5320 MHz	22.60
	5500-5700 MHz	29.67

Standard	Frequency Range	Max Transmit Power dBm (Conducted)
WCDMA*	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink)	25.7
	Band 8: 880-915MHz(Uplink);925-960MHz(Downlink)	
LTE*	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink)	25.7
	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 42: 3400-3600MHz	
	Band 43: 3600-3800MHz	
	Band 46: 5150-5925MHz(Downlink)	

* Applies to models FWF-80F-2R-3G4G-DSL, FWF-81F-2R-3G4G-DSL, FWF-81F-2R-3G4G-POE

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.fsinet.com/ProductRegistrationUK>

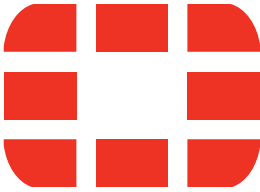
The device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range in the following countries:



Model: FWF-80F-2R, FWF-81F-2R Korea Certification (KC) – Korea

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