LinkAdapt 5G
Enabling tomorrow's connectivity

USER
GUIDE

5G NR DONGLE

Table of Contents

1. Product Overview

1.1 Product introduction

This product is a multimode (LTE&5G) wireless dongle, which provides 5G & LTE Cat-19 DL and Cat-18 UL connectivity. With its compact dimension and light weight, it can be used to provide internet access on-the-go, as well as at home.

Model:5G Dongle EU	
LTE	B1, B3, B7, B8, B20, B28, B38, B39, B40, B41, B42, B43, B46, Roaming: B2, B4, B5, B12, B13, B17, B25, B26, B29, B48, B66
NR	n1, n3, n7, n8, n20, n28, n38, n40, n41, n77, n78, n79 Roaming: n2, n5, n12, n25, n48, n66

1.2 Product dimension & weight

Item	Description
Appearance	60.3mm 75mm 7.88mm 45.3mm Top Trio color LED USB Type C Nano SIM
Dimension	75 x 45.3 x 7.88mm
Weight	42g

1. Product Overview

1.3 Product specification

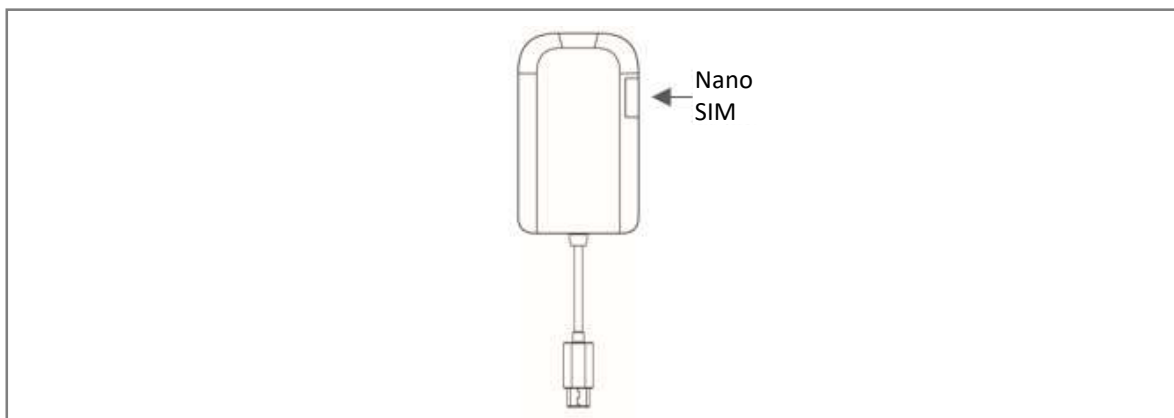| Item	Description
Chipset	Mediatek T750
Flash/Memory	LPDDR4X 8Gb/ NAND 8Gb
Status Indicator	Trio colors LED x1
I/O Interface	Nano-SIM USB Type-C
Power	USB Type-C 7.5W
Color	White
Platform Support	Windows 11, Windows 10, Linux, Chrome OS, MacOS, IPadOS
Management	Web GUI

1.4 Product support and security

Up to date information on support and the support period of the device can be found at retrofitfutures.uk/support

To report any vulnerability, please visit retrofitfutures.uk/security

2. Quick Installation

2.1 Insert the SIM card

Lift the SIM door and insert the Nano-SIM into the slot. The gold contacts facing downward. Push the SIM card into slot smoothly with finger, do not use any tools.
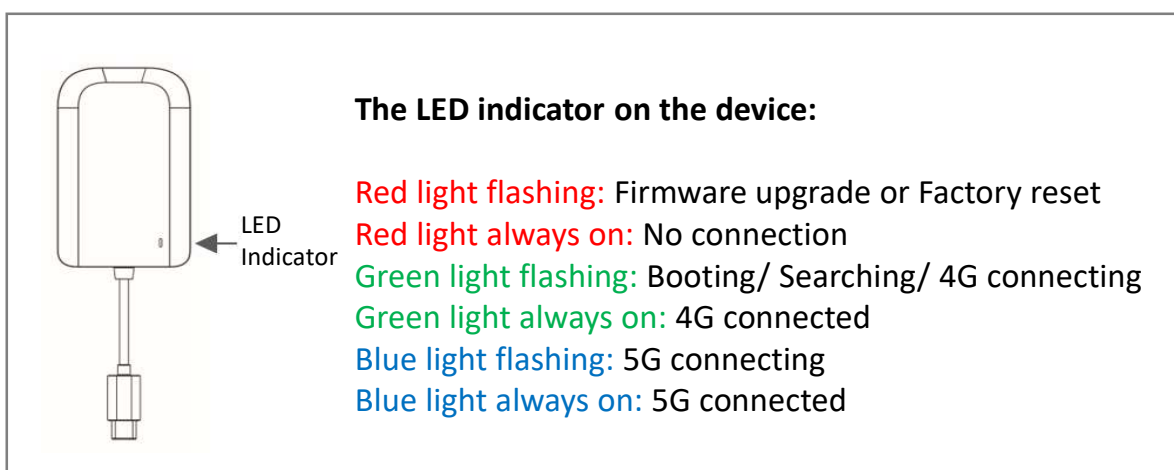

2.2 Plug the dongle into your computer

Plug dongle's USB type C cable to device (e.g. Notebook, etc.) Do not use it through other adapter or cable.

2.3 Confirm the LED indicator status

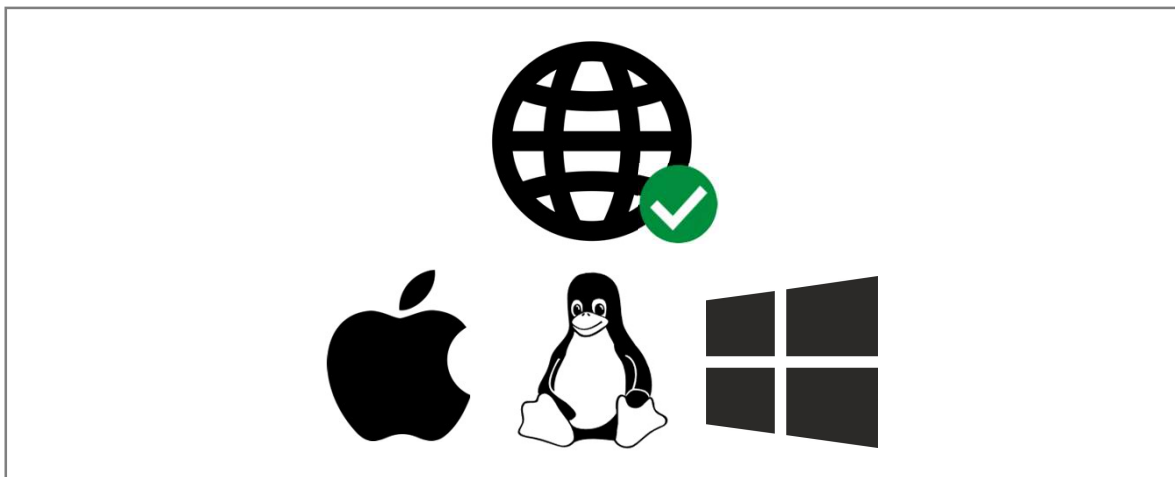Check dongle's LED lighting, and wait for booting for 30~40 seconds.

