

QuickStart Guide

FortiExtenderWAN 50G

FEW-50G

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/>

FortiEdge Cloud

Experience simplified cloud deployment, zero-touch provisioning, centralized management, and automated reporting at <https://fortiedge.forticloud.com>

FortiSASE ThinEdge

Secure thin edge locations with enterprise-grade protection using FortiExtender as a FortiSASE LAN extension in micro-branch deployments. For details, visit <https://www.fortinet.com/products/sase>

Quick Start Guide Online

Please refer to the online version for the most current and up-to-date information about your device by scanning the QR code below.

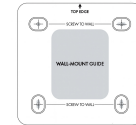


Package Contents

FortiExtenderWAN 50G FEW-50G



1x QuickStart Guide



1x Drill Template Sticker



1x FortiExtenderWAN Device
(FEW-50G)



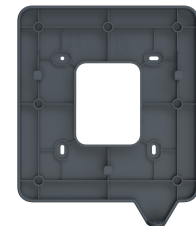
Set of Anchors and Screws
4x Wall Mount Anchors
4x Wall Mount Screws
1x Locking Screw



4x Rubber Feet



1x 12VDC 2A Power Adapter



1x Wall Mount Bracket

Product Overview

FortiExtenderWAN 50G-AM/-EA is a 5G/LTE WAN gateway device that can operate independently or be managed by FortiGate for high-speed 5G/LTE connectivity.

It has a single 5G/LTE module, with two NanoSIM slots and one eSIM, and supports Max. 7.01 Gbps (DL)/ 2.5 Gbps (UL) @5G Sub-6 SA mode, Max. 5.67 Gbps (DL)/ 1.46 Gbps (UL) @5G Sub-6 NSA mode, Max. 1.6 Gbps (DL)/ 211 Mbps (UL) @ LTE mode.

It features two 5G/2.5G/1G/100M Ethernet ports, one USB2.0 Type A port with 5V/0.5A power output, one RJ45 console port, and BT integrated in the device.

It can be powered either by 12VDC/2A power adapter or PoE 802.3at (25.5W).

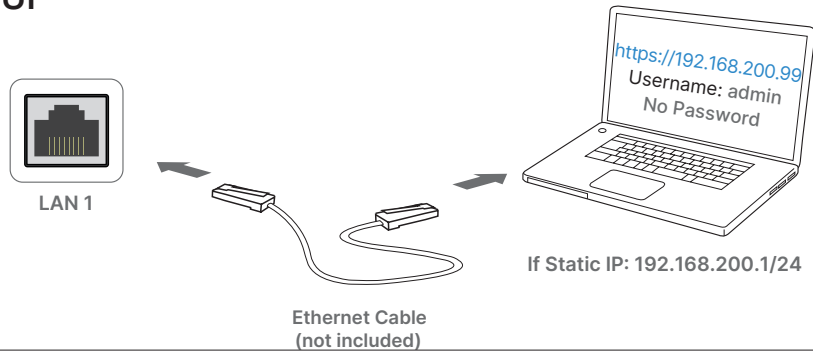
Model	Modem
FEW-50G-AM	One NetPrisma HMT89-LD 5G/LTE module for North American region.
FEW-50G-EA	One NetPrisma HMT89-EPV 5G/LTE module for Europe, Mideast, and Asia (EMEA) region.

Setup

Power the device on the DC socket with the included 12VDC power adapter. The device can also be powered on the LAN2/POE port with an 802.3at PoE injector, FortiGate PoE port, or a FortiSwitch PoE port.

Choose one of the following methods to setup your device.

