5G MARITIME BROADBAND SOLUTION

SailaLite User Manual

Version 1.0.0

Table of Content

Foreword

SailaLite is an outdoor 5G CPE, a wireless terminal equipment converts high-speed 5G signals into wired and WIFI signals.

Definitions of the acronyms shown in Table 1.

Table 1 Definitions of Acronyms

Acronyms	Definition
1000Base-T	1000Mbit/s Baseband Unshielded Twisted Pair Cable
PoE	Power Over Ethernet
IP	Internet Protocol
HTTP	hypertext transmission protocol
ETH	Ethernet

1 Overview

SailaLite is an outdoor 5G CPE device that supports 5G NR/LTE, IPv4/6, and WIFI, with highly integrated software features and user-friendly interface.

2 Working Conditions

Power Supply: PoE (802.11bt). The normal working mode of the device < 25W；

1) Operating Temperature：-40℃~+55℃；

2) Dimensions（Diameter × Height）：φ 265mm x 119mm；

3) Weight：< 2.5Kg.

2.1 Product Description

SailaLite appearance as shown in Figure 2-1

Figure 2-1 SailaLite appearance

2.2 LAN Ethernet Port

The LAN / PoE interface supports 100 / 1000 BASE-T Ethernet transmission and supports 802.11bt protocol POE power supply.

2.3 SIM Card Slots

2 Nano SIM card slot interfaces, support 1.8V and 3.3V SIM cards.

2.4 Status LEDs

4 x Blue Status LEDs status as shown in Figure 2-3

Figure 2-3 Status LEDs Description

Code	Name of the LED	Status	Description
1	RUN Status LED	Off	Power is off or failures detected
		On	Power is on without failures
2	SIM Card Status LED	Off	SIM card not detected
		On	SIM card detected
3	4G Status LED	Off	No 4G Network
		On	Connected 4G Network
4	5G Status LED	Off	No 5G Network
		On	Connected 5G Network

3 Installation Guide

3.1 Installation Kit

Installation Kit required for securing the SailaLite to the vessel as shown in Table 3-1

Table3-1 Installation Kit

Recommended Tools:	To do this:
Power Drill (exclude)	For drill holes in Φ10 and Φ20 diameter
Adjustable Wrench (exclude)	13mm
Phillips Screwdriver	φ5mm
Hexagon Nut Wrench	Remove or tight the SIM card bracket, installation of the base included in package

3.2 Installation Procedure

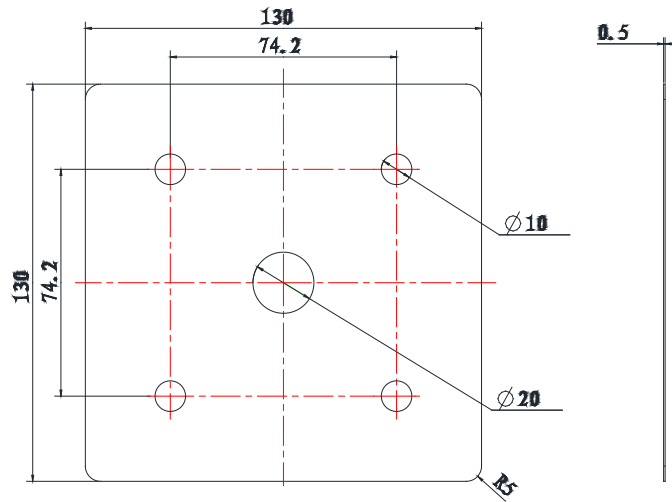Step 1: According to the below diagram prepare the mounting holes.

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Figure 3-1 Dimensioning Holes diagram

Step 2: Connect the PoE cable with grounding wire coming out from the base, secure the grounding wire, and fixes the base with 4 screws.

View the details

M8×40 screw

SailaLite base

M5×16 Hex Screw (T)

Waterproof cable gland

M6 ×10 Screw assembly (T)

Grounding
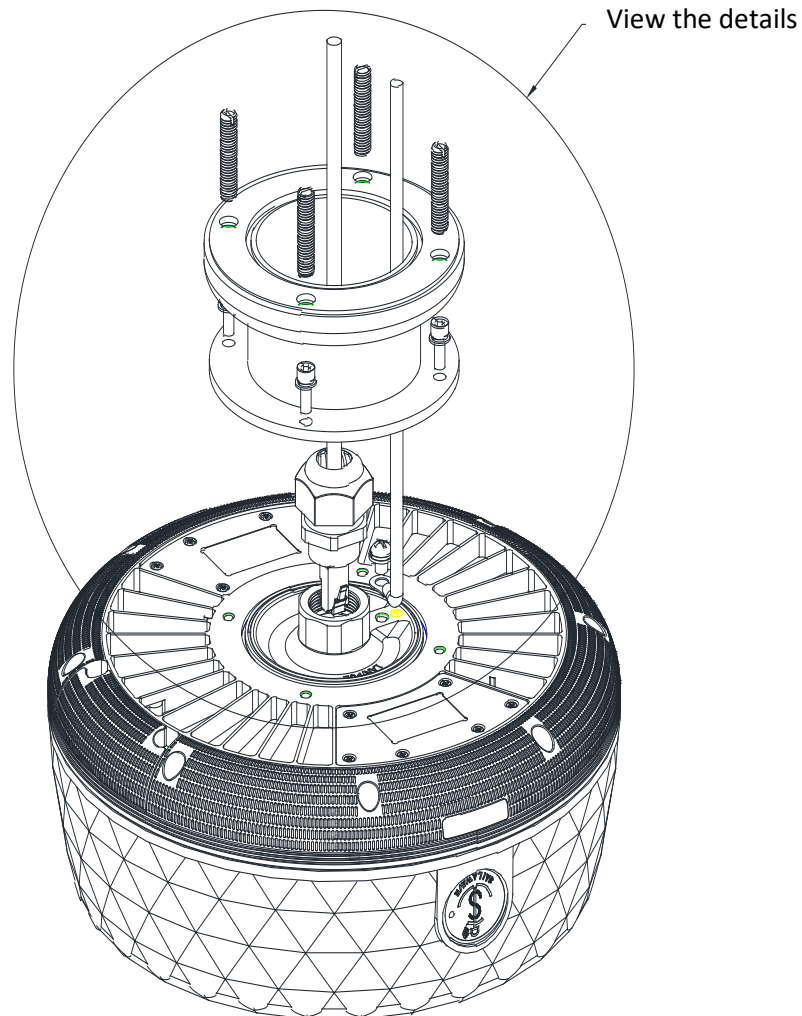
SailaLite

Figure 3-2 Secure the device and base

Step 3：Tighten the 4 screws of the main unit through the drilled mounting holes and fix the main unit with 4 hexagonal flange nuts, and the installation is complete.

