



QuickStart Guide

FortiGate Rugged 70G-5G

FGR-70G-5G



reddot winner 2025

The Essentials

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

GUI

- 1 Connect Port 1 to an Ethernet port or USB-RJ45 Ethernet adapter on your computer using the provided Ethernet cable
- 2 Open a browser to <https://192.168.1.99>

CLI

- 1 Connect a console cable (not included) to the Console Port
- 2 Open a Terminal app using 9600-8-N-1

Default Login



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

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>

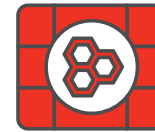
FortiExplorer Go

Rapidly provision, deploy and manage your Fortinet Security Fabric Platform, free on iOS and Android: <https://docs.fortinet.com/product/fortiexplorer-go/>



Package Contents

FortiGate Rugged 70G-5G
FGR-70G-5G



1x FGR-70G-5G



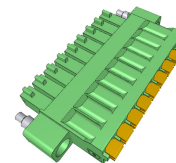
1x QuickStart Guide



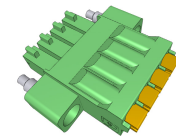
1x CAT5e Ethernet Cable



1x DIN Rail Bracket w/Screws
(4x M3×10)



1x Digital I/O Connector



1x DC Power Connector



5x Antennas
(4x WWAN, 1x GPS)

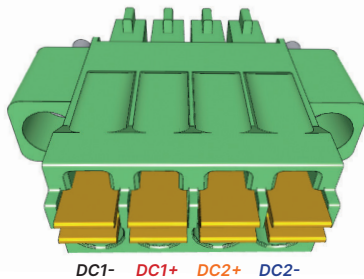
Power Installation

Warnings

- The redundant DC inputs support negative ground (+12V to +125V DC) and positive ground (-12V to -125V DC), 2.5A 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 12 AWG; the minimum is 22 AWG
- Consult a professional electrician to install the device and determine a suitable wire gauge and length

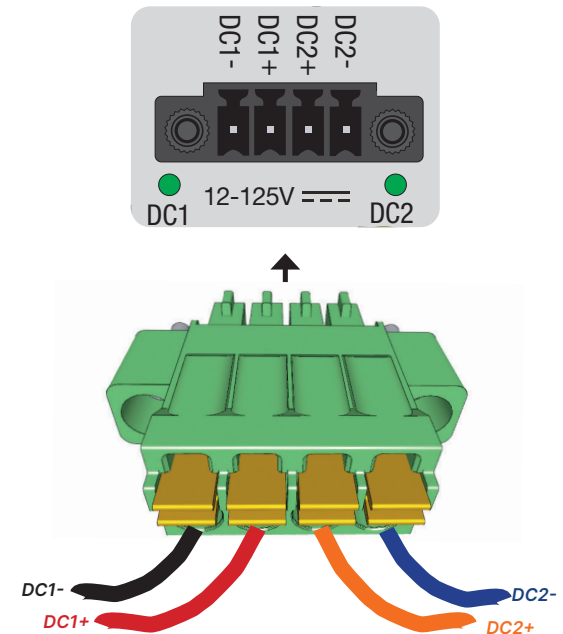
Connector Pinout

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. Terminal block does not support hot-plugging.



