



User Manual

DG505G

5G/LTE CBRS USB-C Dongle

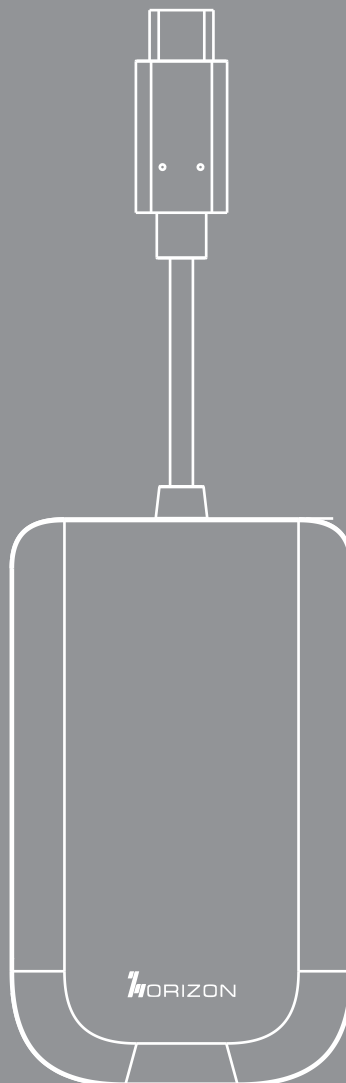


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1.1 Product introduction

This product is a multimode 5G/LTE CBRS USB-C Dongle 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.

NA Band
LTE: B41, B48
5G Sub-6 NR Band: n41, n48, n77, n78

NOTE:
Band Customization Supported, Contact sales for more information.

1.2 Product dimension & weight

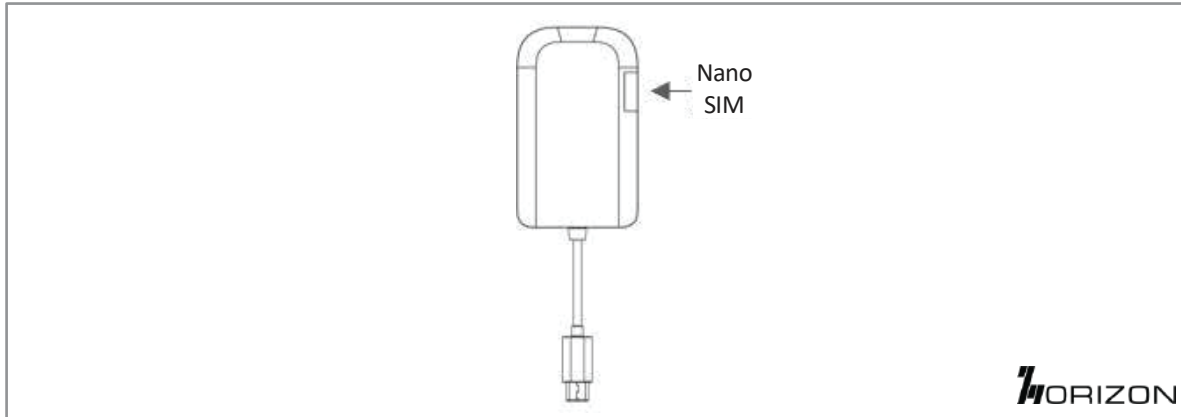
Item	Description
Appearance	<p>The diagram illustrates the product's appearance from multiple perspectives. It shows the device's length as 75mm and its width as 60.3mm. The thickness is 7.8mm. A side view shows a width of 45.3mm. The front view highlights the USB Type C port, the top surface with the HORIZON logo and a Trio color LED, and the Nano SIM slot. The back view shows the USB Type C port and the Nano SIM slot.</p>
Dimension	75 x 45.3 x 7.8mm
Weight	40g

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 5V/3A
Color	White
Dimension	75 x 45.3 x 7.8mm/ 40g
Platform Support	Windows 11/10, Linux, Chrome OS, macOS, iPadOS
Management	Web GUI

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.



