

FORTINET 80F Series Forti Gate WiFi Data Sheet



## FORTINET 80F Series Forti Gate WiFi Data Sheet User Guide

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### FORTINET 80F Series Forti Gate WiFi Data Sheet



### Before you begin

Register your device to access FortiGuard updates, cloud management, firmware upgrades, technical support and warranty coverage. <https://support.fortinet.com>

## FortiExplorer App

Rapidly provision, deploy, and monitor Security Fabric components including FortiGate and FortiWiFi devices from your mobile. Download now for free.



Scan the QR Code or visit

<https://links.fortinet.com/fortiexplorer/downloads>

The Essentials

Default Logins

<https://192.168.1.99>

Username: admin

Password: leave blank

## Admin Guide

For a detailed Getting Started guide, setup and configuration information, refer to the Admin Guide at <https://docs.fortinet.com/>

## Customer Service

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

## Self-service Resources

Access our knowledge base, forums, videos and technical experts at

<https://www.fortinet.com/support/support-services/forticare-support>

Thank you for choosing Fortinet

## Package Contents

### FortiGate 80F Series

FG-80F, FG-81F, FG-80F-BYPASS, FG-80F-POE, FG-81F-POE, FG-80F-DSL



FortiGate Device



QuickStart Guide



1x DC Power Adapter



1x Power Cable



1x Ethernet Cable



1x RJ11 Cable  
(DSL model only)

### Quick Setup

Unpack the box, power the device, plug the Ethernet cable from a WAN port to the Internet and launch FortiExplorer using one of the following:

### BLE Auto Detection

1. Enable Bluetooth on your Fortinet device and your mobile, then place them near each other
2. FortiExplorer will automatically detect your device
3. Follow the on-screen instructions to complete your setup

### USB Connectivity

1. Connect your mobile to your Fortinet device with a USB cable
2. If the device is not detected, navigate to My Fabric, tap Add and follow the FortiExplorer's on-screen instructions

### FortiGate Cloud Key Registration

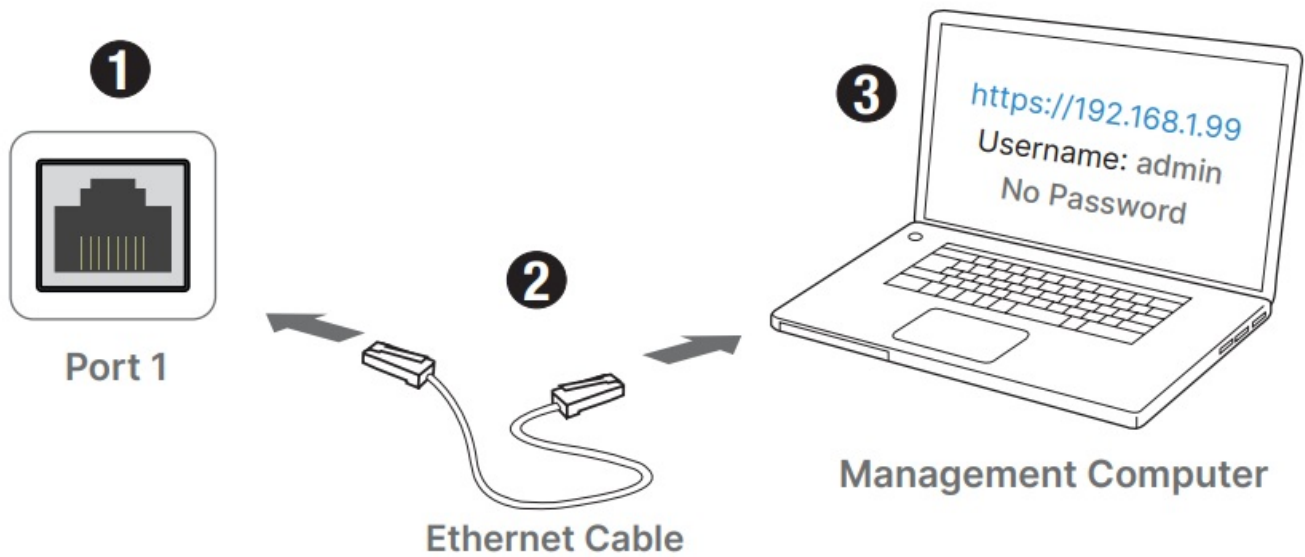
1. Navigate to My Fabric, then tap Add
2. Scan the FortiGate Cloud Key located on your Fortinet device
3. Follow the on-screen instructions to complete your setup