SailaLite

Installation Board

M8 flat gasket

M8 spring gasket

M8 Hex Flange

Grounding

Network
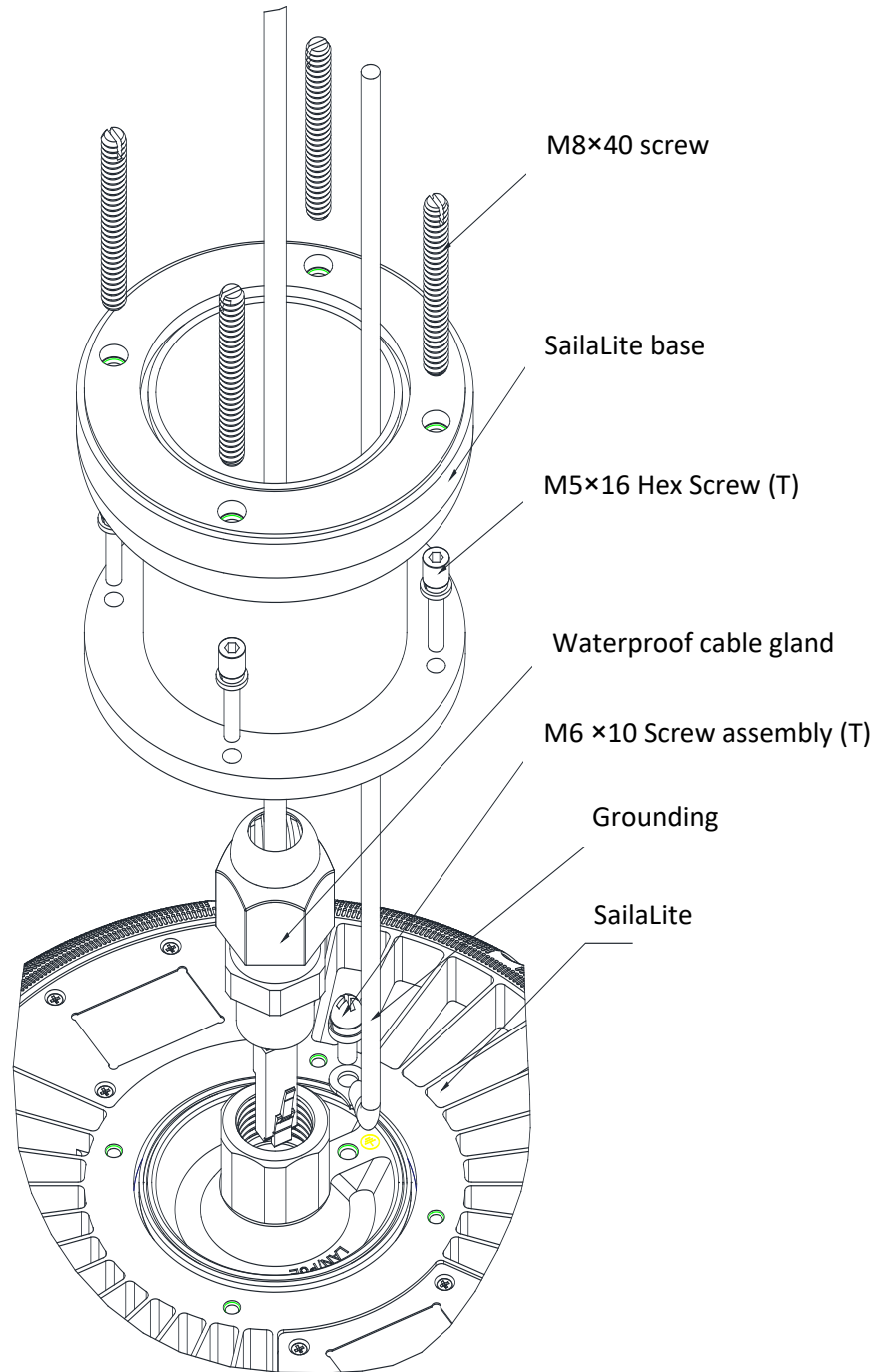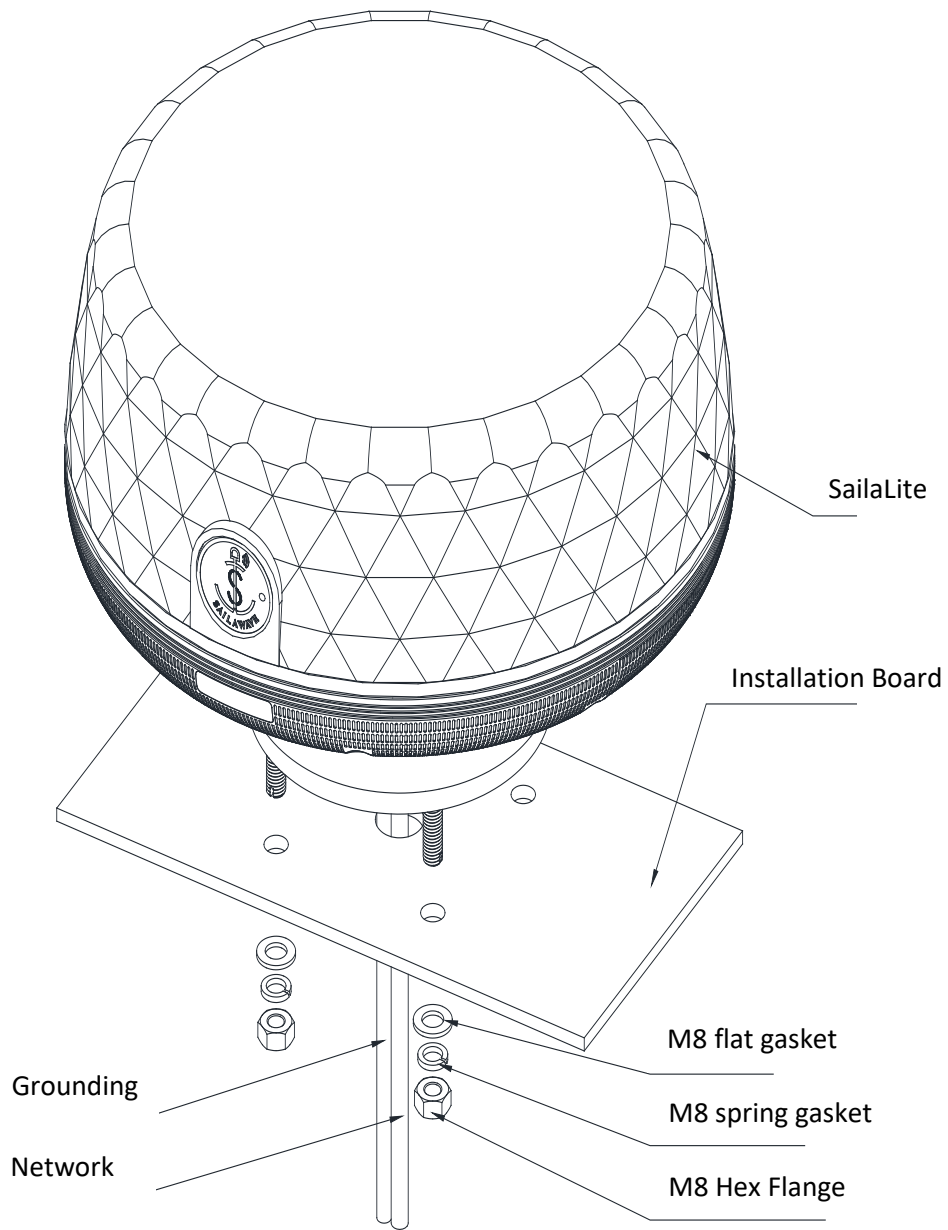
Figure 3-3 SailaLite Installation Diagram