GUI

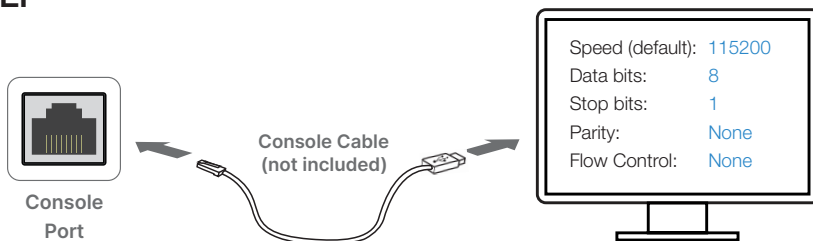


Default Logins

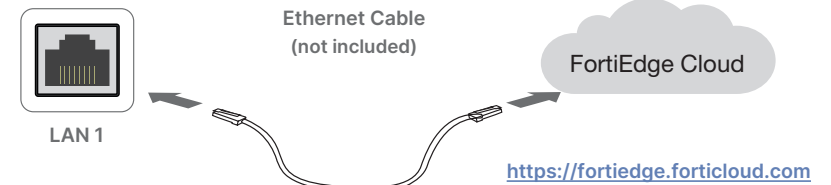


https://192.168.200.99
Username: **admin**
Password: **leave blank**

CLI



FortiEdge Cloud



Note: Once registered and logged to FortiEdge Cloud, your device will automatically appear in **Inventory**.



<https://fortiedge.forticloud.com>
Username: **user-defined**
Password: **user-defined**

FortiSASE LAN Extension

To configure your FortiExtender as a FortiSASE LAN Extension, refer to the Edge Device and Prerequisites sections in the FortiSASE Admin Guide at <https://docs.fortinet.com/product/fortisase>

SIMs Installation

Insert NanoSIM card(s) (4FF) in the direction indicated on the SIM card slot cover. See the Admin Guide for configuration.

<https://docs.fortinet.com/product/fortiextender/>



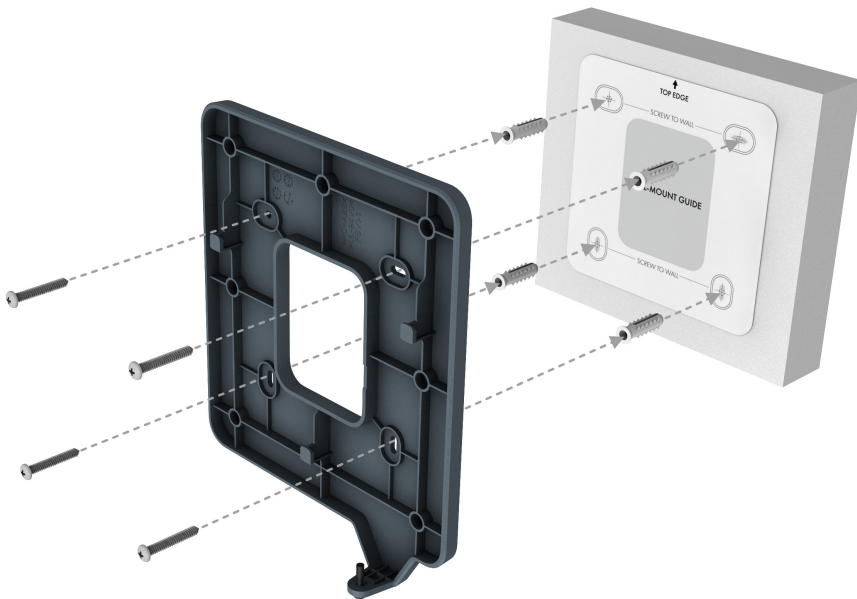
Desktop Installation

- 1 Attach the rubber feet to the four corners on the bottom of the device.
- 2 Place the device on a desk or flat surface with good 5G/LTE signal reception.



Wall Mount Installation

- 1 Use the drill template sticker to mark and drill the pilot holes.
- 2 Insert the anchors into the holes.
- 3 Secure the wall mount bracket using the provided screws.



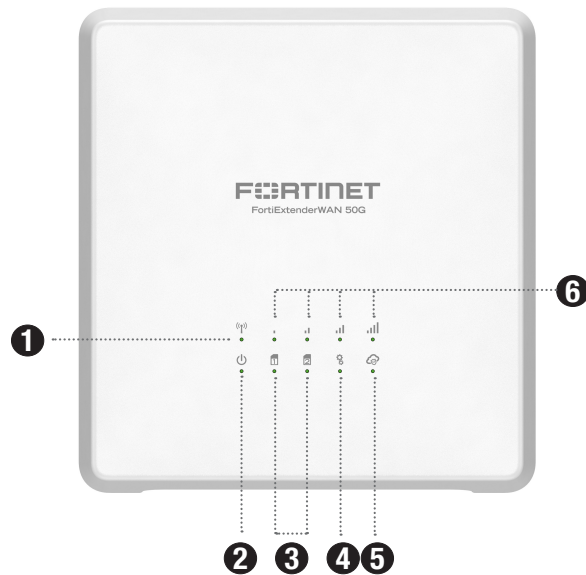
- 4 Align the mounting slots of the device with the device hooks on the wall mount bracket.
- 5 Gently press the device onto the wall mount bracket, then slide the device down.