**Note:** FortiExplorer can manage FortiGates without WiFi capabilities once they have been provisioned to allow HTTP/S admin access

### Additional Setup Options

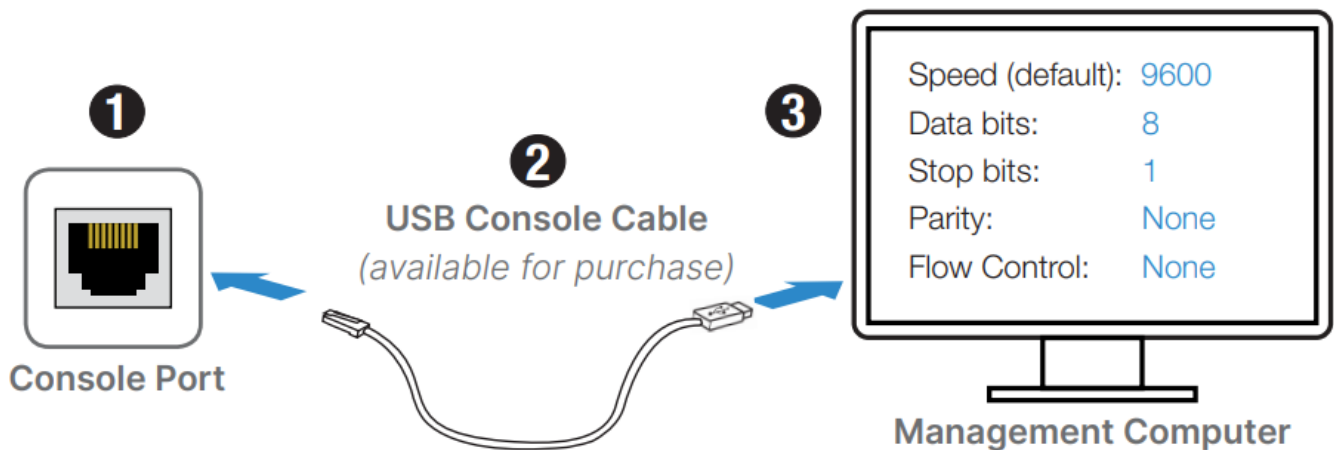
Set up your Fortinet device locally or connect using [forticloud.com](https://forticloud.com)

## GUI



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

## CLI

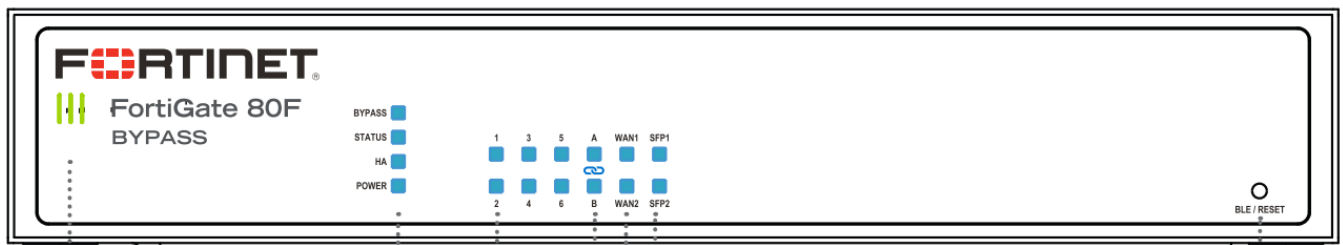


**Note:** For a detailed CLI guide, visit [docs.fortinet.com](https://docs.fortinet.com)

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

1. Go to [forticloud.com](https://forticloud.com) and log in 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 – FG 80F Series