4 Introduction

For the application of SailaLite, as long as the sim card is inserted into the SailaLite, it can dial-up Internet access without any other configuration. For details, please refer to the following introduction:

4.1 Login to Device

As shown in Figure 4-1, After the device is powered on, please login to the browser connected to the computer: 192.168.197.1, input the username "*admin*", and password *#EDC4rfv%TGB*, then click ">" to the configuration page.
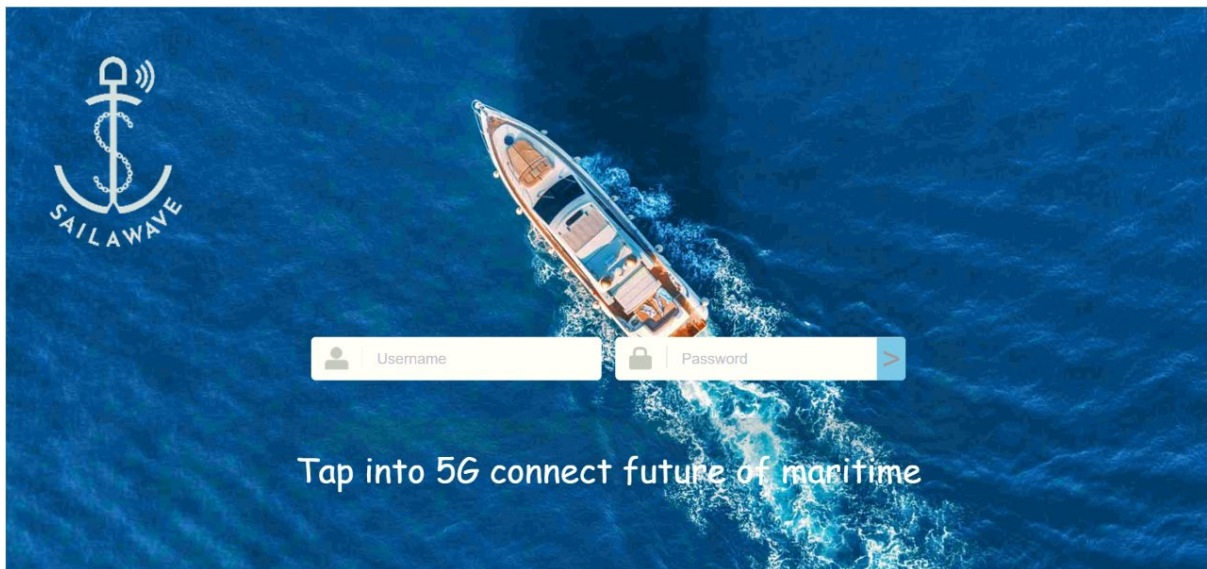

