QuickStart Guide

FortiGate Rugged 60G

FGR-60G



The Essentials

Secure your Network

Register at https://support.fortinet.com for the latest threat protection updates.

Fortinet Documents Library

For getting started documentation, admin guides, up-to-date hardware manuals and reference resources, visit https://docs.fortinet.com/

FortiGate Cloud

Experience simplified cloud provisioning, security analytics, remote access, hosted log retention and reporting at https://fortigate.forticloud.com

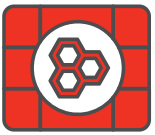
Quick Start Guide Online

Please refer to the online version for the most current and up-to-date information about your device at https://docs.fortinet.com/document/fortigate/hardware/fortigate-rugged-60g-qsg

You may also scan the QR code below.

Package Contents

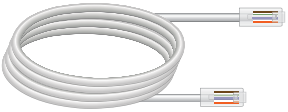
FortiGate Rugged 60G
FGR-60G



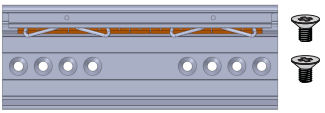
1x FGR-60G



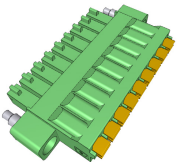
1x QuickStart Guide



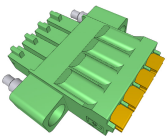
1x CAT5e Ethernet Cable



1x DIN Rail Bracket w/Screws
(2x M4×8mm)



1x Digital I/O Connector



1x DC Power Connector



4x Rubber Feet

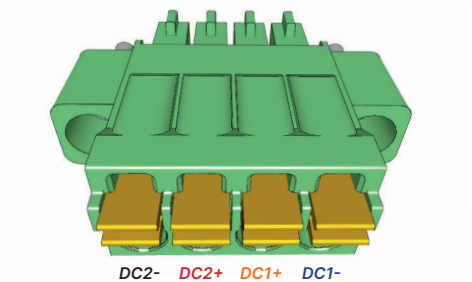
Power Installation

Warnings

- The redundant DC inputs support negative ground (+12V to +125V DC) and positive ground (-12V to -125V DC), 1.67A Max.
- With the optional failover redundancy, if the primary DC input fails, the secondary DC input will supply power.
- DC1+ and DC2+ are the higher voltage potential pins and DC1- and DC2- are the lower voltage potential pins.
- Do not connect the DC+ terminal to a lower voltage potential than the DC- terminal.
- The voltage between DC+ and DC- must be +12V to +125V DC.
- The DC wire gauge maximum is 16 AWG; the minimum is 22 AWG.
- Consult a professional electrician to install the device and determine a suitable wire gauge and length.
- The DC input power connector does not support hot plugging.

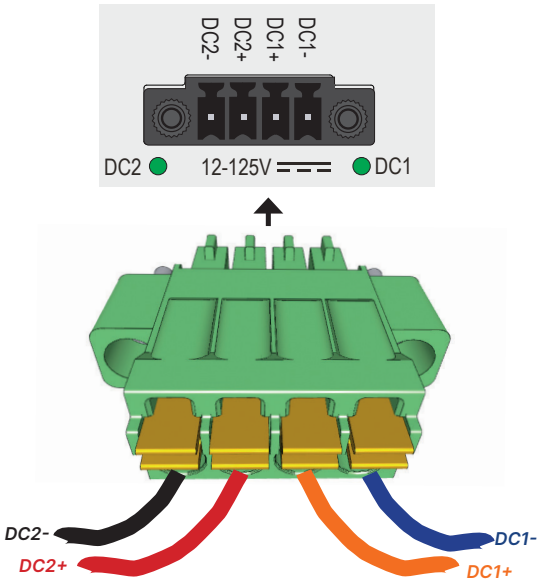
Connector Pinout

Connect DC1+ or DC2+ on the device terminal block to the DC power source, then connect the negative DC1- or DC2- on the terminal block.