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

Wiring

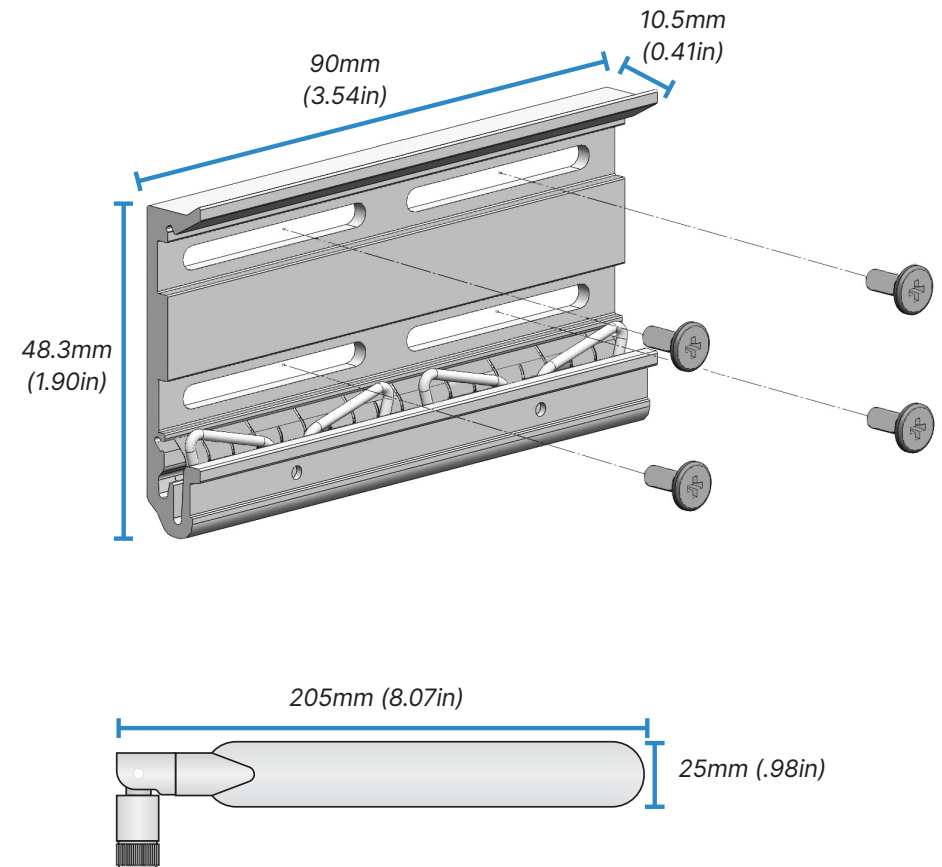
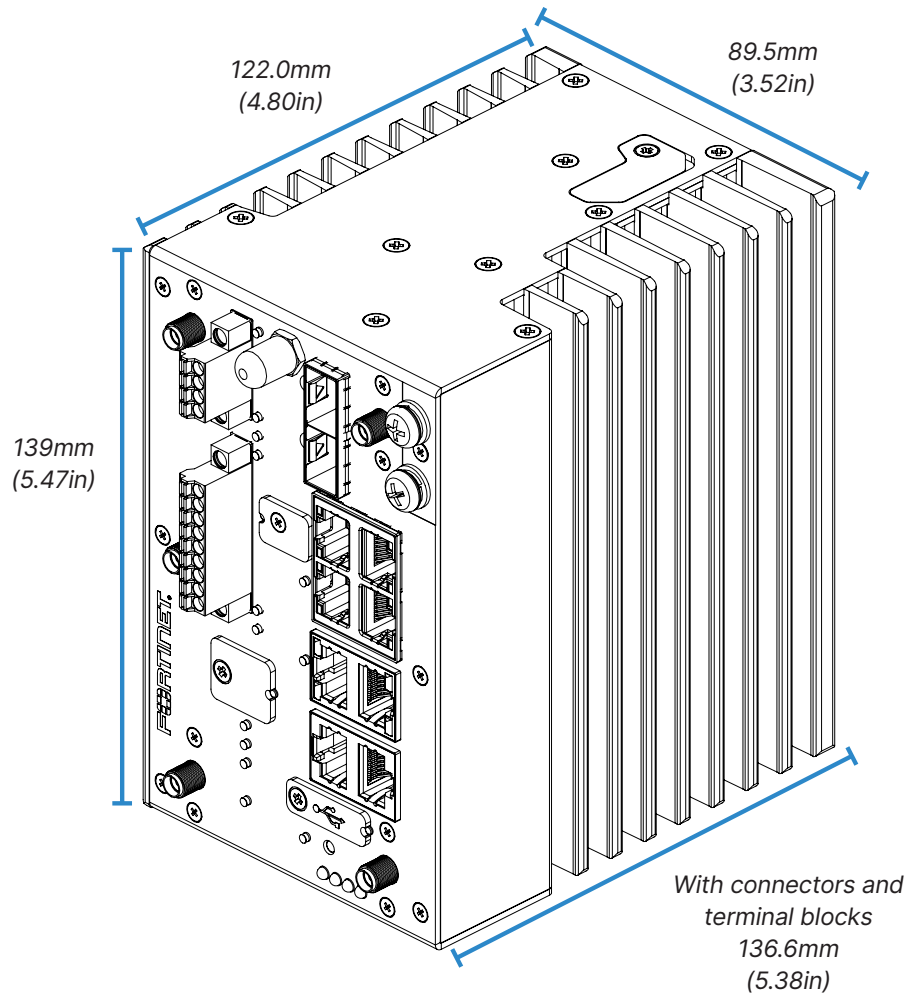