Figure 4-1 Login Interface

4.2 Information Check

In the Menu, click "Dashboard" to check the device connection status, system information and other information, as shown in Figure 4-2, move the cursor to the corresponding NE icon to view the related NE information; and click the NE icon navigate to the NE configuration interface.
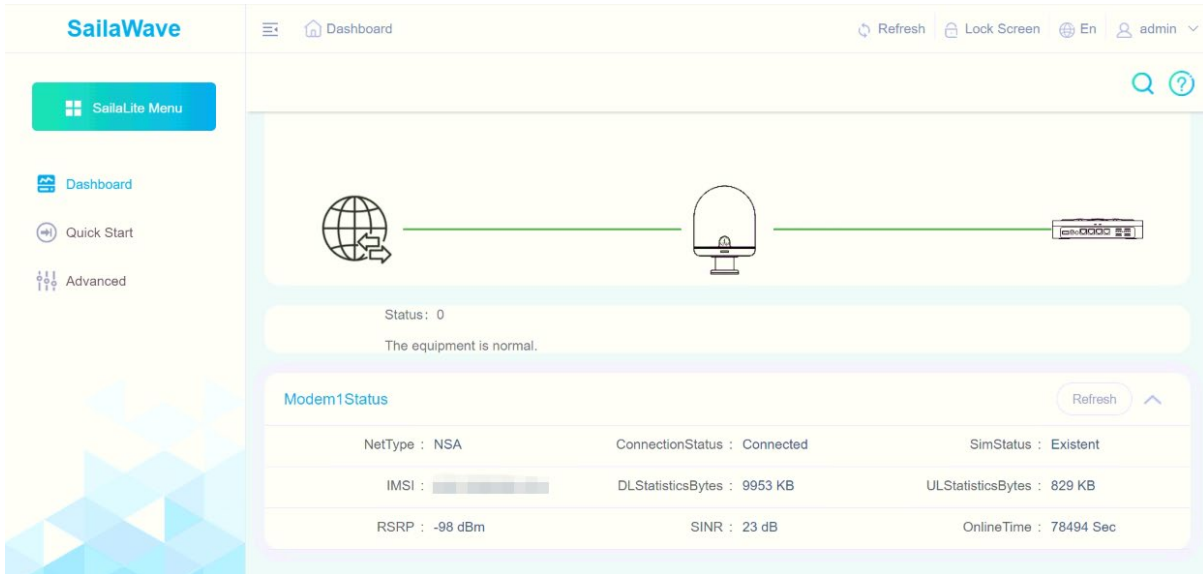
Contact Us: sales@saila-wave.com

Figure 4-2 SailaLite Status Check

4.3 Quick Configuration Guide

4.3.1   SIM Position Configuration

In the management menu, click "Quick Start" and select either SailaLite or SailaJoint based on the SIM card location. SailaLite represents the SIM card inserted in SailaLite, and SailaJoint represents the SIM card inserted in SailaJoint. Click Next to continue with the next configuration, as shown in Figure 4-3.
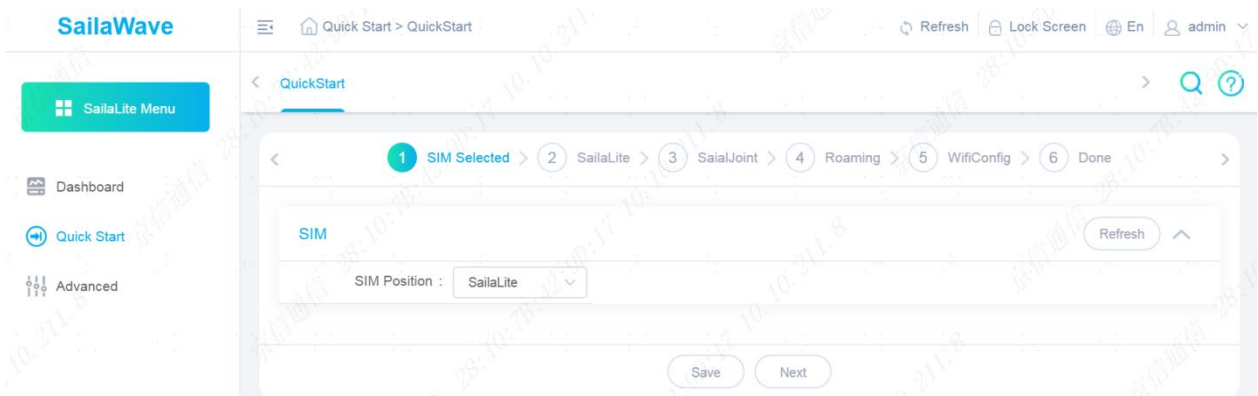

Figure 4-3 SIM Position Configuration

4.3.2   SIM configuration

Select based on SIM card location. Both SailaLite and SailaJoint have Auto and Manual modes that can be configured. Auto mode indicates that the local operator network will be selected from

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all available SIM cards based on SailaLite GPS location information. If there is no local operator network, it will be determined whether to choose a roaming network based on the user's configured permission for roaming; The Manual mode will prioritize the local operator network among the available SIM cards selected by the user, as shown in Figure 4-4, 4-5, 4-6, 4-7. Click Next to continue with the next configuration step.
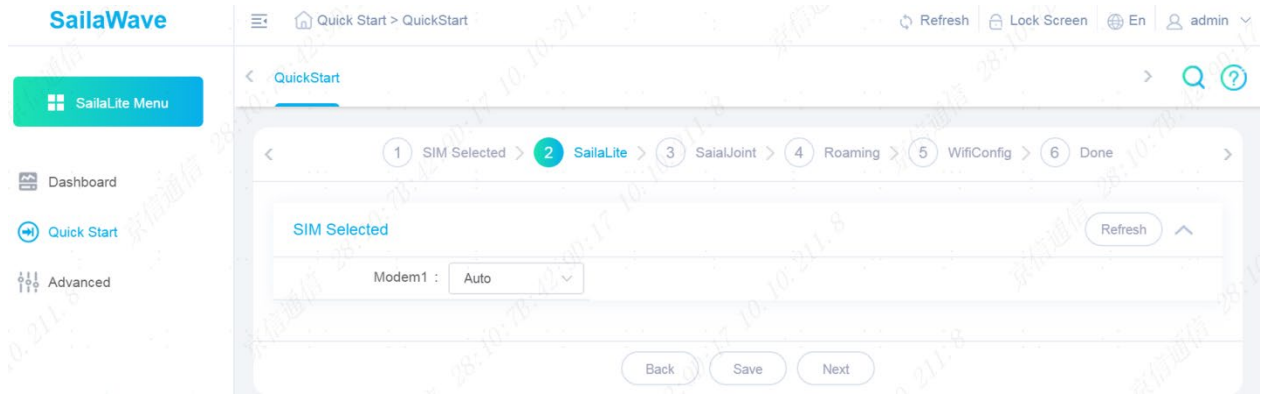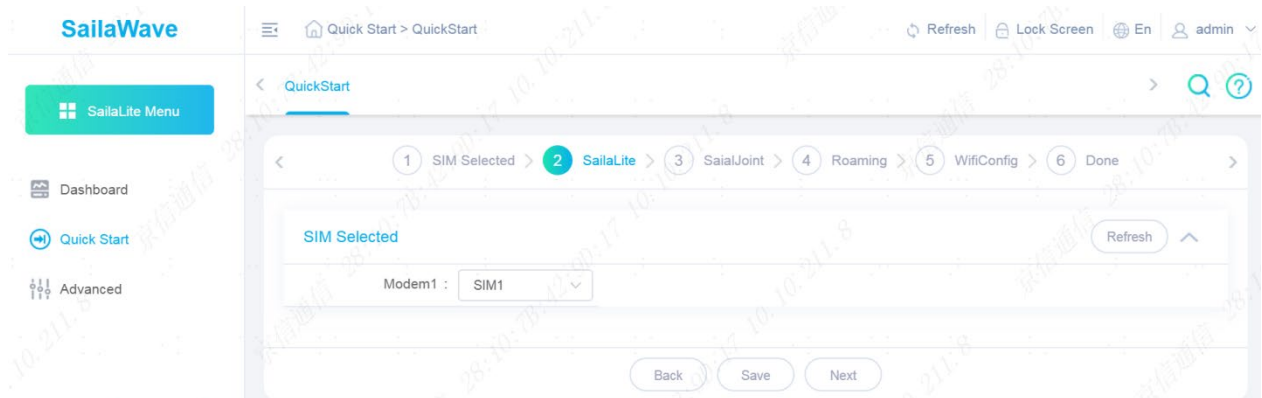