The LED indicator on the device:

Red light flashing: Firmware upgrade or Factory reset
Red light always on: No connection
Green light flashing: Booting/ Searching/ 4G connecting
Green light always on: 4G connected
Blue light flashing: 5G connecting
Blue light always on: 5G connected

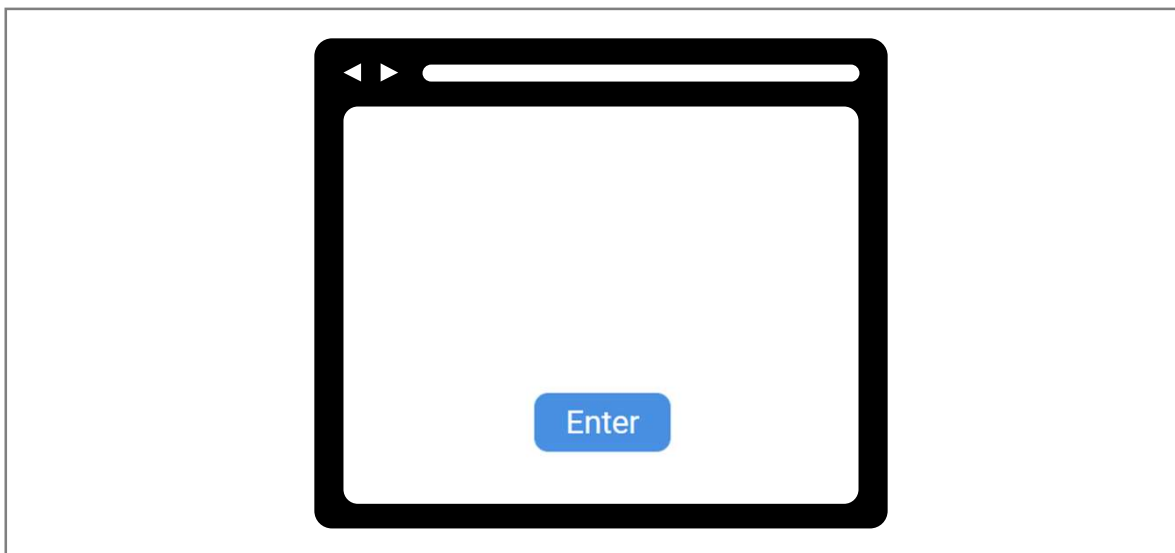# 2. Quick Installation

2.4 Check the Ethernet network status

Check if your Ethernet network is connected.

(Note: 5G dongle supports Windows 11, Windows 10, Linux, Chrome OS, MacOS, IPadOS.)

2.5 Log in to the Web UI

For further network configuration, please log in to the Web UI. Enter http://192.168.1.1 into your internet browser. You are now on your 5G dongle home page where you can check cellular profile, signal strength, SMS and system time.
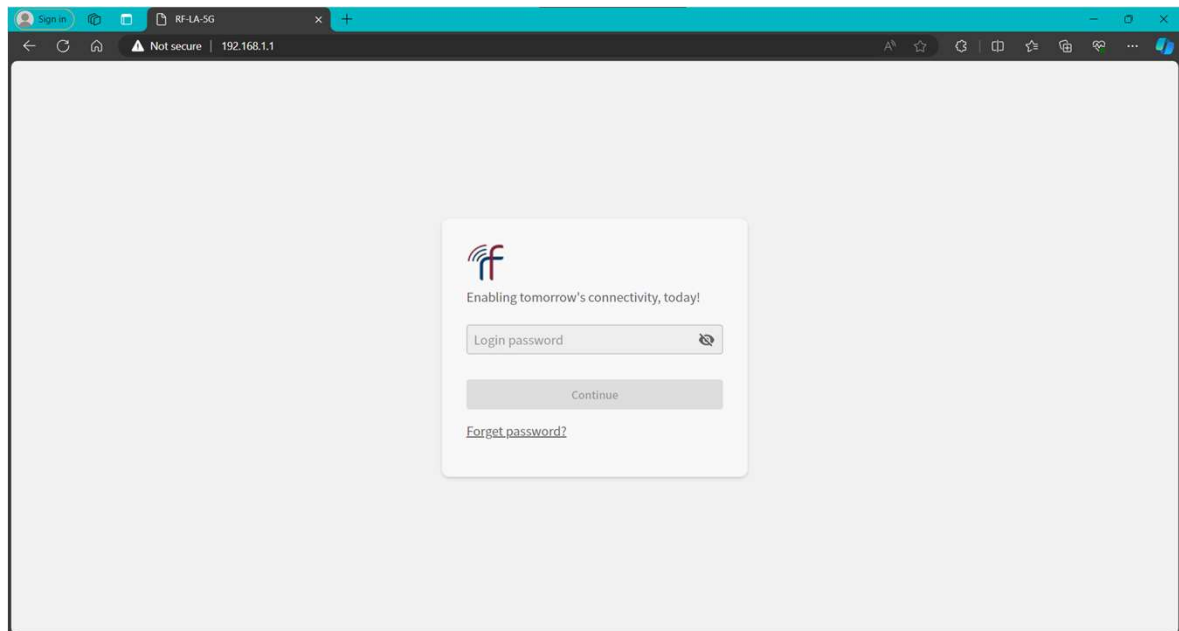
3. Web UI Introduction

3.1 Web homepage

The Web User Interface is compatible with the following browsers:
- Google Chrome
- Mozilla Firefox
- Internet Explorer 11 or later.
- Safari 13 or later
- Microsoft Edge

3.1.1 How to log in to the Web UI

a. Open your web browser.

b. Type **http://192.168.1.1** into the address bar and press enter. The Home page will be shown in your browser as the screenshot below.
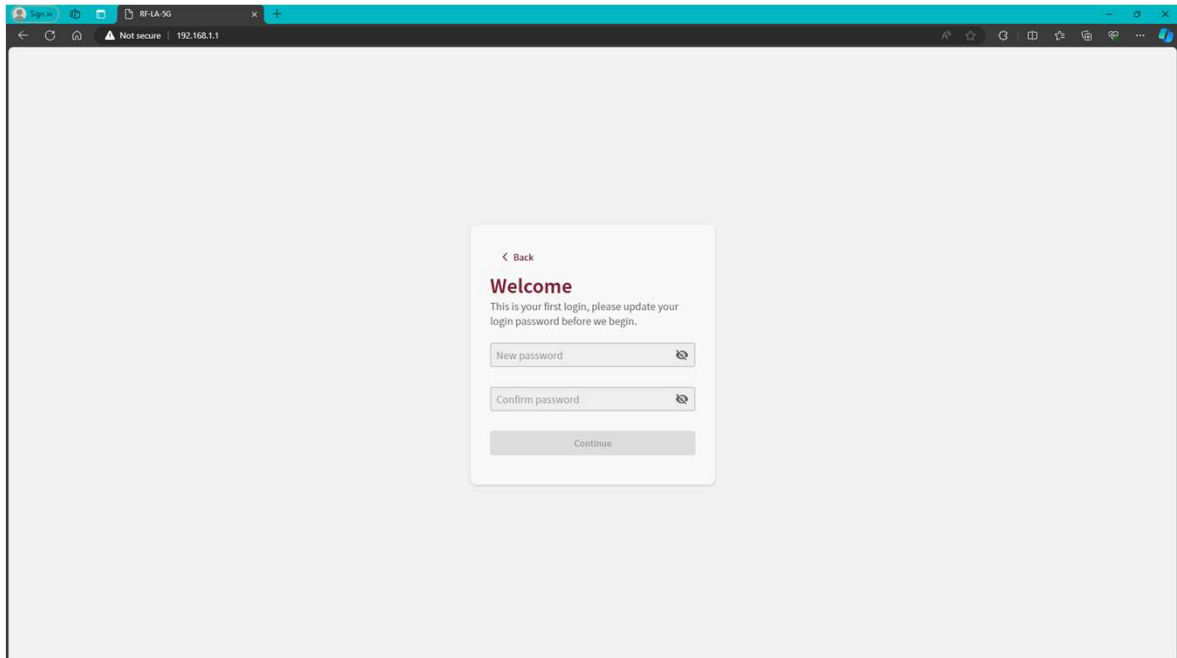
c. On the Home page, enter the Login password and click 'Continue'.

