

WAVECOM

IoT GATEWAY

STARTUP GUIDE

5G
NATIVE



eSIM



DOWNLOAD

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1 Setup

1.1 Insert Nano SIM card(s)

The Wavecom IoT Gateway has up to two* slots available for SIM cards: SIM 0 and SIM 1. To release a SIM tray, press to release. You will hear a click and the tray will come out. Insert a Nano SIM card into the tray and press it back into the holder until you hear a click.

* Can vary depending on the model:

Single Modem - Only SIM 1 available

Dual Modem - SIM 0 and SIM 1 available

eSIM



1.2 Connect the antennas

The Wavecom IoT Gateway has a set of antenna connectors that are standard SMA or RP-SMA*.

Connect the desired antennas to the respective connectors:

- WLAN (Wi-Fi): RP-SMA
- WWAN (4G/5G): SMA
- GNSS: SMA

* Can vary depending on the model

Antennas are not supplied with the router by default.



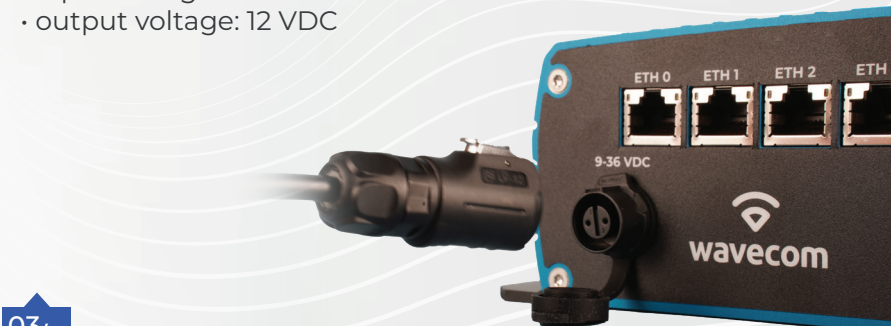
1.3 Power Connection

To power up the Wavecom IoT Gateway, a stabilized DC power supply should be used. The unit will come with a quick lock plug with locking latch that has to be attached to the chosen power supply.

Input DC voltage may range between 9 to 36V (recommended power 36W).

As an option, you can purchase a power supply for the gateway with the following specifications:

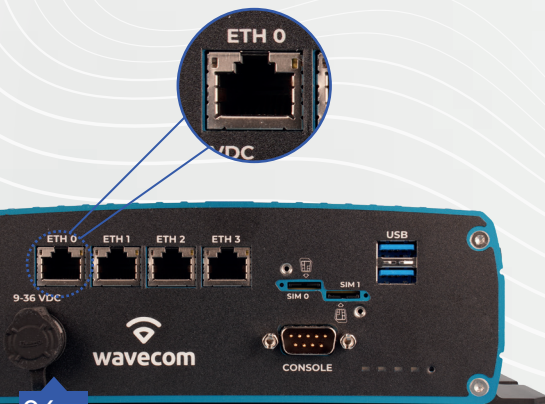
- input voltage: 100-240 VAC
- output voltage: 12 VDC



1.4 Ethernet Ports

The Wavecom IoT Gateway has four ethernet ports available, that can be used for connecting to physical devices.

ETH0 is, by default, set as **WAN** (DHCP client enabled). The remaining ports can be used as **LAN ports (ETH1-ETH3)** with a DHCP server offering addresses between 10.20.0.2-250.



1.5 Startup

In the process of turning on, it is expected the following behavior:

Right LED - Power - Static blue or blinking when there's storage activity.

Remaining 3 LEDs - Activity

- Yellow when the device is booting (if it remains more than 15 min, it can indicate an error).
- Green when the equipment is ready to be used.

