STRONG

4G LTE ROUTER 350 MINI

4GROUTER350M



Table of Contents

I. Introduction ---- 4
1. General Introduction ---- 4
2. Presentation of the Device and its LEDs ---- 4
3. Presentation of the Web UI ---- 6
II. Configuring your Device and Network ---- 8
1. Inserting your SIM card ---- 8
2. Placing the antennas ---- 10
3. Switching on the device ---- 11
4. Connecting your Device with an Ethernet Cable and Accessing the Web UI ---- 15
5. Connecting to the Wi-Fi and Accessing the Web UI ---- 17
6. Changing the administrator password in the Web UI ---- 20
7. Entering your PIN code in the Web UI ---- 22
8. Enabling/Disabling the Wi-Fi ---- 24
9. Editing the APN Settings ---- 25
10. Activating the WPS ---- 31
11. Resetting the device to its factory configuration ---- 32
III. Using the Web UI ---- 35
1. Disabling your PIN code in the Web UI ---- 36
2. Changing the PIN code ---- 41
3. Changing the SSID (Wi-Fi Network Name) and password ---- 47
4. Updating the device Firmware ---- 54
IV. Customized Settings ---- 56
1. Advanced Settings ---- 56
1.1. Router ---- 56
1.2. Firewall ---- 56
1.2.1. Port Filtering ---- 56
1.2.2. Port Mapping ---- 58
1.2.3. Port Forwarding ---- 60
1.2.4. UPnP ---- 62
1.2.5. DMZ ---- 63
1.2.6. Band Selection ---- 64
1.3. Restart and Reset ---- 66
1.3.1. Restart Device ---- 66
1.3.2. USSD ---- 67
1.3.3. Connected Status ---- 68
1.4. Network Settings ---- 69
1.4.1. Network Settings ---- 69

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1.4.1.1. Connection Mode ---------- 69
1.4.1.2. Network Selection ---------- 71
1.4.2. Wi-Fi Settings ---------- 74
1.4.2.1. Guest SSID ---------- 74
1.4.2.2. Internet Wi-Fi ---------- 78
1.4.2.3. Advanced Settings ---------- 79
1.4.2.4. WLAN MAC Filter ---------- 81
1.5. Statistic Settings ---------- 83
1.5.1. Data Management ---------- 83

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I. Introduction

1. General Introduction

The following user manual is meant to guide you in the installation process of your 4G ROUTER 350 M. For this purpose, we will detail the process to set up your device and network. In addition, we will present you the process to connect to Web UI and the different parameters that you can set, as well as the meaning of the LEDs that you can see on your device.

2. Presentation of the Device and its LEDs

Congratulations, you bought one of our 4G routers, now it is the time to present the device before configuring it for its first use.
The 4G Router 350 M works with a Micro SIM card that must be inserted in the SIM card slot with an adapter, depending on the size of the SIM card provided by your service provider. This manipulation must be done before switching on the device. Moreover, for your network to work you might need to unlock the SIM card by entering its pin code in the Web UI, for more information please see, Inserting your SIM card and Entering your PIN code in the Web UI.
Our router is equipped with two external antennas that you have to install in the dedicated slots on the rear side of the device.
On the front side of the device, you can see a few LEDs that give you information about the status of the network, Wi-Fi, WPS, etc.

Let's see the different meanings of these LEDs in detail, in the following picture.

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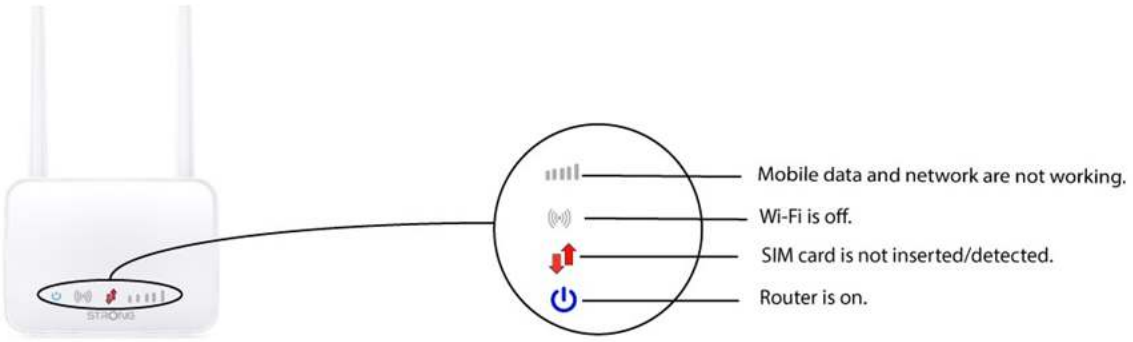

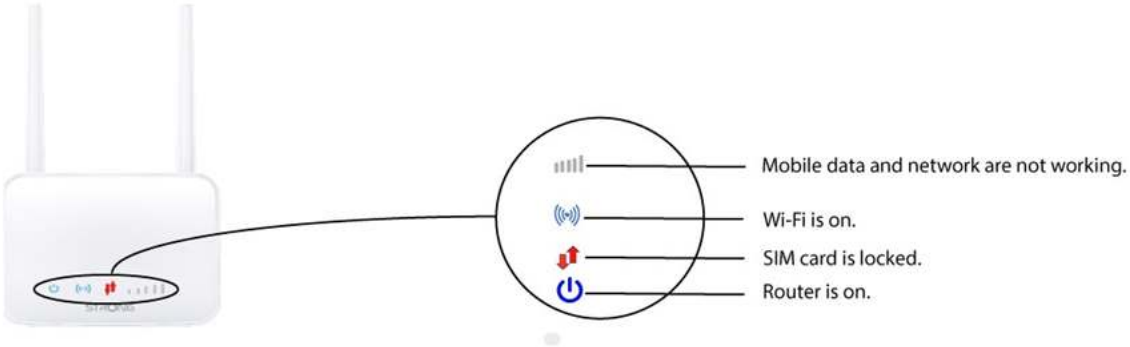

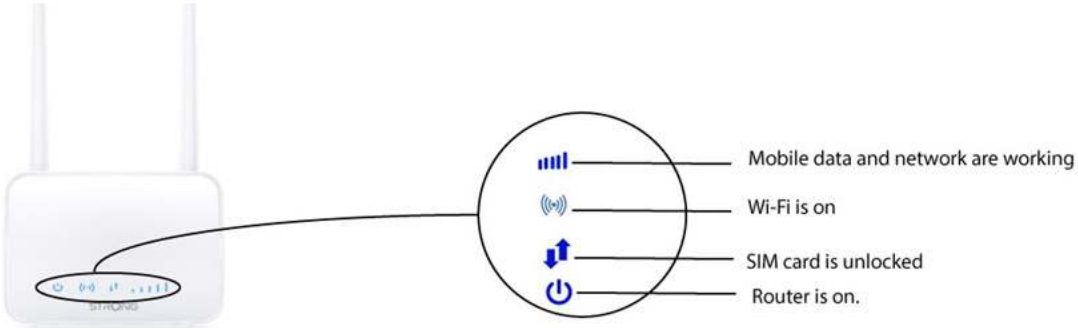

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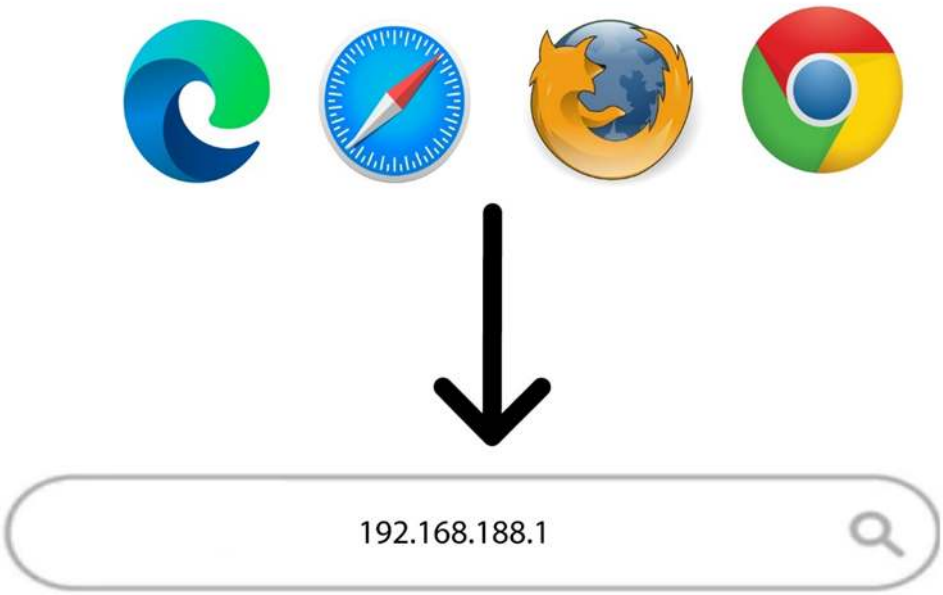
3. Presentation of the Web UI

The Web UI is the place where you can set up advanced parameters for your device but also customize your SSID, password and so much more.

1. The Web UI is accessible after connecting to the Wi-Fi of the device or to the internet connection of the router by using the Ethernet cable and entering the following IP Address in your browser:



Once you have entered the password, you can see that the Web UI is organised into different sections:

a. The first section is located above the top bar menu and provides information about the Wi-Fi network, SIM Card status; service provider coverage, the number of devices connected through ethernet. You can also modify the admin password.

- The second section is the top bar that contains the different menus:

a. **Quick Settings**: where you can edit your SSID (Wi-Fi Network Name) and Wi-Fi password.

b. **Advanced Settings**: where you can set up the Wi-Fi Power Settings, Firewall, Router IP Address, Update the software, choose the band for the Internet coverage and create a SNTP.

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c. **USSD**: where you can access information regarding the remaining data of your plan for instance.

- The main part of the UI which is made of the 5 menus: Connect Status, Network Settings, Connected Devices, Statistics and Status Information.

a. **Connect Status**: where you can disconnect the router from the 4G network and see the upload and download speed of your connection.

b. **Network Settings:** where you can set up the Wi-Fi settings **(Main SSID, Guest SSID, WPS, Internet Wi-Fi, Advanced Settings, WLAN MAC Filter)** and the Network Settings **(Connection Mode, Network Selection** and **APN)**

c. **Connected Devices**: where you can see the list of connected devices.

d. **Statistics:** where you can set up an alert for the number of data used on your plan.

e. **Status Information:** where you can see the information of your network (IP Address, Wi-Fi coverage type, Software version, etc.)

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II. Configuring your Device and Network

1. Inserting your SIM card

When you are setting up your device, the first step is to insert your SIM card as it is used as the source of your internet connection. A full-size SIM card must be inserted in our device.

If your SIM card is micro or nano, please place the SIM card in the adapter provided in the package.

1. To place your SIM card in the dedicated slot, you must remove the plastic cover of the slot.

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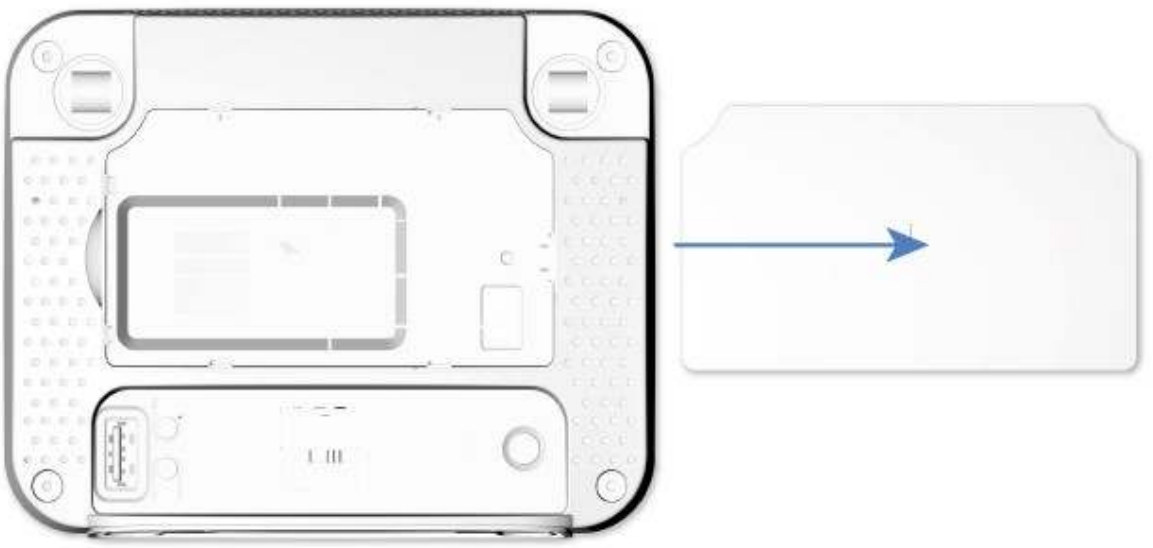
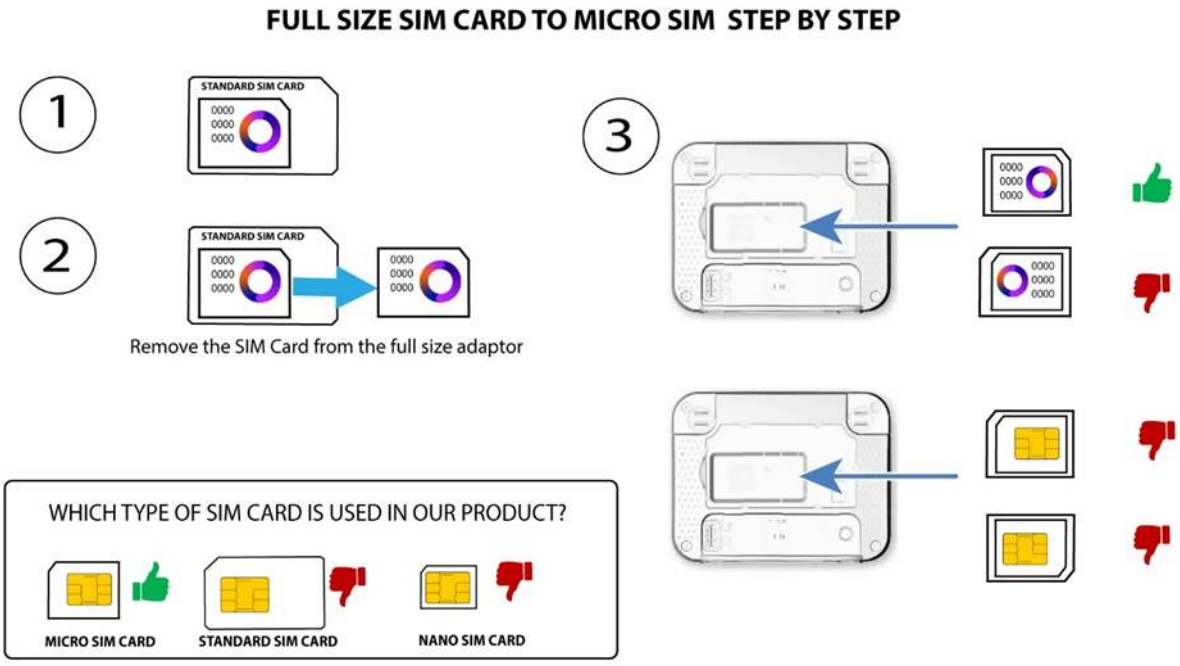


- **Case 1: Micro SIM Card**

Then your SIM card must be placed as follows:



- **Case 2: Nano SIM Card**

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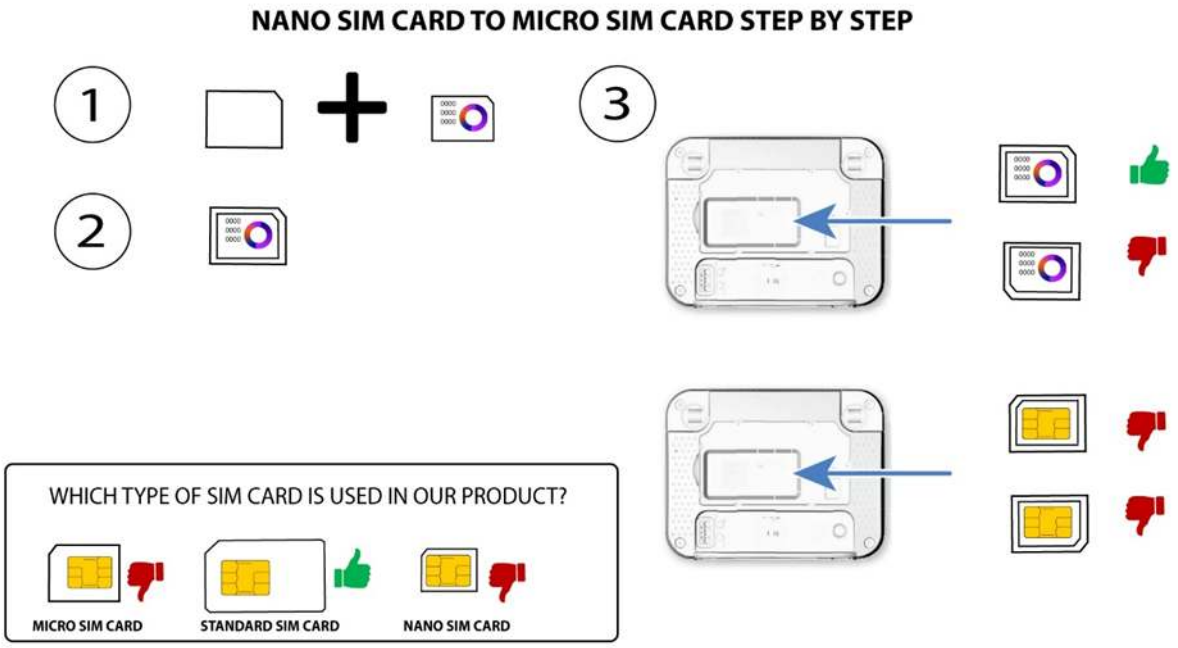
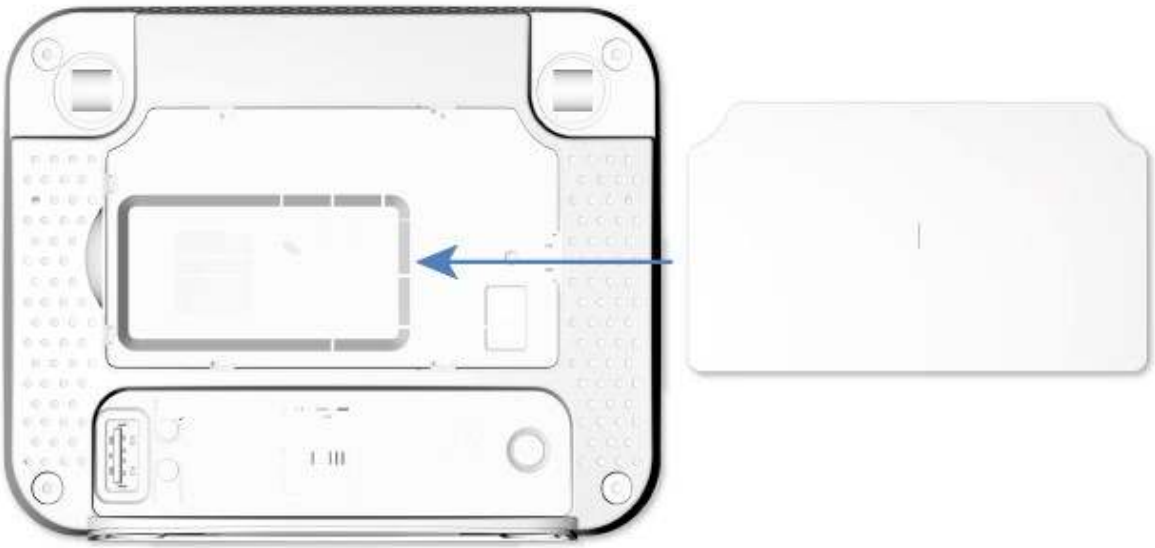


2. Once your SIM card is properly inserted, put back the cover.



2. Placing the antennas

After installing your SIM card, you must remove the cover located on the top rear side of your device to place the two external antennas as follows:

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3. Switching on the device

1. After that, you must insert the power cable in the power hole **(A)** and plug it into the outlet (**B**). Then press the **Power** button **(C)**.

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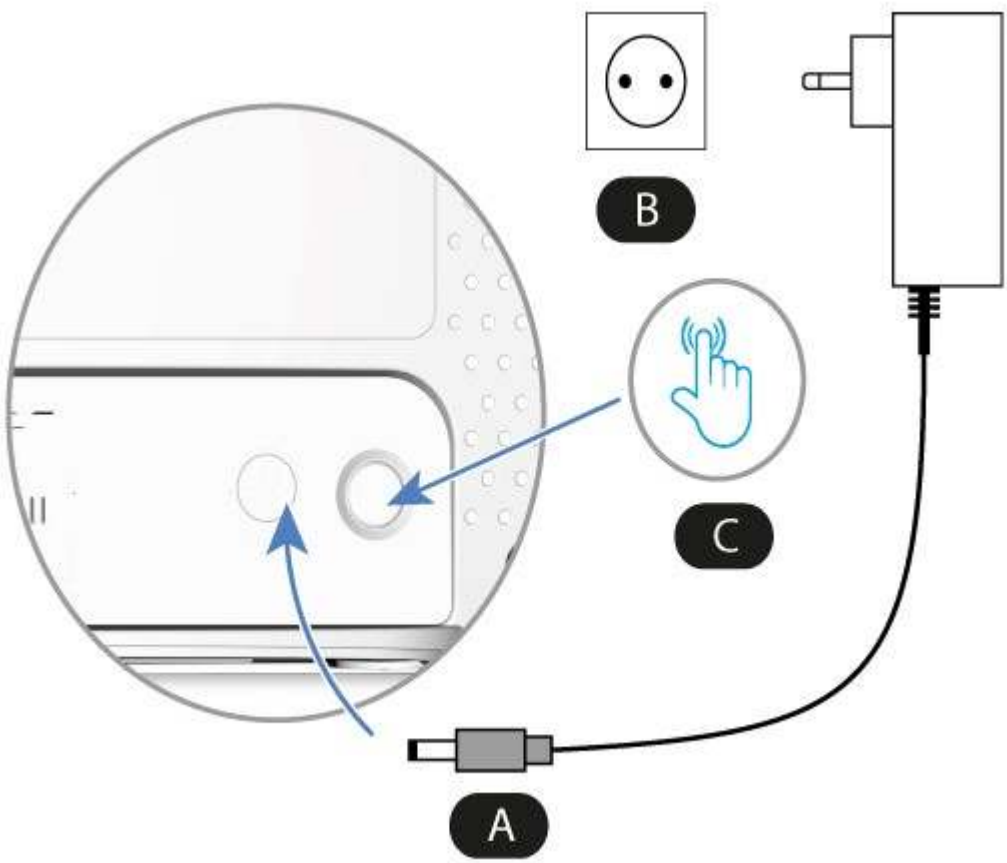

2. After a few seconds, the LEDs located on the front side of the device are lit if the sim card is unlocked.

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3. When the SIM card is protected by a pin code, only the Wi-Fi and power LEDs are lit.



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1) In this case, you will need to connect to the Web UI of the device to unlock it. You can either access the Web UI after connecting your computer to the router with the RJ45 cable or to the Wi-Fi of the router after typing this IP Address: **192.168.188.1.**



4. Connecting your Device with an Ethernet Cable and Accessing the Web UI

Once, your SIM card is installed and after switching on the router, you can connect the device to your computer to access the Web UI if you need to enter the PIN code.

