



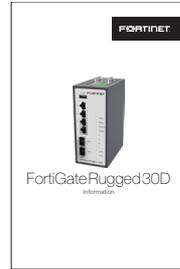
# FortiGate Rugged 30D

Information

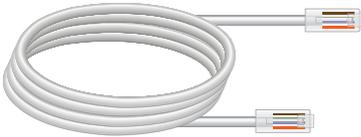
# Box Includes



FortiGate Rugged 30D



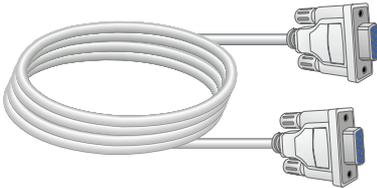
Information Supplement



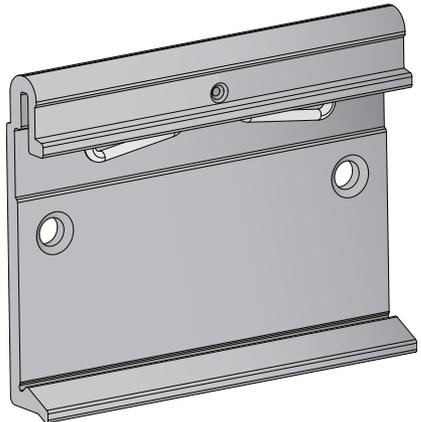
Ethernet Cable



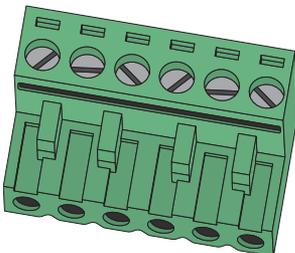
2 Bracket Screws



Console Cable



DIN Rail Bracket

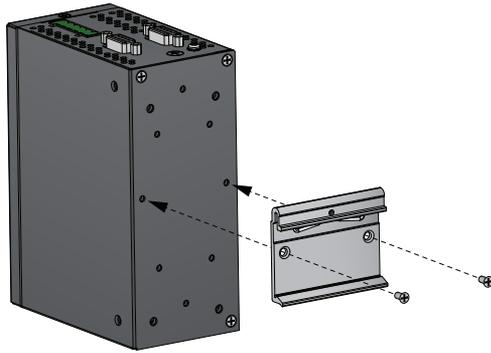


Terminal Block

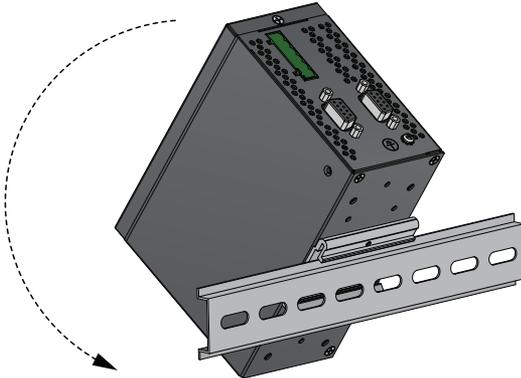
# Installation

The FGR-30D supports installation on DIN rails with 35 mm x 15 mm and 35 mm x 7.5 mm sizes. The minimum mounting distance between the FGR-30D and other systems with similar heat radiation characteristics is 100 mm.

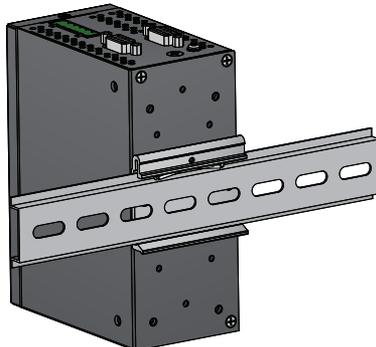
1. Connect the DIN rail bracket to the device using the provided bracket screws.



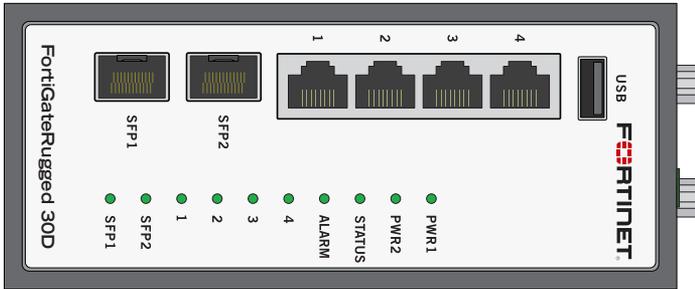
2. Position the device directly in front of the DIN rail, ensuring that the top of the DIN rail bracket hooks over the top of the DIN rail.