Grounding

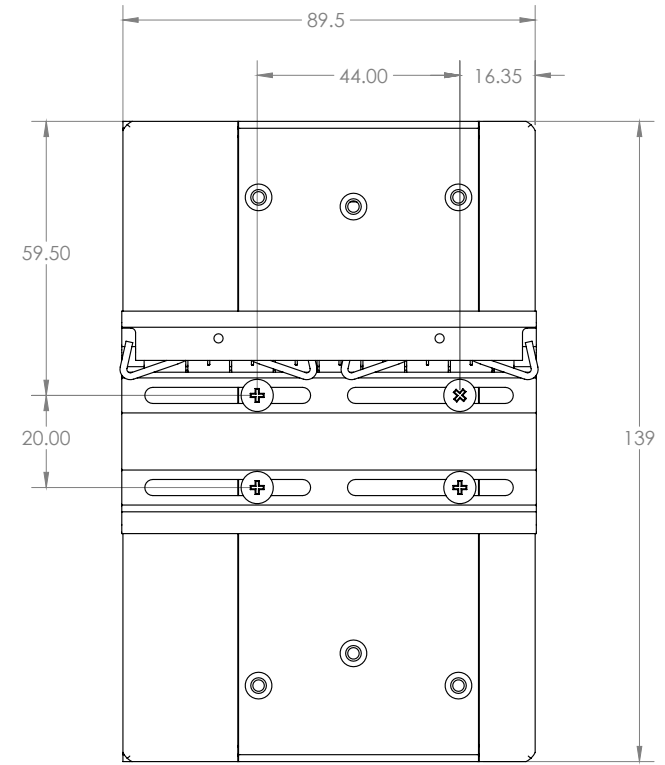
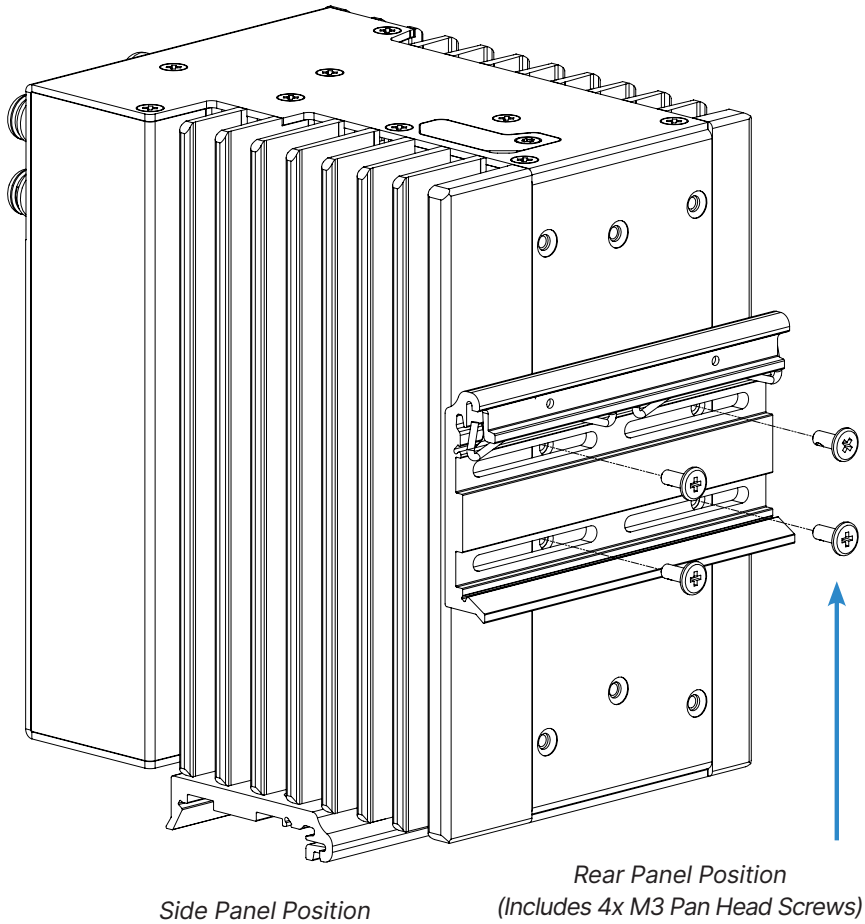
Optional but recommended, connect earth ground using the lug plate or grounding screw.