1. To do so, insert the RJ45 cable in the **WLAN** hole located on the rear side of the device. Connect the other side of the cable to your device, as shown in the schema below:

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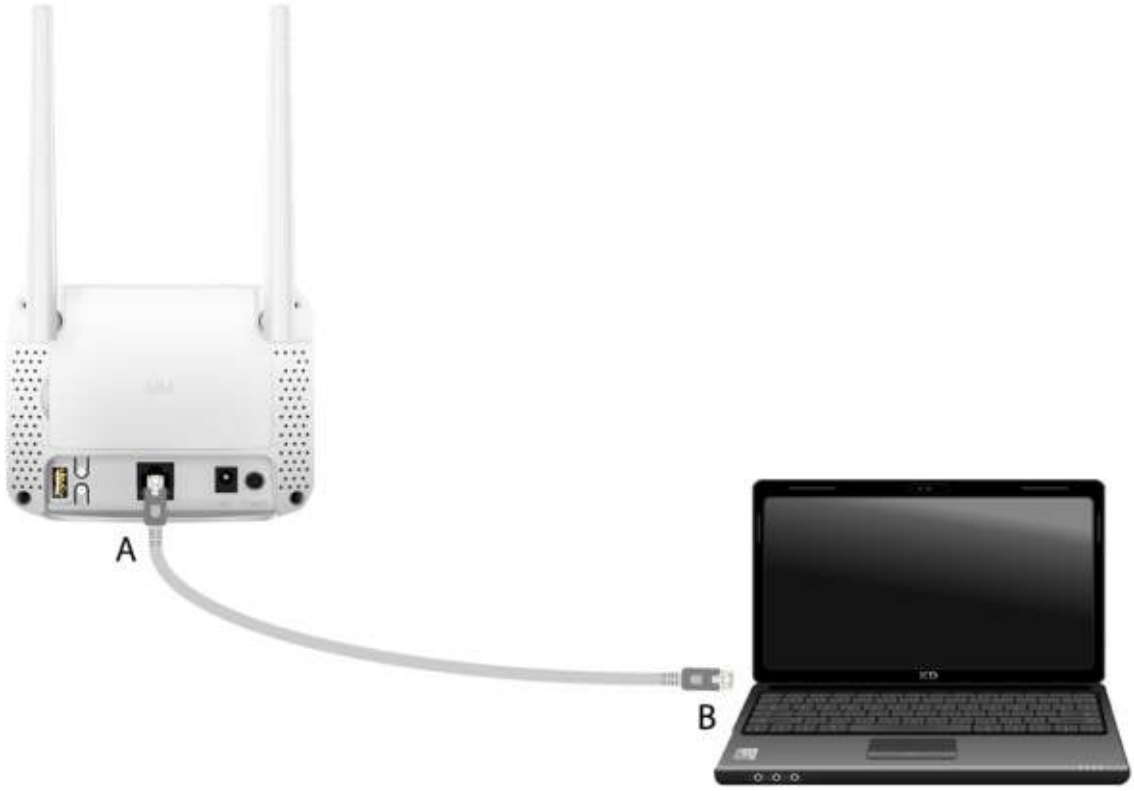
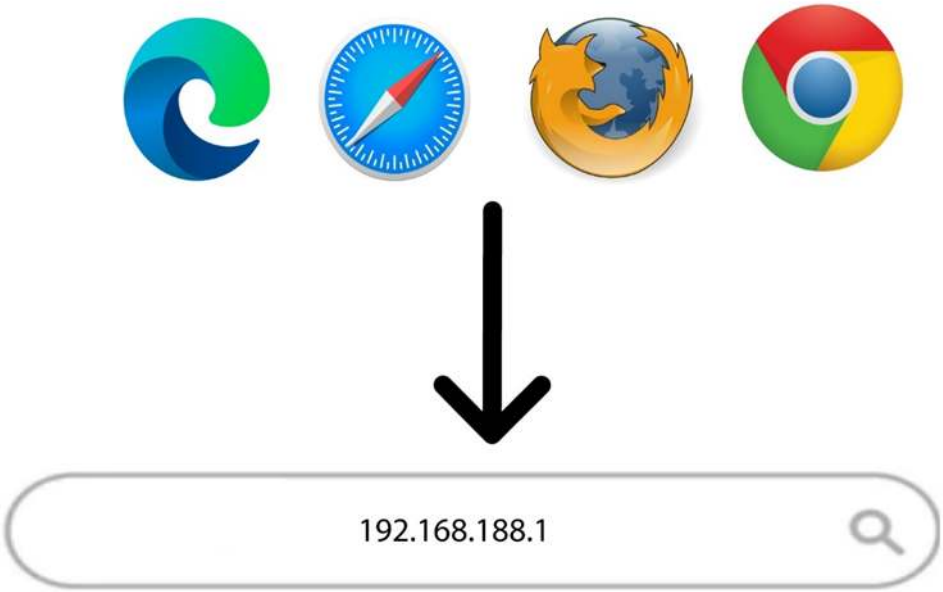


2. Then you can access the Web UI by typing this **IP Address** in your browser:



3. Next, you must enter the **Password**. Click **Login**.

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5. Connecting to the Wi-Fi and Accessing the Web UI

You can connect any compatible device to the Wi-Fi of your device and access the Web UI to customize your configuration.

1. To connect to the Wi-Fi, look at the rear side of your router and locate the sticker where the **SSID** and **Password** are written. Then, enter the information in your device.

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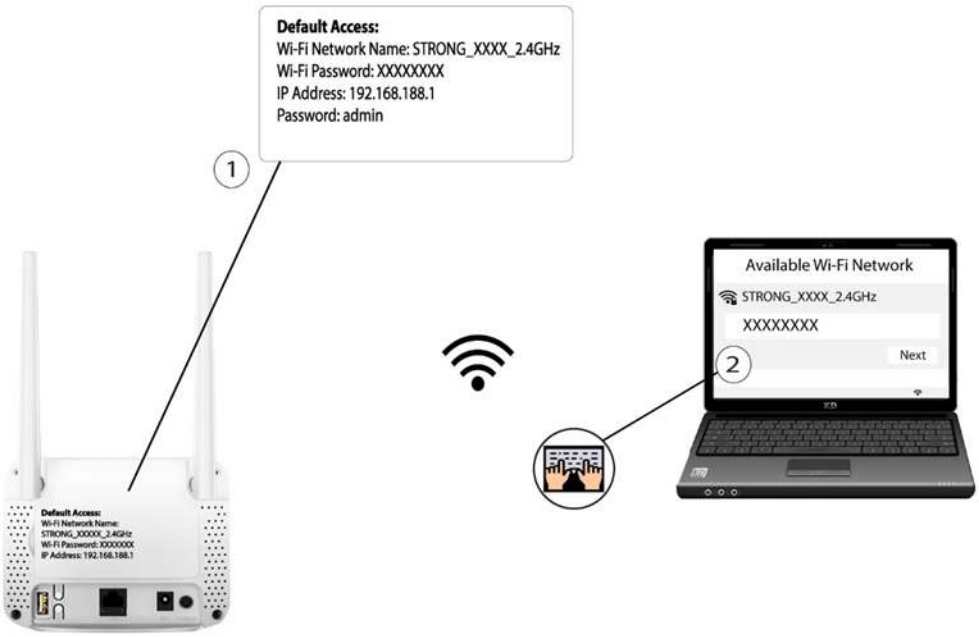
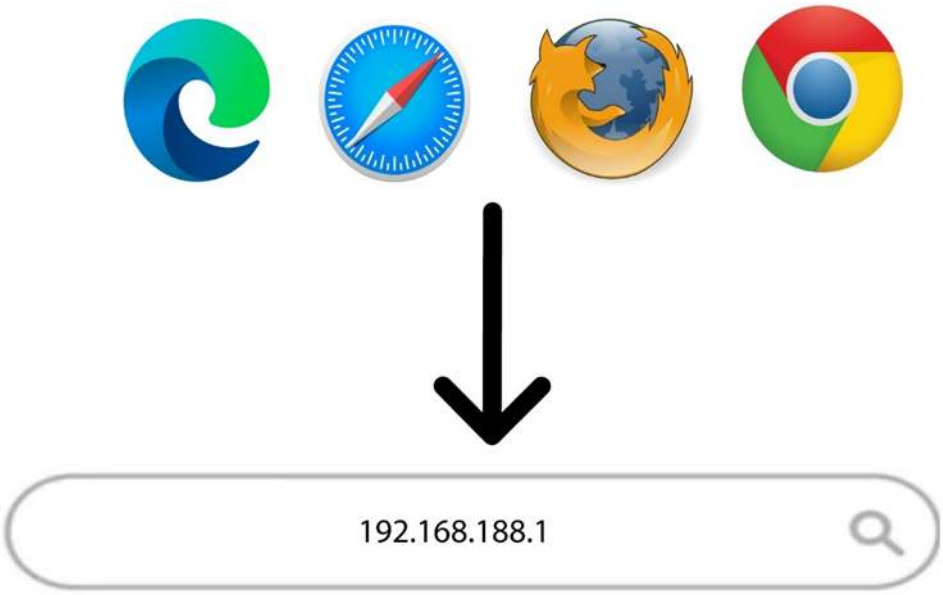


2. Then enter the following IP address in your browser: **192.168.188.1**



3. A new page opens in which you must enter the **Password** before clicking the **Login** button.

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⚠ WARNING: Please note that we strongly advise you to change the admin password. If you decide to change it, your new password must contain at least 8 characters with upper and lower cases, number, and special characters. We strongly suggest using the same password as the one used for the Wi-Fi connection, as this password is unique for your device.
For more information about the process to change your password, please refer to Changing the administrator password in the Web UI.

4. Once you are connected to the Web UI, you will see the home page:

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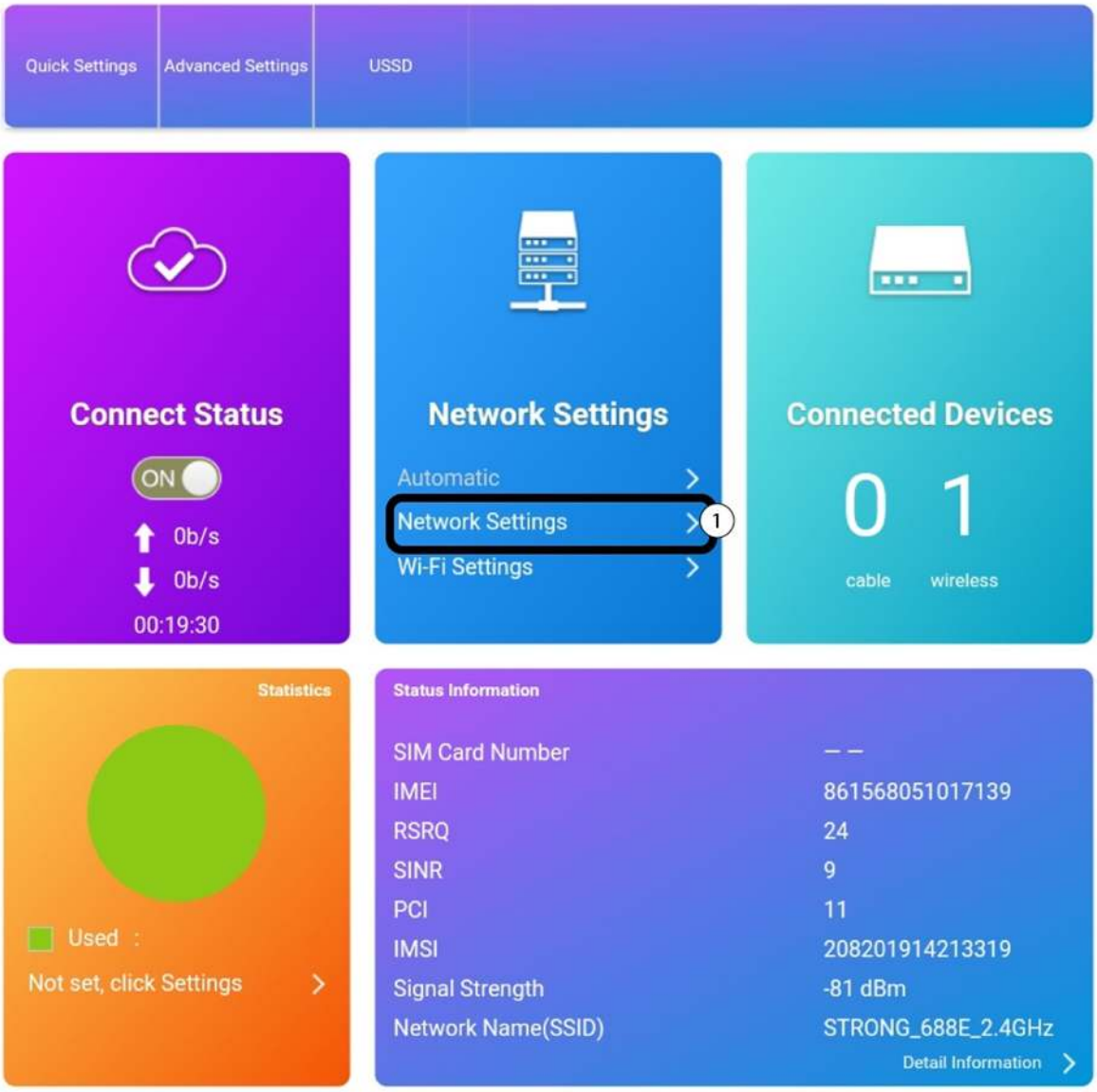

6. Changing the administrator password in the Web UI

We strongly recommend updating the administrator password and username once you're connected to the Web UI, and after you set up all the necessary parameters for your device.

⚠ WARNING: Please note that we strongly advise you to change the admin password. If you decide to change it, your new password must contain at least 8 characters with upper and lower cases, number, and special characters. We strongly suggest using the same password as the one used for the Wi-Fi connection, as this password is unique for your device.

1. To do so, you must connect to the Web UI according to the process described in:

- Connecting your Device with an Ethernet Cable and Accessing the Web UI
- Connecting to the Wi-Fi and Accessing the Web UI

2. Once this is done, click the **Modify Login Password** in the top bar**.**

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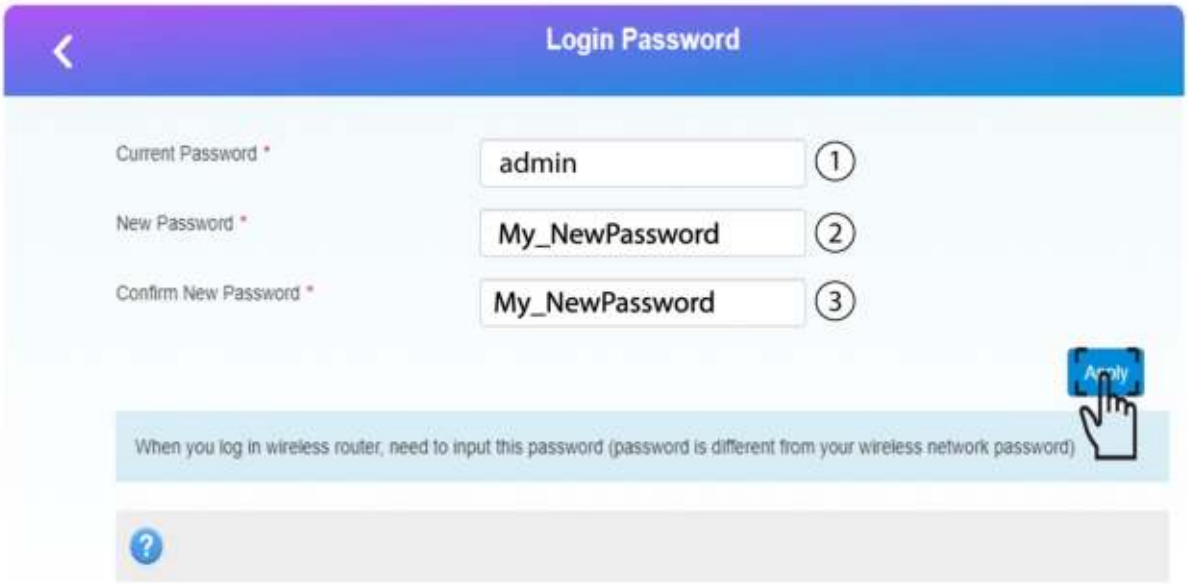
3. Enter the following information before clicking **Apply**:

- **Current Password:** Enter the current password.
- **New Password:** Enter the new password.

⚠ WARNING: . The new password can contain up to 32 characters including numbers, lower case, upper case, and special characters (! # $ * + , - . % : = ? @ [ ] ^ _ { | } ~).

- **Confirm New Password:** Enter the same password as in the previous field.



4. Write down the new password to access the Web UI.

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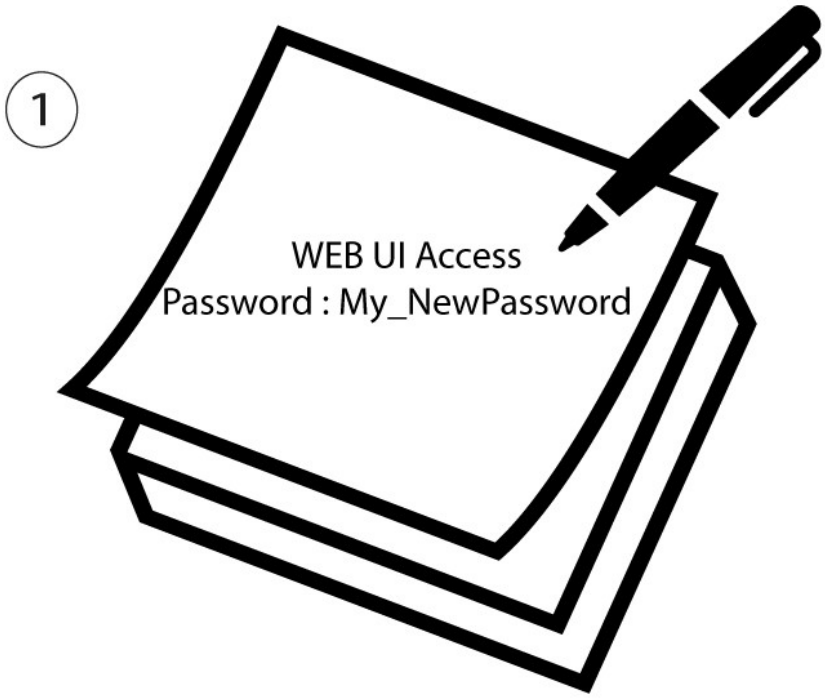

7. Entering your PIN code in the Web UI

After inserting your sim card and switching on the device, you might need to connect to the Web UI if you notice that the network signal LEDs are not lit and that the vertical arrows are white or red, which can indicate that your SIM card is locked by the PIN code and/or not properly detected.

1. In this case, you must connect to the Wi-Fi and access the Web UI
2. Enter your PIN code in the field and click **Apply**.

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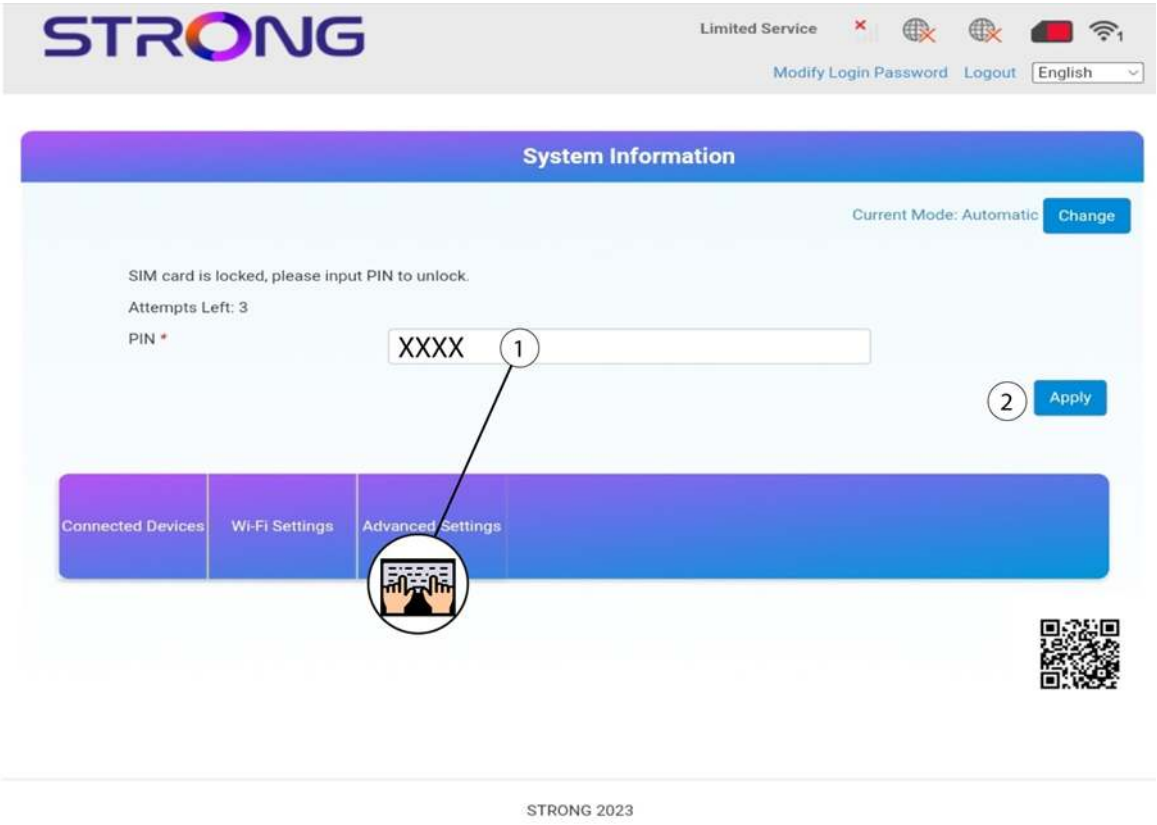

3. The SIM card is unlocked, and its icon now turns green with the network name next to it.



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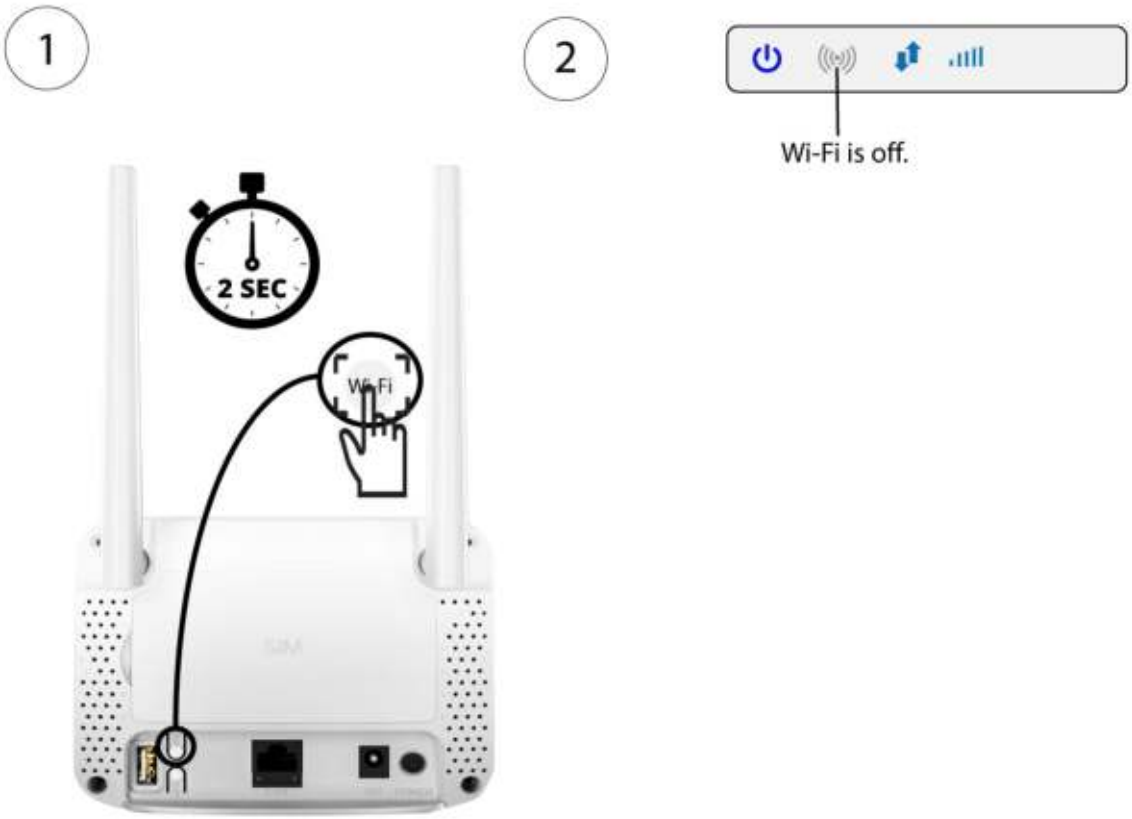
8. Enabling/Disabling the Wi-Fi

You can decide that you do not need to use the Wi-Fi of your router, if this is the case, simply press the Wi-Fi button located on the back of the router for 2 seconds. To reactivate it simply press it again for 2 seconds.



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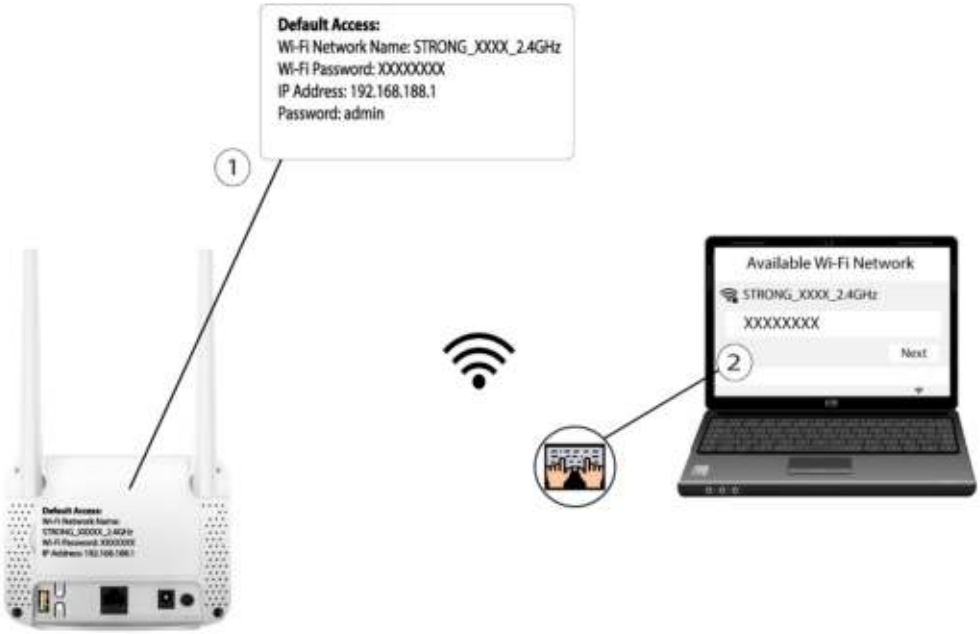
9. Editing the APN Settings

ⓘ TIPS: We recommend editing the APN settings only if you are not receiving any signal from the SIM card inserted in the device, only after checking that the SIM card is properly inserted and unlocked by entering its PIN code in the Web UI.
For more information about the way to insert your SIM card, please see Inserting your SIM card.
For more information about the procedure to enter your PIN code, please see Entering your PIN code in the Web UI.