3. Rotate the device until the bottom of the DIN rail bracket sits against the bottom of the DIN rail.



# Device Guide



## PWR1

- Green: Power supplied from Power Input 1
- Off: Power Input 1 not supplying power

## PWR2

- Green: Power supplied from Power Input 2
- Off: Power Input 2 not supplying power

## STATUS

- Green: Normal
- Flashing Green: Booting up
- Red: Power-on process has failed

## ALARM

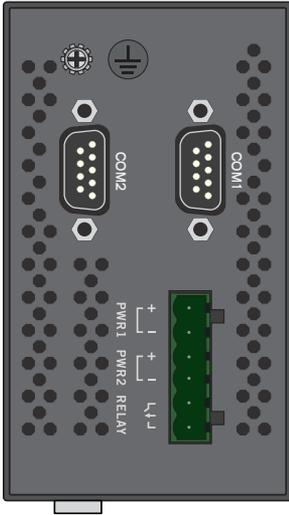
- Flashing Red: No IP address from DHCP server
- Off: Any fault

## Ethernet Ports

- Green: Connected at 1 Gbps
- Flashing Green: Transceiving data at 1 Gbps
- Amber: Connected at 100/10 Mbps
- Flashing Amber: Transceiving data at 100/10 Mbps
- Off: No link established

## SFP Ports

- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established



## COM Ports (DB-9)

COM 1: Distributed Network Protocol (DNP)

COM 2: Optional connection to the management computer

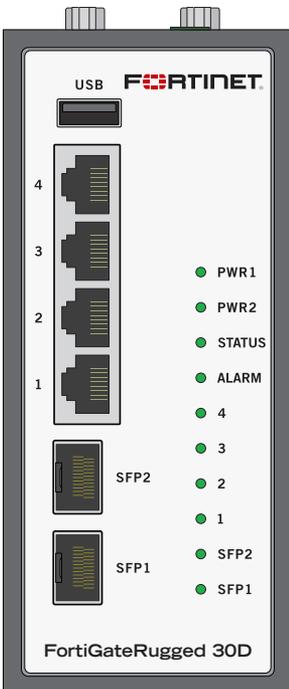
Provides access to the CLI

## Power (Terminal Block)

+12V to +48VDC, redundant power connections  
Use UL recognized 12-24AWG solid or stranded wire

## Relay (Terminal Block)

Not used



## USB (USB A)

USB 2.0 port

## Ethernet Ports 1 to 4 (RJ-45)

Gigabit Ethernet local network connections

Port 1 default IP address: 192.168.1.99

## SFP Ports (SFP)

1 Gbps small form-factor pluggable transceiver ports

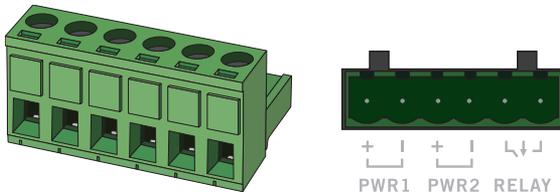


# Power Connection

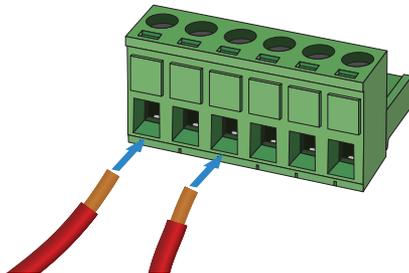
Follow the below steps to connect the device to DC power sources.

## WARNING

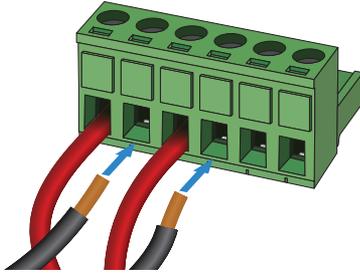
- Connecting the positive terminals to ground (0V) and negative terminals to negative voltages (-12 to -48V) is not supported and will damage the device.
- The device will be damaged if the terminal block DC input positive(+) and negative(-) orientations are not connected following the instructions.
- Do not connect the second power connection to a DC power source when the device is on.
- Input voltage must be between +12V and +48V, with a 5% tolerance (between +11.4V and +50.4V).
- The maximum wire length must not exceed:
  - 9 m for 12V
  - 38 m for 24V
  - 42 m for 48V