Disclaimer:

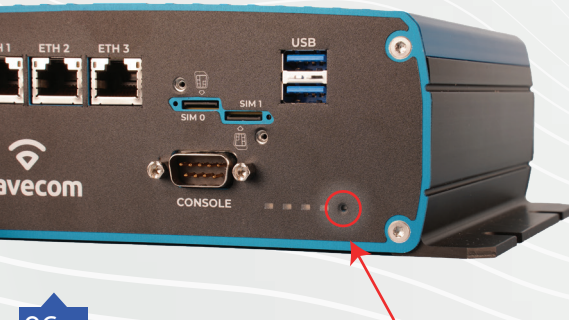
During the upgrade process, the status LED's will change to blue while in progress and will turn green when the upgrade is finished. The device may reboot afterwards. During the upgrade process all functionalities will not be available.

1.6 Reset Button

The reset button is located at the bottom right of the front of the device, as shown in the following picture.

Press the button lightly with a thin metal pin through the hole.

Function: Clicking and releasing the button performs a factory reset.



WARNING: By clicking the reset button, it will permanently erase all configurations. This action is irreversible. Please contact your dealer before.

2 Gateway Access and Information

Ethernet Connection

Using an ethernet cable, connect a computer to the Wavecom IoT Gateway on any ethernet LAN port (ETH1-ETH3).

The computer will obtain an address on the network 10.20.0.0/24.

Wi-Fi Connection

By connecting to the Wi-Fi SSID “wavecomconfig” the computer will obtain an address on the network 10.20.0.0/24

You can now establish a HTTPS session to the Gateway using the following information:

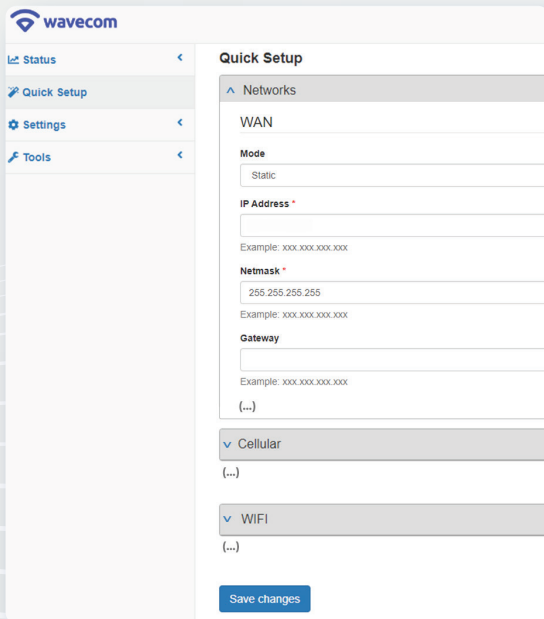
The Wavecom IoT Gateway can be accessed from a web browser through its local web interface.

- URL: <https://10.20.0.1>
- User: admin
- Password: wavesys

3 Configuration Setup

Accessing Gateway from its local page allows you to quickly configure the most common settings:

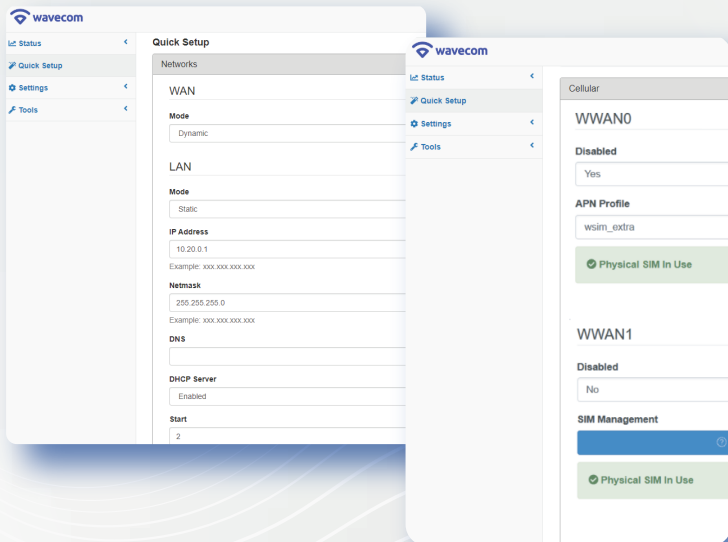
- Networks
- Cellular
- Wi-Fi



The screenshot shows the 'Quick Setup' interface of the wavecom device. On the left is a sidebar with navigation links: 'Status', 'Quick Setup' (selected), 'Settings', and 'Tools'. The main content area is titled 'Quick Setup' and contains three expandable sections: 'Networks', 'Cellular', and 'WIFI'. The 'Networks' section is currently expanded, showing 'WAN' settings. These settings include a 'Mode' dropdown set to 'Static', an 'IP Address' field with an example 'xxx.xxx.xxx.xxx', a 'Netmask' field with an example '255.255.255.255', and a 'Gateway' field with an example 'xxx.xxx.xxx.xxx'. Below these fields is a 'Save changes' button. The 'Cellular' and 'WIFI' sections are collapsed, each showing a '(...)' link. The wavecom logo is visible in the top left corner of the interface.

3 Configuration Setup

Networks and Cellular:



*Note: The figure above shows the network and cellular configuration.

Every SIM card must have the right IPV4 APN set in order to successfully connect.

3 Configuration Setup

eSIM & Physical SIM Management

☐ Current SIM: ☒ Physical SIM In Use

Physical SIM
APN Profile *
[Dropdown menu with "T-Mobile" selected] [Menu icon] [Add icon]

eSIM Profiles

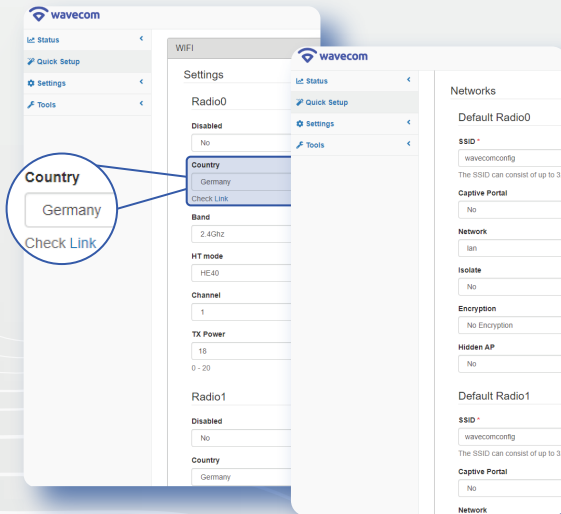
Name	ICCID	State	Provider	Profile Name	APN Profile	Actions
-	89013103300000000000	Inactive	Bell-Flourish	Bell-Flourish	Select APN [Menu icon] [Add icon]	[Enable icon] Enable
-	89013103300000000000	Inactive	POST	POST 528	Select APN [Menu icon] [Add icon]	[Enable icon] Enable
-	89013103300000000000	Inactive	POST	POST 528	Select APN [Menu icon] [Add icon]	[Enable icon] Enable

[Close] [Add eSIM]

This interface allows you to switch between the physical SIM card and available eSIM profiles. You can assign specific APN profiles to each SIM and enable/disable eSIMs as needed to manage your network connectivity.

3 Configuration Setup

Wi-Fi Settings:



*Note: Image above represents Radio 0 configuration

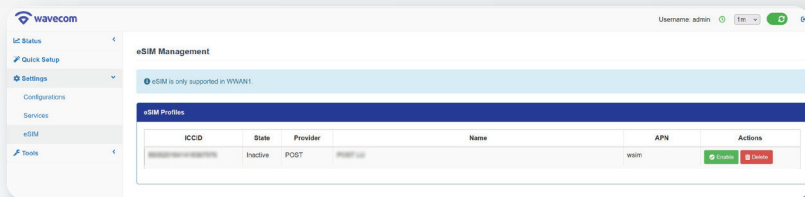
*Note: Settings menu allows for advanced configurations not present in this quick guide.