Note: The password can be found on the bottom of your 5G dongle. Changing your password is required when you first time login.

d. After entering the Web UI, you can configure your 5G dongle settings.

3.2 5G network

3.2.1 5G network status

Here you can see the 5G network status, including:

- SIM status
- Connection status
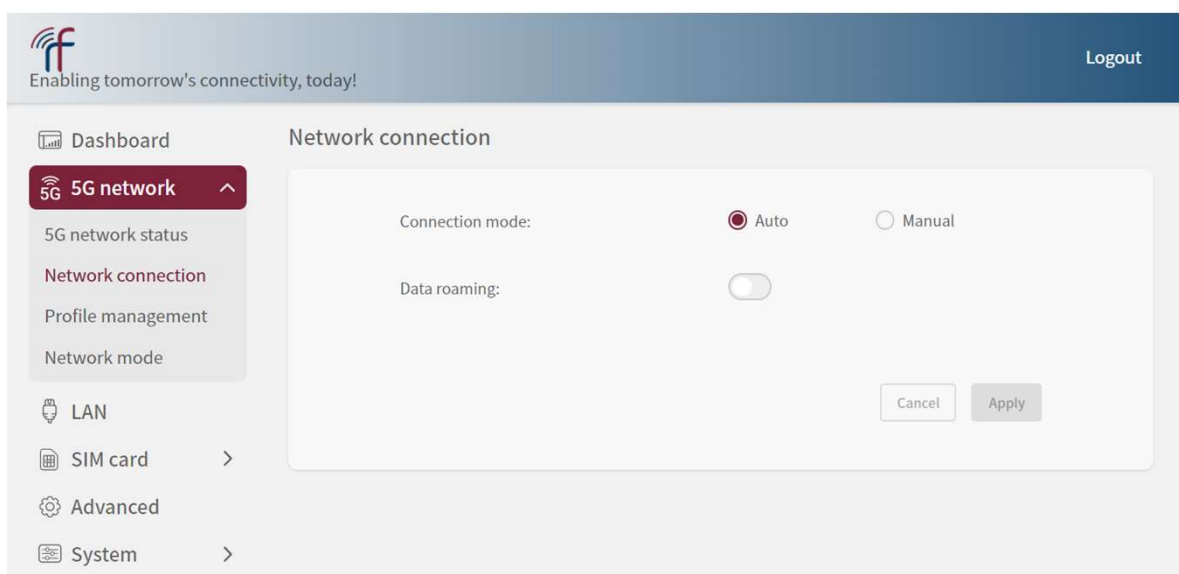- Network name
- Network type
- RSRP
- RSSI
- Band
- Cell ID
- Profile name

3.2.2 Network connection

- Network connection lets you configure connection mode and data roaming.
- Selecting connection mode **Auto** will establish an internet connection automatically.
- Selecting connection mode **Manual** will establish an internet connection manually. You will need to click the connect button on the **Status** page, to establish a data call.

3.2.3 Profile management

Profile management allows you to set up a new APN profile or edit/delete existing profiles that have been created.
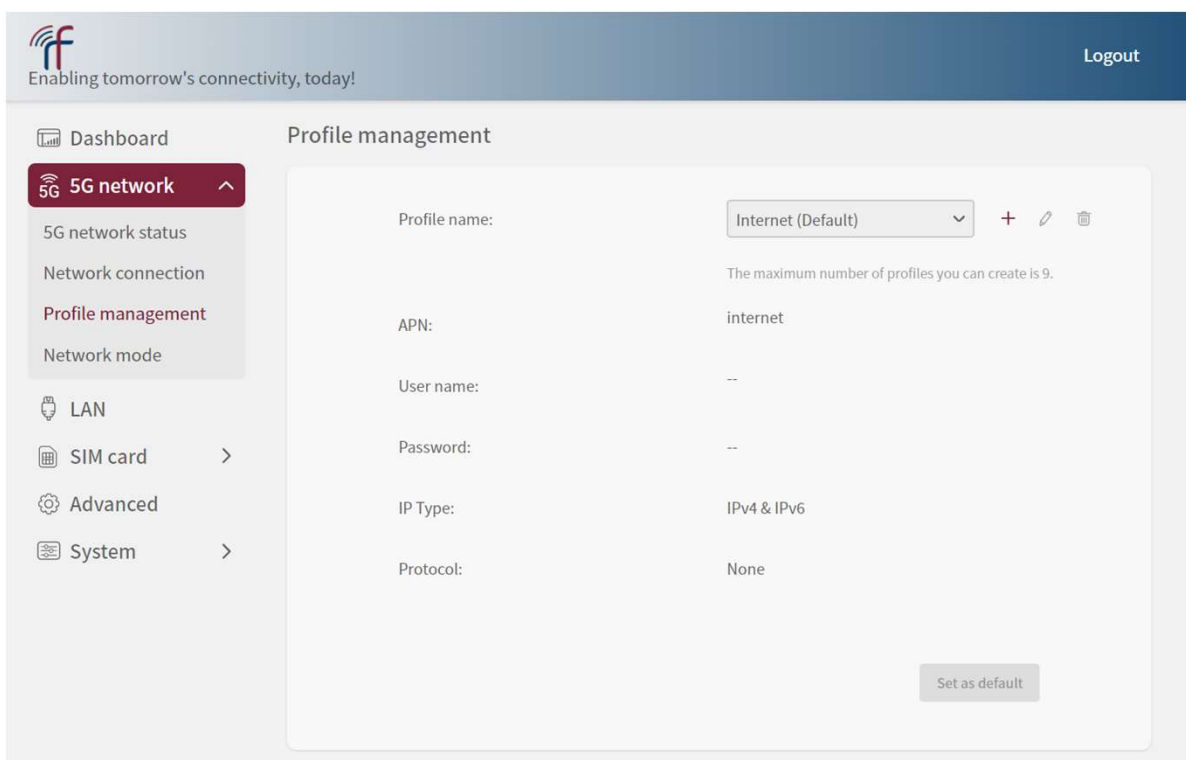
- How to add a new profile
    1) Click New.
    2) Input the connection settings for your network provider, a Profile name, Dial number and APN are mandatory.
    3) Click Save.
- How to delete a profile:
    1) Select the profile from the Profile name list.
    2) Click Delete.
    (Note: The default profile cannot be deleted.)

• Setting as default:

1) Select the profile from the Profile name list.

2) Click Set default.