When your SIM card is not automatically recognized by the device you must login the Web UI to check the APN settings and edit them, if necessary. The APN settings of your service provider can be found directly on its website, or you can request them to the support service of your service provider.

1. You must connect to the Web UI. To do so, enter the SSID (Wi-Fi Network Name) and Wi-Fi password of the router in your device:



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2. Then, enter the following IP address in your browser: **192.168.188.1**



3. You must enter the **Password**. Then, click **Login**.

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3. Click **Network Settings.**

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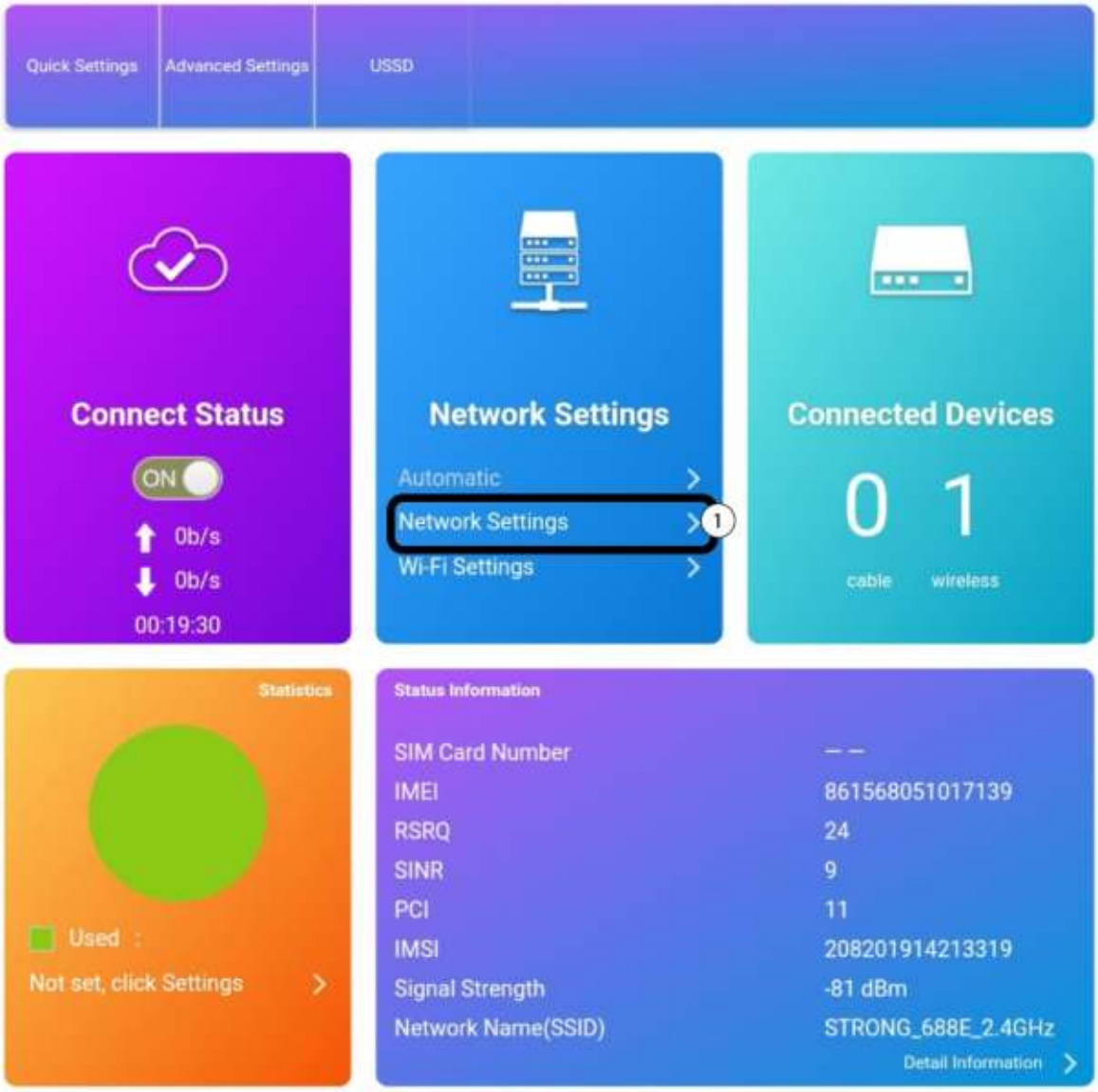

4. Look for the APN settings on your service provider's website. You need to write down the following information:

Name
APN
Username
Password
Authentication

5. If the information is incorrect, click APN and then **Manual** and **Add New**.

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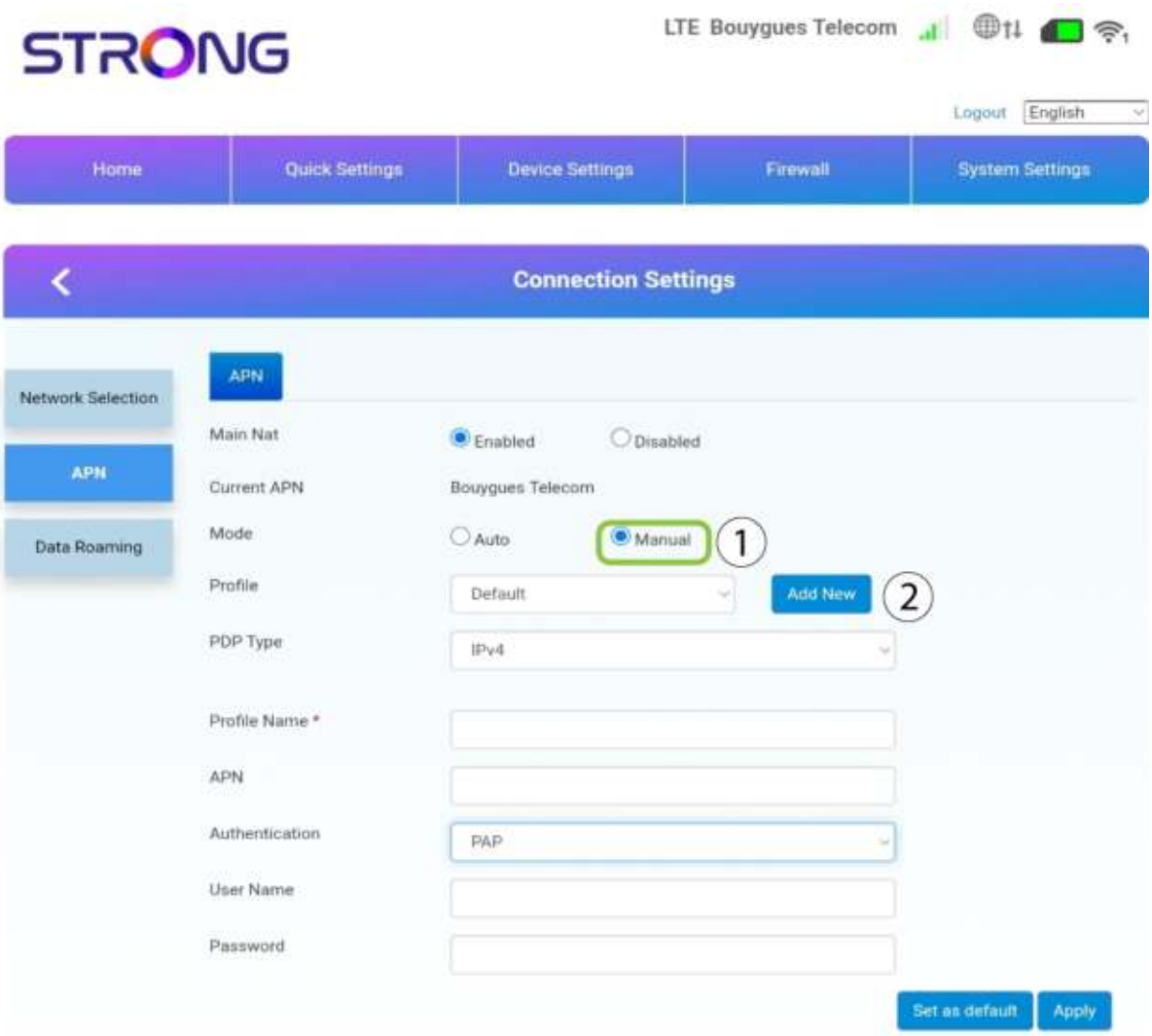

6. Enter the following information before clicking **Set as default**:
   - **PDP Type**: select IPv4 as the PDP Type value.
   - **Profile Name**: enter the name of your service provider.
   - **APN**: enter the APN address.
   - **Authentication Type**: Select the Authentication Type defined by your provider for your APN between the following values (NONE, CHAP, PAP)

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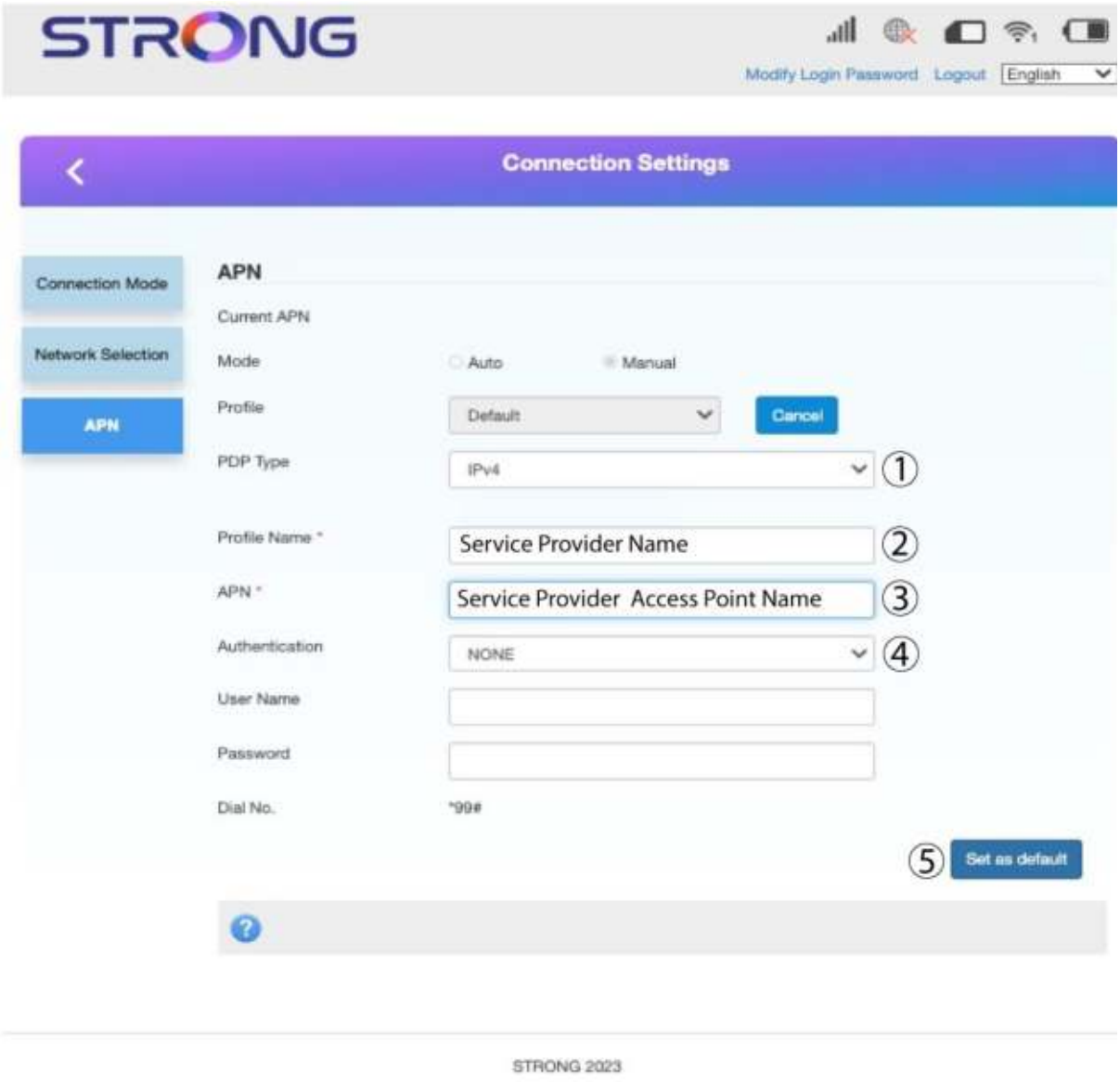

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10. Activating the WPS

1. Press the WPS button located on the rear side of the router for 2 seconds to allow any compatible device in your home to automatically to connect to the Wi-Fi network of the router.

1



2 On this router there is no LED to indicate that the WPS is activated

2. Go to the Wi-Fi settings of your computer and click on the name of the router to select it.

1



2



3. Then, click the connect button

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11. Resetting the device to its factory configuration

Sometimes, it is possible that your device is not working properly and that you don't have internet access. In this case, we suggest resetting your device to its factory settings and updating it afterward if necessary.
You have two ways to do it; you can reset the device by pressing the reset button or doing it in the Web UI.

- **CASE 1: Reset button.**

To do so, insert a paper clip in the hole to press the reset button. Press the reset button for 10 seconds. The LEDs will switch off and turn back on again.

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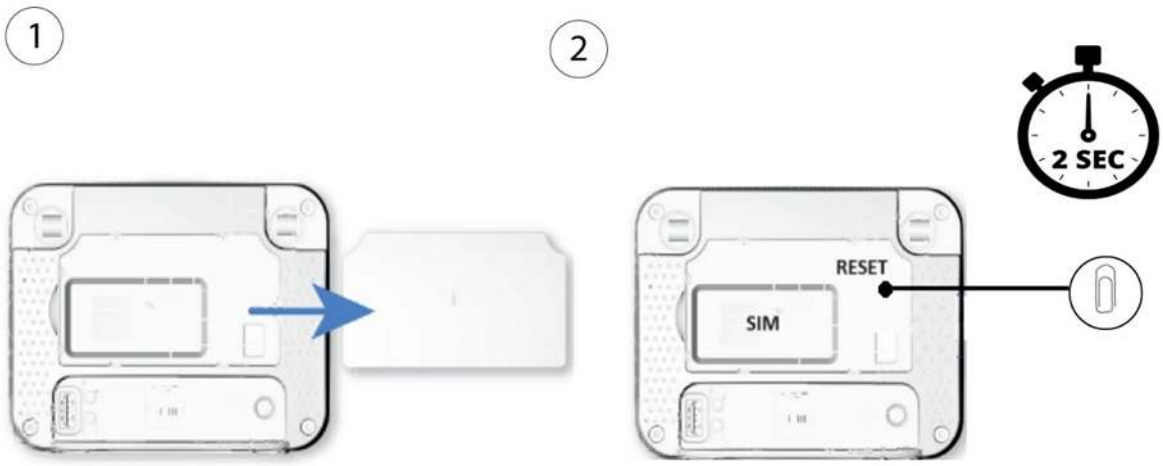

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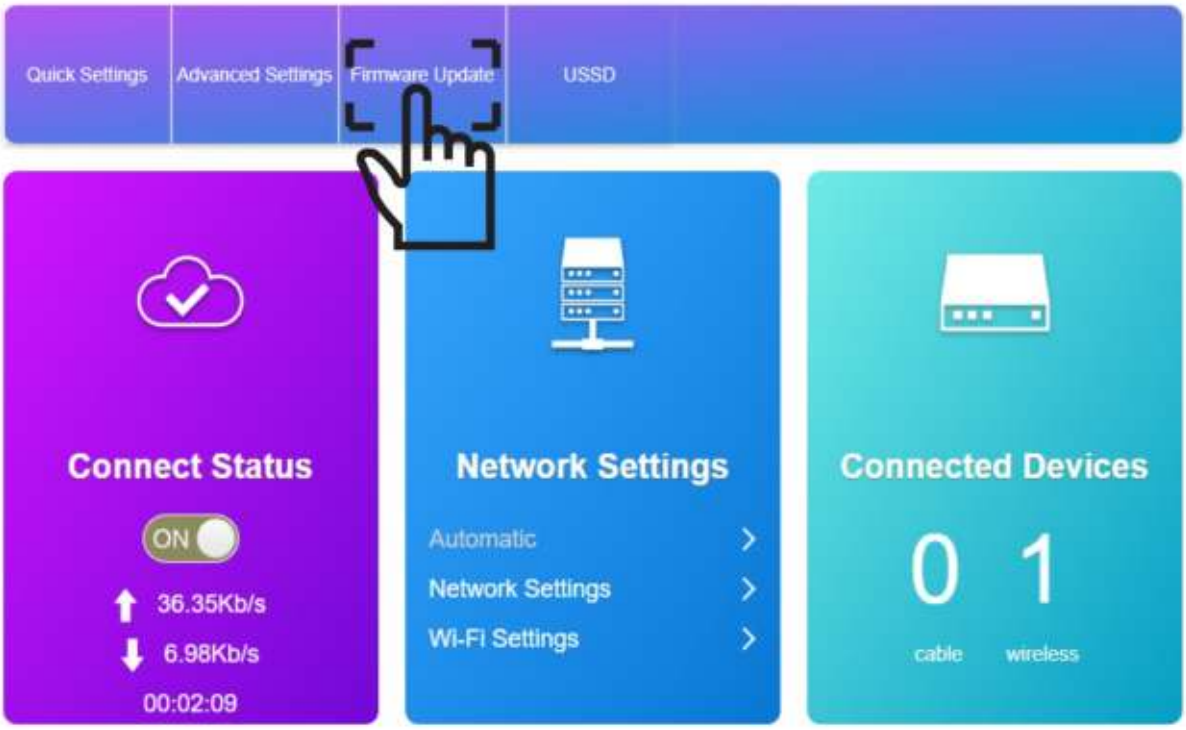
- **CASE 2: Reset in the Web UI**

1. To connect to the Web UI, please see the following procedures:
- Connecting your Device with an Ethernet Cable and Accessing the Web UI
- Connecting to the Wi-Fi and Accessing the Web UI
2. Then, click **Firmware Update.**



3. Click **Others.** In the **Restart and Reset** section **click reset Factory Settings.**

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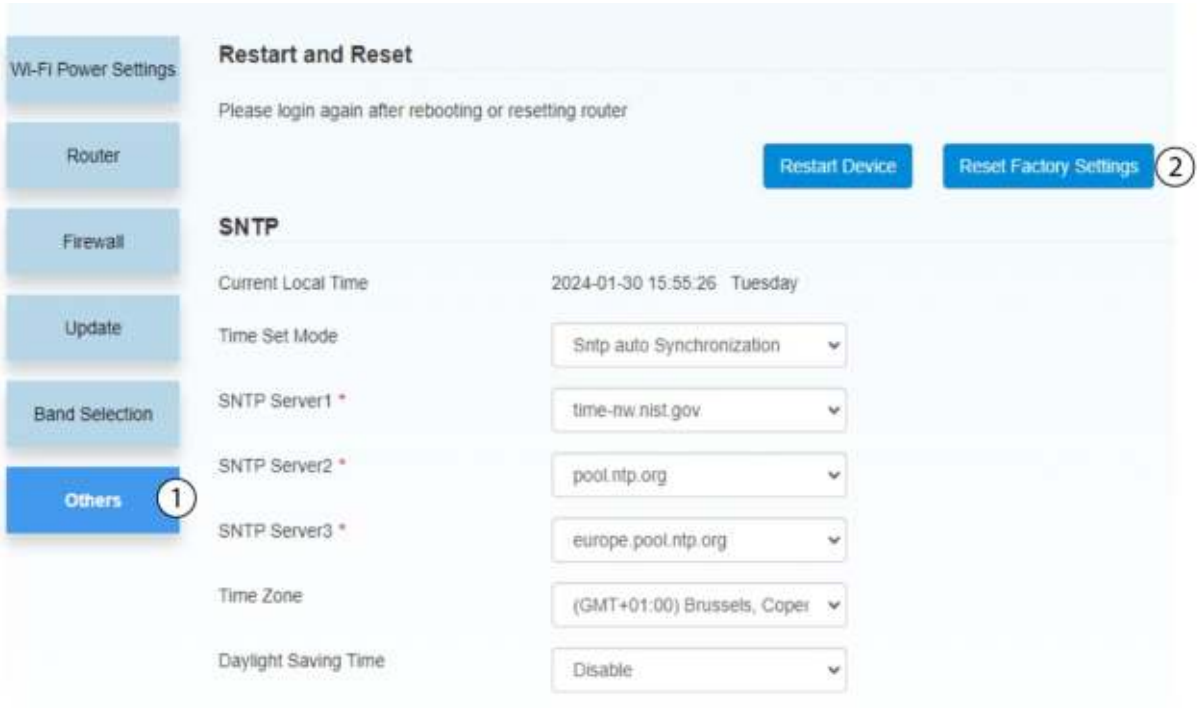
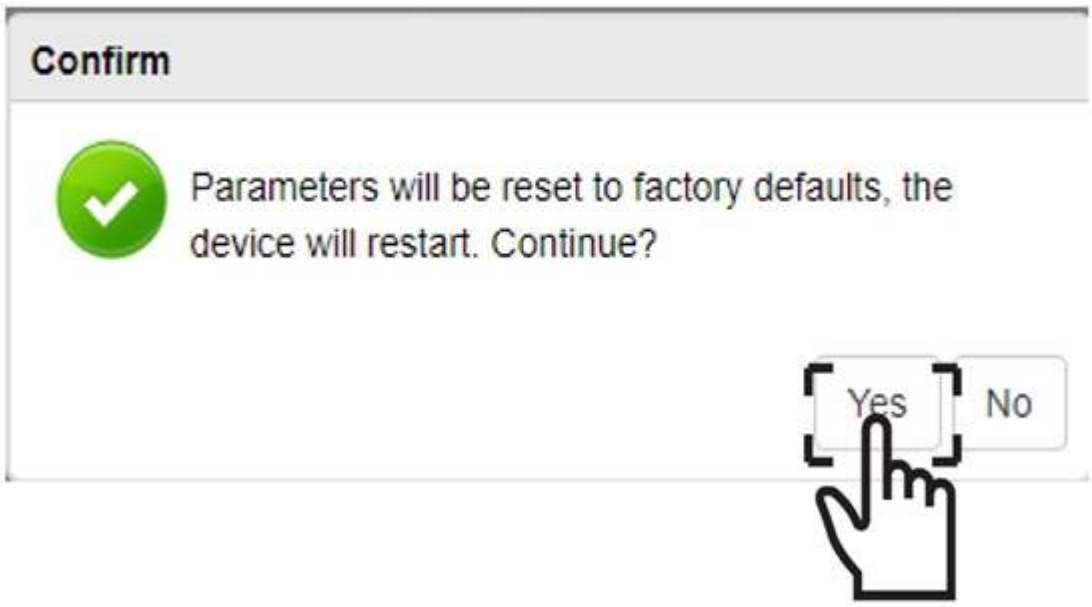


4. Click **YES** in the pop-up message**.**



III. Using the Web UI

Once you have configured your device and network, you can customize some settings. For instance, you can decide to deactivate/edit your PIN code, edit the SSID and password, and update the firmware.

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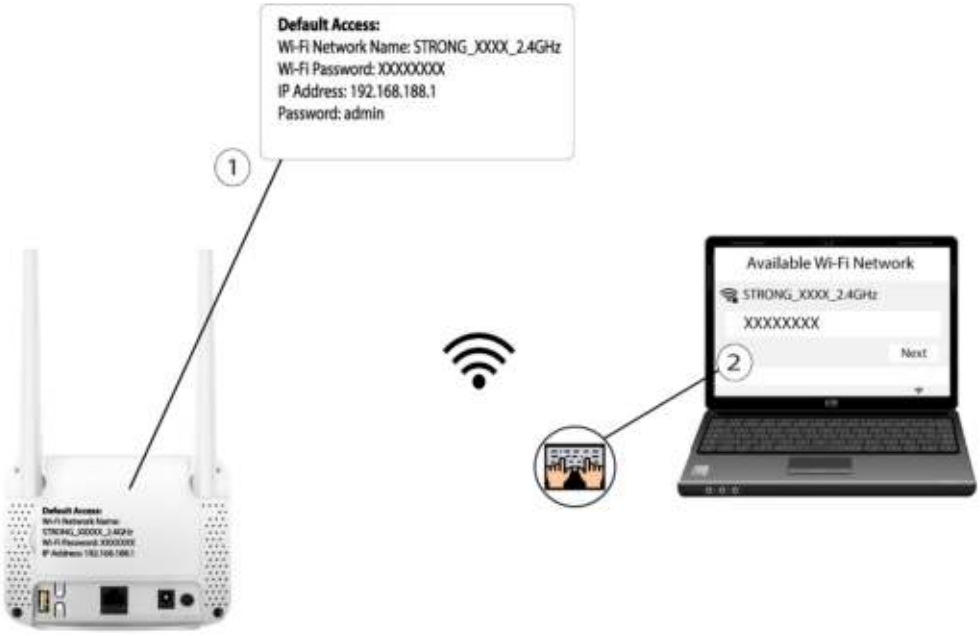
1. Disabling your PIN code in the Web UI

It is possible to deactivate the PIN code of your SIM card in the Web UI.

To do so, follow the procedure below.

1. You must connect to the Web UI. To do so, enter the SSID (Wi-Fi Network Name) and Wi-Fi password of the router in your device.