1

2

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6

## 1 LOGO

FortiGate

**Green:** The device is on

**Off:** The device is off

## 2 BYPASS (FG 80F-Bypass model only)

**Amber:** Bypass Port Pair is active (WAN1 & Port1, default configuration)

**Off:** Bypass Port Pair is off

## 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

## 3 PORT LINK/ACT

**Flashing Green:** 1000M/100M/10M data activity

**Off:** No link established

## 4 WAN (WAN & SFP are Shared Ports)

**Flashing Green:** 1000M/100M/10M data activity

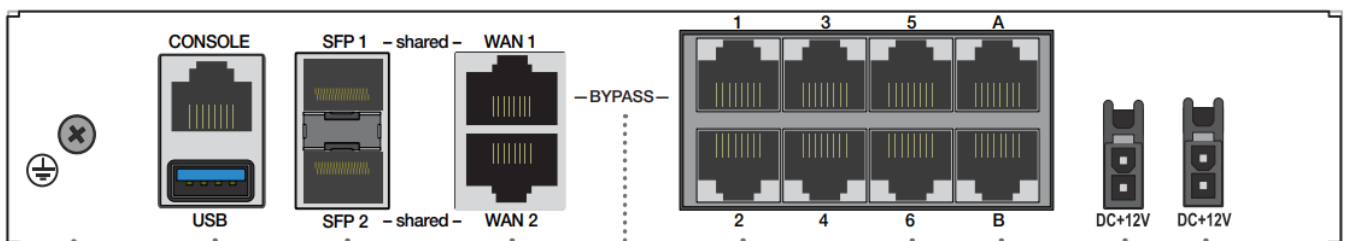
**Off:** No link established

## 5 SFP

**Flashing Green:** 1000M/100M/10M data activity

**Off:** No link established

## 6 BLE/RESET Activates BLE management or restores to factory default



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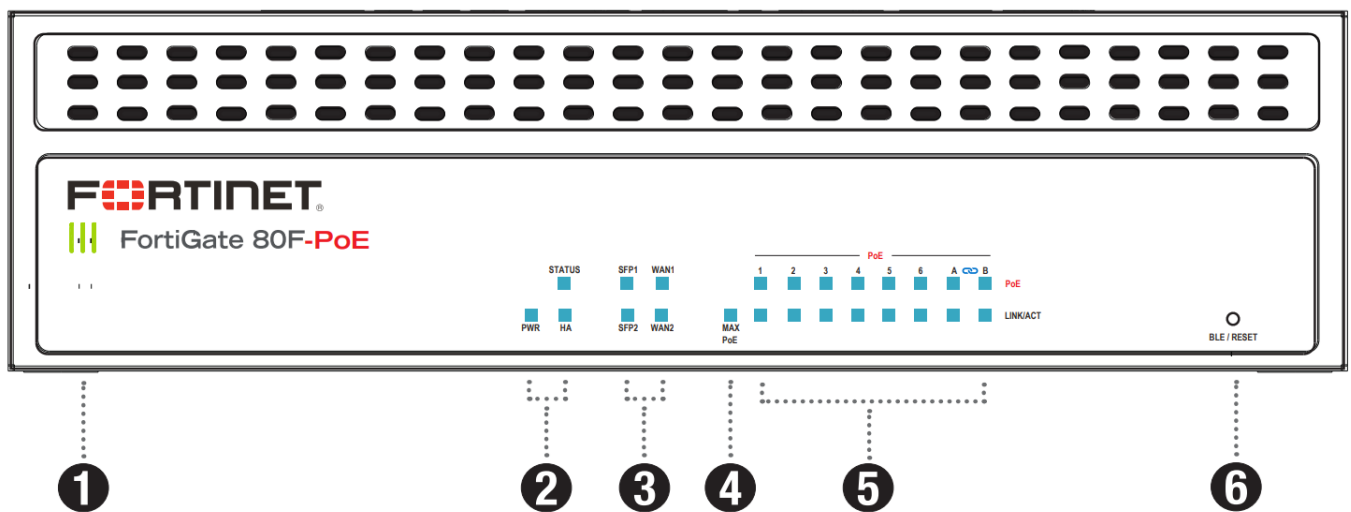
7


