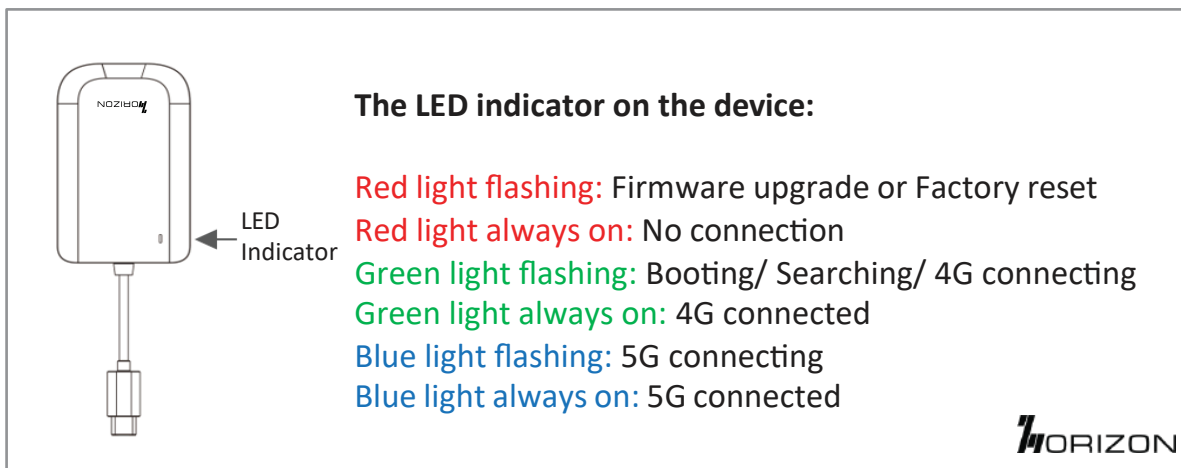
2.2 Plug the dongle into your computer

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

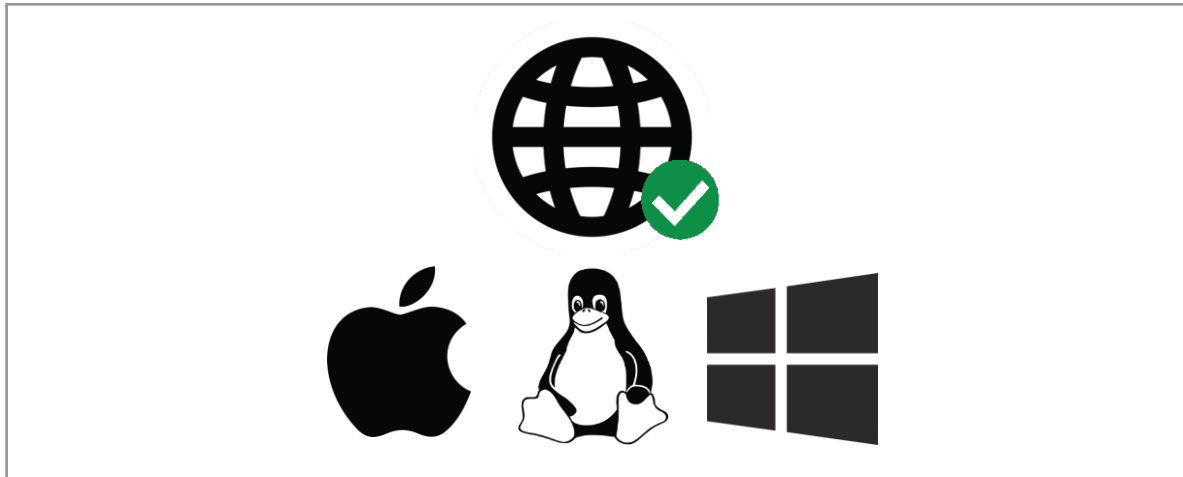
Check dongle's LED lighting, and wait for booting for 30~40 seconds.



2.4 Check the Ethernet network status

Check if your Ethernet network is connected.

(Note: Horizon 5G dongle supports Windows 11/10, Linux, Chrome OS, macOS, iPadOS. For Mac OS we could support version 10 or later.



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.