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2. Then, enter the following IP address in your browser: **192.168.188.1**



3. You must enter the **Password**. Then, click **Login**

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4. Click the toggle on the Connect Status Section and click **Advanced Settings.**

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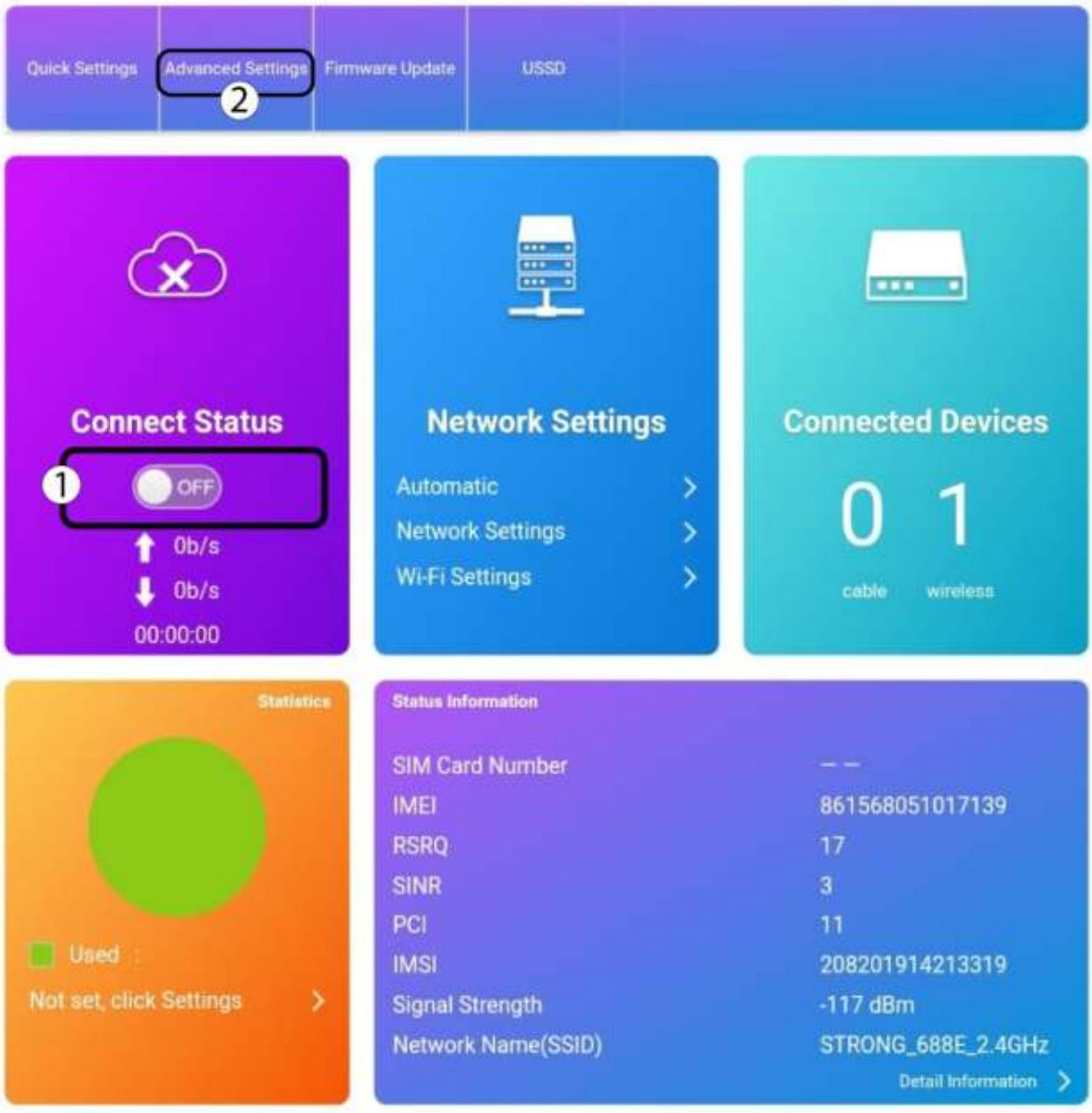

5. Click **Others** and **PIN Management**.

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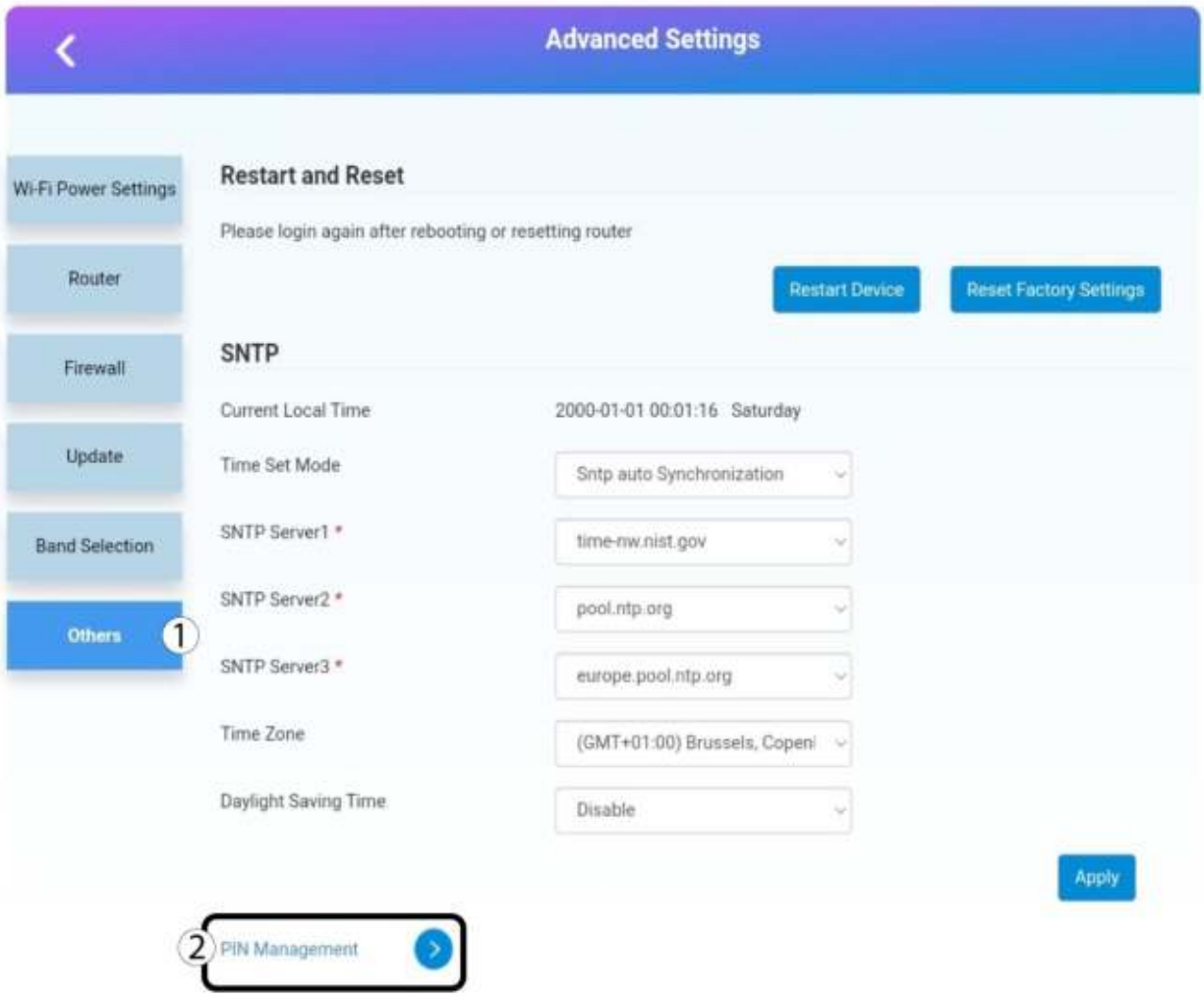

6. Click **Disable** and enter the PIN code then, click **Apply**.

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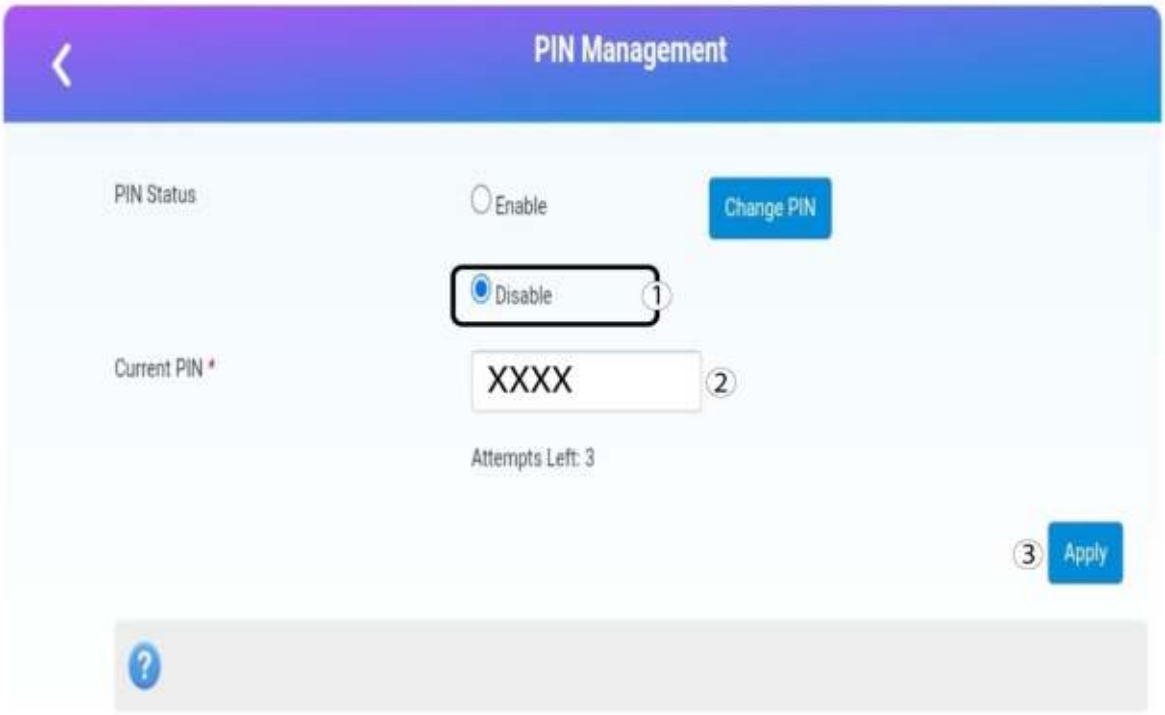

2. Changing the PIN code

It is possible to change the PIN code of your SIM card in the Web UI. To do so, follow the procedure below. You must connect to the Web UI.

1. To do so, enter the SSID (Wi-Fi Network Name) and Wi-Fi password of the router in your device.

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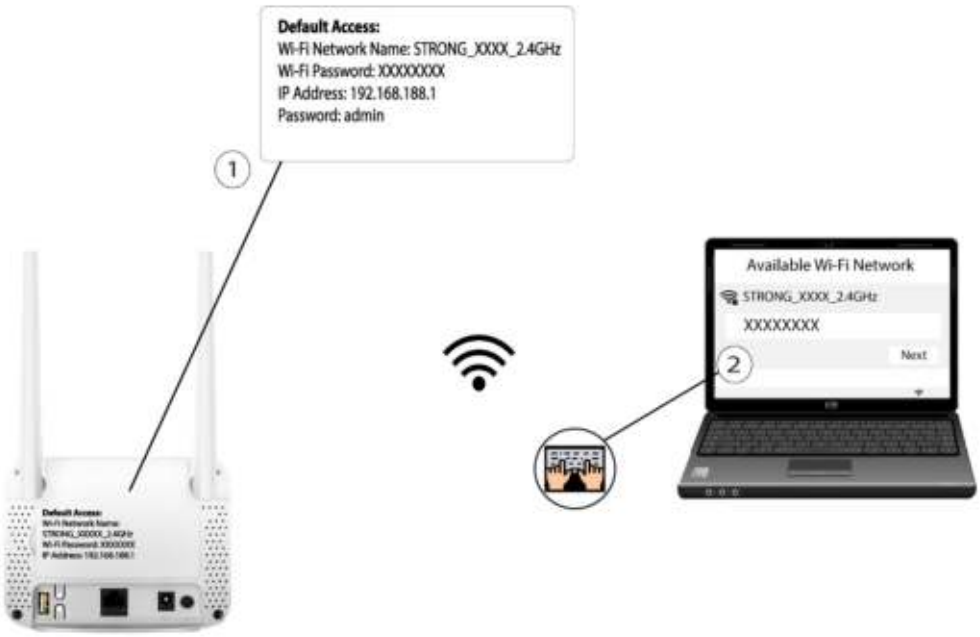

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2. Then, enter the following IP address in your browser: **192.168.188.1**



3. You must enter the **Password**. Then, click **Login**

.



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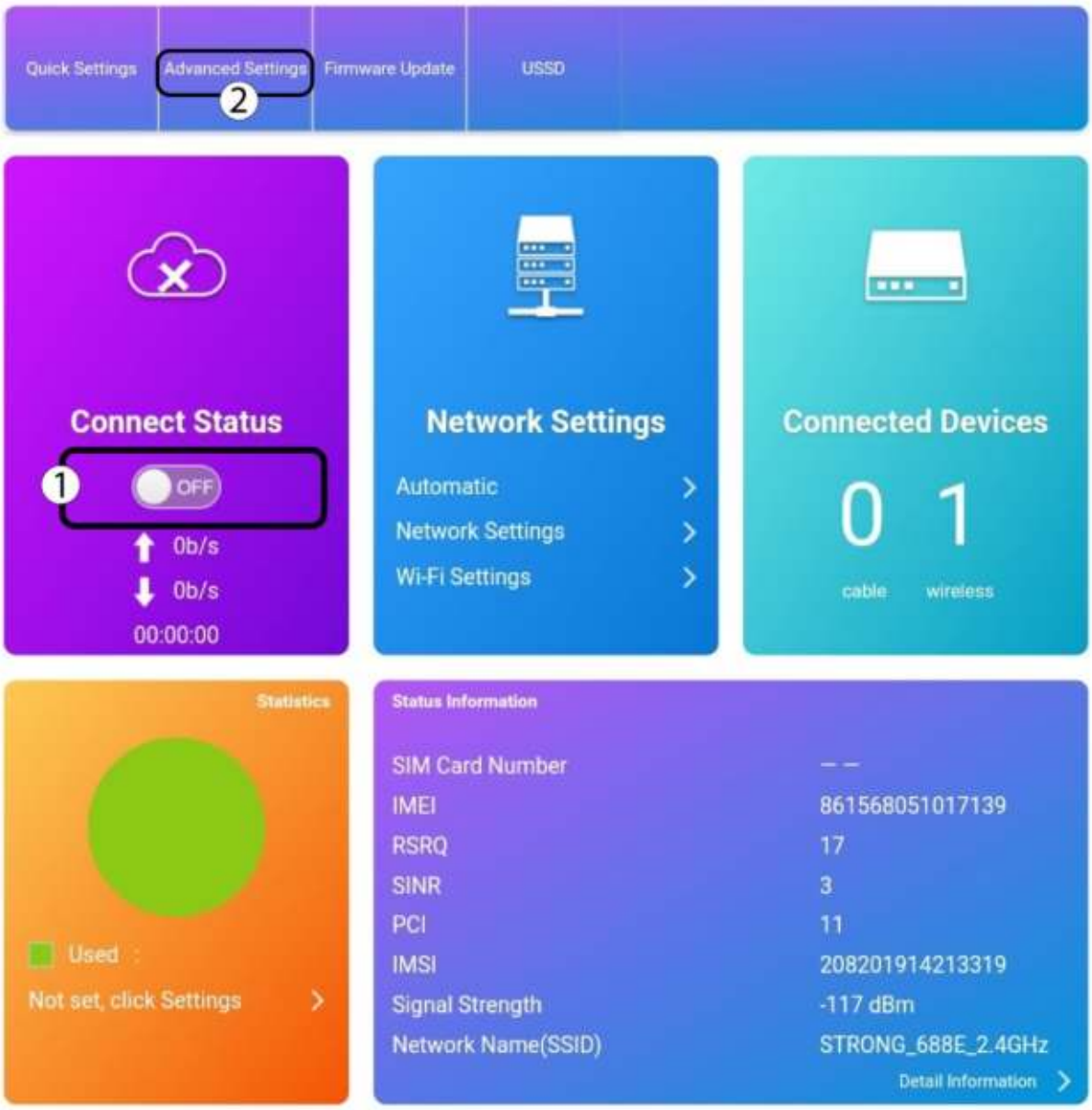
4. Click the toggle on the Connect Status Section and click **Advanced Settings**



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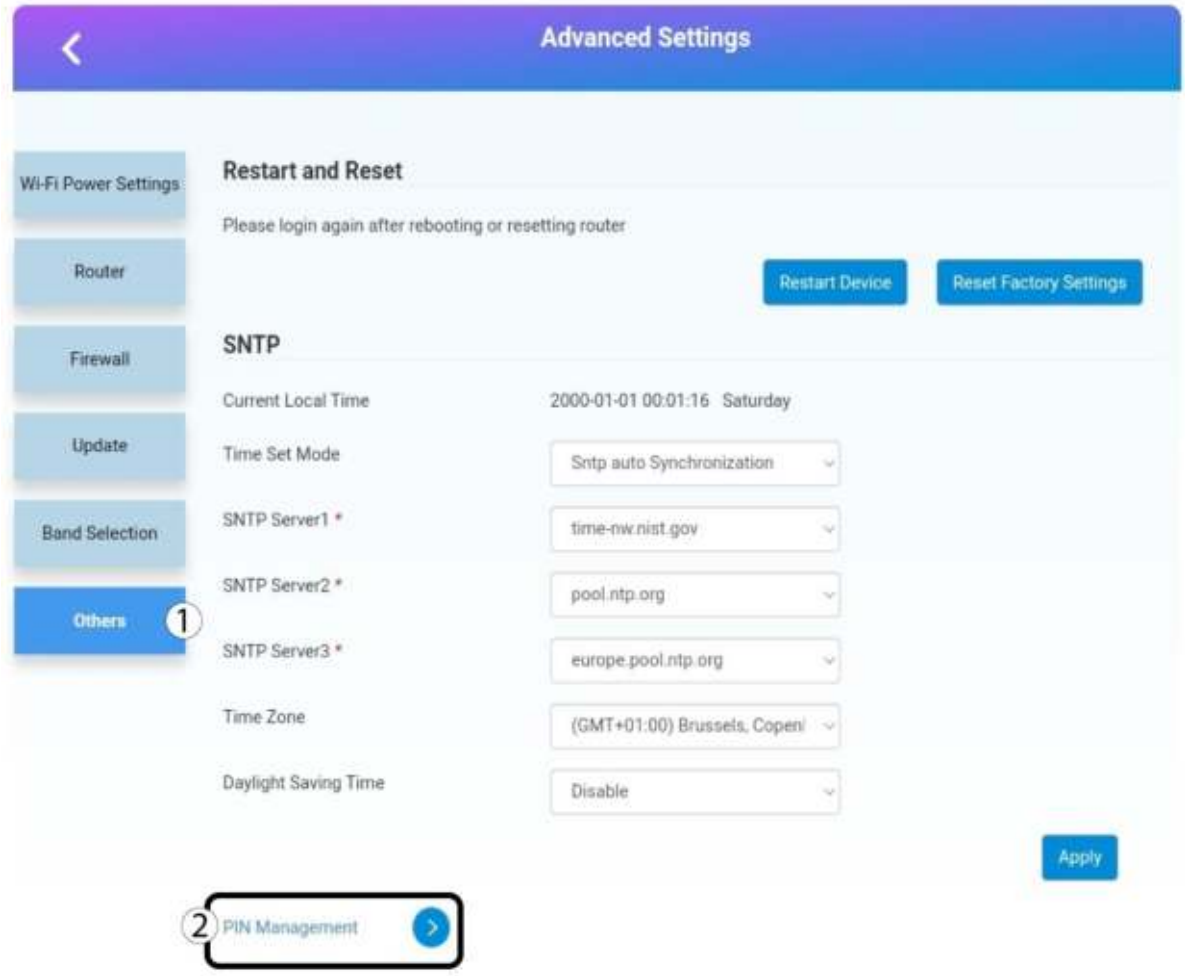
4. **Click Others.** Then, click **PIN Management**.



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5. Click **Change PIN.**

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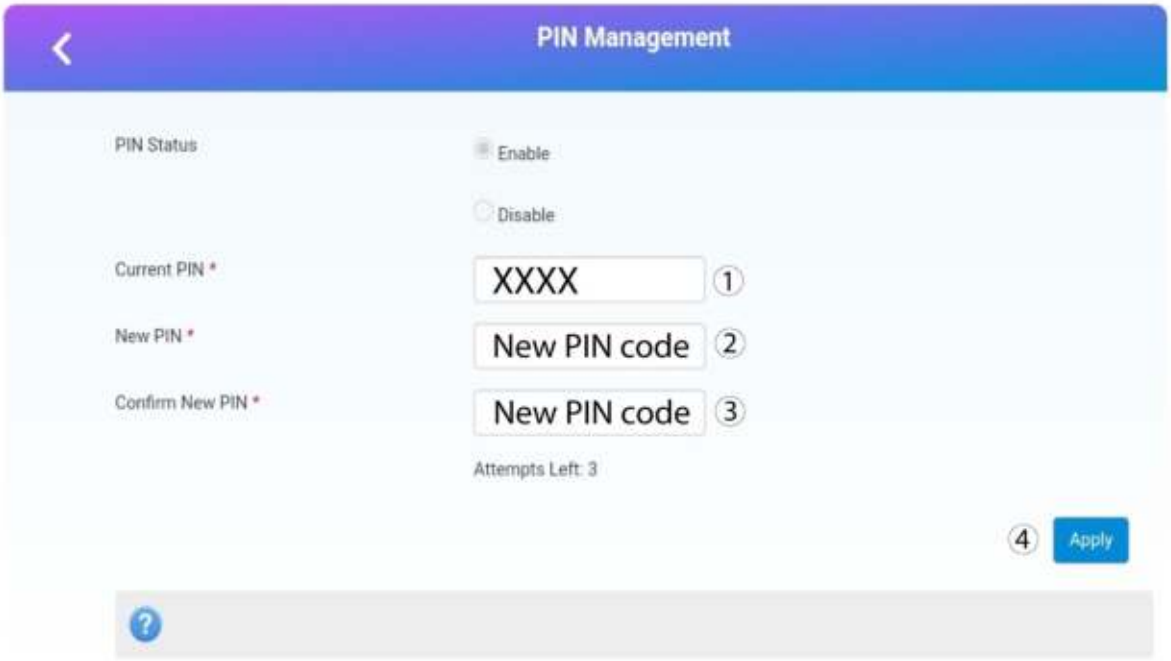
6. Enter the following information before clicking Apply:

    - Current PIN: Enter your current PIN code.
    - New PIN: Enter your new PIN code.
    - Confirm New PIN: Enter the new PIN code.



⚠ WARNING: Please write down the new PIN code of your SIM Card on a piece of paper or a sticker with its PUK code. When your SIM Card is locked after entering a wrong PIN Code after the three attempts, you must enter the PUK code before resetting your PIN code. The PUK code is generally written on the SIM cardholder given by your service provider.

3. Changing the SSID (Wi-Fi Network Name) and password

After setting up your device and connecting to it for the first time, it is possible for you to change the SSID, also known as the name of your Wi-Fi Network and its password.

⚠ WARNING: Please note that we strongly recommend using a network name and password that is different from the one of your Internet box. Why? As you may know, your devices automatically connect to the known networks, so if you put the same names and password for your router network and your Internet box, you will not be able to differentiate them.

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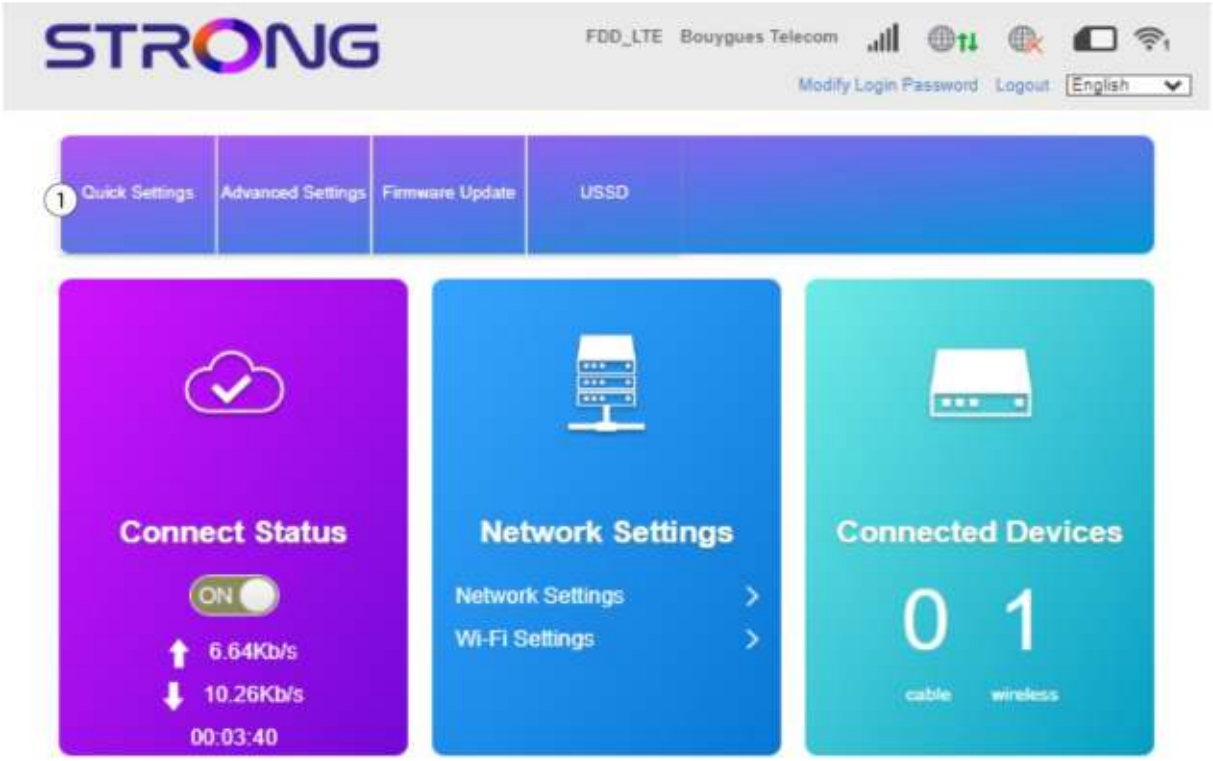
- **CASE 1: Using the Quick Settings:**

In the Web UI, the Quick Settings enable you to change the information of your network: its SSID

(Wi-Fi Network Name) and Wi-Fi password.