DC Input Power	DC+ Terminal	DC- Terminal
Negative Ground	+12V to +125V DC	Ground
Positive Ground	Ground	-12V to -125V DC

Wiring

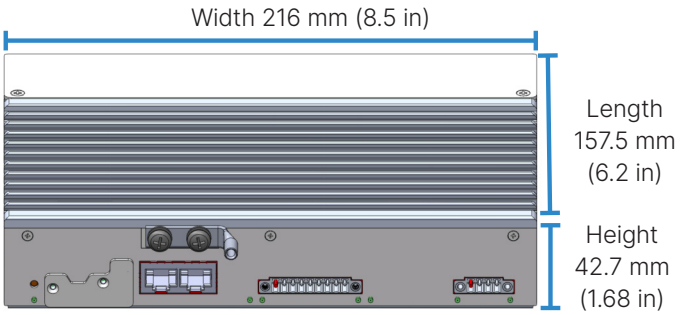


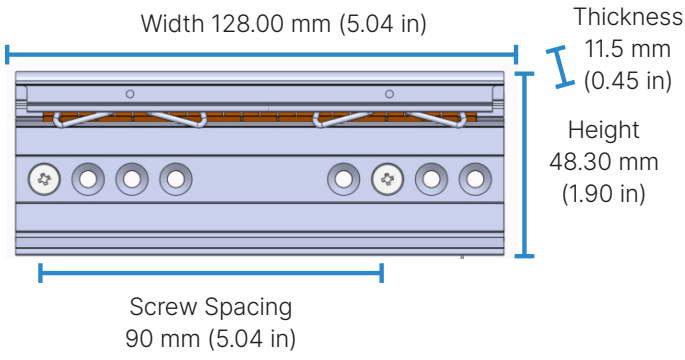
Grounding

Optional but recommended, connect earth ground using the lug plate or grounding screw.

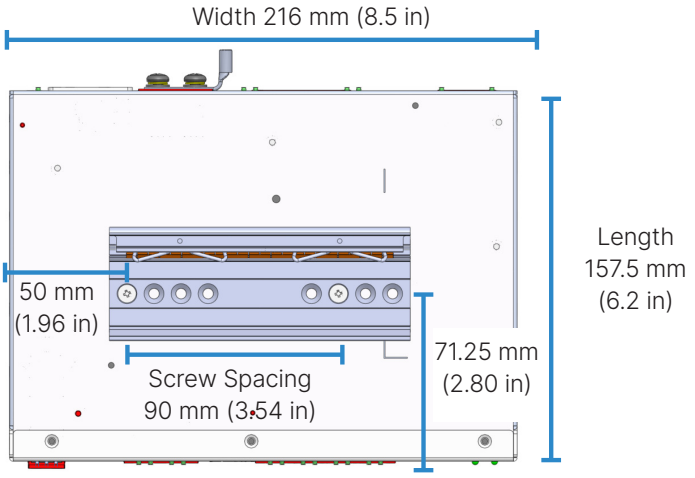
Dimensions

NOTE: Drawings are for dimensional purposes only. Refer to the following pages for connector details.

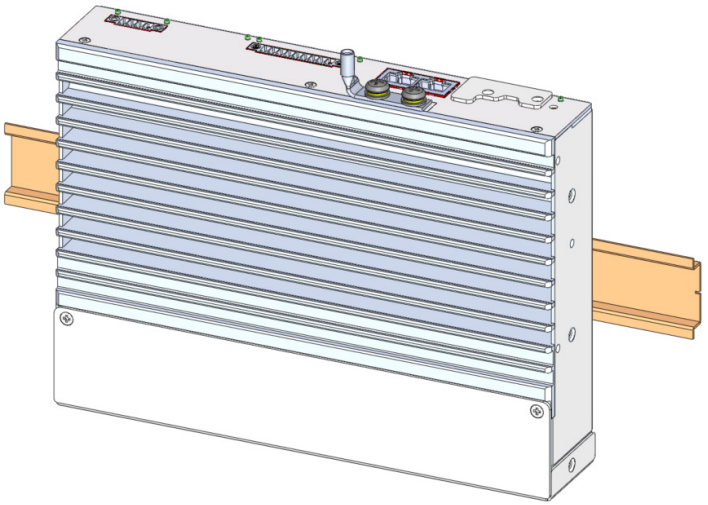




DIN Rail Mounting Bracket

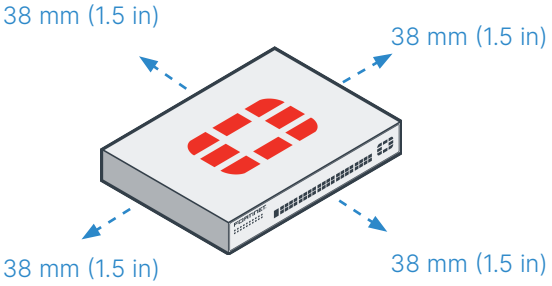


DIN bracket can also be mounted in different directions based on requirements.