8

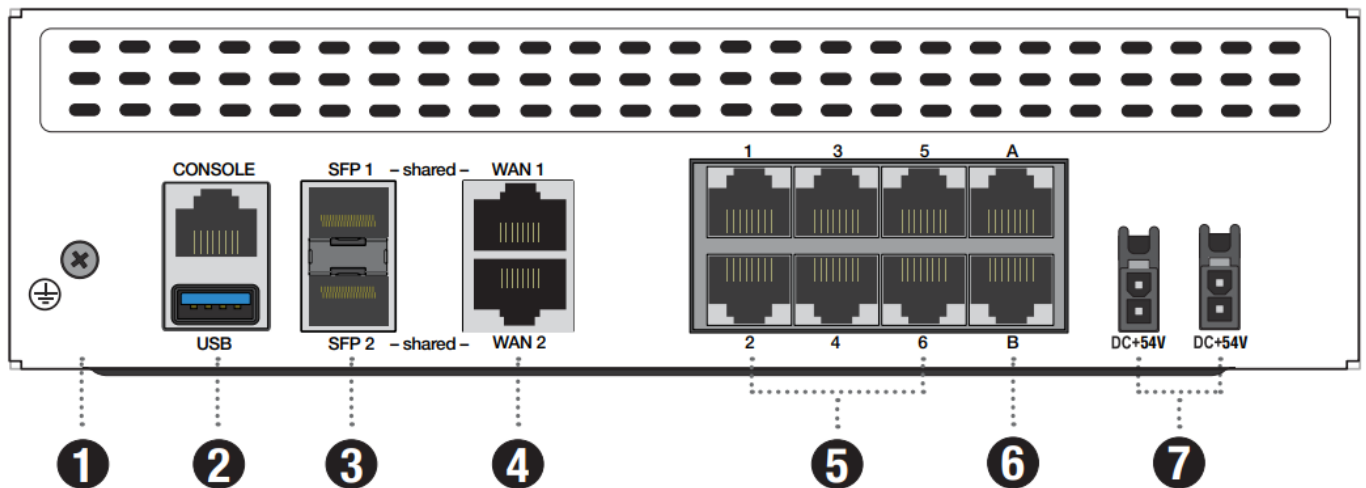
connection of protective earth is required

2. Console (RJ-45) CLI management computer interface USB (USB A) USB 3.0 server port|
3. SFP Shared Ports 1 & 2 (SFP) 1 Gbps SFP interface
4. WAN Shared Ports 1 & 2 (RJ45) 1 Gbps Ethernet interface
5. BYPASS Port Pair (RJ45) 1 Gbps Ethernet interface (FG 80F-Bypass model only. WAN1 & Port1 are the default configuration)
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 3A, 100-240V AC 50/60Hz (optional redundant power adapter and cable available for purchase)

