



# 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**



## 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:

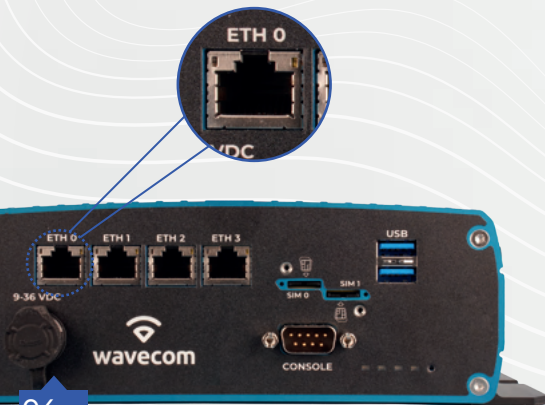
- input voltage: 100-240 VAC
- output voltage: 12 VDC



## 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:**

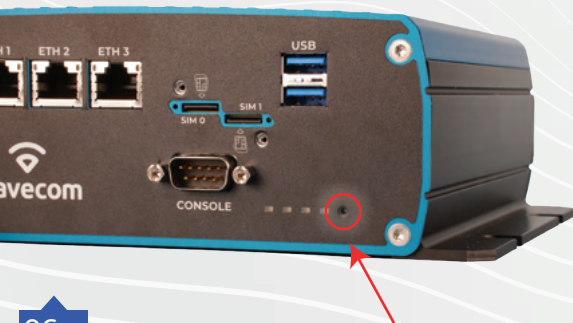
During the upgrade process, the status LED's will change to blue while in progress and will turn green when the upgrade is finished. The device may reboot afterwards. During the upgrade process all functionalities will not be available.

## 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.

### 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:

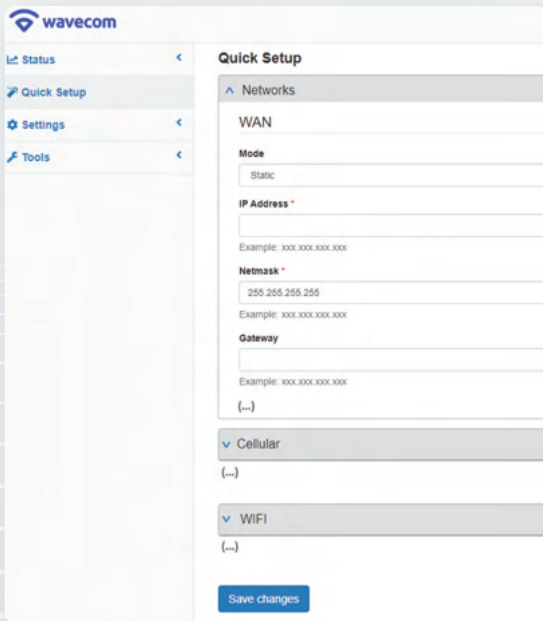
The Wavecom IoT Gateway can be accessed from a web browser through its local web interface.

- 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:

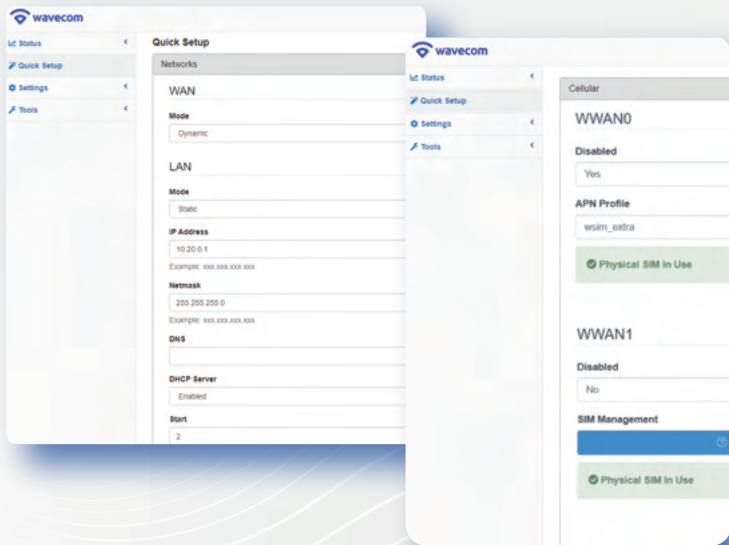
- Networks
- Cellular
- Wi-Fi



The screenshot shows the 'Quick Setup' page in the wavecom web interface. On the left is a navigation menu with 'Status', 'Quick Setup', 'Settings', and 'Tools'. The main content area is titled 'Quick Setup' and has a 'Networks' section expanded. Under 'Networks', there is a 'WAN' section with a 'Mode' dropdown set to 'Static'. Below this are input fields for 'IP Address \*' (with an example of xxx.xxx.xxx.xxx) and 'Netmask \*' (with an example of 255.255.255.255). A 'Gateway' field is also present with an example of xxx.xxx.xxx.xxx. Below the 'WAN' section are sections for 'Cellular' and 'WIFI', both currently collapsed. A 'Save changes' button is located at the bottom of the form.