1. To change the SSID and/or password of your network, you must connect to the device Wi-Fi or Internet connection by following one of these procedures:
   - Connecting to the Wi-Fi and Accessing the Web UI
   - Connecting your Device with an Ethernet Cable and Accessing the Web UI

2. To do so, click **Quick Settings** in the top bar.



3. Click **Next**.

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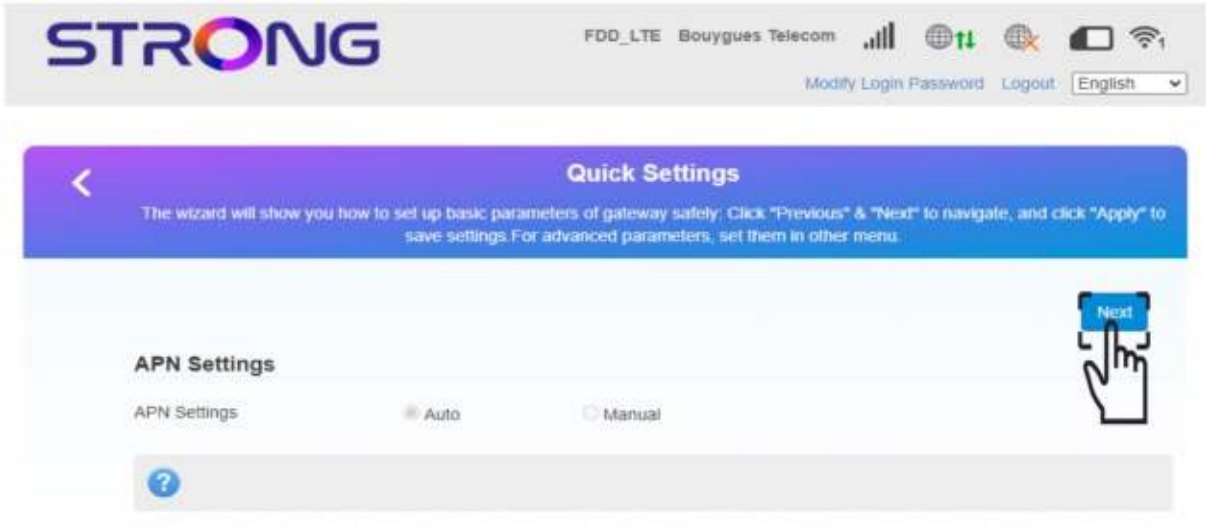
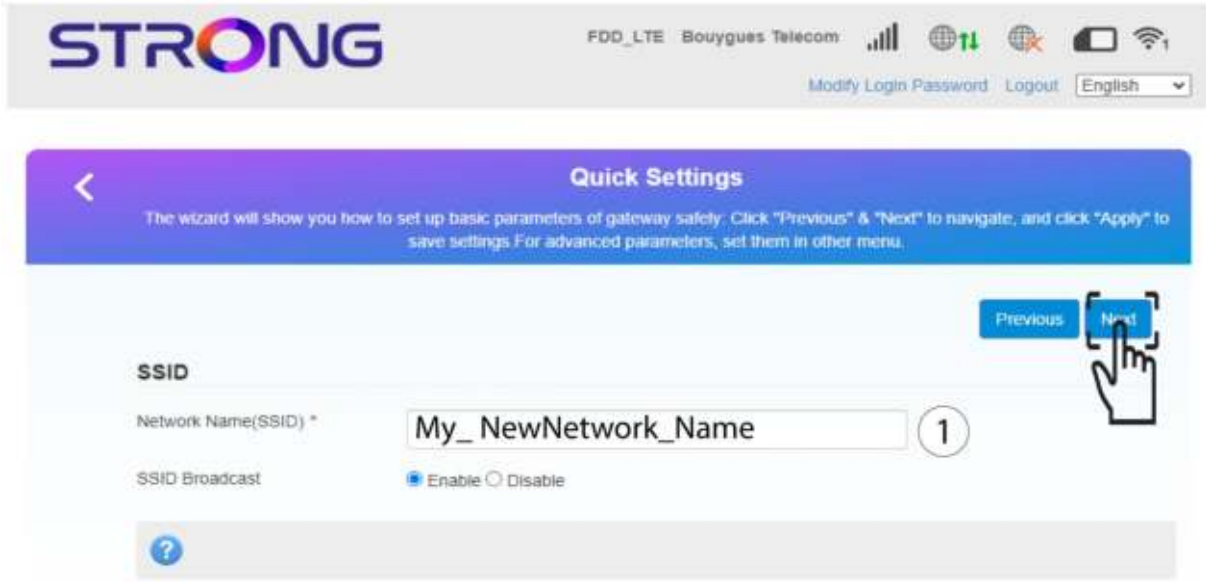


4. Enter the new network name and click **Next.**



5. Click **Display password** and enter the new password for the Wi-Fi network, then click **Next**.

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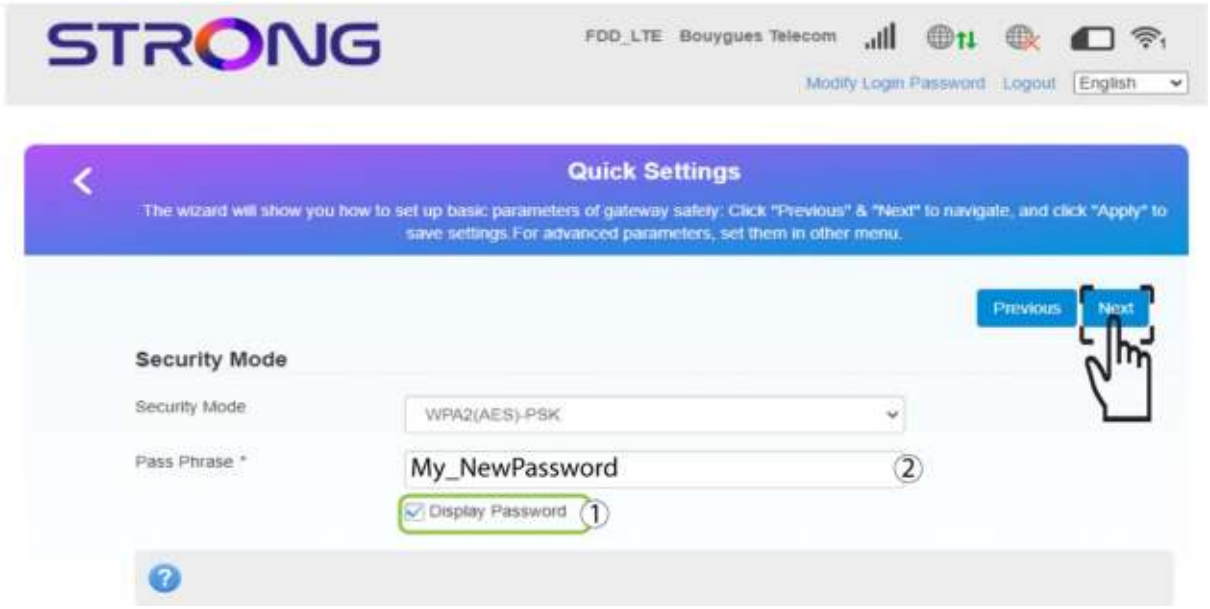
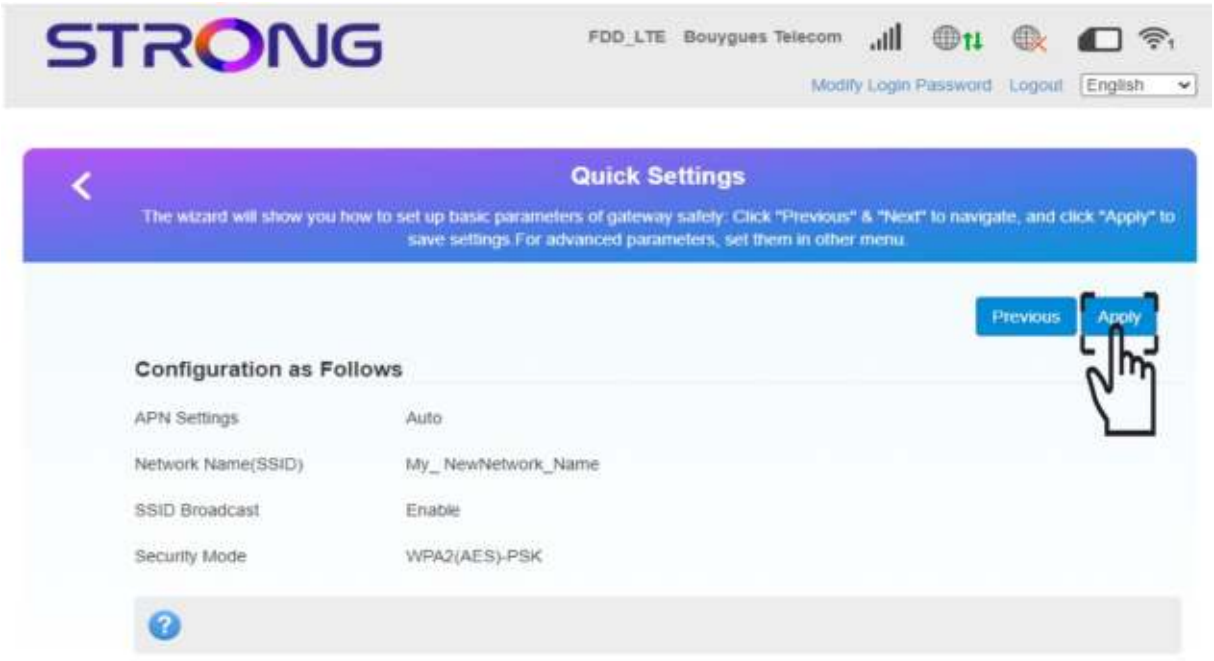


6. Click **Apply** to save the changes.



7. Write down the new network information on a piece of paper.

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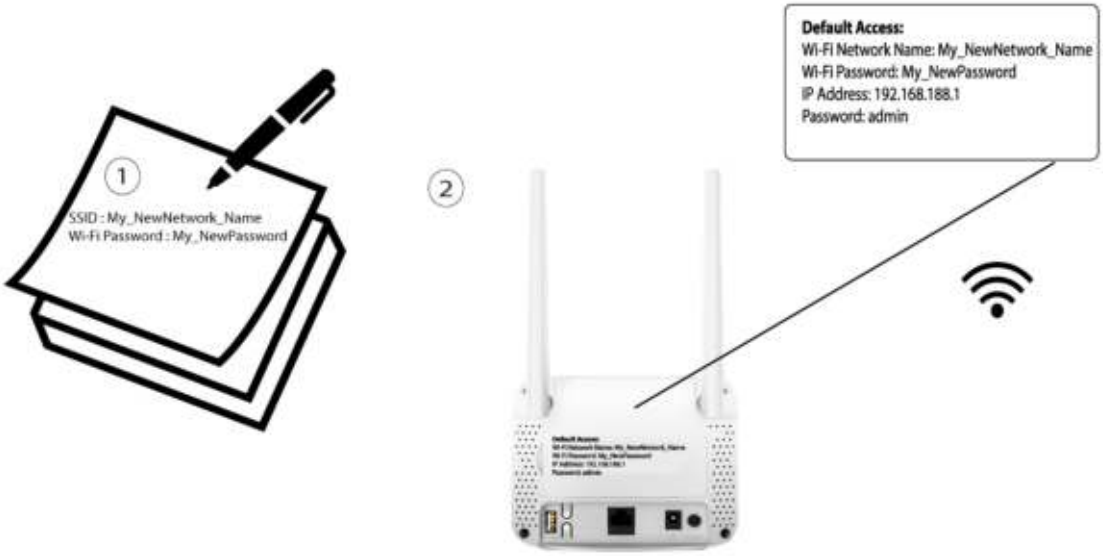

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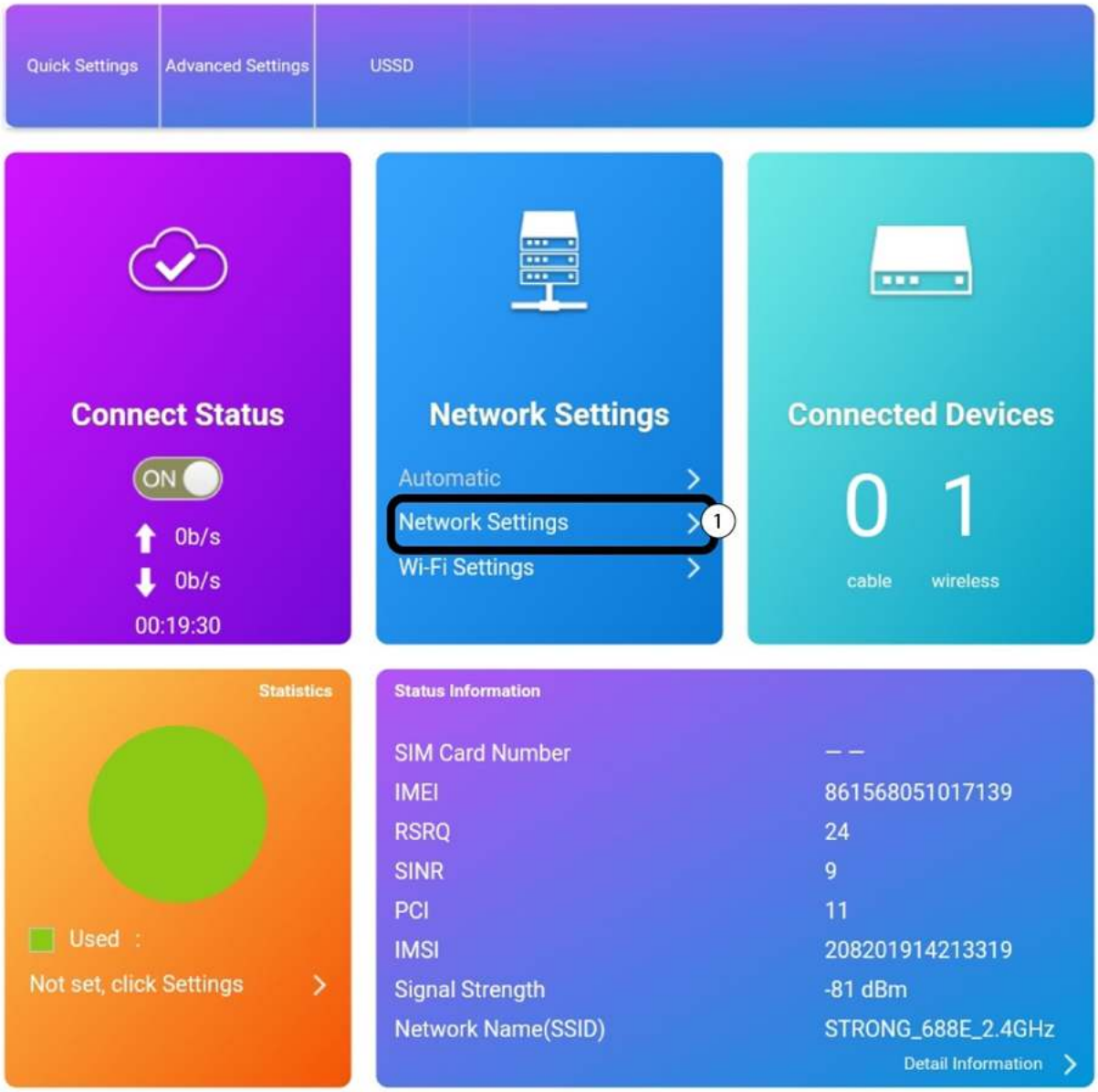
CASE 2: Using the Device Settings:

1. To connect to the Web UI, please refer to the following procedures:
    - Connecting your Device with an Ethernet Cable and Accessing the Web UI
    - Connecting to the Wi-Fi and Accessing the Web UI
2. Click **Wi-Fi Settings** in the Network Settings Section.



3. Click **display password** and enter the following information before clicking **Apply**:
    a. Enter the new network name.
    b. Enter the new Wi-Fi password.

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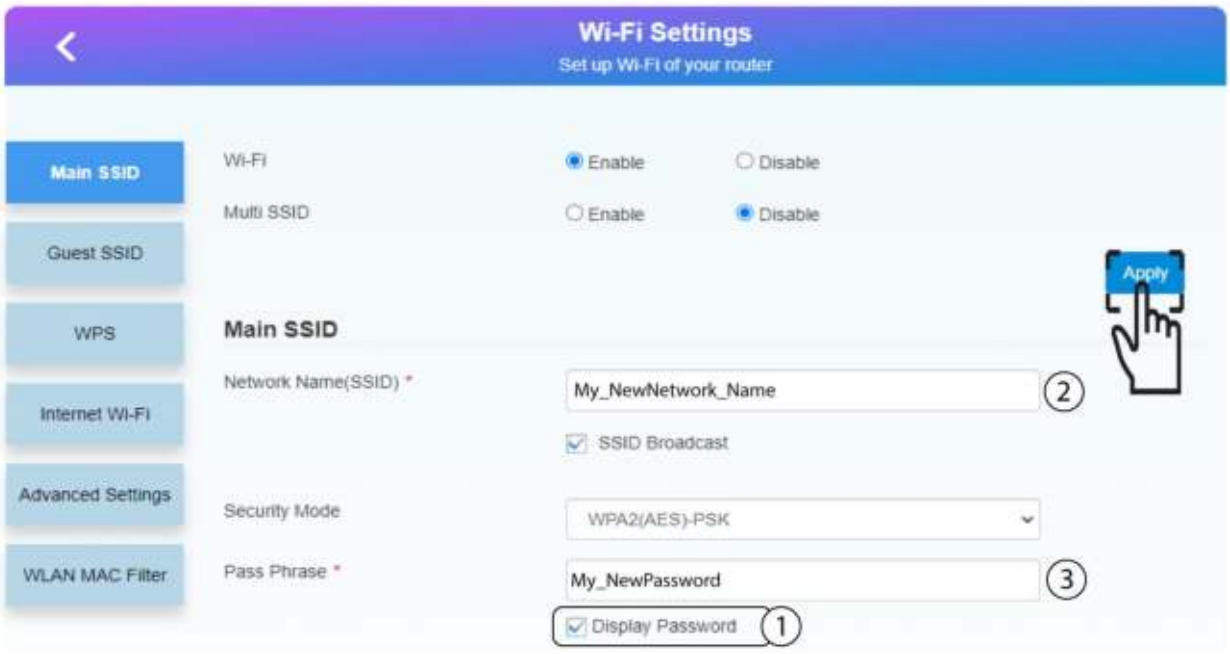
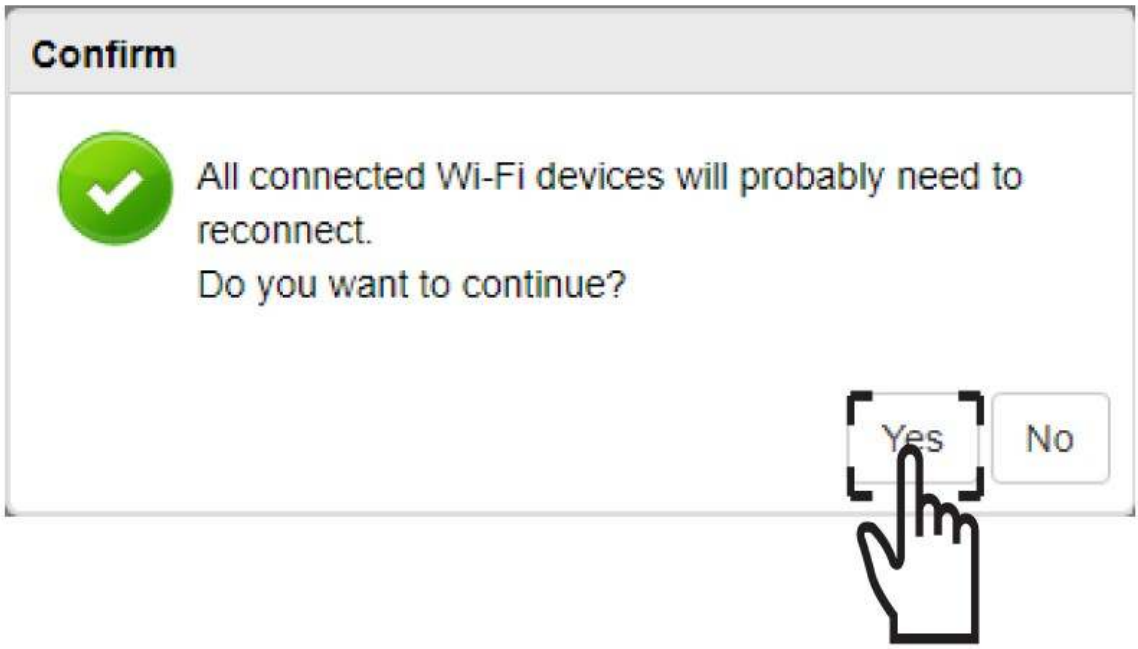


4. In the pop-up message click **Yes** to apply your changes.



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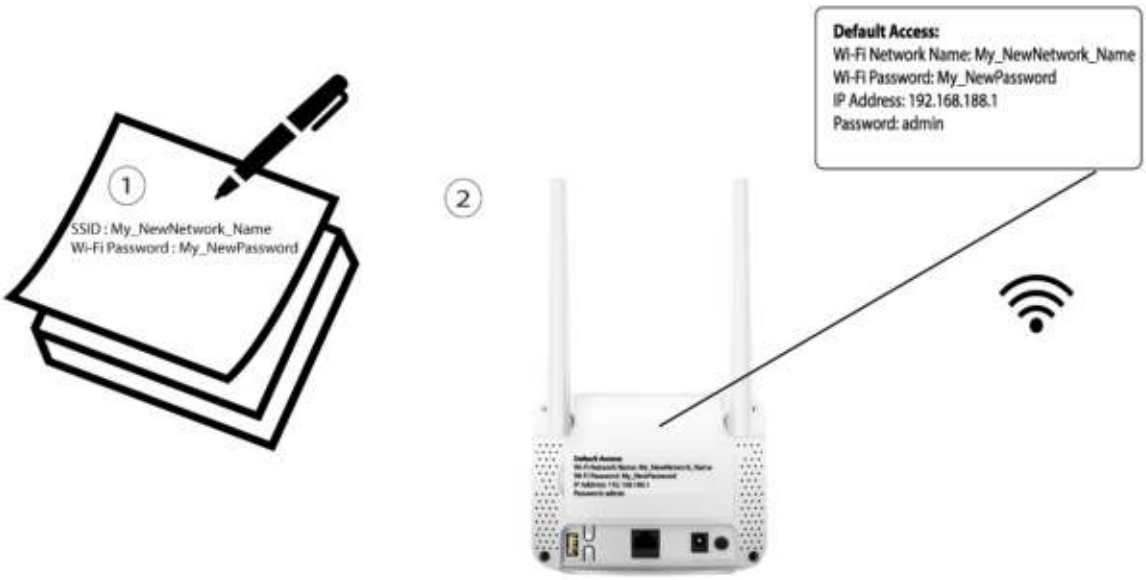
5. Write down the new network information on a piece of paper.



WARNING: After changing the Wi-Fi network information all the devices that were connected to the network will be automatically disconnected.

4. Updating the device Firmware

If you notice that your device does not recognize your SIM card properly or that the user interface is not available in your language when connecting to the UI for the first time. Please check the firmware version used by your device by using the online upgrade option in the Web UI. By doing so, the latest firmware version will be installed.