3.1 Web homepage

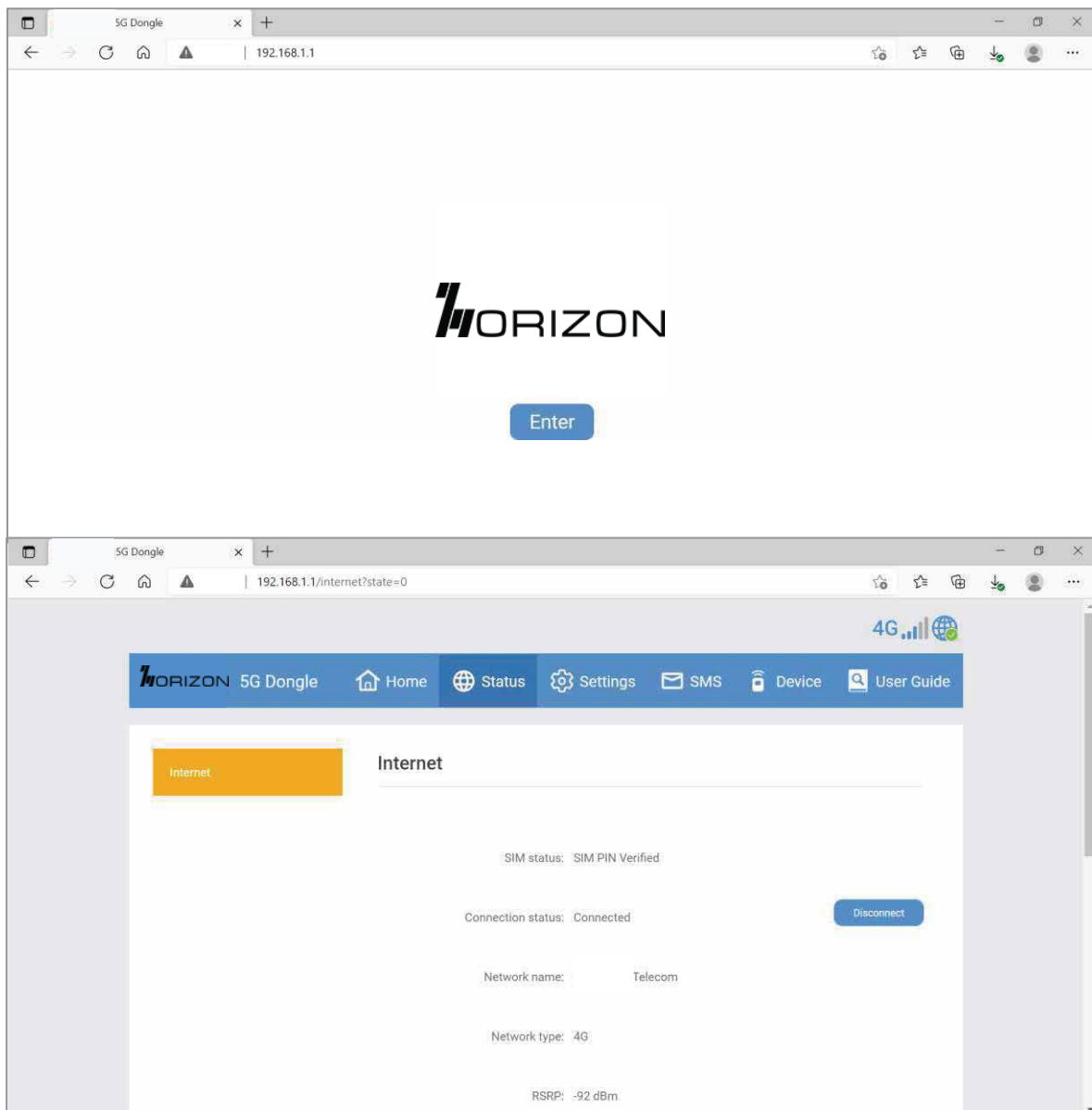
The Web User Interface is compatible with the following browsers:

- 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. Click “Enter” to get into the WebUI. The Home page will then load, as shown in the screenshot below.