Figure 4-4 SailaLite Auto Mode Configuration

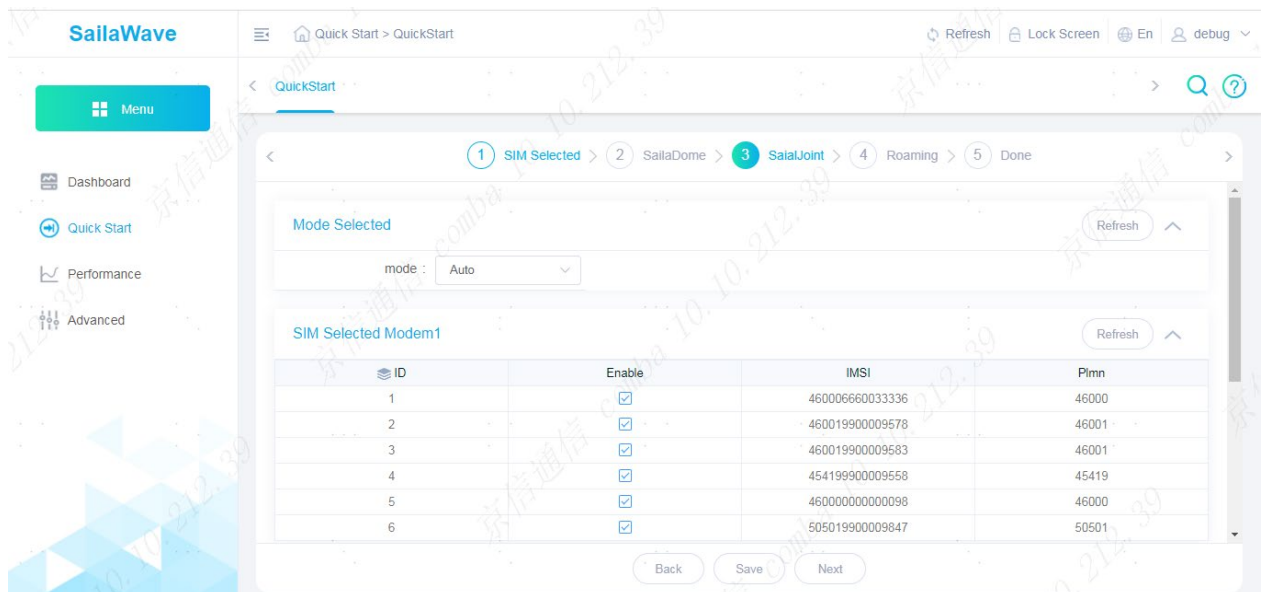

Figure 4-5 SailaLite Manual Mode Configuration

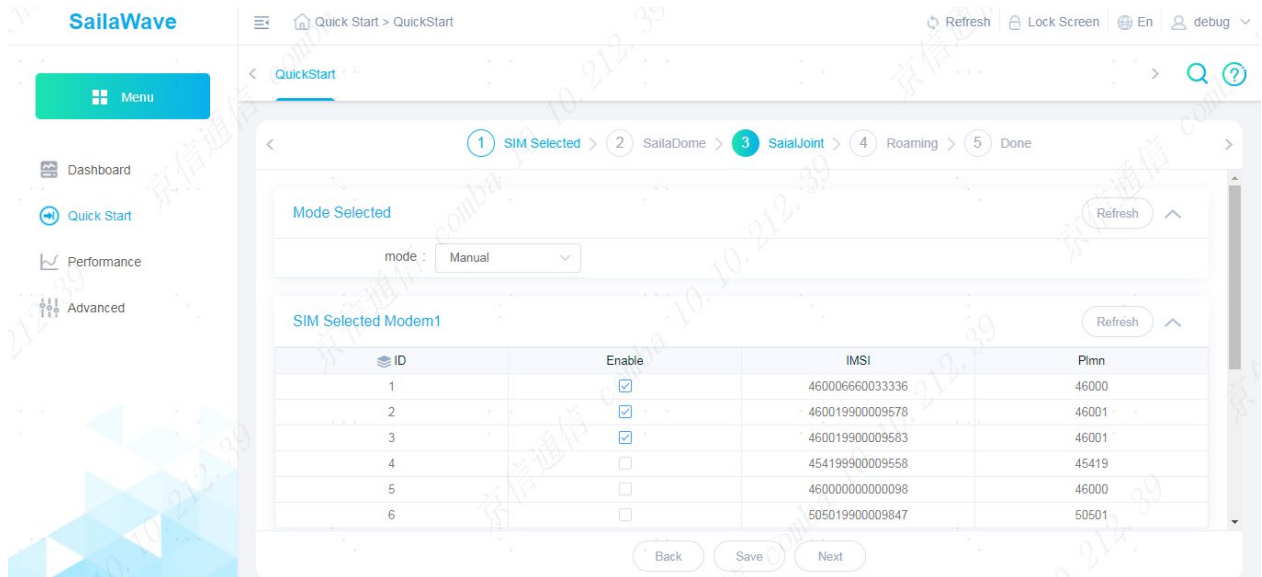Figure 4-6 SailaJoint Auto Mode Configuration