Dimensions

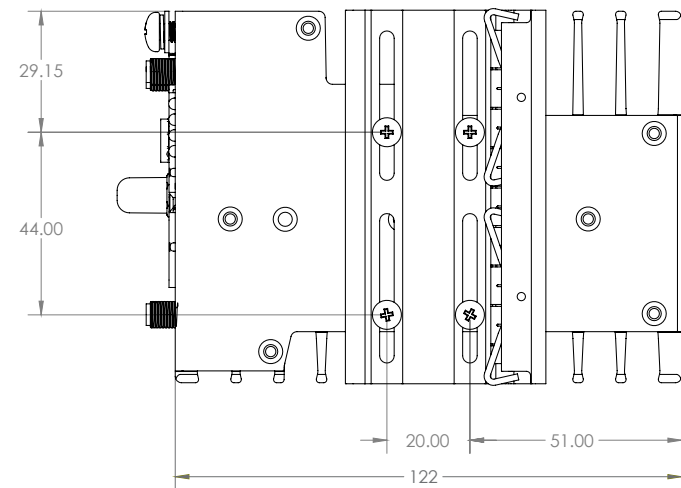
NOTE: Drawings are for dimensional purposes only. Refer to the following pages for connector details.



DIN Rail Mounting Bracket

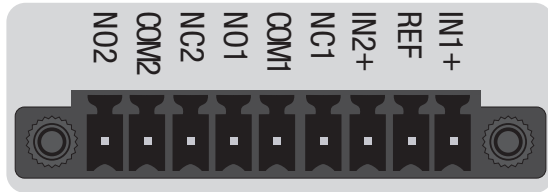


Rear Panel Position



Side Panel Position

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

Dual 5G Nano SIM Slot

SIM type is 4FF - Nano SIM. Industrial SIM card recommended for extreme temperature environments. Refer to the [datasheet](#) for supported operating temperatures. For wireless configuration, visit <https://docs.fortinet.com>