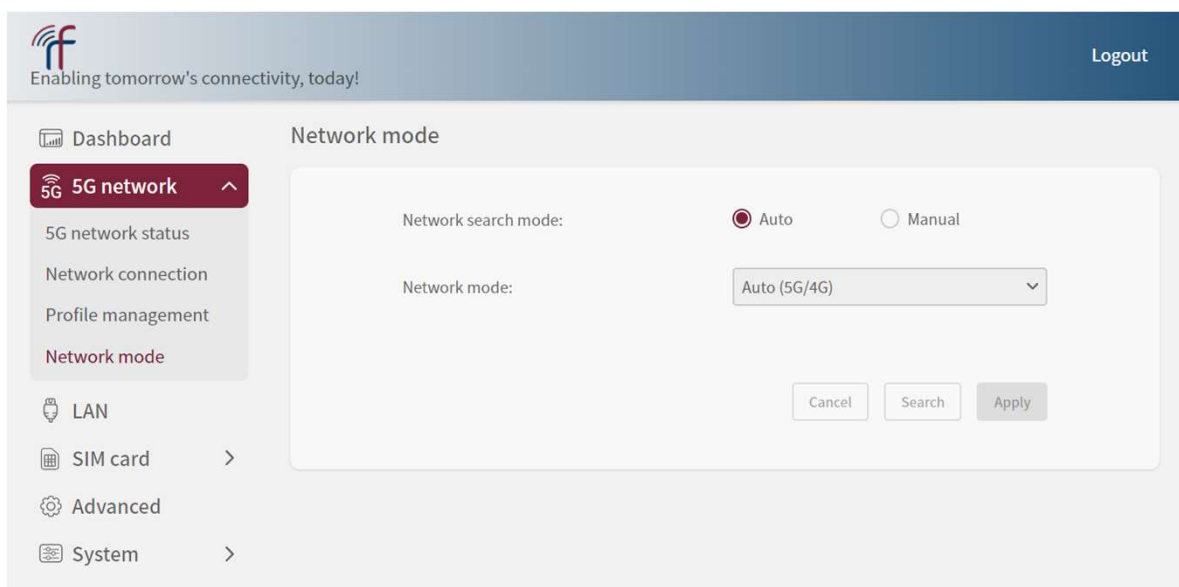(Note: Once the new profile has been set as default, (Default) will be added next to the profile name.)

3.2.4 Network settings

You can set the **Network search mode** to either **Auto** or **Manual** and change the network mode to either Auto (5G/4G) or 4G only.

Ensure that you click **Apply** after making any changes.

If the **Network search mode** is set to **Manual** you can click **Search** to scan for networks and **Register** to connect to the network.

(Note: It is recommended that you keep the **Network search mode** set to **Auto**.)
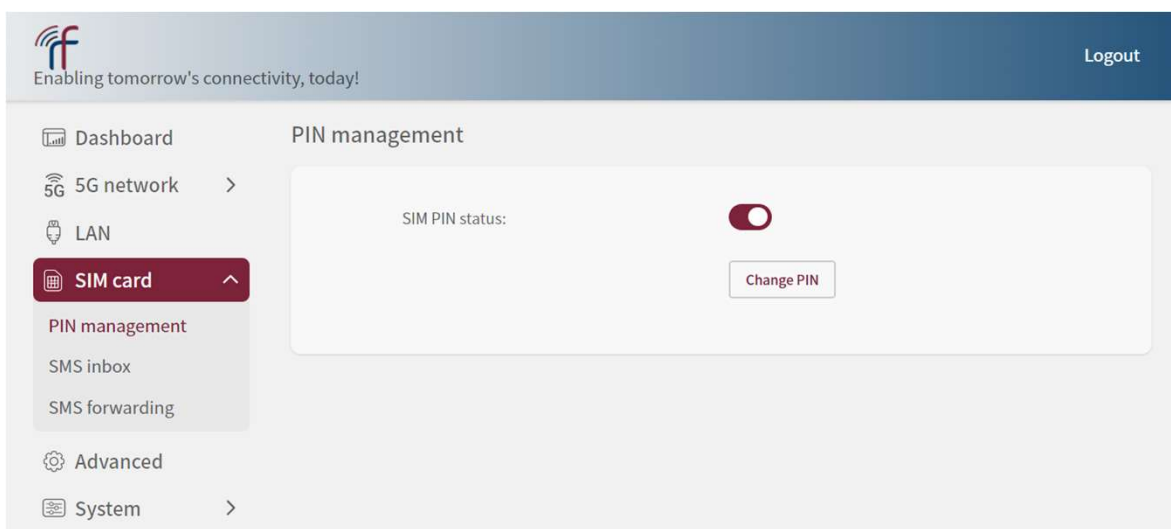
3. Web UI Introduction

3.3 SIM card

3.3.1 PIN management:

a. How to enable a PIN

- • When a PIN is disabled, click Enable. The PIN input page is displayed.
- • Enter the PIN you want to set. Your PIN must be between 4-8 digits.
- • Click Apply.
- • Tick Remember SIM PIN to remember the pin code.

b. How to disable a PIN

- • When a PIN is enabled, click Disable. The PIN input page is displayed.
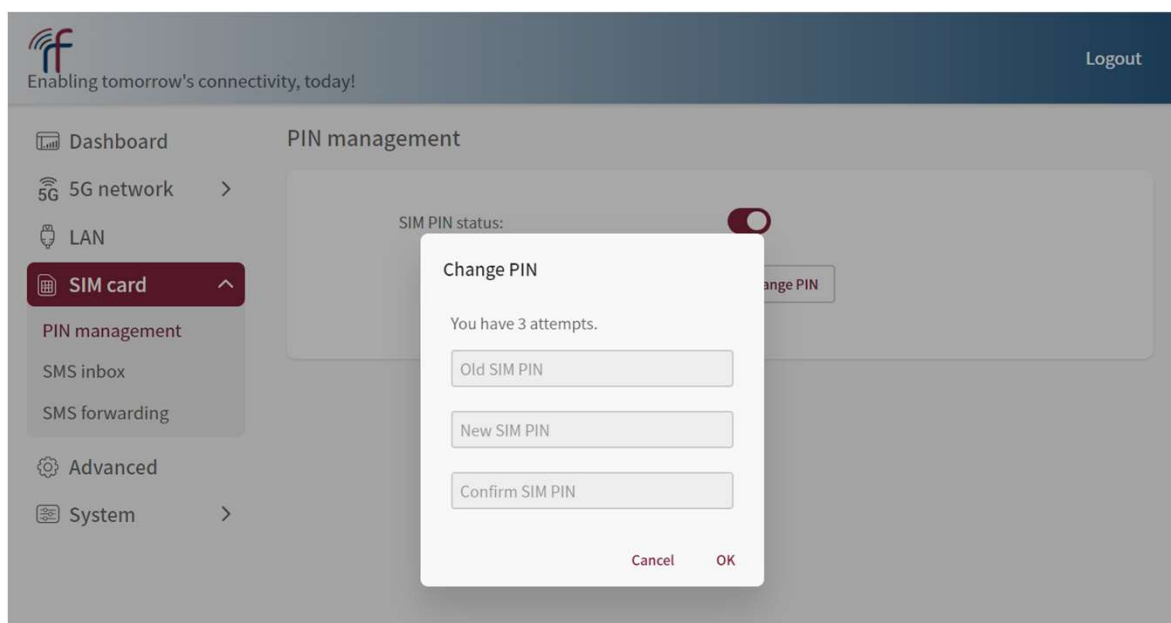- • Enter the correct PIN.
- • Click Apply.

c. How to change the PIN

- When a PIN is enabled, click Change PIN. The PIN input page is displayed.

- Enter the Old PIN/New PIN/Confrm PIN.