### Front – FG 80F-POE Series



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

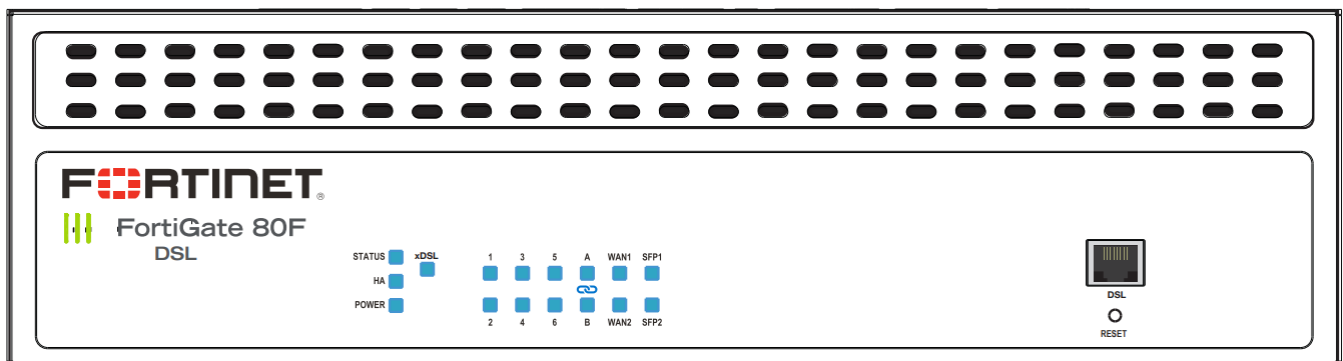


## Back – FG 80F-POE Series

1. Grounding Screw additional protective earth connection, reserved for applications
2. where a permanent local connection of protective earth is required Console (RJ-45)
3. 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 54V DC 2.78A, 100-240V AC 50/60Hz (optional redundant power adapter and cable available for purchase)

## Front – FG 80F-DSL Series



1

1 LOGO

2

2 STATUS

HA

POWER

xDSL

3

3 Ports

4

4 SFP/WAN  
(WAN & SFP  
are Shared Ports)

5

5 DSL port connects to the Internet

FortiGate

**Green:** The device is on  
**Off:** The device is off

**Green:** Operating normally  
**Flashing Green:** Booting up

**Green:** Operating in an HA cluster  
**Amber:** HA failover  
**Off:** Not in an HA cluster

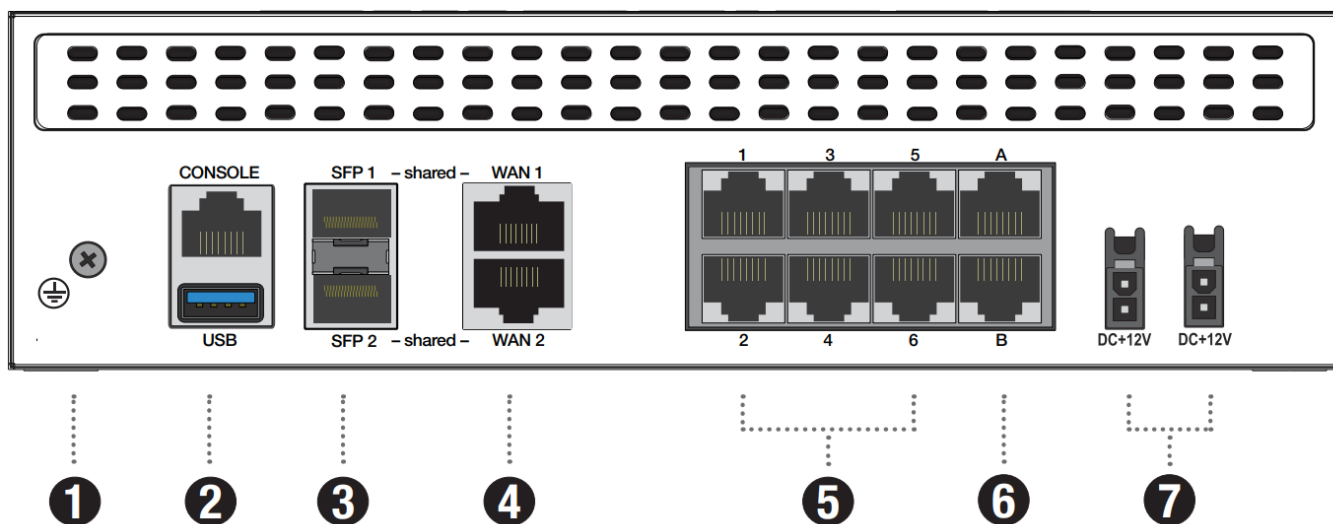
**Green:** Both power supplies are functioning  
**Amber:** One power supply is functioning  
**Off:** Power is off