Micro SD Card Slot

Industrial SIM cards 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>



Setup

FortiExplorer Go



Install
FortiExplorer Go

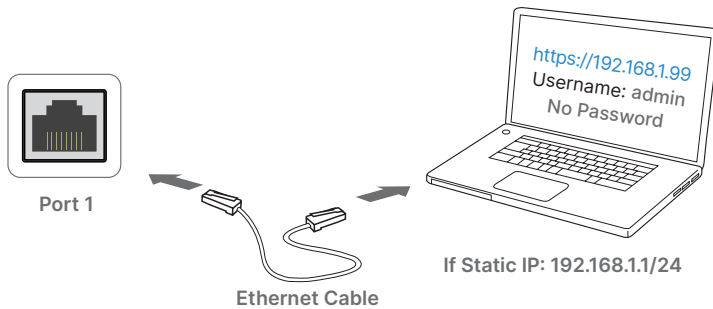


Enable
Bluetooth

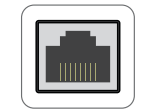


Follow the on-screen
instructions

GUI

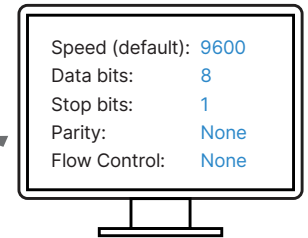


CLI



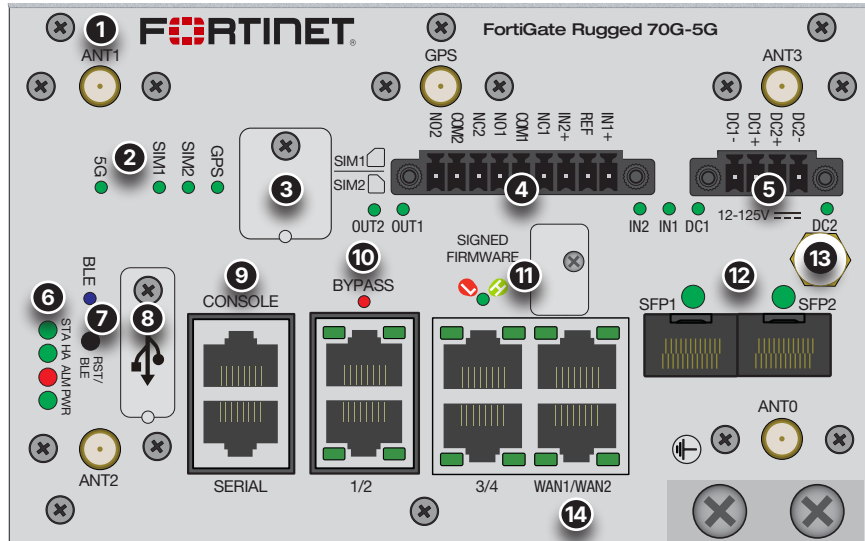
Console Port

USB Console Cable
(available for purchase)



Management Computer

Front FGR-70G-5G



1 Antenna Connector (5x SMA)

2 5G

- **Green:** 5G connected
- **Amber:** 4G/3G connected
- **Off:** Not connected

3 5G SIM slots (2x Nano 4FF)

4 Alarm Inputs (IN1, IN2)

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

5 Power Connectors (DC1, DC2) Alarm disabled by default

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

SIM1, SIM2

- **Green:** SIM slot active
- **Off:** SIM slot inactive

GPS

- **Green:** On
- **Off:** Off

Alarm Outputs (OUT1, OUT2)

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

6 STA

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

ALM

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

7 RST / BLE Press to enable BLE; press and hold for system reset during STA reset window

BLE

- **Blue:** BLE on
- **Flashing Blue:** BLE in discovery
- **Off:** BLE off

8 USB 2.0 (USB-A)

9 CONSOLE (RJ45) CLI management

10 Ports 1 to 4 (RJ45)

BYPASS Ports 1 & 2 only; bypass disabled by default

- **Green:** Bypass off
- **Red:** Bypass on

Speed (Left LED)

- **Green:** 1 Gbps
- **Amber:** 100 Mbps
- **Off:** 10 Mbps or not connected

HA

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

PWR

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

SERIAL (RJ45) Data port

11 SIGNED FIRMWARE BIOS Security Level

Controlled by Signed Firmware Switch (covered), see Admin Guide at <https://docs.fortinet.com>

- **High:** Unsigned firmware blocked (default)
- **Low:** Unsigned firmware allowed with a warning

12 SFP1 & SFP2 (SFP)

- **Green:** Link established
- **Flashing Green:** Data activity
- **Off:** No link established

13 BLE Antenna

14 WAN1 (Top) & WAN2 (Bottom) (RJ45)

Speed (Left LED)

- **Green:** 1 Gbps
- **Amber:** 100 Mbps
- **Off:** 10 Mbps or not connected

Activity/Link (Right LED)

- **Green:** Link established
- **Flashing Green:** Data activity
- **Off:** No link established

Dette produkt er i overensstemmelse med direktiv 2014/53/EU.