*Disclaimer: Please ensure you select your correct country to guarantee optimal Wi-Fi performance and compliance with local legal

4 eSIM Management

To facilitate support, each router features a pre-installed eSIM. This enables a **Rescue Mode** for emergencies, granting our technical team remote access to assist you with any urgent configurations.

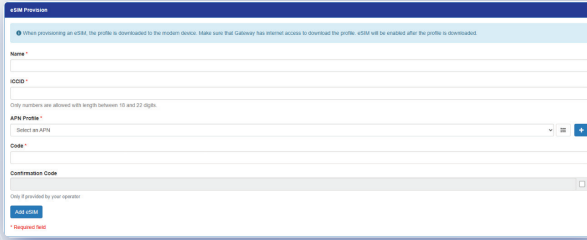
An eSIM profile was set on the router.
This eSIM has limited data plan and should only be used for configuration purposes.



Please get in touch with your reseller or with
support@wavecom.com

4 eSIM Management

This picture shows how to provision an eSIM.



The image shows a screenshot of an 'eSIM Provision' web form. At the top, a blue header bar contains the title 'eSIM Provision'. Below the header, a light blue box contains a note: 'When provisioning an eSIM, the profile is downloaded to the modern device. Make sure that Gateway has internet access to download the profile. eSIM will be enabled after the profile is downloaded.' The form itself has several input fields: 'Name *', 'ICCID *', 'APN Profile *' (with a dropdown menu and a blue arrow icon), 'Code *', and 'Confirmation Code'. Below the 'Confirmation Code' field, there is a small checkbox and the text 'Only if provided by your operator'. At the bottom left of the form is a blue button labeled 'Next step'. At the bottom right, there is a red error message: '* Required field'.

**Internet
connection is
required for
eSIM provisioning**

STARTUP GUIDE

Inserting:

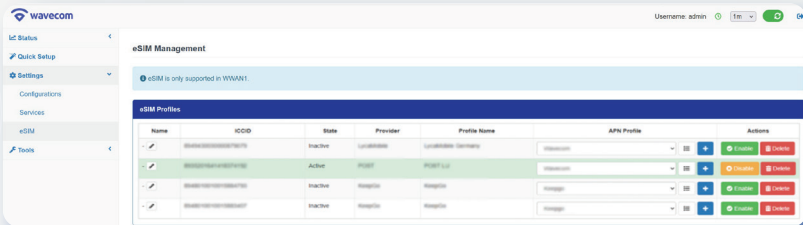
- **ICCID (Circuit Card Identifier).** It's a unique 18 to 22-digit number. It must be provided by the operator and is required for eSIM provisioning.
- **APN Profile (Access Point Name)** - Every eSIM must have the right APN set in order to successfully connect.
- **Code - Activation code** - Allows to be activated in the telecom network. It must be provided by the operator (QR-Code or line code).*
- **Configuration Code** - An optional security code provided by some carriers to authorize the eSIM activation. Leave this blank if your operator did not provide one.

Remark: Due to potential network constraints, eSIM provisioning may require several attempts before completing successfully. Please retry if the process fails.

***Note:** Do not scan the QR code directly with your smartphone. We recommend the QR & Barcode Scanner app by GammaPlay.

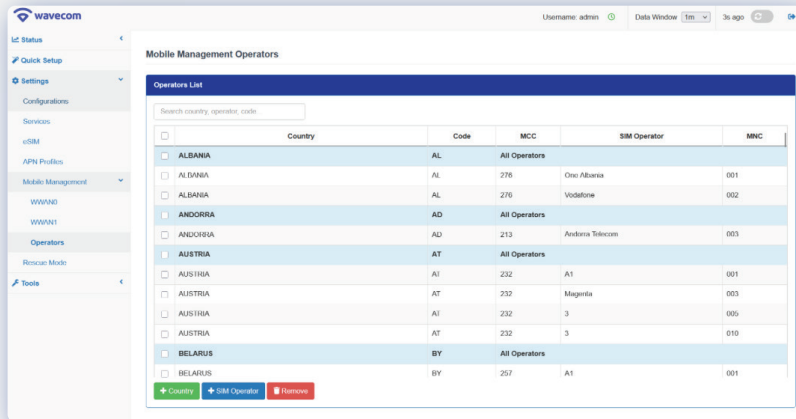
4 eSIM Management

Shows the eSIM Profiles provisioned and which one is active.