**Flashing Green:** DSL data activity  
**Off:** No DSL link established

**Flashing Green:** 1000M/100M/10M data activity  
**Off:** No link established

**Flashing Green:** 1000M/100M/10M data activity  
**Off:** No link established





## Back – FG 80F-DSL Series

1. Grounding Screw additional protective earth connection, reserved for applications where a permanent local connection of protective earth is required
2. Console (RJ-45) CLI management computer interface USB (USB A) USB 3.0 server port
3. SFP Shared Ports 1 and 2 (SFP) 1 Gbps SFP interface
4. WAN Shared Ports 1 and 2 (RJ45) 1000/100/10 Mbps Ethernet interface
5. Ports 1 to 6 (RJ-45) 1000/100/10 Mbps Ethernet interface
6. FortiLink Ports A and B (RJ-45) 1000/100/10 Mbps Ethernet interface
7. Power Input 12V DC 3A, 100-240V AC 50/60Hz (optional redundant power adapter and cable available for purchase)

## 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)

## 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.

## CAUTION

- There is a danger of explosion if a battery is incorrectly replaced. Replace only with the same or equivalent type.
- Dispose batteries of according to the manufacturer's instructions.
- Disposing of a battery in a fire, or 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.

## **CAUTION**

Shock Hazard. Disconnect all power sources

### **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. 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 the 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 qualified service personnel

### **Disconnect the ES2 (TNV) circuit connector before removing the cover**

**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:

- 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
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of the leak
- 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

## **CONSERVER CES INSTRUCTIONS**

**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

**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. 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 the 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 qualified service personnel.

### **Warning**

Equipment intended for installation in a Restricted Access Location.

## **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, under 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 by 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 the receiver.
- Connect the equipment to 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 a 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.

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: AAAEQ##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 are 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: AAAEQ##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 sets forth the terms and limitations 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 arrester 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 the 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's technical specifications were met. It does not guarantee the equipment will operate to the user's satisfaction.

**NOTICE:** The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment indicates 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.

### **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

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except by the IC multi-transmitter product procedures.

### **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: 2402-2480MHz less than 20dBm. This equipment should be installed and operated with a minimum distance of 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.

This product complies with Directive 2014/53/EU.

### **UK Conformity Assessed (UKCA) – United Kingdom**

The product transmits within the frequency ranges and less than or equal to the power listed below: 2402-2480MHz less than 20dBm. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This product complies 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>

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: FG-80F, FG-81F, FG-80F-Bypass, FG-80F-POE, FG-81F-POE, and FG-80F-DSL January 20, 2023

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## Nothing herein represents any binding


commitment by Fortinet and Fortinet disclaims all warranties, whether express or implied, except to the extent Fortinet enters a binding written contract, signed by Fortinet's General Counsel, with a purchaser that expressly warrants that the identified product will perform according to certain expressly identified performance metrics and, in such event, only the specific performance metrics expressly identified in such a binding written contract shall be binding on Fortinet. For absolute clarity, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests.

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## Documents / Resources

  QuickStart Guide <small>Fortinet 80F Series</small>	<a href="#">FORTINET 80F Series Forti Gate WiFi Data Sheet</a> [pdf] User Guide 80F Series Forti Gate WiFi Data Sheet, 80F Series, Forti Gate WiFi Data Sheet, WiFi Data Sheet, Data Sheet, Sheet
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## References

-  [LoginMgr](#)
-  [Global Leader of Cybersecurity Solutions and Services | Fortinet](#)
-  [Anatel — Agência Nacional de Telecomunicações](#)
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