- Click Apply

(Note: when a PIN code is entered incorrectly 3 times a PUK code is needed. You can obtain this from the Network Operator.)
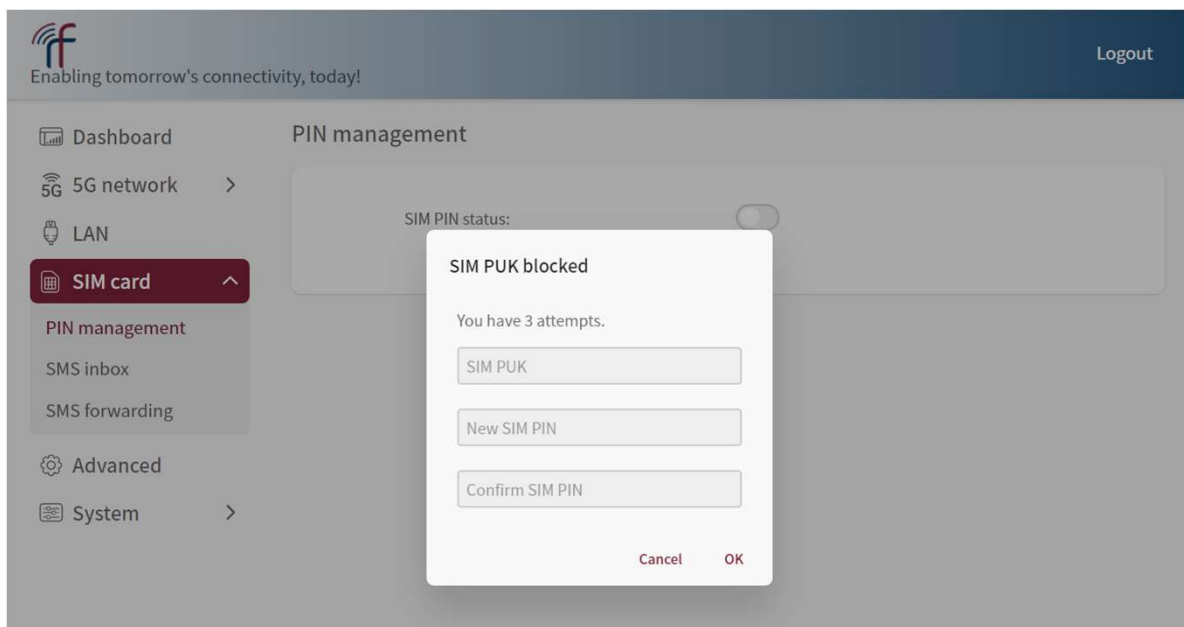
d. How to verify PUK

• Enter correct PUK code, then enter the new PIN.

• Click Apply to confirm the new PIN code.

(Note: when a PUK code is entered incorrectly 10 times, SIM will be locked permanently.)
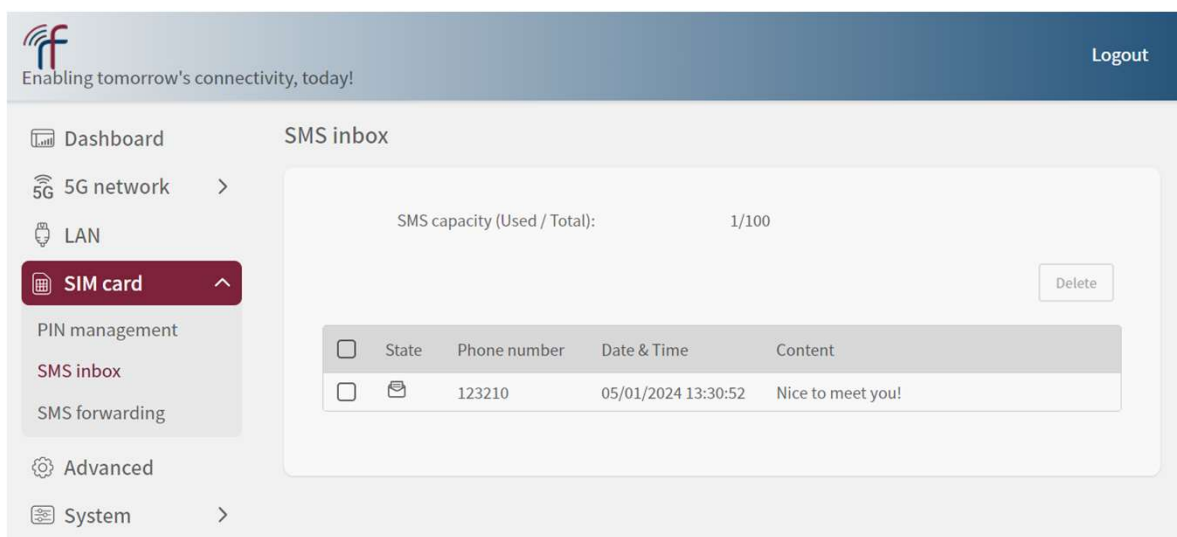
3.3.2 SMS inbox

a. How to read an SMS

• Left-click the content of the message you wish to read.

b. How to delete an SMS

• Find the message you wish to delete in the Inbox.

• Tick the box in the far-right column for the message(s) that you wish to delete.

• Click Delete.

c. How to delete all SMS

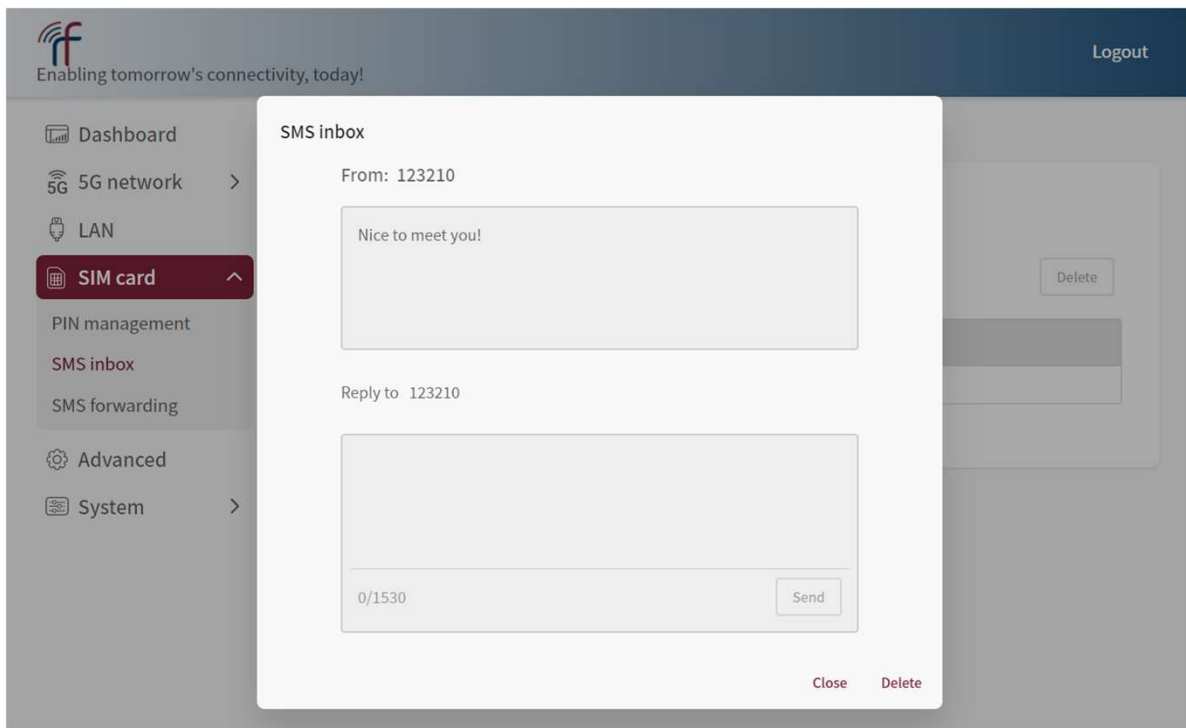• Left-click at the top of the column to select all.