Dieses Produkt entspricht der Richtlinie 2014/53/EU.

See toode vastab direktiivile 2014/53/EL.

This product is in compliance with Directive 2014/53/EU.

Este producto cumple con la Directiva 2014/53/UE.

Το προϊόν αυτό συμμορφώνεται με την Οδηγία 2014/53/ΕΕ.

Ce produit est conforme à la Directive 2014/53/UE.

Ovaj proizvod je u skladu s Direktivom 2014/53/EU.

Questo prodotto è conforme alla Direttiva 2014/53/EU.

Sis produkts atbilst Direktīvai 2014/53/ES.

Sis gamtinys atitinka direktyvą 2014/55/ES.

Dan II produkti naveda konformni skladu Direktiva 2014/53/UE.

EE 3 termmerkingsblad 2014/2015 Hanjensvink

21. Practical 12: The effect of temperature on the rate of reaction

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

Note: The full Declaration of Conformity for this product is available in the link below:
<https://site.fortinet.com/ProductRegulatory/EU>

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

Standard	Frequency Range	Transmit Power
Bluetooth	2402–2480 MHz	Less than 10 dBm (EIRP)

Standard	Frequency Range	Transmit Power
WCDMA	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 8: 880-915MHz(Uplink); 925-960MHz(Downlink)	24 dBm (Conducted)
	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 3: 1710-1785MHz(Uplink); 1805-1880MHz(Downlink)	
	Band 7: 2500-2570MHz(Uplink); 2620-2690MHz(Downlink) Band 8: 880-915MHz(Uplink); 925-960MHz(Downlink)	
	Band 20: 832-862MHz(Uplink); 791-821MHz(Downlink) Band 28: 703-748MHz(Uplink); 758-803MHz(Downlink)	
LTE	Band 34: 2010-2025MHz Band 38: 2570-2620MHz Band 40: 2300-2400MHz Band 41: 2496-2690MHz	24 dBm (Conducted)
	Band 42: 3400-3600MHz Band 43: 3600-3800MHz	
	Band 41: 2496-2690MHz	
	h1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) h3: 1710-1785MHz(Uplink); 1805-1880MHz(Downlink) h7: 2500-2570MHz(Uplink); 2620-2690MHz(Downlink) h8: 880-915MHz(Uplink); 925-960MHz(Downlink) h20: 832-862MHz(Uplink); 791-821MHz(Downlink) h28: 703-748MHz(Uplink); 758-803MHz(Downlink)	
5G NR	h38: 2570-2620MHz h40: 2300-2400MHz h41: 2496-2690MHz h42: 3400-3600MHz h43: 3600-3800MHz	24 dBm (Conducted)
	h41: 2496-2690MHz h77: 3300-4200MHz h78: 3300-3800MHz	
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	h41: 2496-2690MHz h77: 3300-4200MHz h78: 3300-3800MHz	

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.

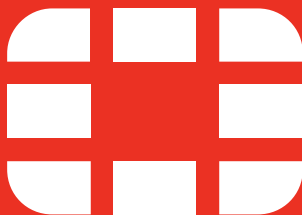
The full Declaration of Conformity for this product is available in the link below:
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電磁波曝露量MPE標準值1.0 mW/cm²，送測產品實測值為：0.169 mW/cm²，建議使用時至少距 人體 20 cm 為避免電磁干擾，本產品不應安裝或使用於住宅環境。

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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