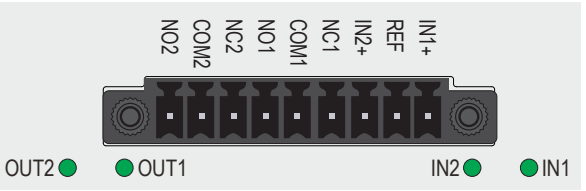


Desktop Mount

Attach the rubber feet and place the device on a flat, clean and stable surface. Make sure there is at least 38 mm (1.5 in) of clearance for adequate airflow.



Digital I/O Connector

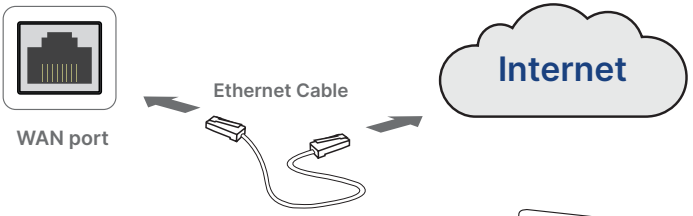


Connector	Description
NO2	Normally Open 2 Terminal
COM2	Common 2 Terminal
NC2	Normally Closed 2 Terminal
NO1	Normally Open Terminal
COM1	Common 1 Terminal
NC1	Normally Closed 1 Terminal
IN2+	Alarm Input 2
REF	Alarm Input 1/2 Reference Ground
IN1+	Alarm Input 1

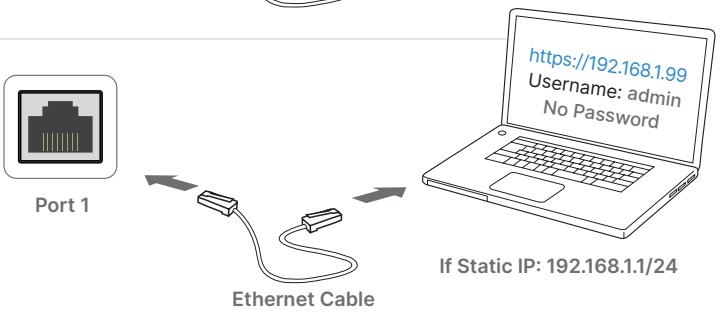
Setup

FortiGate Cloud

Login to https://fortigate.forticloud.com using your Fortinet Credentials, then click Add **FortiGate** and enter the Cloudkey.

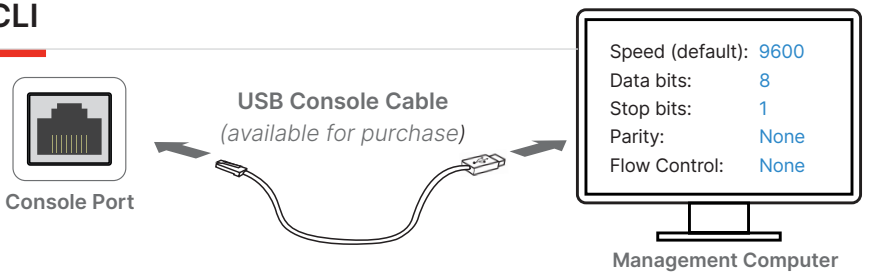


GUI



1. Connect Port 1 to an Ethernet port using the provided Ethernet cable.
2. Open a browser to https://192.168.1.99

CLI

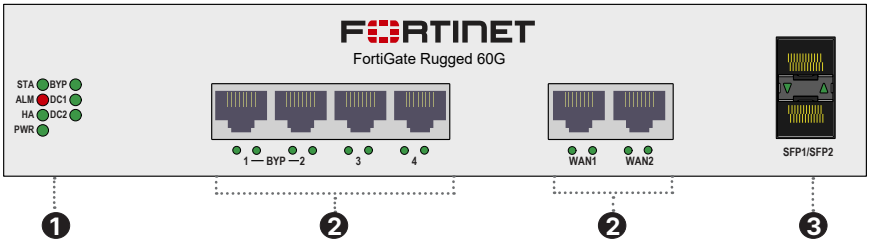


1. Connect a console cable (available for purchase) to the Console port.
2. Open a Terminal app using 9600-8-N-1

BIOS Options

The default CPU speed is set to high performance mode. Low power mode can be set in the BIOS options. See the Admin Guide for more information at https://docs.forftinet.com

Front FGR-60G



1 SYSTEM STATUS LEDS

STA
- **Off**: Device is off
- **Green**: Operating normally
- **Flashing Green**: Reset window

BYP

Bypass Ports 1 and 2 only; bypass disabled by default
- **Green**: Bypass off
- **Red**: Bypass on

ALM
- **Red**: Major alarm detected
- **Amber**: Minor alarm detected
- **Off**: No alarm detected