Figure 4-7 SailaJoint Manual Mode Configuration

4.3.3　Roaming Configuration

If roaming is not checked, the device will use the local operator SIM card to connect to the base station. If there is no such card, no service will be carried out. When Allow Roaming is checked as shown in Figure 4-8, the device will select SIM cards in the order of SIM card slots to connect to the base station.
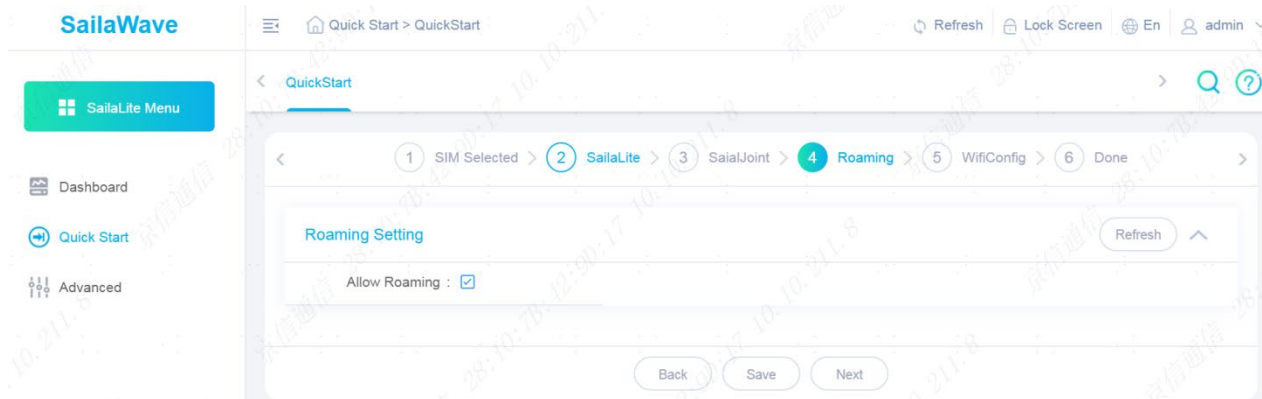

Figure 4-8 Roaming Configuration

4.3.4　WIFI configuration

This interface allows for WIFI parameter configuration, including country, enable switch, work mode (AP or STA mode), radio selection (2.4G, 5.8G or 2.4G+5.8G), SSID names for 2.4G and 5.8G, encryption configuration, etc., as shown in Figure 4-9. Please select AP mode for normal WiFi access.
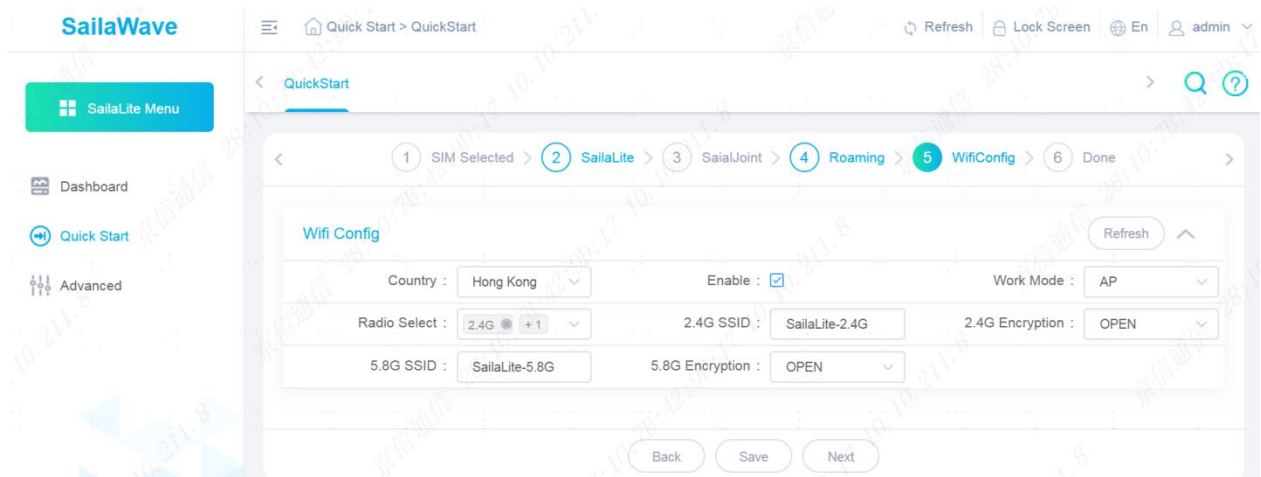
Figure 4-9 WIFI Configuration

4.3.5   Saving Configuration

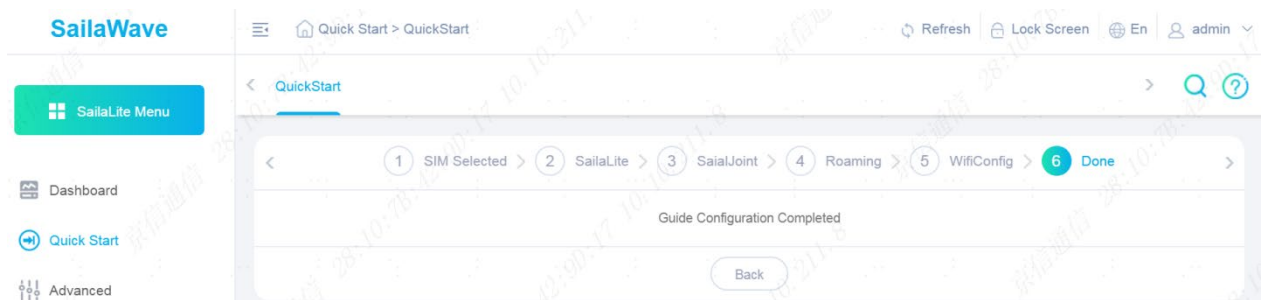Click the Save button to save the SIM configuration, as shown in Figure 4-10.