1. To do so, connect to the Web UI, please follow on these procedures:
   - Connecting your Device with an Ethernet Cable and Accessing the Web UI
   - Connecting to the Wi-Fi and Accessing the Web UI

2. Click **Firmware Update.**

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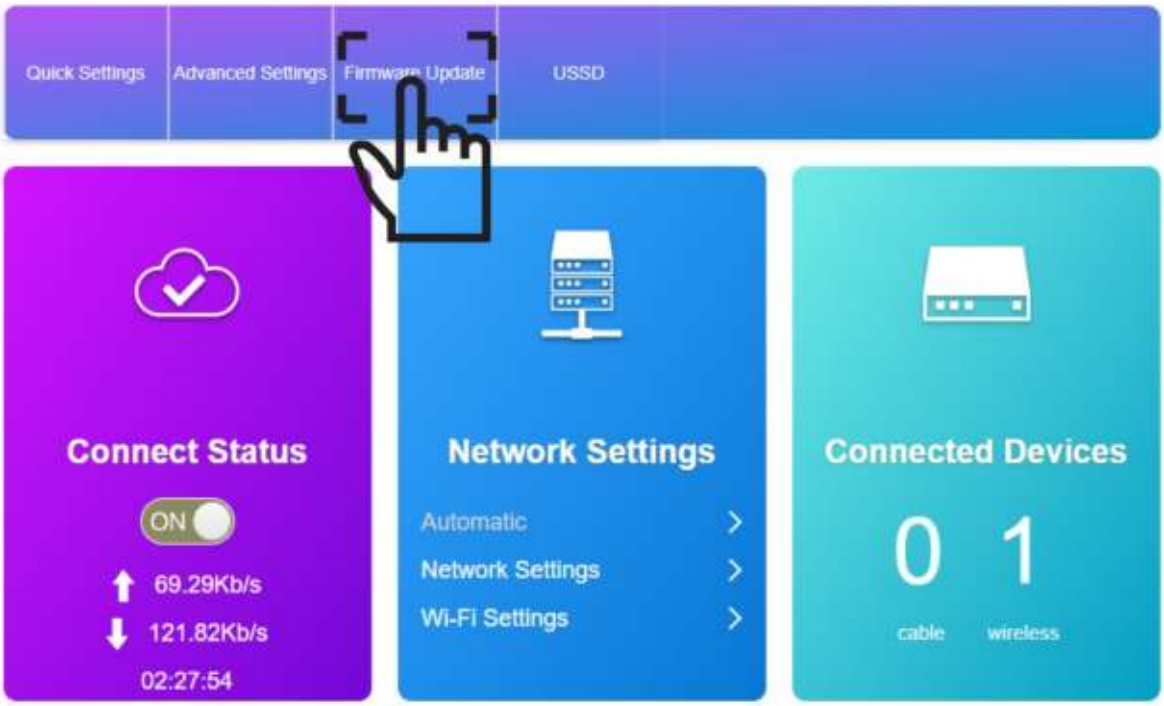

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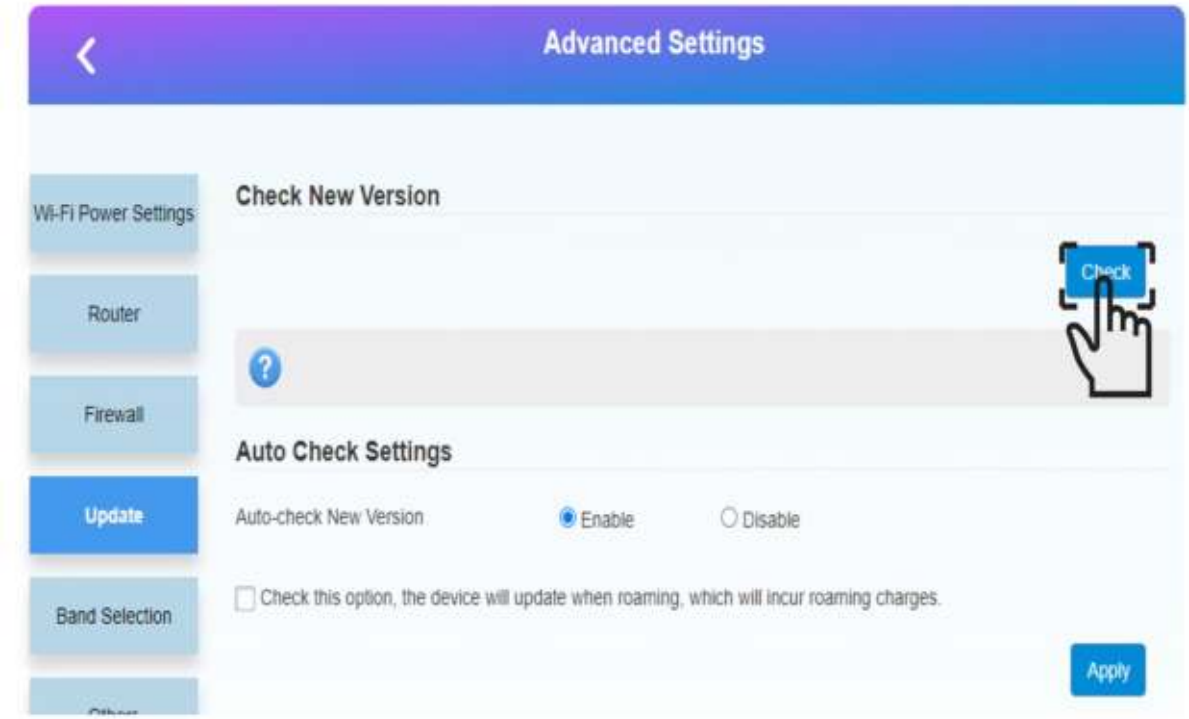
3. Click **Check** in the **Check New Version section.** The latest version of the software will be automatically downloaded, and you will have to reconnect to the Wi-Fi network to enter your PIN code.

4. 

IV. Customized Settings

1. Advanced Settings

In the Device Settings section of the UI, you can set different basic parameters regarding your network and advanced parameters according to your needs.

1.1. Router

The basic settings that you can configure in the Device settings are divided into three categories: Internet Settings, Statistics Settings, and Wi-Fi Settings.

1.2. Firewall

1.2.1. Port Filtering

This feature enables you to allow or block network packets into or out of a device or the network based on their application (port number).

1.
2.

1. To use the port filtering option, you must connect to the Wi-Fi of your router by following one of these procedures:

- Connecting your Device with an Ethernet Cable and Accessing the Web UI

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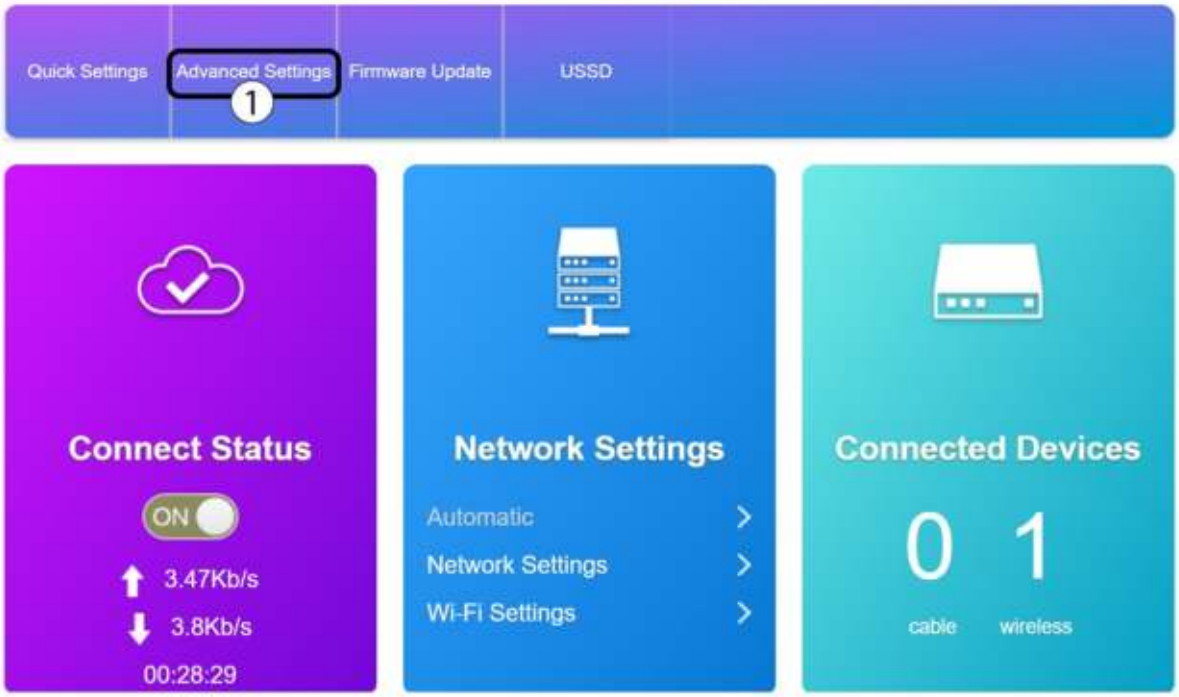
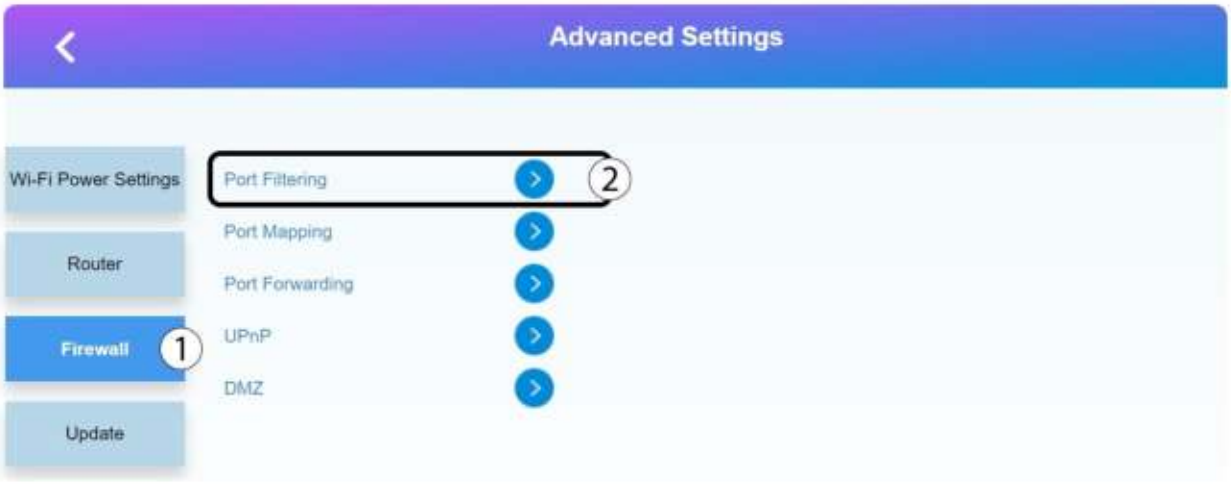
- Connecting to the Wi-Fi and Accessing the Web UI

2. Click **Advanced Settings**



3. Click **Firewall** and **Port Filtering**



4. Click **Enable** and select **accepted** or **dropped**. Then click **Apply**.

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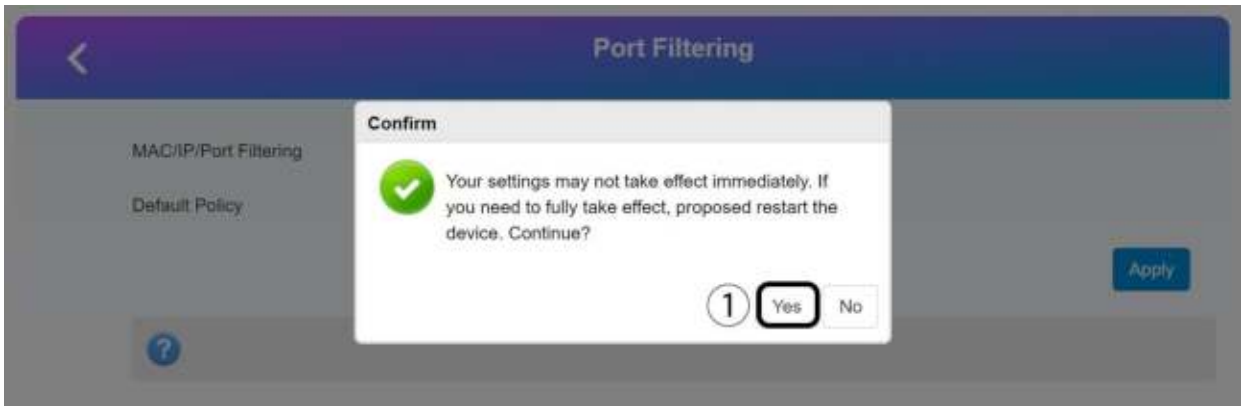
5. Click **Yes**.



1.2.2. Port Mapping

Port mapping is a process that forwards the queries from internet to your router and to a specific device IP address on your LAN.

1. To use the port mapping option, you must connect to the Wi-Fi of your router by following one of these procedures:
   - Connecting your Device with an Ethernet Cable and Accessing the Web UI
   - Connecting to the Wi-Fi and Accessing the Web UI

2. Click **Advanced Settings.**

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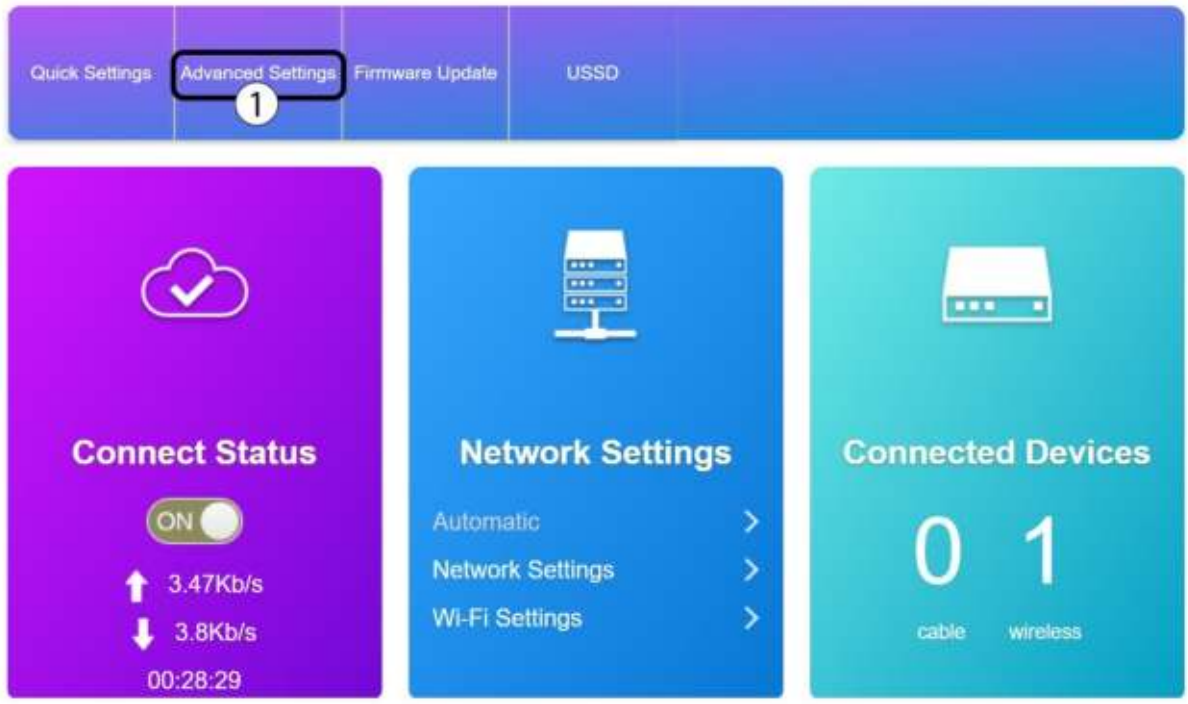
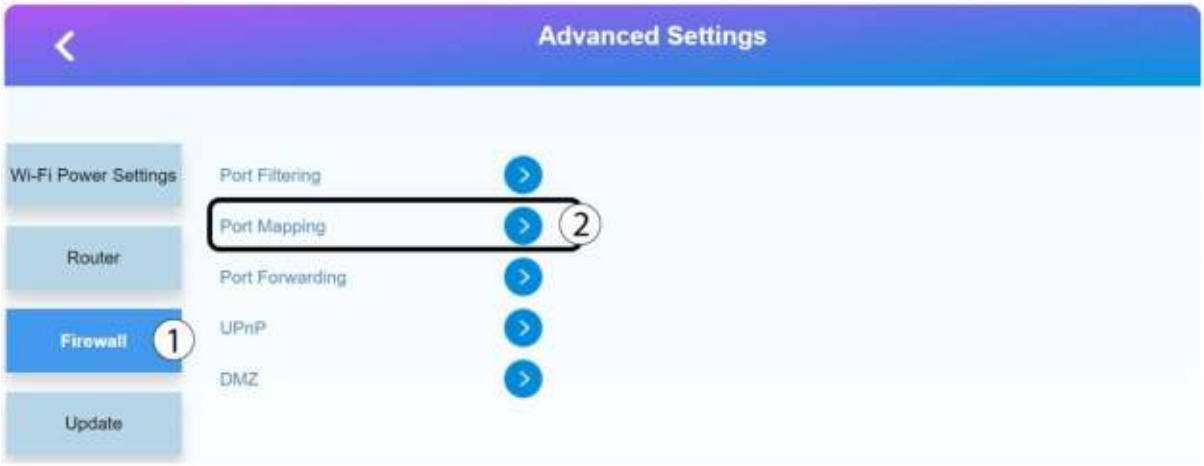


3. Click **Firewall** and **Port Mapping.**



4. Click **Enable** and **Apply.**



5. Enter the following information before clicking **Apply:**
   a. **Source port:** For a HTTP service enter 80 For more information about the different port services, see.

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b. **Destination IP address**: IP address of the device
c. **Destination port:** For a HTTP service enter 80 For more information about the different port services, see.
d. **Protocol:** Choose the type of protocol in the dropdown list (**TCP+UDP, TCP or UDP**)
e. **Comment**: Enter a name for the port mapping rule.



1.2.3. Port Forwarding

Port Forwarding is used to forward queries from internet to a specific device. This feature can be used to forward queries to a game console for instance when you are hosting a peer-to-peer game.

1.

1. To do so, connect to the Wi-Fi network of your router and access the Web UI. To access the Web UI, follow one of these procedures:

- Connecting to the Wi-Fi and Accessing the Web UI
- Connecting your Device with an Ethernet Cable and Accessing the Web UI

2.

2. Click **Advanced Settings.**

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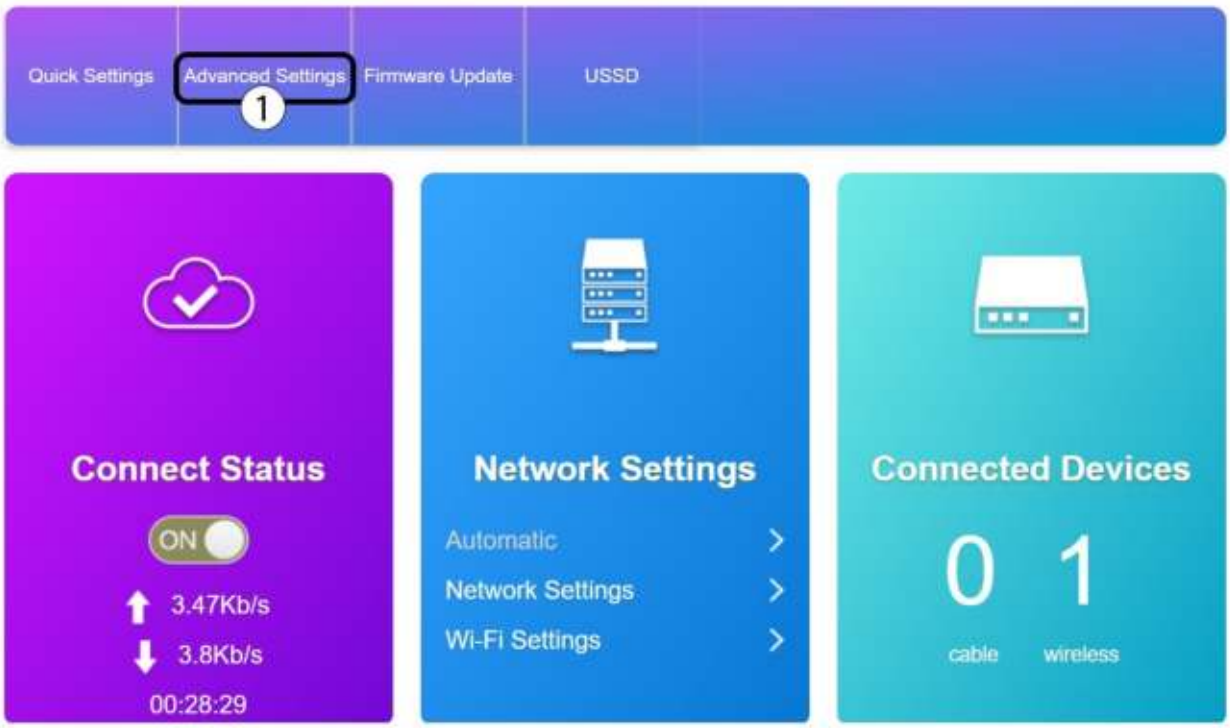
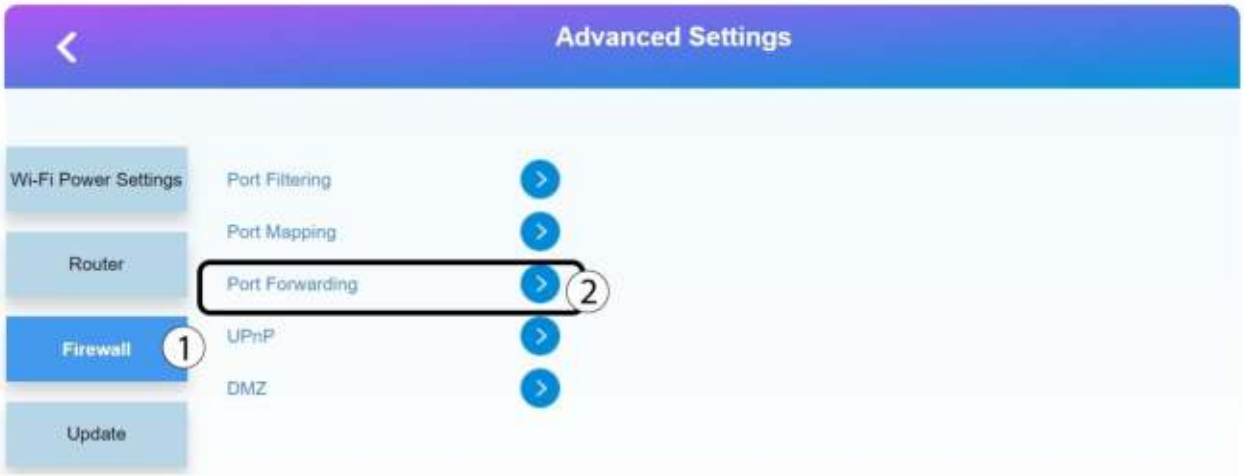


3.

3. Click **Firewall** and **Port Forwarding.**



4.

4. In the Port **Forwarding Settings,** enter the following information before clicking **Apply:**
   a. **IP address**: IP address of the device
   b. **Port Range:** For a HTTP service enter 80-80. For more information about the different port services, see.
   c. **Protocol:** Choose the type of protocol in the dropdown list (**TCP+UDP, TCP or UDP**)
   d. **Comment**: Enter a name for the port mapping rule

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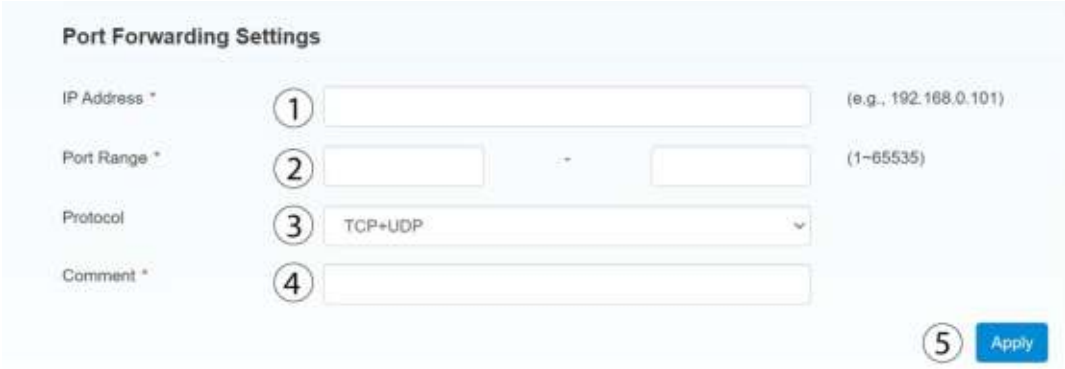


1.2.4. UPnP

Universal Plug and Play (UPnP) enables the devices of your network to detect compatible devices and to communicate with them automatically.

-

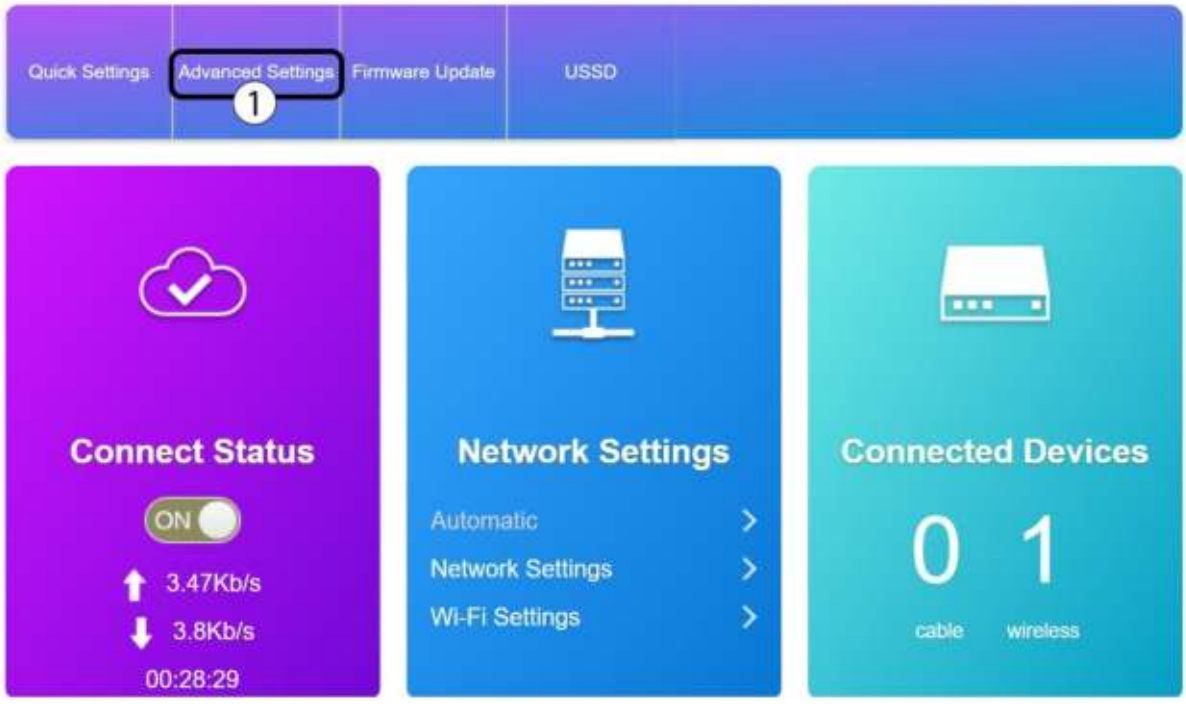
1.