• Click Delete.

d. How to reply to an SMS
- Left-click the content of the message you wish to read.
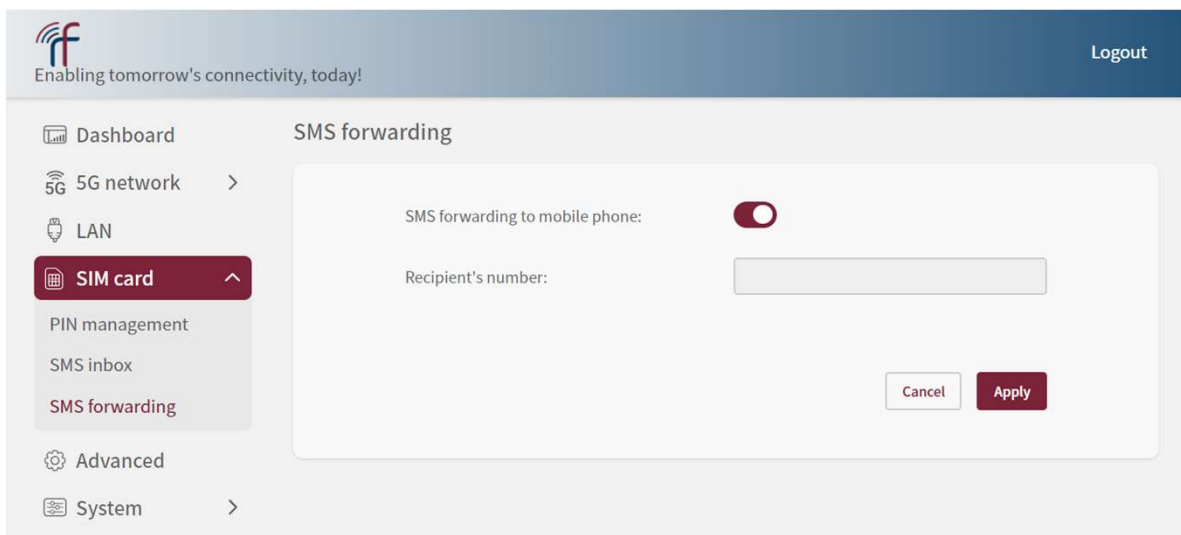- Write the reply message in the reply text box.
- Click Send.

3.3.3 SMS forwarding

SMS forwarding allows you to forward SMS messages that have been sent to your 5G Dongle to another mobile phone.

a. Enable SMS forwarding to mobile phone.

b. Enter the phone number you wish to have messages forwarded to.

c. Click Apply.

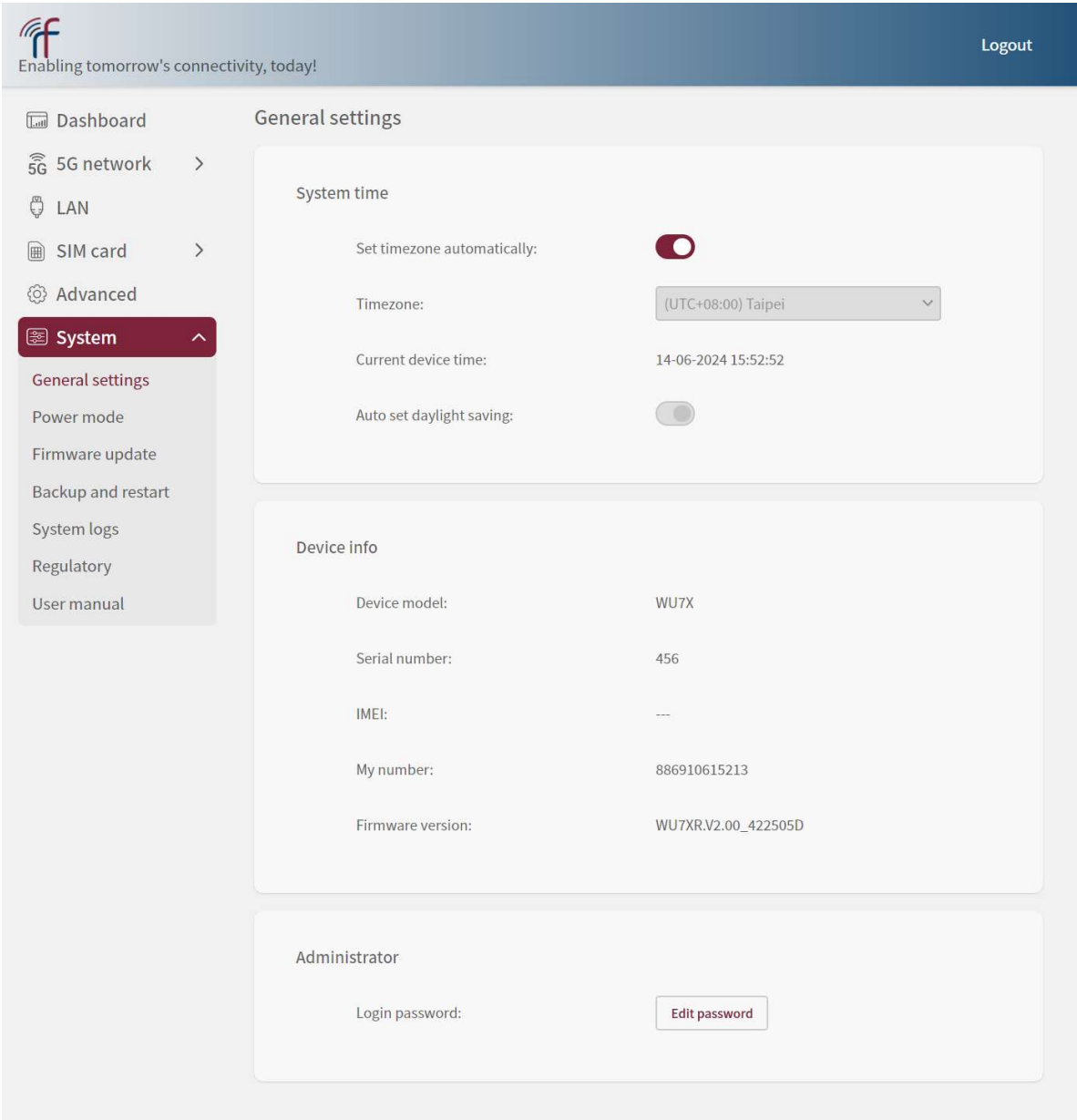d. After clicking Apply, all incoming SMS will be forwarded to that mobile phone number automatically.