- 6 Secure the device to the wall mount bracket using the provided locking screw.



FEW-50G Front View



1 WWAN (Blue: 5G, Green: LTE)

- **Solid Blue/Green:** 5G/LTE connected
- ◐ **Slow Flashing Blue/Green:** 5G/LTE connecting
- ◑ **Fast Flashing Blue/Green:** SIM or firmware error
- **Off:** 5G/LTE not connected

2 Power LED (Green/Amber)

- **Solid Green:** Device is on
- ◐ **Flashing Green:** Booting up
- **Solid Amber:** System error
- **Off:** Device is off

3 SIM1 and SIM2 (Green)

- **Single SIM LED Solid Green:** Related physical SIM card inserted
- ◐ **Single SIM LED Flashing Green:** Related physical SIM card is currently active
- ◑ **Both SIM1 and SIM2 Flashing Green:** eSIM card is currently active
- **Off:** SIM card not inserted

4 Management (Blue)

- **Solid Blue:** FortiGate or FortiEdge Cloud managed
- ◐ **Flashing Blue:** Connecting to a managed device
- **Off:** Stand-alone mode

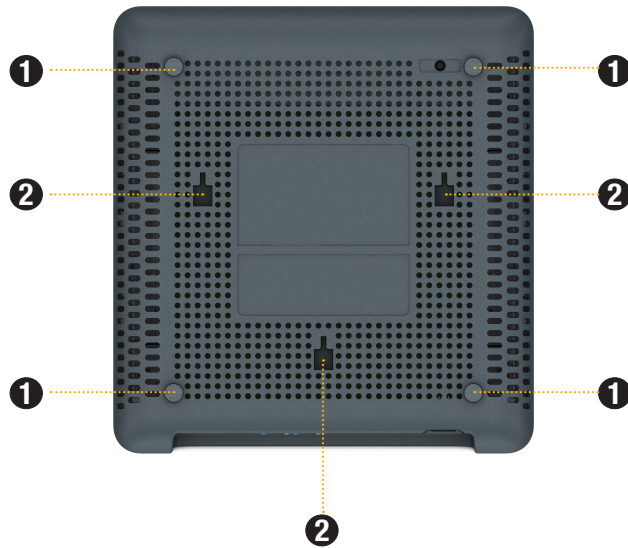
5 FortiSASE/LAN Extension (Blue)

- **Solid Blue:** Connected
- ◐ **Slow Flashing Blue:** Connecting
- ◑ **Fast Flashing Blue:** Connection error
- **Off:** Not connected

6 Signal Strength (Blue: 5G, Green: LTE)

- ▬▬▬▬ **Four Bars:** >75%
- ▬▬▬ **Three Bars:** 50% to 75%
- ▬▬ **Two Bars:** 25% to 50%
- ▬ **One Bar:** <25%

FEW-50G Rear View



- 1** Rubber Feet Grooves
- 2** Wall Mount Bracket Hanging Slots

FEW-50G Bottom View



- 1** SIM Slot Cover for SIM Card1 and SIM Card2
- 2** Bluetooth Button and LED
 - **Solid Green:** Discovery mode
 - ⚙ **Flashing Blue:** Pairing
 - **Solid Blue:** Connected (LED will turn off after five seconds)
 - **Off:** BT is off
- 3** USB 2.0 (Type A)
- 4** CONSOLE Port (RJ45). CLI management
- 5** LAN Ports 1 to 2 (RJ45) and LEDs
 - **Solid Blue:** 5/2.5 Gbps connection
 - ⚡ **Flashing Blue:** 5/2.5 Gbps data activity
 - **Solid Green:** 1000/100 Mbps connection
 - ⚡ **Flashing Green:** 1000/100 Mbps data activity
 - **Off:** Not connected
 - POE** Port 2 PoE PD 802.3at
- 6** Device Locking Screw Hole
- 7** Reset/Default. Press and hold:
 - 1 to 5 seconds: Reset device
 - 5 to 20 seconds: Restore factory settings
 - 20 to 40 seconds: Switch device between Standalone mode (Management LED and Cloud LED are cycled on) and FGT/Cloud mode (Management LED and Cloud LED are off)
 - Others: No action
- 8** 12VDC/2A Input Socket