1. To activate the UPnP feature, you must be connected to the Wi-Fi of your device and access the Web UI. To do so, follow one of the procedures below:

- Connecting your Device with an Ethernet Cable and Accessing the Web UI
- Connecting to the Wi-Fi and Accessing the Web UI

2.

2. Click **Advanced Settings**



3.

3. Click **Firewall** and **UPnP.**

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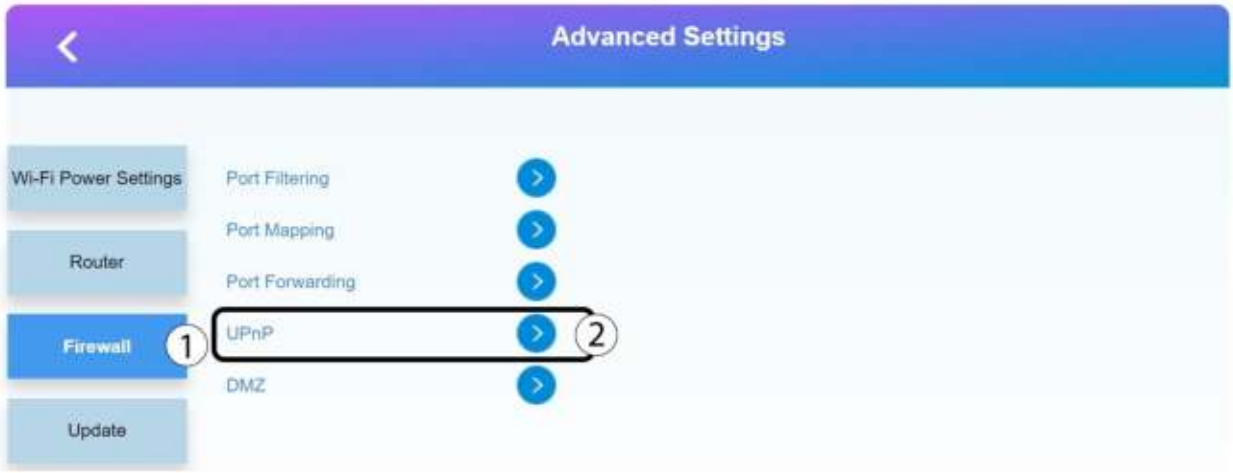

4.

4. Click **Enable and Apply.**



1.2.5. DMZ

A Demilitarized Zone (DMZ) is a subnetwork that is separated and isolated from the main local network (LAN) and from Internet by a Firewall. On this network, you can configure the devices that needed to access the Internet without accessing your LAN.

1. To configure DMZ on your router, you must be connected to the Wi-Fi of the router and access the Web UI. Please refer to the following procedures to connect to Web UI:

- Connecting your Device with an Ethernet Cable and Accessing the Web UI
- Connecting to the Wi-Fi and Accessing the Web UI

2. Click **Advanced Settings**.

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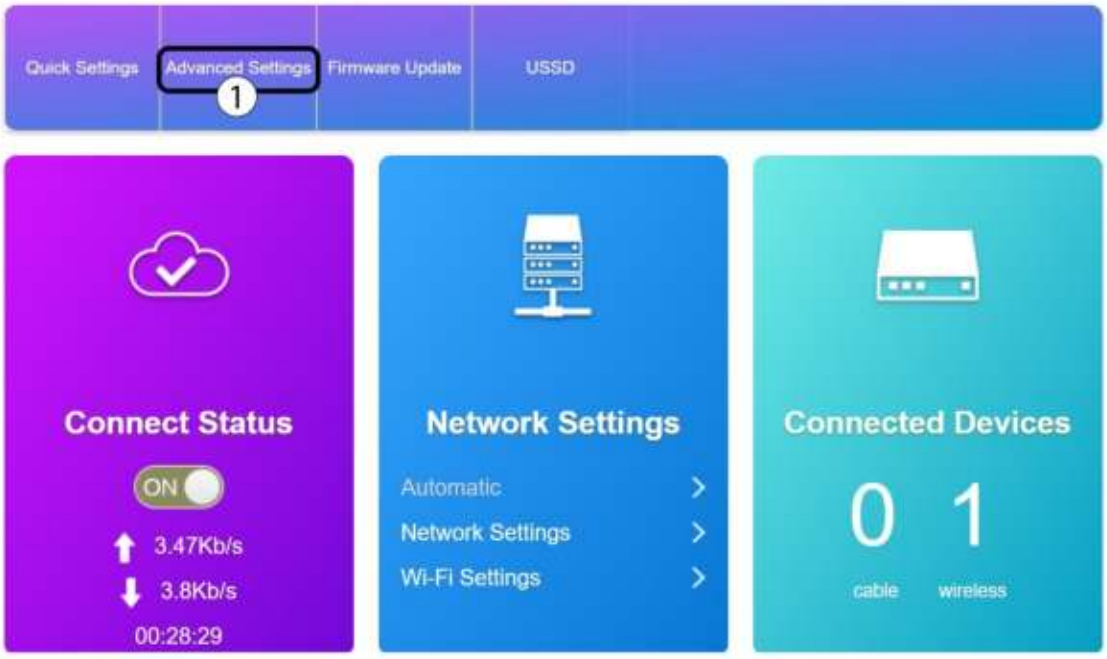
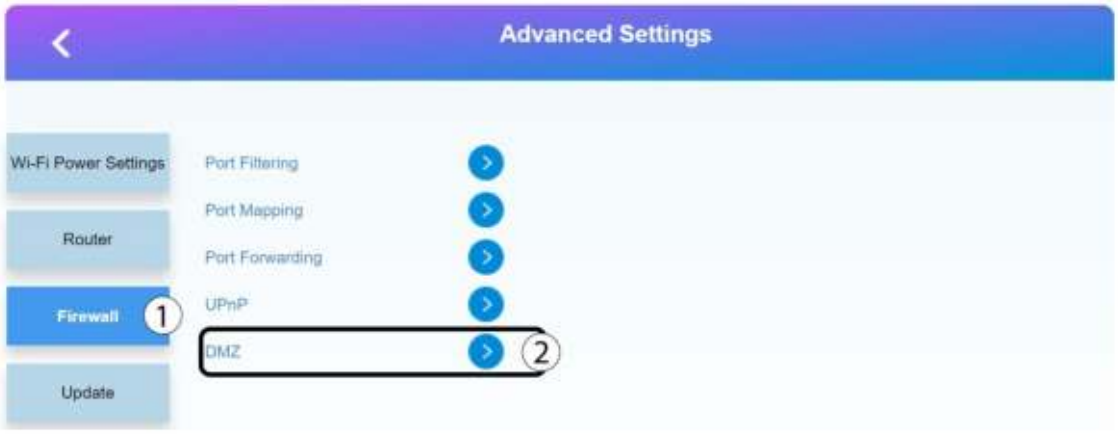


3. Click **Firewall** and **DMZ.**



4. Click **Enable** and enter the IP Address of your device before clicking **Apply.**



1.2.6. Band Selection

You can use this feature if you need to authorise access only to specific bands of the mobile

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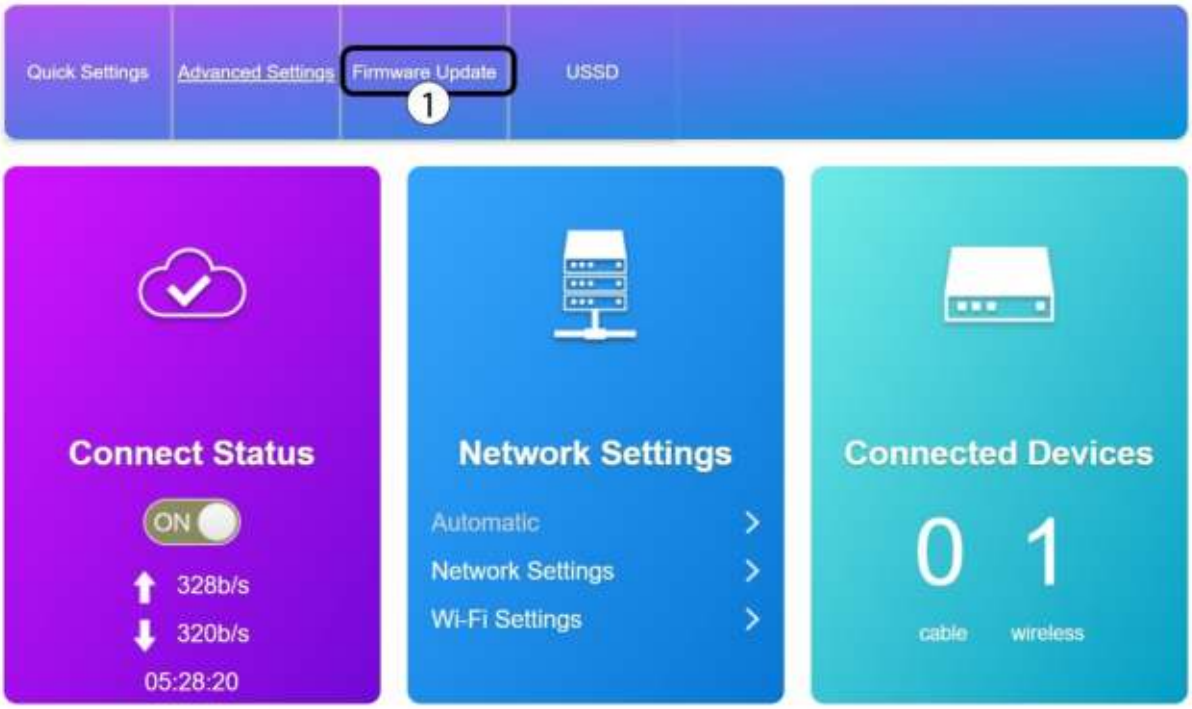
network.

1.
    1. Click **Firmware Update**.



2.
    2. Click **Band Selection** and select all the bands that you want to activate.Then, click **Apply.**

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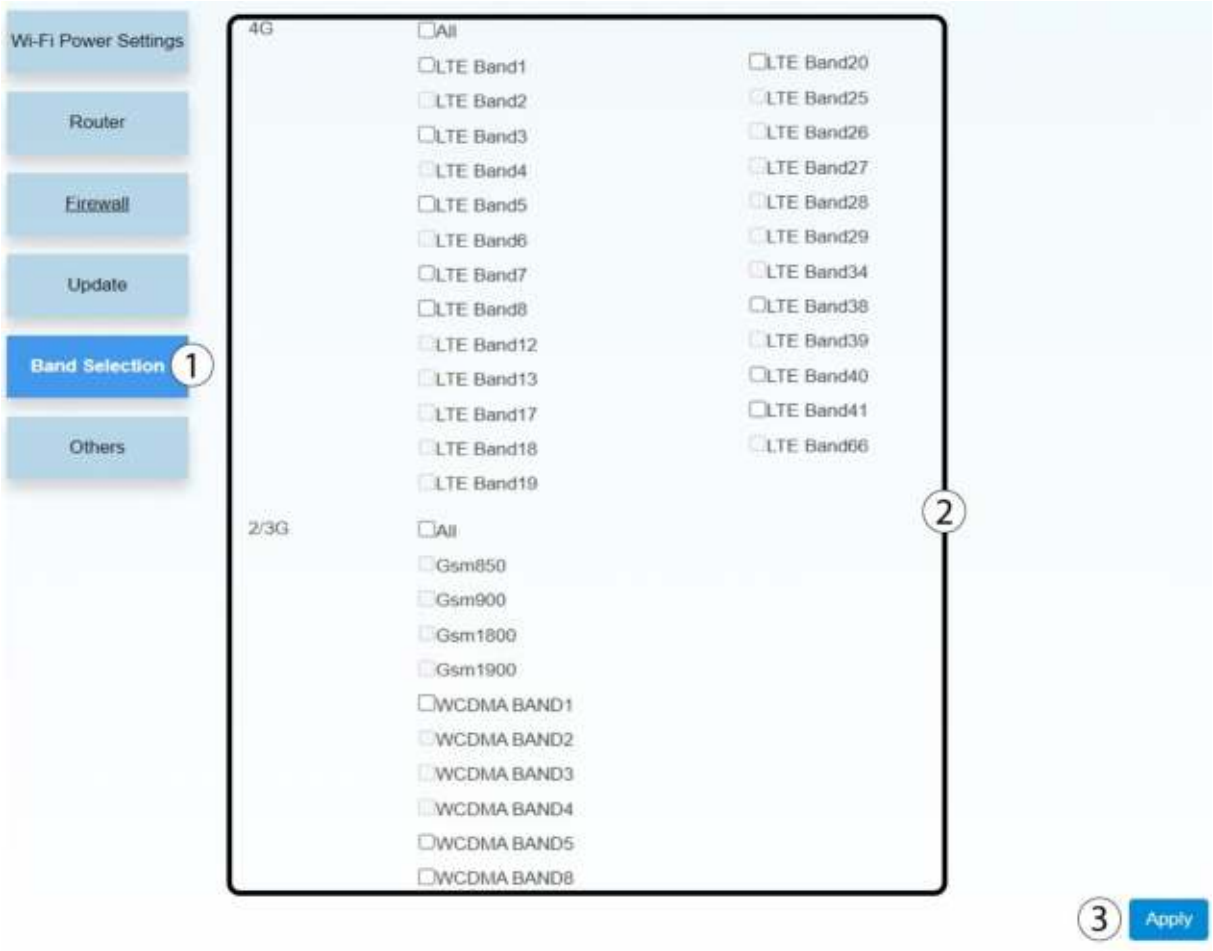

1.3. Restart and Reset

1.3.1. Restart Device

1. Click **Advanced Settings.**



2. Click **Others** and **Restart Device**.

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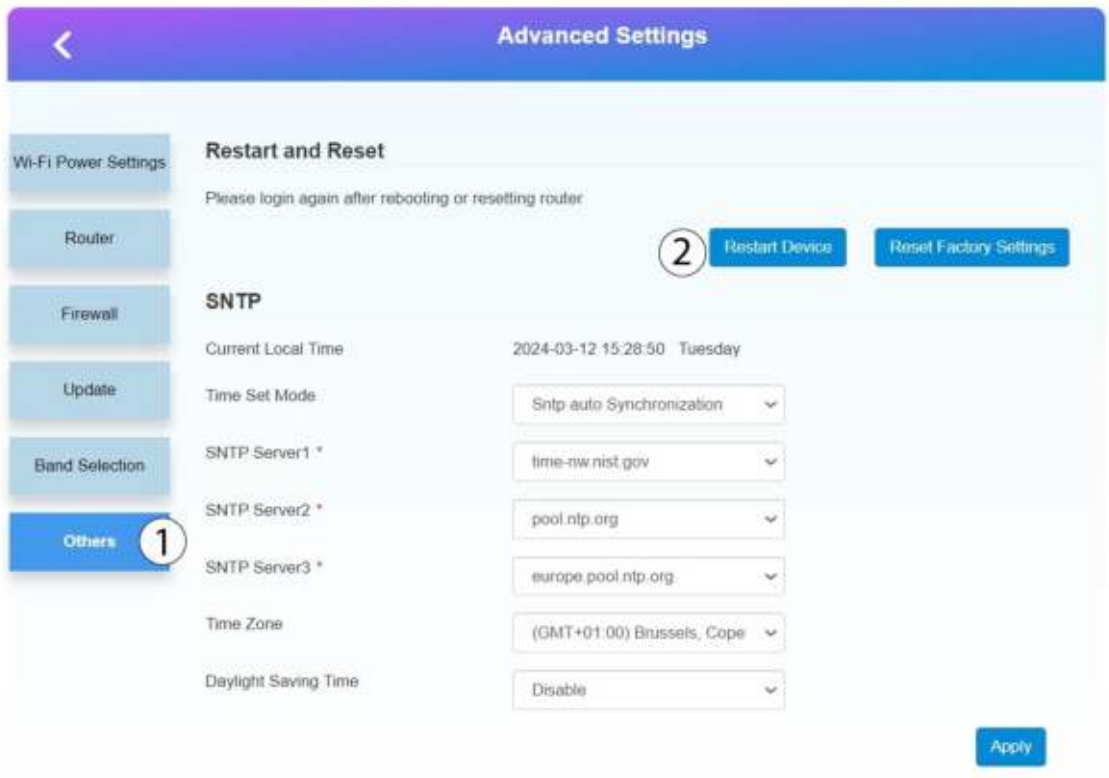
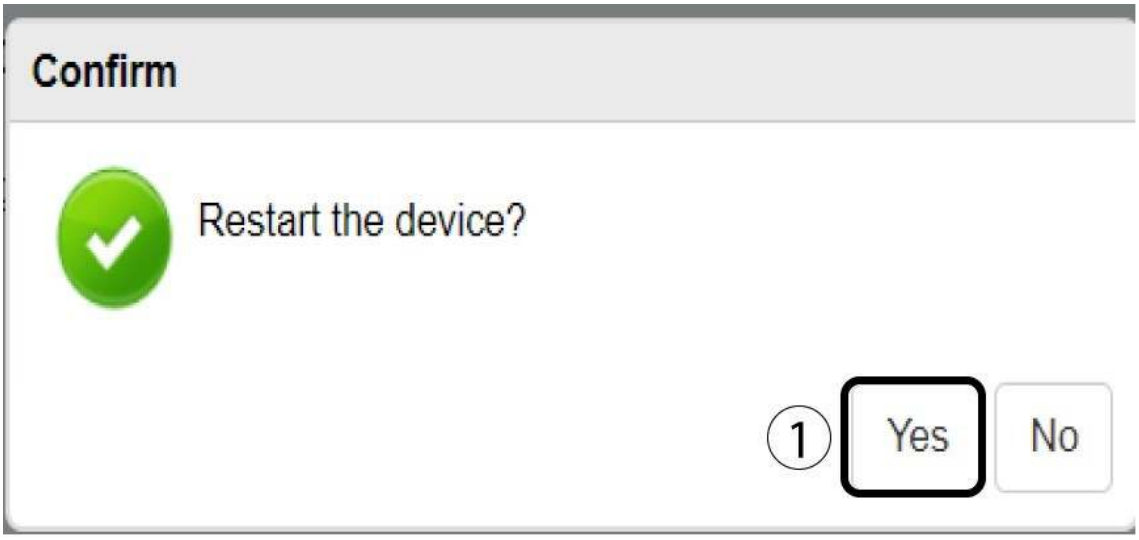


3. Click **Yes**



.

1.3.2. USSD

You can use this feature to send a request to your service provider to know the remaining internet data on your plan. For more information about USSD codes, please see.
Each service provider uses different USSD codes, you need to look for the codes and then enter them in the Web UI.

1.

1. To use the USSD codes in the Web UI, please connect to the Wi-Fi or use the internet connection of the router by following one of these procedures:

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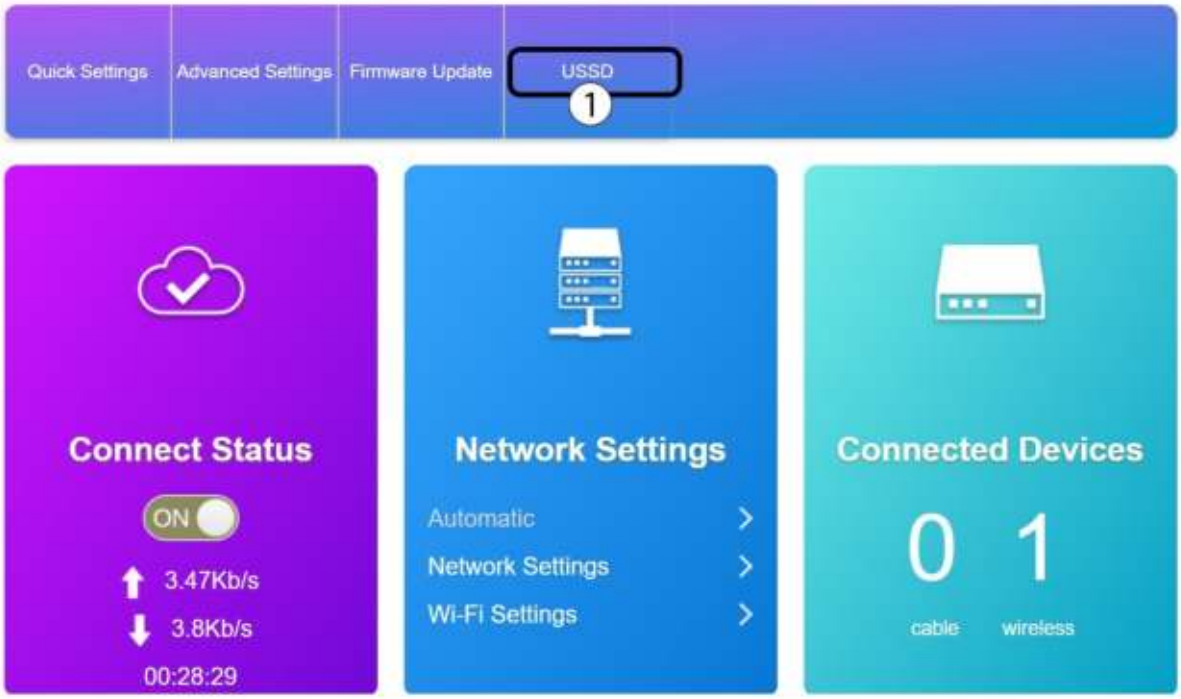
- Connecting your Device with an Ethernet Cable and Accessing the Web UI
- Connecting to the Wi-Fi and Accessing the Web UI

2.

2. Click **USSD**.



2.

3. Enter the **USSD code** and click **Send**



1.3.3. Connected Status

1. You can disconnect the mobile network temporarily by clicking the Connected Status toggle button. This step is necessary to configure some settings like the PIN Code or Firewall.
2. You can also see the upload and download speed of your connection.

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1.4. Network Settings

1.4.1. Network Settings

1.4.1.1. Connection Mode

1.

1. Click the **Connect Status** toggle button.

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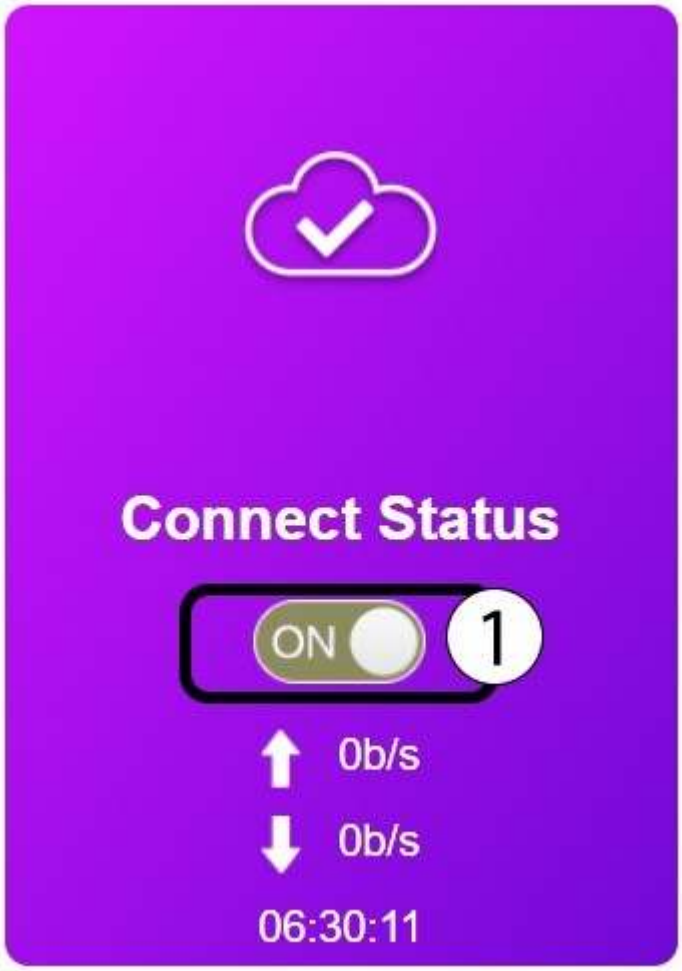

2.

2. Click **Network Settings**

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3.

3. Select **Manual** and click **Apply**.



1.4.1.2. Network Selection

In the Internet Settings, you can set the network type that you want to use for the Internet connection of your router.
If you have any issues with the 3G or 4G connection of you SIM Card you can switch the Network selection to manual.

1.