Figure 4-10 Saving Configuration

4.4 Advanced Equipment Configuration

4.4.1   System Information

In the management menu, click "Advanced" → "System Info" to view and configure system information, including product name, Serial number, longitude and latitude, Net Mode, APN, etc., as shown in Figure 4-11.
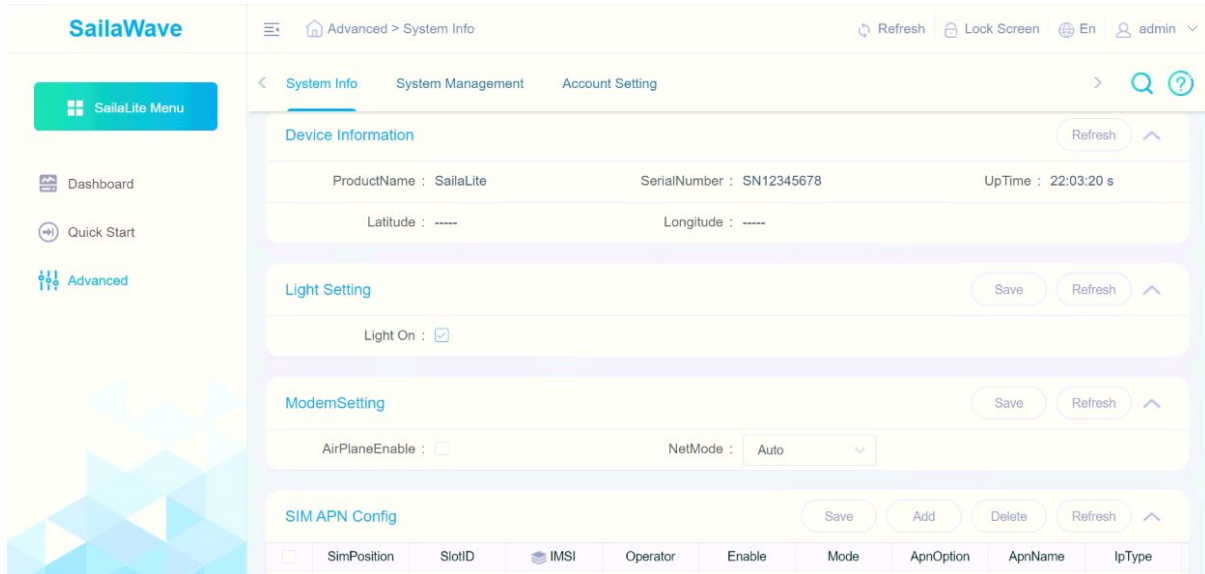
Figure 4-11 System Information

Device Information: they are basic information of the device.

Light Setting: it's the switch of LED indicator, you can turn if on or off as your required.

Modem Setting: 5G modem can be turn off by using "Airplane Enable" setting. For the Network Mode, you can select as Auto/LTE only/NSA/SA (Default is Auto).

SIM APN Config: In some special case, you may need to set APN by manually. You can set each SIM card's APN here.

4.4.2   System Management

In the management menu, click "Advanced" → "System Management" to view and upgrade software versions, reset the system, restore factory settings, download logs of the time and history logs, as shown in Figure 4-12.