# 3 Configuration Setup

Networks and Cellular:

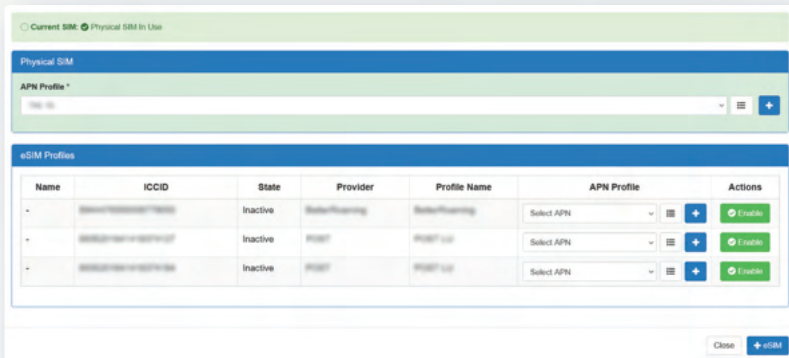


\*Note: The figure above shows the network and cellular configuration.

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

# 3 Configuration Setup

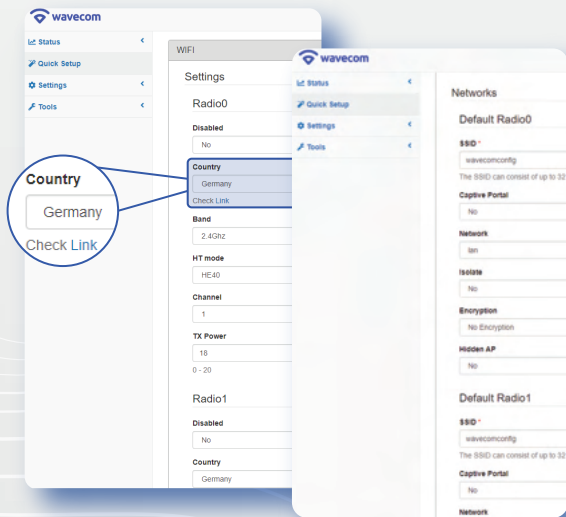
## eSIM & Physical SIM Management



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

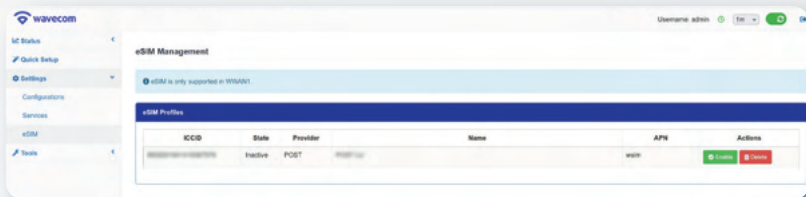
\*Note: Settings menu allows for advanced configurations not present in this quick guide.

\*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](mailto:support@wavecom.com)

## 4 eSIM Management

This picture shows how to provision an eSIM.



The screenshot shows a web form titled "eSIM Provision" with a blue header. Below the header is a light blue informational message: "When provisioning an eSIM, the profile is downloaded to the mobile device. Make sure that Gateway has internet access to download the profile. eSIM will be installed after the profile is downloaded." The form contains several input fields: "Name" (text), "ICCID" (text), "APN Profile" (dropdown menu with a blue plus icon), "Code" (text), and "Confirmation Code" (text). Below the "Confirmation Code" field is a small note: "Only applicable to some carriers." At the bottom left of the form is a blue "Next step" button. A red asterisk and "Required field" text are visible at the bottom left of the form area.

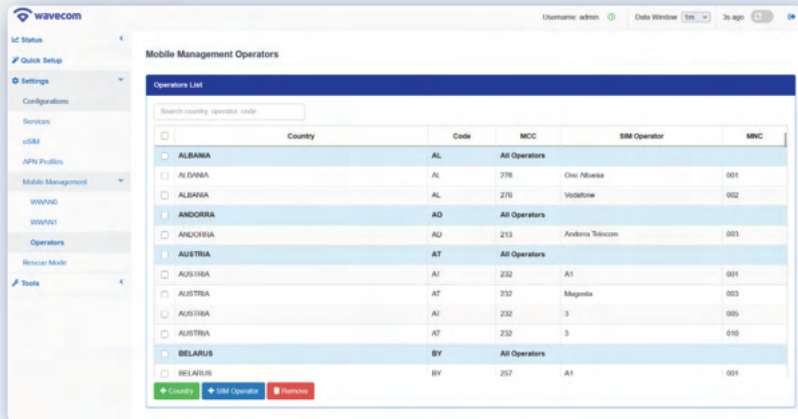
### Inserting:

- **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.