1. Click the **Connect Status** toggle button.

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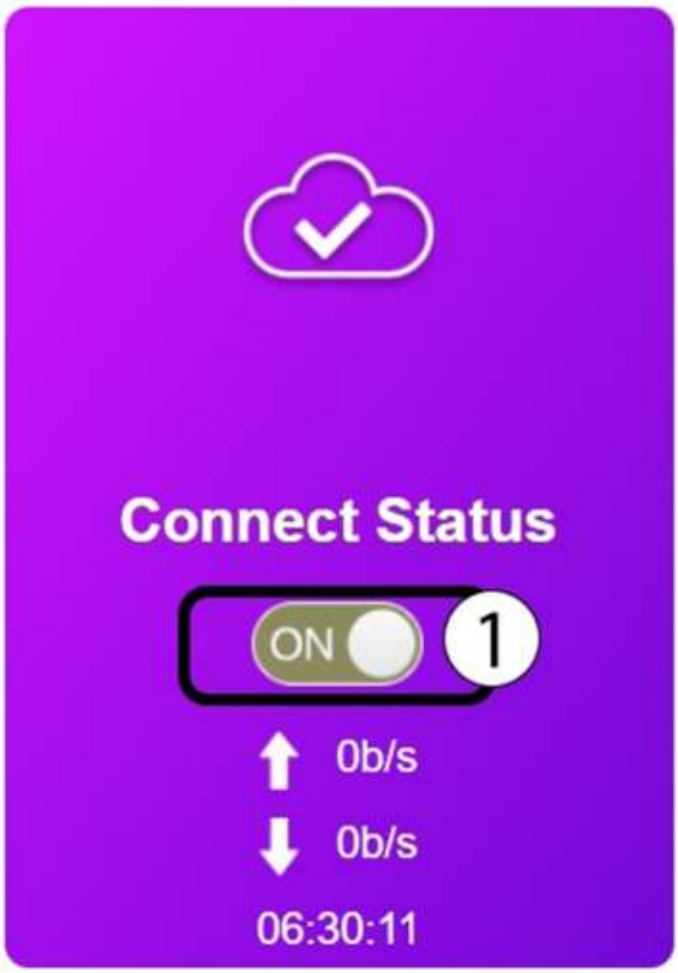

2.

2. Click **Network Settings**.

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3.

3. Click **Network Selection** and select **Manual**. Then, click **Search**. Wait until a list of available network is displayed.



4.

4. In the list select the 3G or 4G network of your service provider depending on what offers you the best coverage. Then? click **Register**.

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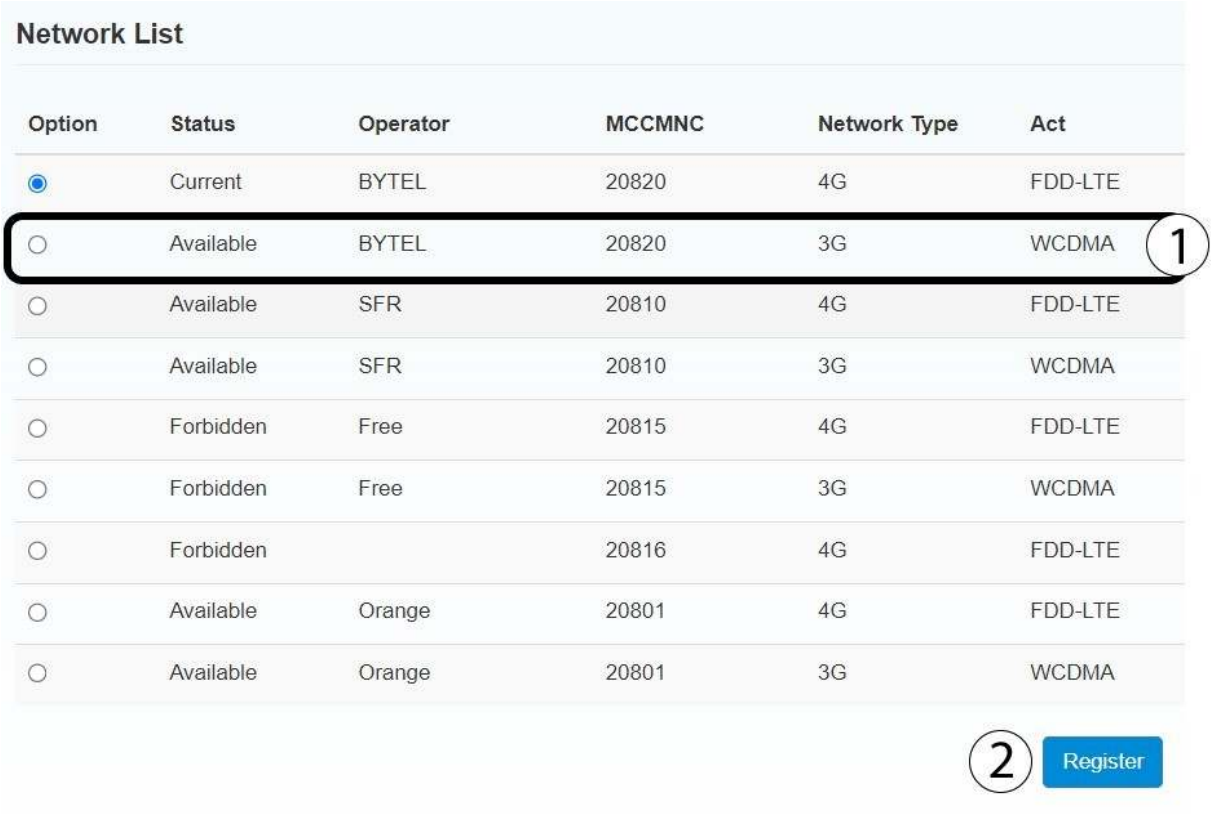

1.4.2. Wi-Fi Settings

1.4.2.1. Guest SSID

You can configure a guest Wi-Fi Network on your router

1.

1. Click **Wi-Fi Settings** in the network tab.

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2.

2. Click **Guest Wi-Fi** and then click **Enable** on the Wi-Fi and Multi SSID fields. Then, click **Apply**.



3.

3. Click **Yes**.

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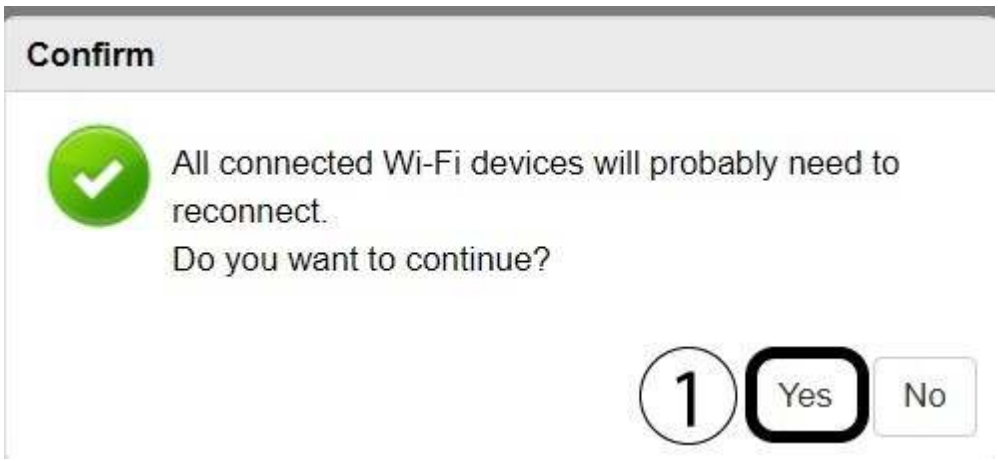
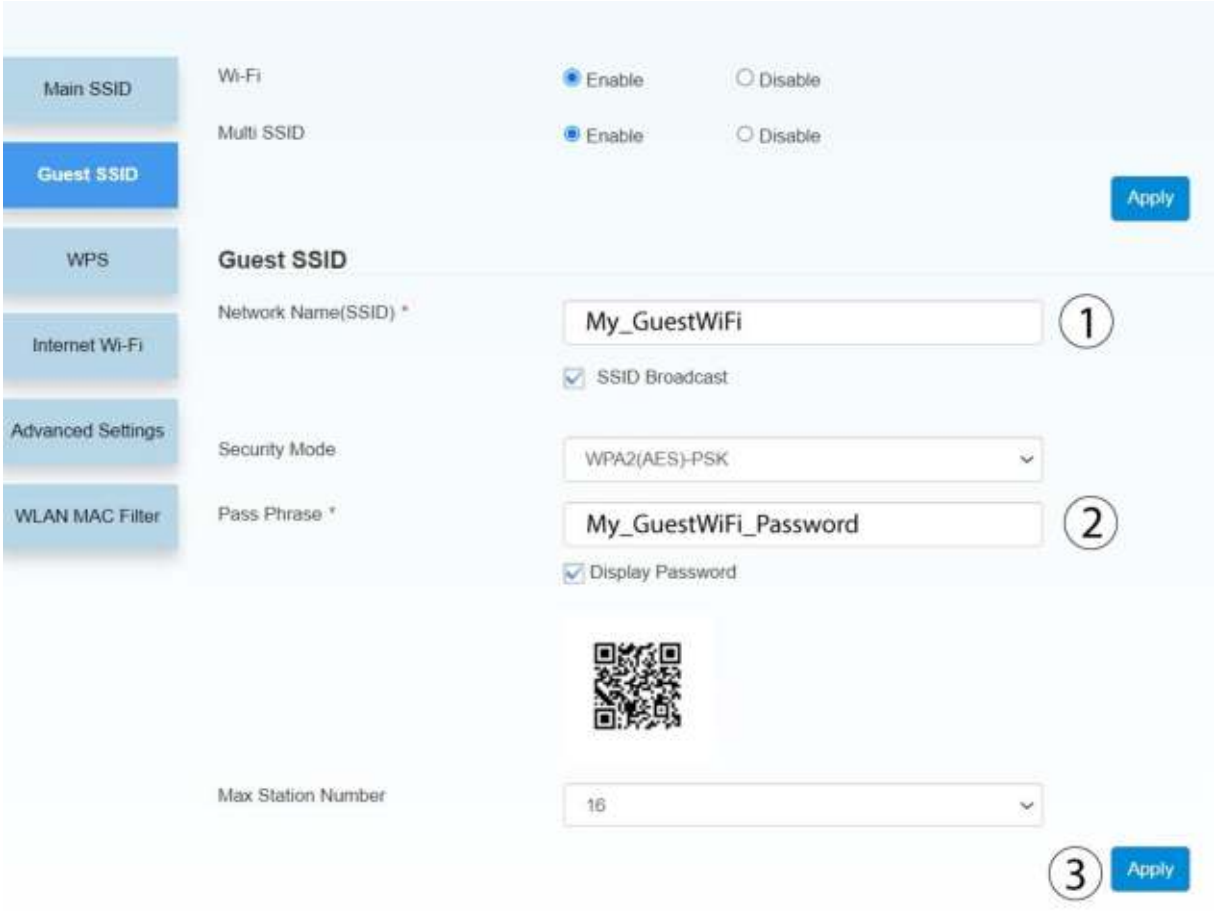


4.

4. Enter the new network name and password and click **Apply**.



5.

5. Then, click **Yes**.

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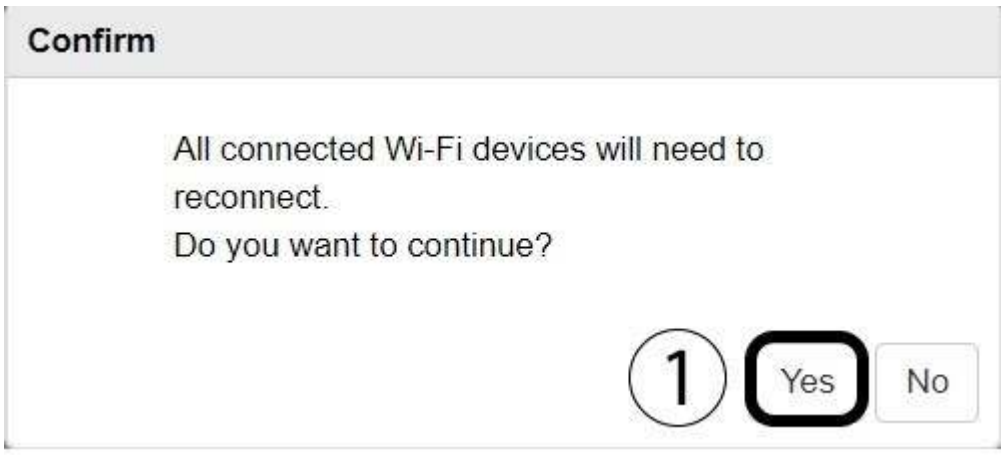

6.

6. Write down the Guest Network information on a piece of paper.



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1.4.2.2. Internet Wi-Fi

You can enable the Wi-Fi switch which will deactivate your Main Wi-Fi Network and Guest Wi-Fi Network automatically.

1.
    1. Click **Wi-Fi Settings**



2.
    2. Click **Internet Wi-Fi** and select Enable in the Internet Wi-Fi Switch section. Then, click **Apply**.

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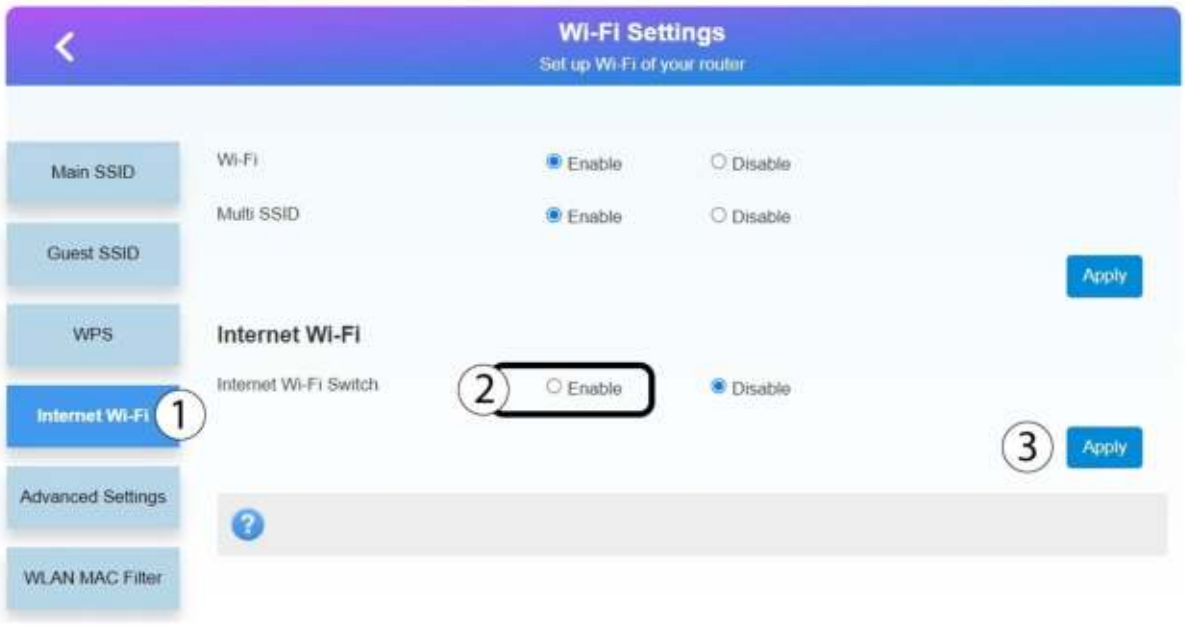
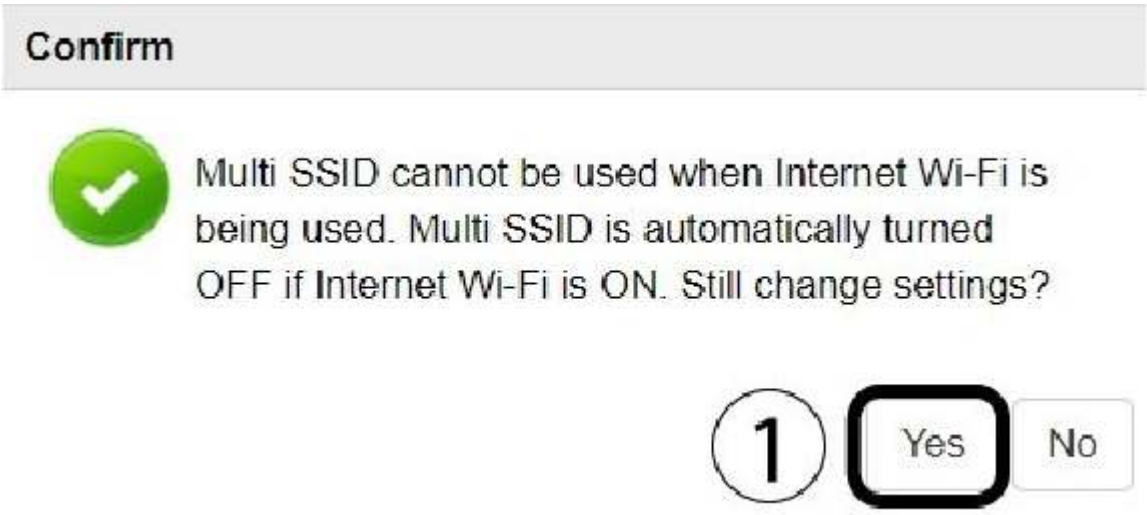


3.

3. Click **Yes**.



1.4.2.3. Advanced Settings

You can update the settings ofyour Network by selecting a specific band for the 4G network that is used by your router.

1.

1. Click **Wi-Fi Settings**

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2.

2. Click **Advanced Settings** and select the following information before clicking **Apply**:
    - **Network Mode**: select the right value in the list.
    - **Channel Bandwidth**: select the appropriate value in the list
    - **Country Region Code**: Select your country in the list
    - **Frequency Channel:** Select the right frequency in the list

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1.4.2.4. WLAN MAC Filter

In the router, it is possible to create a whitelist and/or a blacklist that contains the list of MAC addresses for allowed or forbidden devices. Depending on the list in which the device's MAC address appears, its connection to the router will be either authorized or forbidden.

MAC Filtering prevents unwanted connection on your network by only allowing the connection to the registered devices. Every device that can connect to the Internet has a MAC Address.
A computer has several MAC addresses, one for the Wi-Fi Network and two for the LAN. If you plan to use your computer with the LAN and/or Wi-Fi, please enter both addresses. To find the Mac Address of your computer or phone look for the information in the device information in the settings.

1. Write down the MAC addresses before entering them into the Web UI. This way you will be able to use your computer in Wi-Fi or by plugging an ethernet cable.

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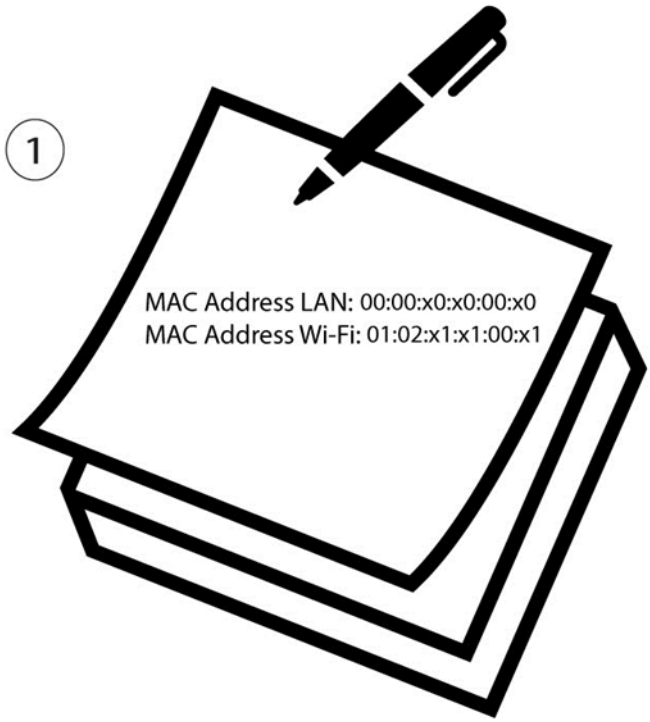

2.

2. Click **Wi-Fi Settings**



3.

3. Click **WLAN MAC Filter** and select **white list** or **black list**. White List is used to set up a list of

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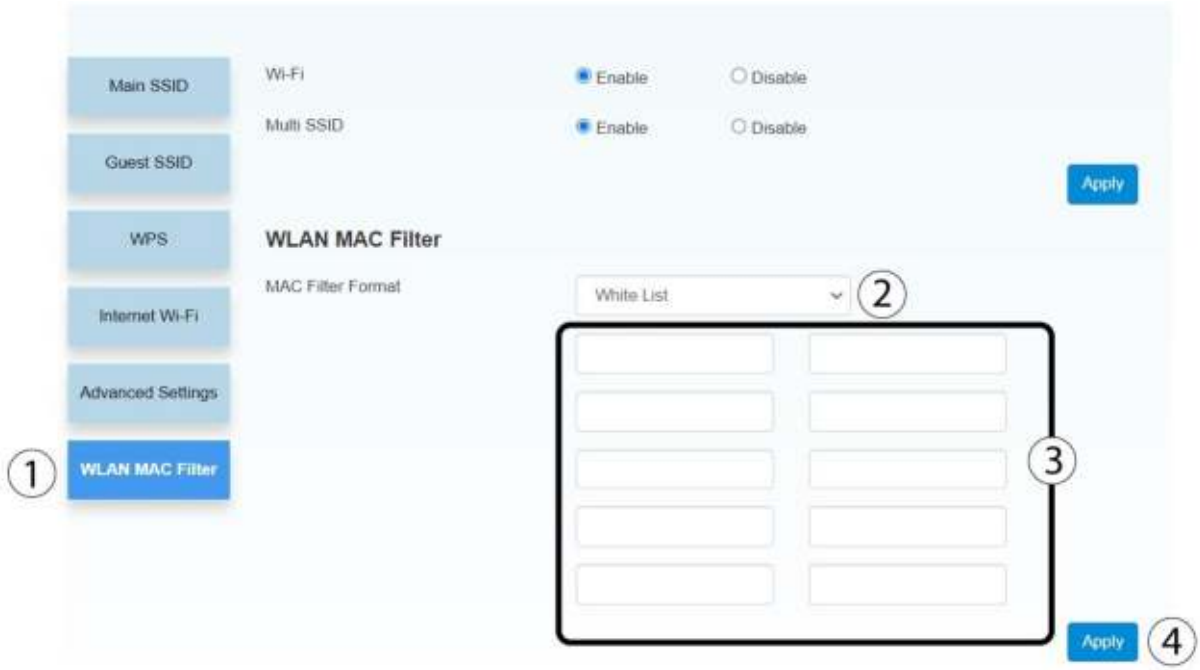
authorised devices. On the other hand, Black List is used to block the access of devices. Then, enter the MAC Address of the device and click **Apply**.



1.5. Statistic Settings

1.5.1. Data Management

1. Click the link in the **Statistics** tab.



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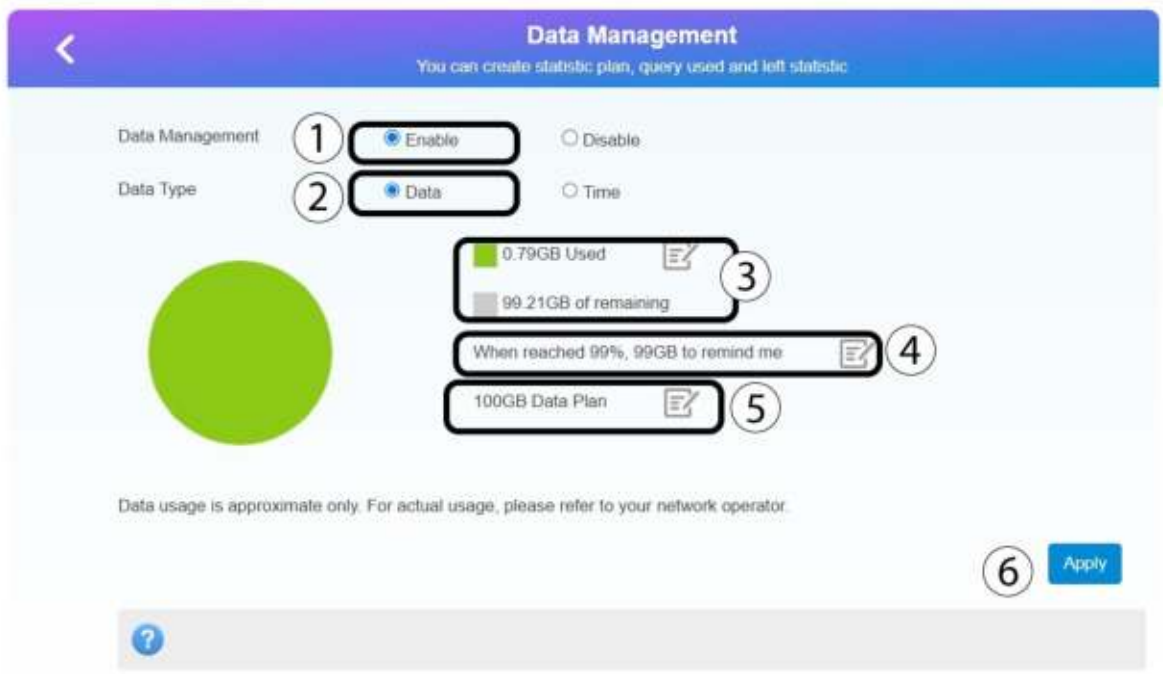
2.

2. Click **Enable** and enter the information of your data plan by clicking the edit button to limit the usage before clicking **Apply**.



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