3. Web UI Introduction

3.4 System

3.4.1 General settings

You can view following information
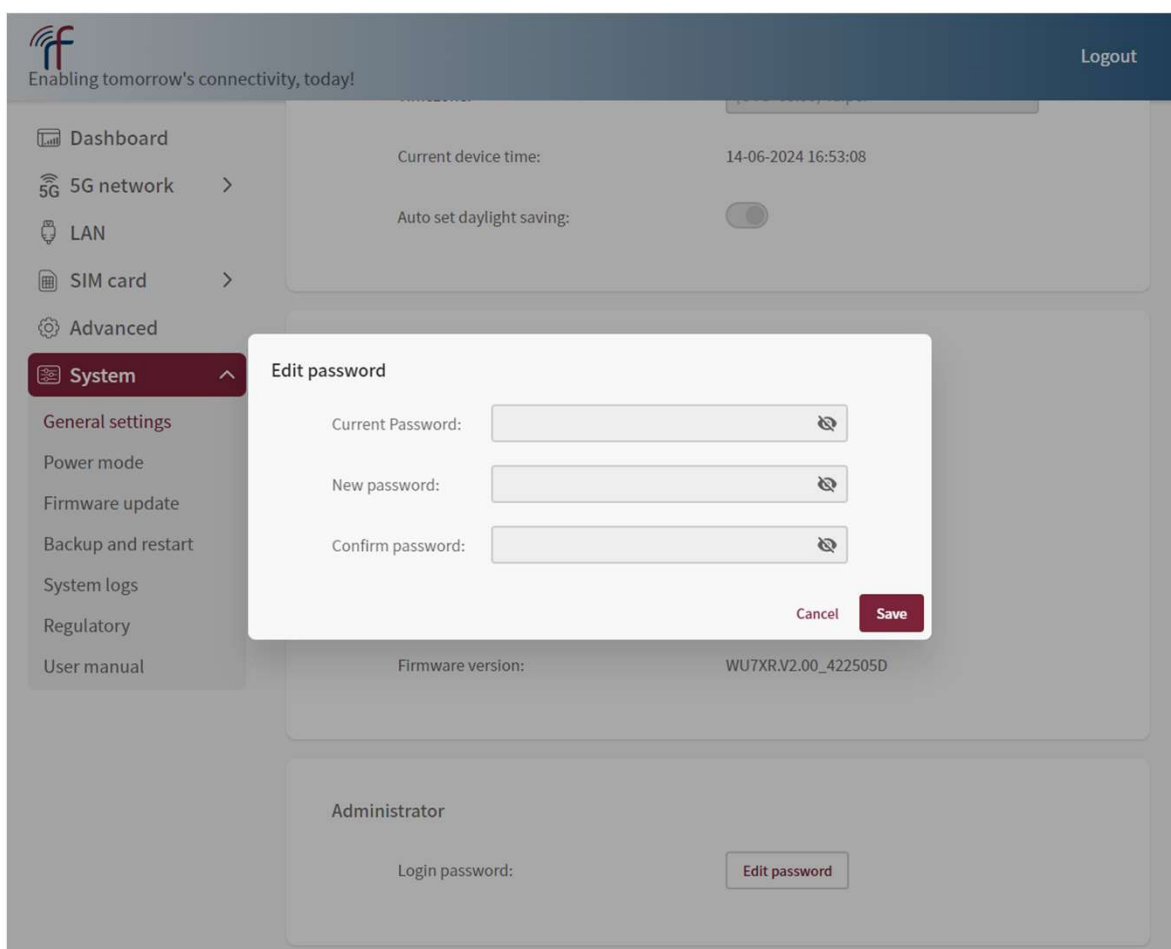
- System time
- Device info
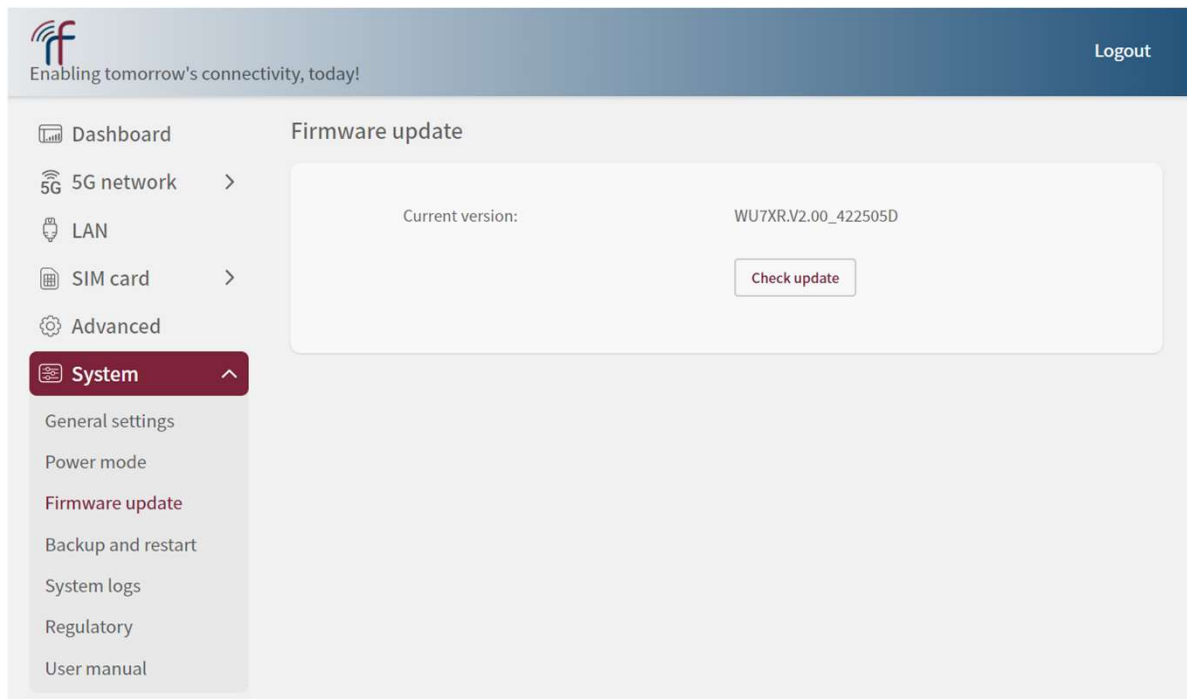
3.4.2 Administrator

    a.   To change admin password, click "Edit password". You will find the following dialog.