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

Caution: This equipment is to be used in a Network Environment 0 per IEC TR 62102. 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 62102. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12Vdc, 2A or by 54Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12Vdc, 2A nominal marqué LPS ou Classe 2 ou par une source d'alimentation par Ethernet de 54Vdc (PoE).

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 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Innovation, Science and Economic Development (ISED) – 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.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSSI(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 soumise 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.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and 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 20 cm de distance entre la source de rayonnement et votre corps.

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 (ses) antenne(s) ne doivent pas être installés ou utilisés conjointement avec une autre antenne ou un autre émetteur, sauf conformément aux procédures de produit multi-émetteurs de l'IC.

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.



This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body.

Simplified EU Declaration of Conformity

Hereby, Fortinet, declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://site.fortinet.com/ProductRegulatory/EU>

Български

Този продукт е в съответствие с Директива 2014/53/ЕС.

Česky

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

Dansk

Dette 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/EU.

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/UE.

Latviski

Šis produkts atbilst Direktīvai 2014/53/EE.

Lietuvių

Šis gaminytis atitinka direktyvą 2014/53/ES.

Malta

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/EU.

Norsk

Dette 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/EÚ.

Slovensko

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

Suomi

Tämä tuote on direktiivin 2014/53/EU mukainen.

Svenska

Denna produkt överensstämmer med direktiv 2014/53/EU.

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	Transmit Power
Bluetooth	2402-2480MHz	less than 10 dBm (EIRP)
WCDMA	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 8: 880-915MHz(Uplink);925-960MHz(Downlink)	25 dBm (Conducted)
LTE	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) Band 32: 1452-1496 MHz (Downlink) Band 38: 2570-2620MHz Band 40: 2300-2400MHz Band 42: 3400-3600MHz Band 43: 3600-3800MHz	25 dBm (Conducted)
	Band 41: 2496-2690MHz	28 dBm (Conducted)
5G NR	n1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) n3: 1710-1785MHz(Uplink); 1805-1880MHz(Downlink) n7: 2500-2570MHz(Uplink); 2620-2690MHz(Downlink) n8: 880-915MHz(Uplink);925-960MHz(Downlink) n20: 832-862MHz(Uplink); 791-821MHz(Downlink) n28: 703-748MHz(Uplink); 758-803MHz(Downlink) n38: 2570-2620MHz n40: 2300-2400MHz n75: 1432-1517MHz (Downlink) n76: 1427-1432 (Downlink)	25 dBm (Conducted)
	n41: 2496-2690MHz n77: 3300-4200MHz n78: 3300-3800MHz	28 dBm (Conducted)
	n41 (MIMO): 2496-2690MHz n77 (MIMO): 3300-4200MHz n78 (MIMO): 3300-3800MHz	31 dBm (Conducted)
GNSS	1164-1215MHz 1559-1610MHz	/

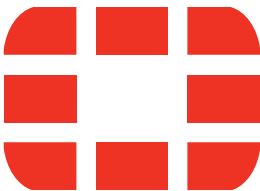
UK Conformity Assessed (UKCA) – United Kingdom

This equipment should be installed and operated with minimum distance of 20cm between the radiator and 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: <https://site.fortinet.com/ProductRegulatory/UK>

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

Standard	Frequency Range	Transmit Power
Bluetooth	2402-2480MHz	less than 10 dBm (EIRP)
WCDMA	Band 1: 1920-1980MHz(Uplink); 2110-2170MHz(Downlink) Band 8: 880-915MHz(Uplink);925-960MHz(Downlink)	25 dBm (Conducted)
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GNSS	1164-1215MHz 1559-1610MHz	/



May 19, 2026

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