DC1 and **DC2**
- **Green**: Power detected
- **Red**: Alarm is on, no power detected
- **Off**: No power detected

HA
- **Green**: HA enabled (normal)
- **Red**: HA enabled (failover)
- **Off**: HA disabled

PWR
- **Green**: Power detected
- **Off**: Power not detected

2 1GE Ports 1 to 4 WAN1 WAN2 (RJ-45)

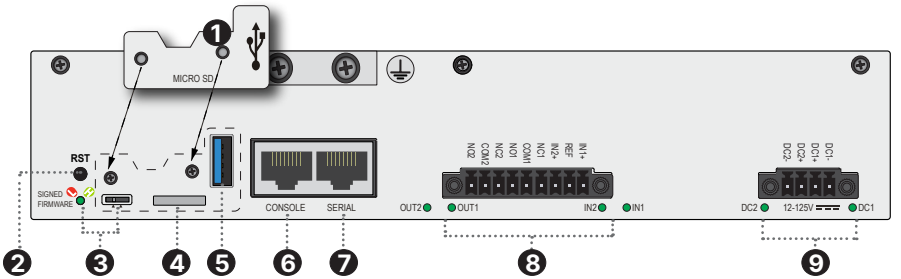
Activity/Link (Left LED)
- **Green**: Link Established
- **Flashing Green**: Data activity
- **Off**: No link established

Speed (Right LED)
- **Green**: Connected at 1 Gbps
- **Amber**: Connected at 100Mbps
- **Off**: 10 Mbps or not connected

3 1GE SFP1 and SFP2 Ports (SFP)

SFP LED Link/ACT
- **Green**: Link established
- **Flashing Green**: Data activity
- **Off**: No link established

Rear FGR-60G



1. **Removable cover** (closed while device is operating)

2. **Reset Button**

3. **Signed Firmware LED and Switch** BIOS Security Level
   See Admin Guide at https://docs.fortinet.com

   - **High**: Interim image will be blocked (default)
   - **Low**: Interim image will be allowed

4. **Micro SD Slot**
   Industrial Micro SD card recommended for extreme temperature environments. Hot-swapping the Micro SD card is not supported. Power off the device before installing or uninstalling the Micro SD card. Micro SD card not included. Refer to the Admin Guide for SD card details at https://docs.fortinet.com.

5. **USB 2.0 (USB-A)**

6. **Console (RJ45)** CLI Management Computer Connection

7. **Serial (RJ45)**

8. **Alarm Inputs (IN1** and **IN2)**

   - **Green**: Alarm defined
   - **Red**: Alarm detected
   - **Off**: Alarm not defined

   Alarm Outputs (OUT1 and **OUT2)**

   - **Green**: Alarm defined
   - **Flashing Red**: Major alarm detected
   - **Red**: Minor alarm detected
   - **Off**: Alarm not defined

9. **Power Connectors (DC1** and **DC2)** Alarm disabled by default

   - **Green:** Power detected
   - **Red:** Alarm is on; no power detected
   - **Off:** No power detected

Cautions and Warnings

Environmental specifications

Ambient operating temperature: -40°C to 75°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

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.

A skilled person must install the equipment.
L'équipement doit être installé par une personne qualifiée.

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 batteries usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

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 # 20 AWG 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 # 20 AWG et la connexion doit installée par un personnel qualifié.

Connect to NEC Class 2 power source
Connectez-vous à une source d'alimentation NEC Classe 2

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.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Innovation, Science and Economic Development (ISED) – Canada

CAN ICES (A) / NMB (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique respecte les limites de classe A sur les émissions de bruit radioélectrique provenant d'un appareil numérique, telles que définies dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

CE

Hereby, Fortinet, declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU and 2014/35/EU.

Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスＡ機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

ＶＣＣＩ－Ａ

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

限用物質含有情況表（RoHS Table）請到以下 網址下載：
https://www.fortinet.com/bsmi

警告： 為避免電磁干擾，本產品不應安裝或使用於住宅環境。

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傷害。
勿將任何液體濺入設備中，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。

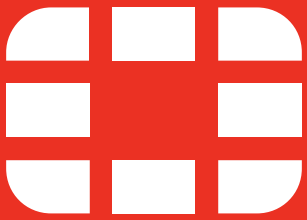
雷射設備非用戶維修設備，請與生產商聯繫維修事宜。

注意：要斷開電源，請將所有電源線從本機上拔下

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Agência Nacional de Telecomunicações (ANATEL) – Brazil

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FORTINET

www.fortinet.com

June 22, 2026

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