Figure 4-12 System Management
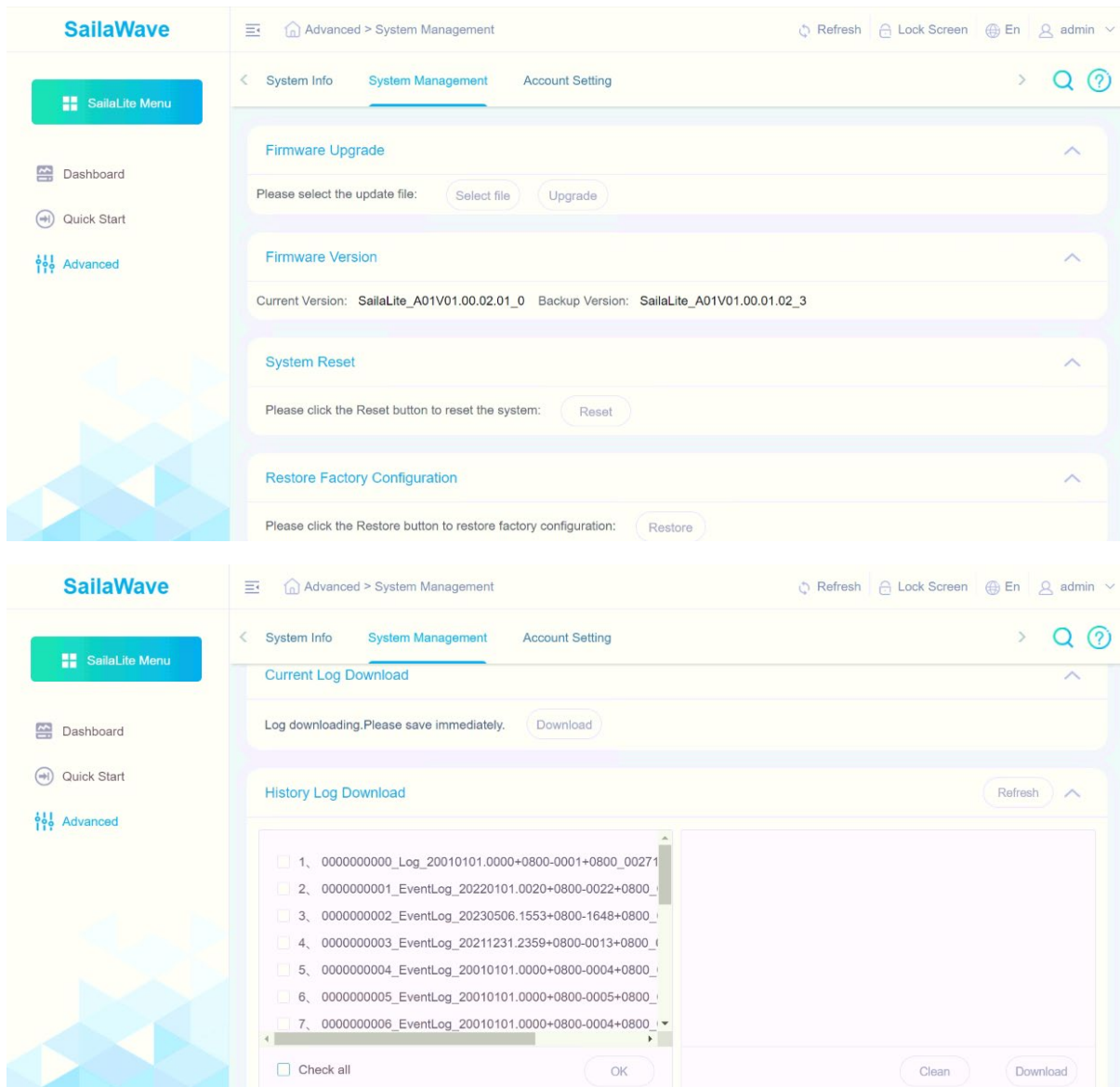
Firmware Upgrade: If need to upgrade the device software, download the latest firmware package from SailaWave official web site or ask from support team, then you can carry out the upgrade here.

Firmware Version: Device supports firmware backup, if any reason leads to upgrade failed, system will fall back to the backup version. You can check "current version" and "Backup version" here.

System Reset: Device can be reset by using this function.

Restore Factory Configuration: Device can be restored to factory configuration by using this function.

Current Log Download: If you meet some problems that you cannot solve, please download the current system log here, and then send it to sailawave support team ask for help.

History Log Download: Device system will keep log during it's running. It will store the latest part, in case some trouble shotting. Please select the corresponding log file and download them, send to sailawave support team for a further troubleshooting for you.

4.4.3   Account Management

In the management menu, click "Advanced" → "Account Setting" to modify the admin account password. The new password must meet the password strength requirements (Password must contain letters, Numbers and special characters (! @ #~&*. - _=+%). The length is not less than12bits), as shown in Figure 4-13.
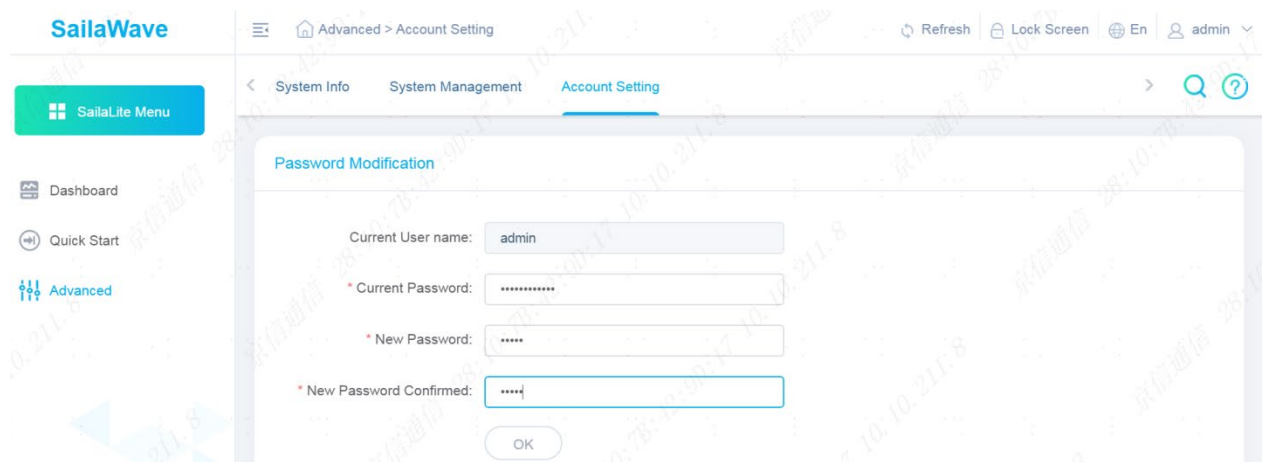

Figure 4-13 Account Management

5 Maintenance and diagnostic

5.1 Routine Maintenance

Routine maintenance please follow Table 5-1

Table 5-1 Routine Maintenance Table

Item	Operation
Hardware Inspection	Periodic inspection of cable connections and installation components. Make sure the device has not been maliciously damaged.
Grounding Inspection	Make sure the equipment is well grounded
Environmental Inspection	Make sure that the device is not disturbed by strong electric field signals.

5.2 Troubleshooting

Do not disassemble the device if you are experiencing any malfunction symptoms on the device, follows are help to troubleshoot and resolve the issue:

1) Check the RUN status LED if always On
2) Check whether the device has been registered on the 4G / 5G network through the 4G/5G status LED

💡 Important: Do not disassemble the device, please contact the local operator or technician to arrange maintenance.

5.3 Maintenance

1) Maintenance must be carried out under the guidance of experienced technicians.
2) Turn off the device power and on to restart the device, after about 60 seconds the device will work normally.
3) Do not change the parameter during the maintenance process. If there is any change, be sure to reset the original parameters after maintenance.

Contact Us: sales@saila-wave.com