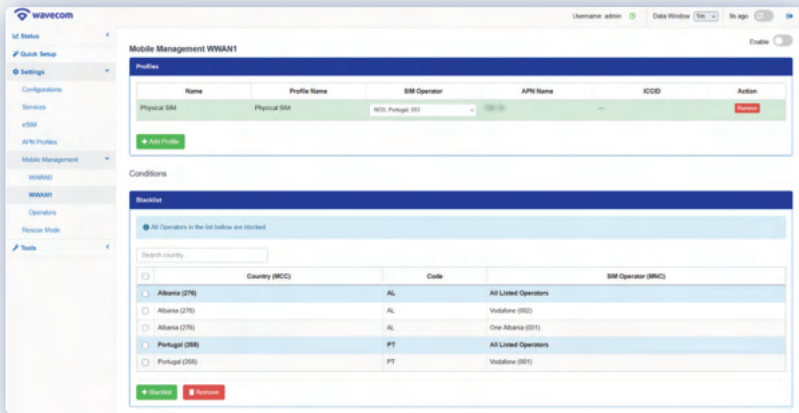
**Remark:** Due to potential network constraints, eSIM provisioning may require several attempts before completing successfully. Please retry if the process fails.

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





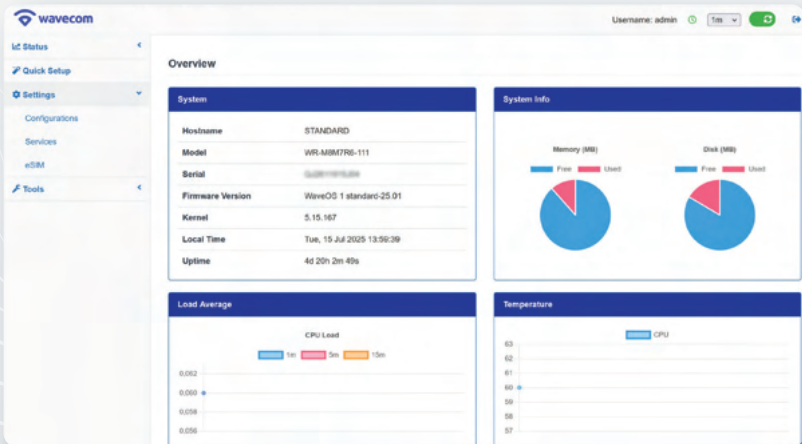
This section allows you to manage the list of supported network operators and countries. You can add, edit, or remove operator configurations, including MCC (Mobile Country Code) and MNC (Mobile Network Code) details, to ensure the device correctly identifies and connects to specific carriers.



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.

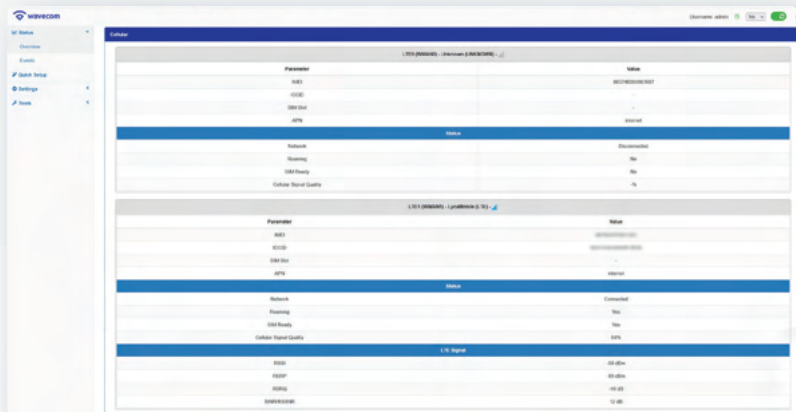
## 6 System Status Overview

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).



The screenshot displays the 'Cellular' status page in the Wavecom web interface. It features a left-hand navigation menu with options like 'Overview', 'Event', 'Data Usage', 'Settings', and 'Tools'. The main content area is divided into three sections, each representing a different modem. Each section contains a table of parameters and their current values.

LTE (primary) - (primary) (3G)	
Parameter	Value
SSID	XXXXXXXXXX
SSID	
SSID BSS	
APN	internet
Status	
Network	Disconnected
Roaming	No
Cell Roaming	No
Cellular Signal Quality	0%

LTE (primary) - (primary) (3G)	
Parameter	Value
SSID	XXXXXXXXXX
SSID	
SSID BSS	
APN	internet
Status	
Network	Connected
Roaming	No
Cell Roaming	No
Cellular Signal Quality	100%

LTE (primary)	
Parameter	Value
RSSI	-101 dBm
RSCP	-101 dBm
RMSI	-101 dB
SINR (dBm)	12.00

**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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