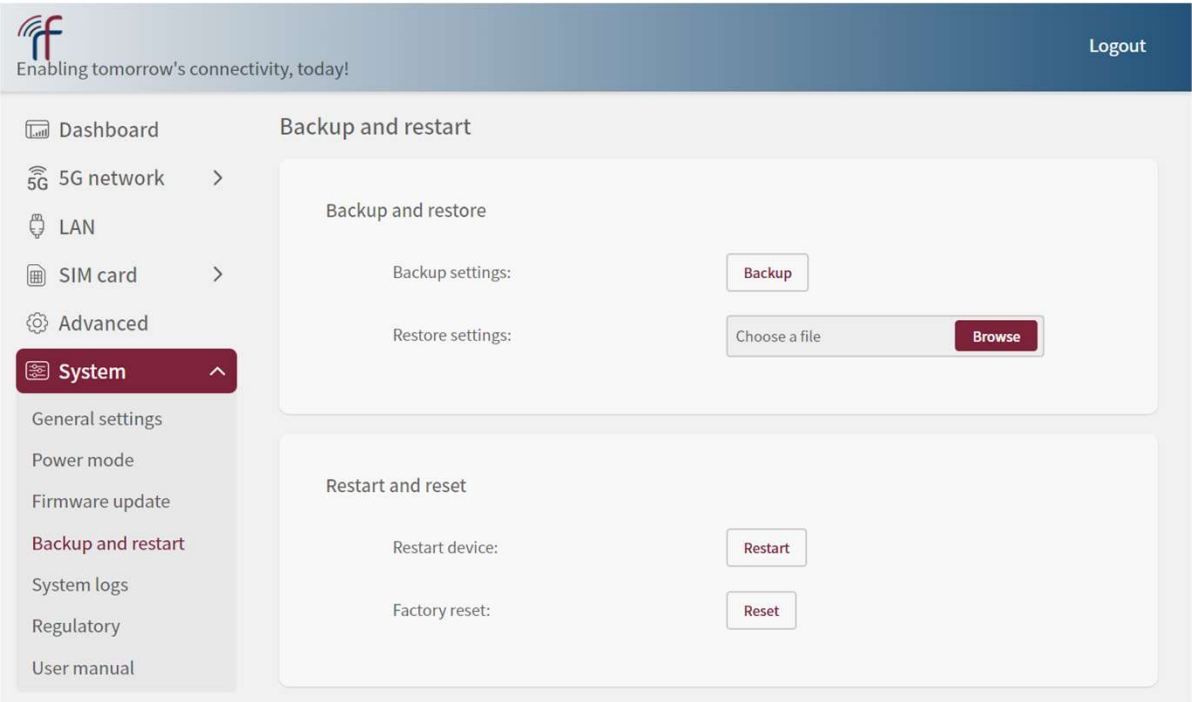   b.   Click save after entering current password followed by the new password.
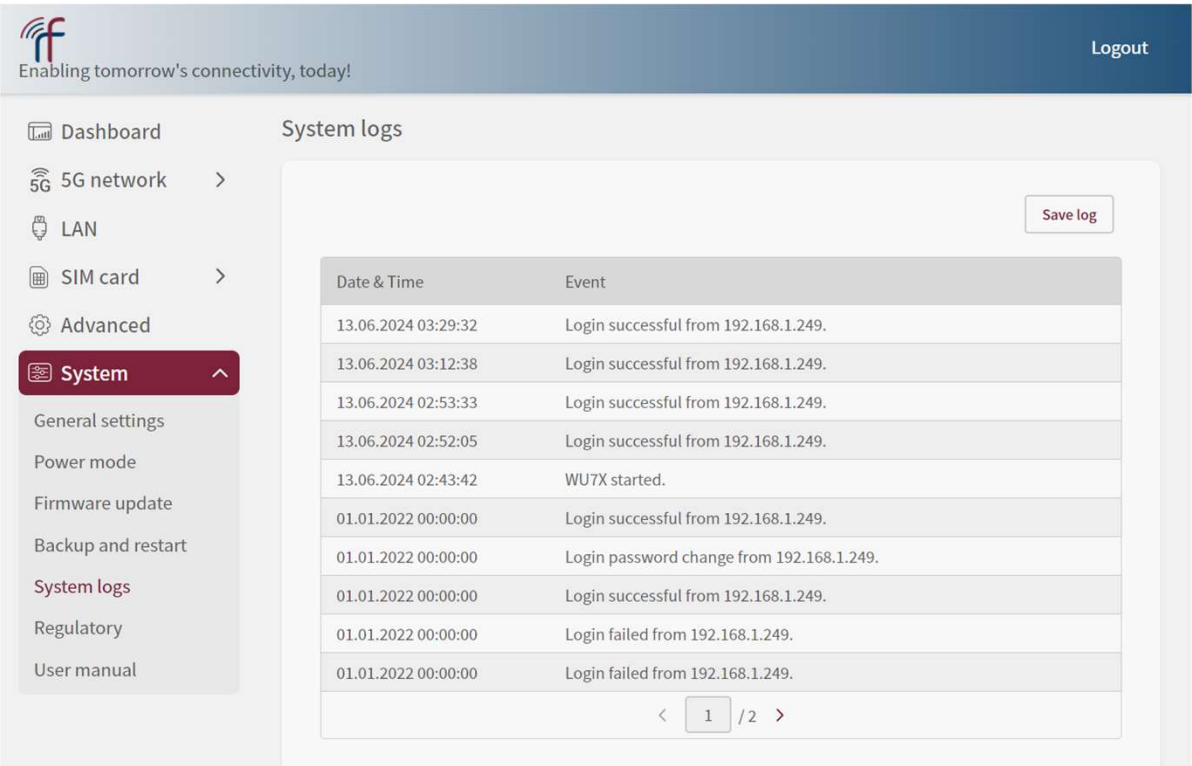
3.4.3 Firmware update

3.4.4 Backup and restart

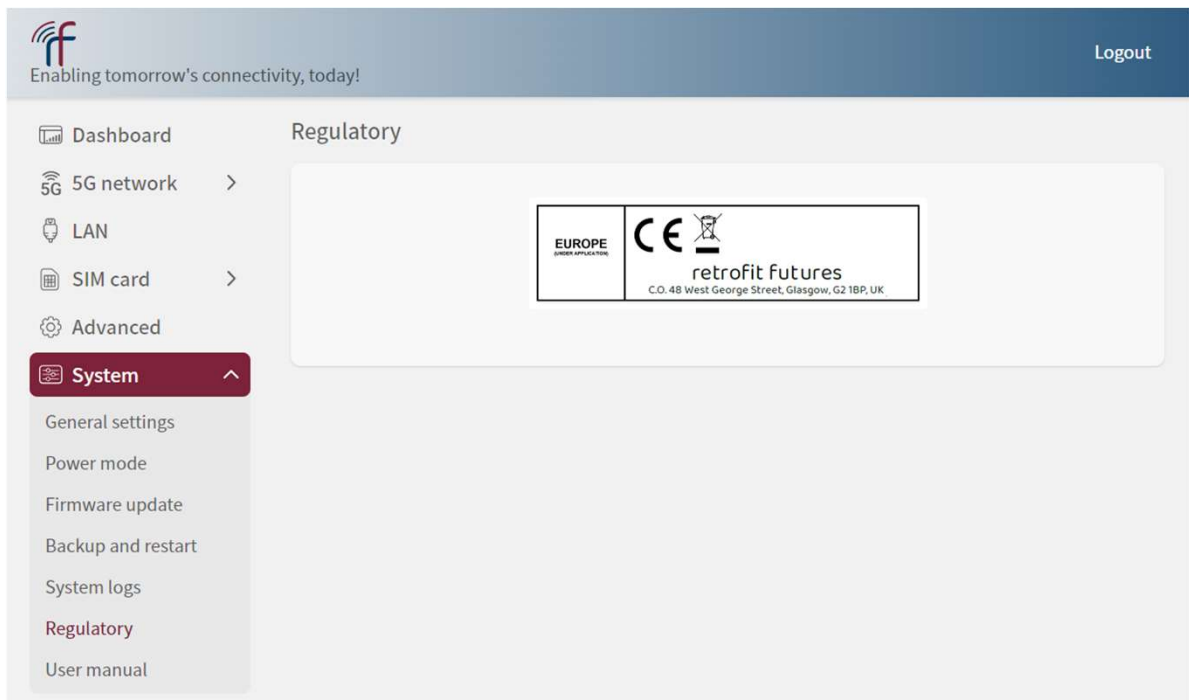### 3.4.5 System logs

3.4.6 Regulatory

4. Regulatory Information

4.1 Model: RF-LA-5G

4.1.1 DOC

This device complies with Directive 2014/53/EU and 2011/65/EU issued by the Commission of the European Community.

Hereby, we declare that the radio equipment type RF-LA-5G Dongle is in compliance with Directive 2014/53/EU and 2011/65/EU. The full text of the EU declaration of conformity is available at Web UI: http://192.168.1.1 > System > Regulatory.

4.1.2 Body-worn Operation

A minimum separation distance of 5 mm must be maintained between the user's body and the device, including the antenna during body-worn operation to comply with the RF exposure requirements in Europe.

4.1.3 Support Period

The support period of the device can be found at https://retrofitfutures.uk/support

To report a security issue of the device please visit https://retrofitfutures.uk/security

4.1.4 EU Regulatory Compliance

The frequency and maximum transmitted power list is below:

Frequency Band	Max. Power(dBm)
LTE FDD Band 1	24
LTE FDD Band 3	24
LTE FDD Band 7	24
LTE FDD Band 8	24
LTE FDD Band 20	24
LTE FDDBand 28	24
LTE TDD Band 38	24
LTE TDD Band 40	24
LTE TDD Band 41	24
LTE TDD Band 42	24
LTE TDD Band 43	24

4. Regulatory Information

Frequency Band	Max. Power(dBm)
NR n1	24
NR n3	24
NR n7	24
NR n8	24
NR n20	24
NR n28	24
NR n38	24
NR n40	24
NR n41	27
NR n77	27
NR n78	27

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