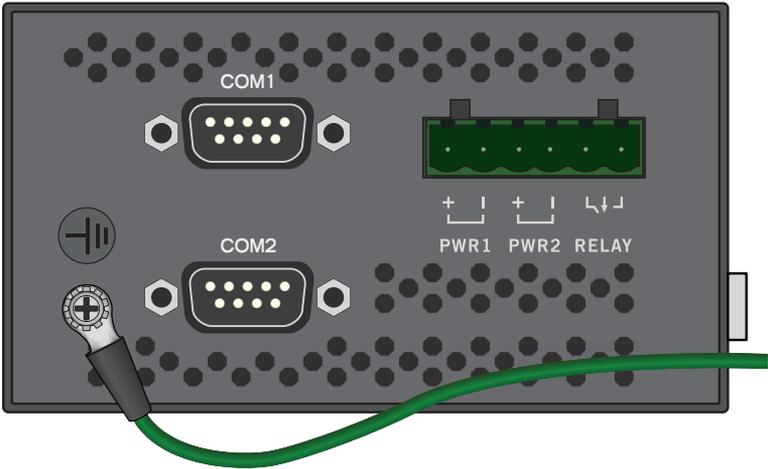
1. Connect the positive terminals (PWR1+ and PWR2+) of the device terminal block to +12V to +48VDC DC power sources.



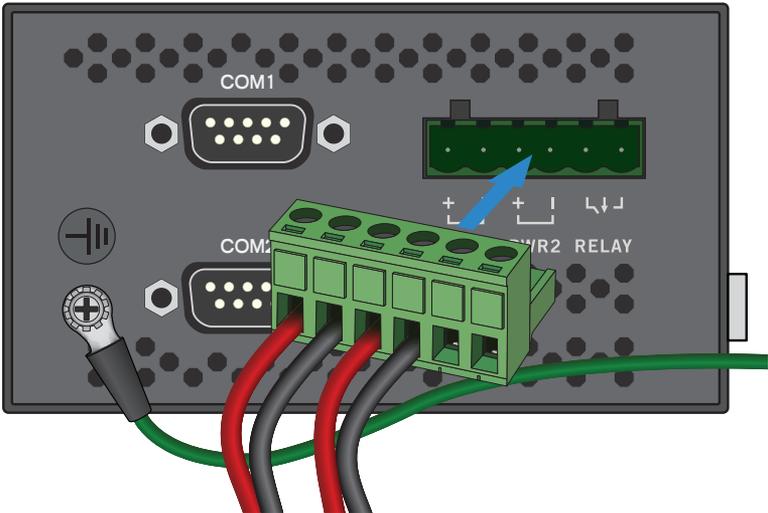
2. Connect the negative terminals (PWR1- and PWR2-) of the device terminal block to the 0V/GROUND connections on the power sources.



3. Connect the earth ground terminal of the device to chassis ground or earth ground.



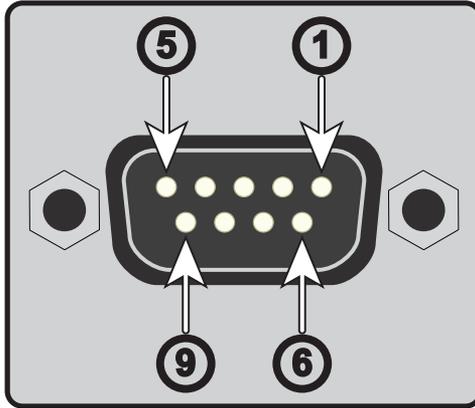
4. Insert the wired terminal block into the power connection on the device.



# Console Port

The console port supports RS-232 DCE (Data Communication Equipment) with a DB-9 connector.

Using the included console cable is recommended.



Pin	Name	Description
1		Reserved (Do not connect)
2	<b>TX</b>	<b>Transmit Data</b>
3	<b>RX</b>	<b>Receive Data</b>
4		Reserved (Do not connect)
5	<b>GND</b>	<b>Common Ground</b>
6		Reserved (Do not connect)
7		Reserved (Do not connect)
8		Reserved (Do not connect)
9		Reserved (Do not connect)

## Cautions and Warnings

### Environmental specifications

Ambient operating temperature: -40°C to 70°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.

## Regulatory Notices

### Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

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

### 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.

### 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.



### Voluntary Control Council for Interference (VCCI) – Japan

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V C C I - B

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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.fortinet.com/bsmi>

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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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Para maiores informações, consulte o site da ANATEL [www.anatel.gov.br](http://www.anatel.gov.br)

### Korea Certification (KC) – Korea

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