Allows to enable/disable and delete the eSIM profiles.

Remark: When all eSIM profiles are disabled, the profile of the physical SIM1 (Modem1) will be enabled.



Mobile Management Operators

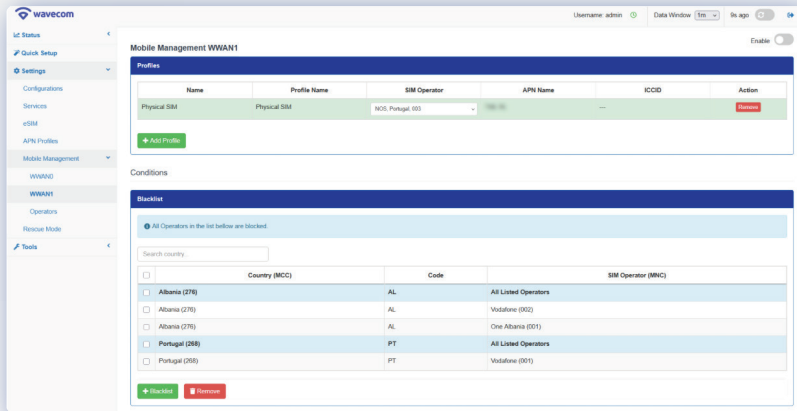
Operators List

Search country, operator, code:

☐	Country	Code	MCC	SIM Operator	MNC
☒	ALBANIA	AL	All Operators		
☐	ALBANIA	AL	278	One Albania	001
☐	ALBANIA	AL	276	Vodafone	002
☒	ANDORRA	AD	All Operators		
☐	ANDORRA	AD	213	Andorra Telecom	003
☒	AUSTRIA	AT	All Operators		
☐	AUSTRIA	AT	232	A1	001
☐	AUSTRIA	AT	232	Magenta	003
☐	AUSTRIA	AT	232	3	005
☐	AUSTRIA	AT	232	3	010
☒	BELARUS	BY	All Operators		
☐	BELARUS	BY	257	A1	001

+ Country + SIM Operator Remove

This section allows you to manage the list of supported network operators and countries. You can add, edit, or remove operator configurations, including MCC (Mobile Country Code) and MNC (Mobile Network Code) details, to ensure the device correctly identifies and connects to specific carriers.



The screenshot displays the 'Mobile Management WWAN1' interface. The left sidebar contains navigation options: 'LC Status', 'Quick Setup', 'Settings' (expanded), 'Configurations', 'Services', 'eSIM', 'APN Profiles', 'Mobile Management' (expanded), 'WWAN1' (selected), 'Operators', 'Rescue Mode', and 'Tools'. The main content area is divided into two sections: 'Profiles' and 'Conditions'.

Profiles Section:

Name	Profile Name	SIM Operator	APN Name	ICCID	Action
Physical SIM	Physical SIM	NOS, Portugal (00)	...	...	Delete

Below the table is a green '+ Add Profile' button.

Conditions Section:

A message states: 'All Operators in the list below are blocked.'

Search country:

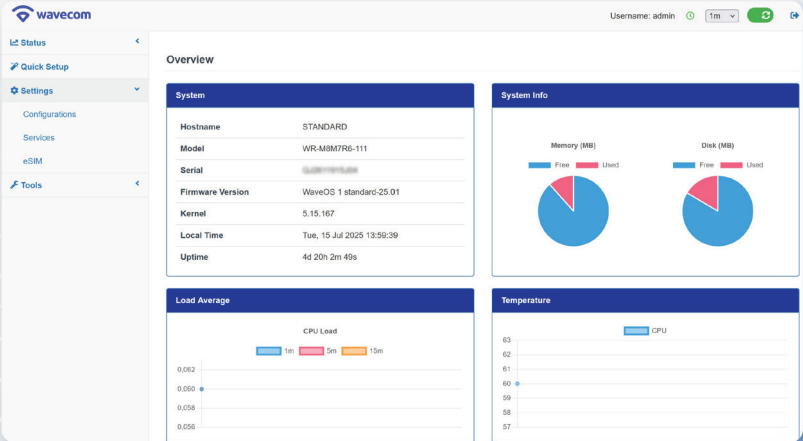
☐	Country (MCC)	Code	SIM Operator (MNC)
☒	Albania (276)	AL	All Listed Operators
☐	Albania (276)	AL	Vodafone (002)
☐	Albania (276)	AL	One Albania (001)
☒	Portugal (268)	PT	All Listed Operators
☐	Portugal (268)	PT	Vodafone (001)

At the bottom of the Blacklist section are two buttons: '+ Blacklist' (green) and '- Remove' (red).

This page allows you to manage profiles and connection restrictions for a specific cellular interface. You can assign SIM profiles and use the Blacklist section to prevent the device from connecting to specific countries or network operators.

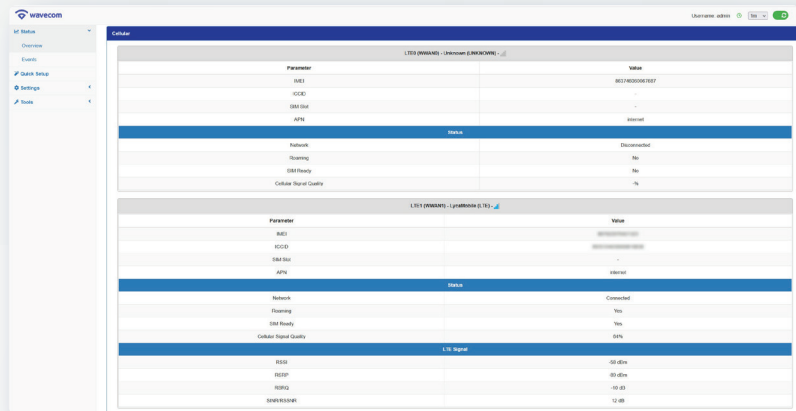
6 System Status Overview

This page shows all the status information.



7 Cellular Status Overview

This page shows the status of both modems for cellular networks connectivity (4G, 5G).



Parameter	Value
IMEI	8612-HC00000-1001
ICCID	
SIM Slot	-
APN	internet
Status	
Network	Disconnected
Roaming	No
SIM Ready	No
Cellular Signal Quality	-%

Parameter	Value
IMEI	8612-HC00000-1001
ICCID	
SIM Slot	-
APN	internet
Status	
Network	Connected
Roaming	Yes
SIM Ready	Yes
Cellular Signal Quality	44%

LTE1 Signal	
RSSI	-50 dBm
RSCP	-50 dBm
RSRQ	-10 dB
SINR (dB)	12 dB

Remark: The cellular information shown may vary depending on the hardware model.

8 Complementary Information

Any extra information not presented on this guide should be address to your local reseller/distributor or the Wavecom (**support@wavecom.com**) support for evaluation and response.

9 Connection to IoT Manager

The Wavecom IoT Gateway is linked to a centralized platform, the IoT Manager, that allows several features like device monitoring and location.

To have access to your domain/group please get in touch with your reseller or with **support@wavecom.com**

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Waste Electrical and Electronic Equipment (WEEE) disposal



This product shall not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

For more information, please contact your local waste disposal service or visit EU WEEE Directive for more details on how to responsibly recycle this product.

About us:

Wavecom Technologies is a European manufacturer with 25 years of experience, specializing in advanced communications engineering and the development of wireless networks and IP-based solutions.

Our main focus is on providing high-performance, resilient connectivity solutions especially designed as onboard systems for buses and trains, ensuring reliable communications even in the most demanding transport environments.

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