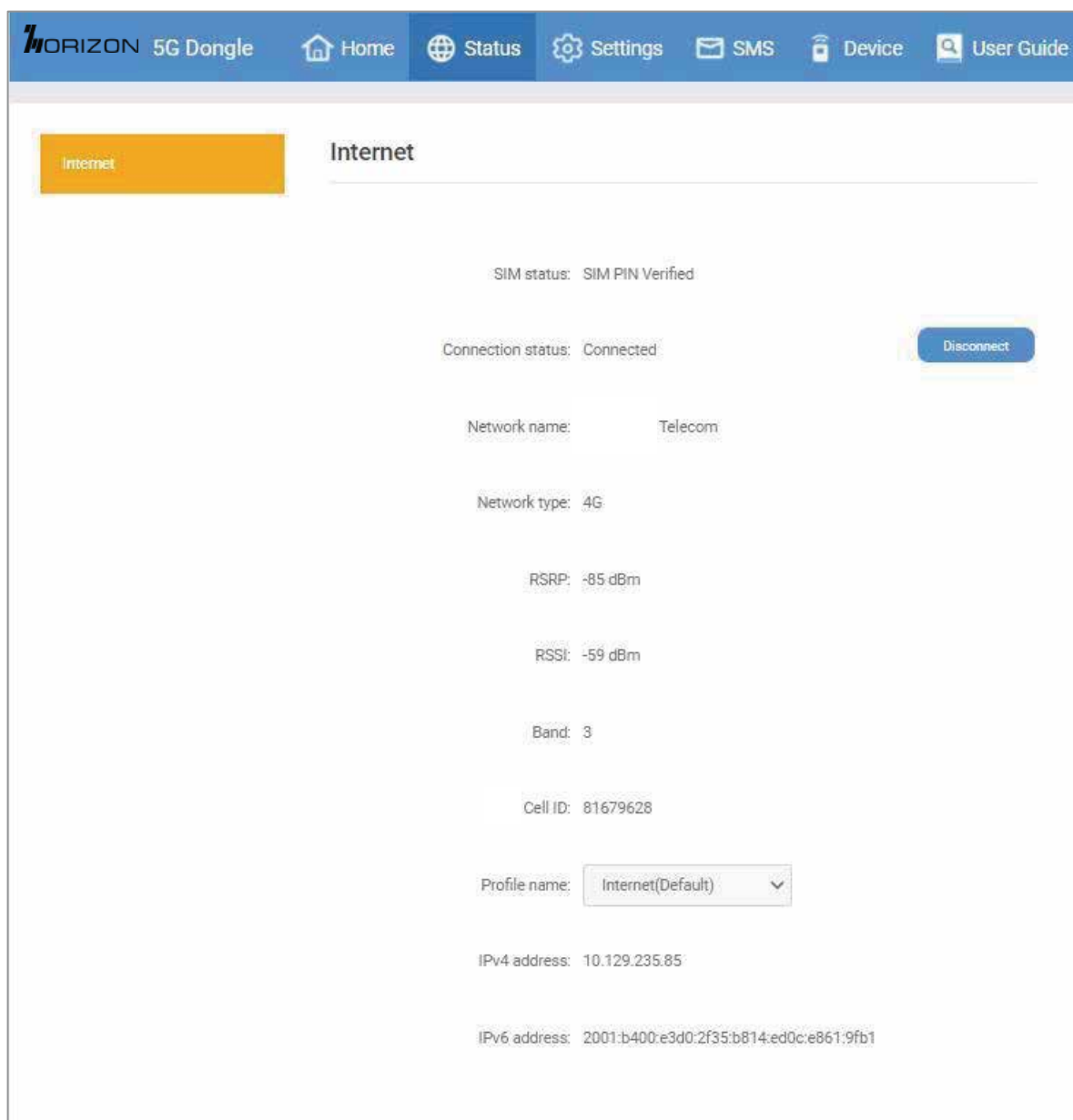
3.1.2 Status bar icons

Description	Icon displayed
Signal indicator	 From no signal to excellent
Connection status	 Disconnected  Connected
SMS	 New message / Unread message(s) in inbox  SMS inbox is full

3.2 Status

Here you can see the internet status, including:

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

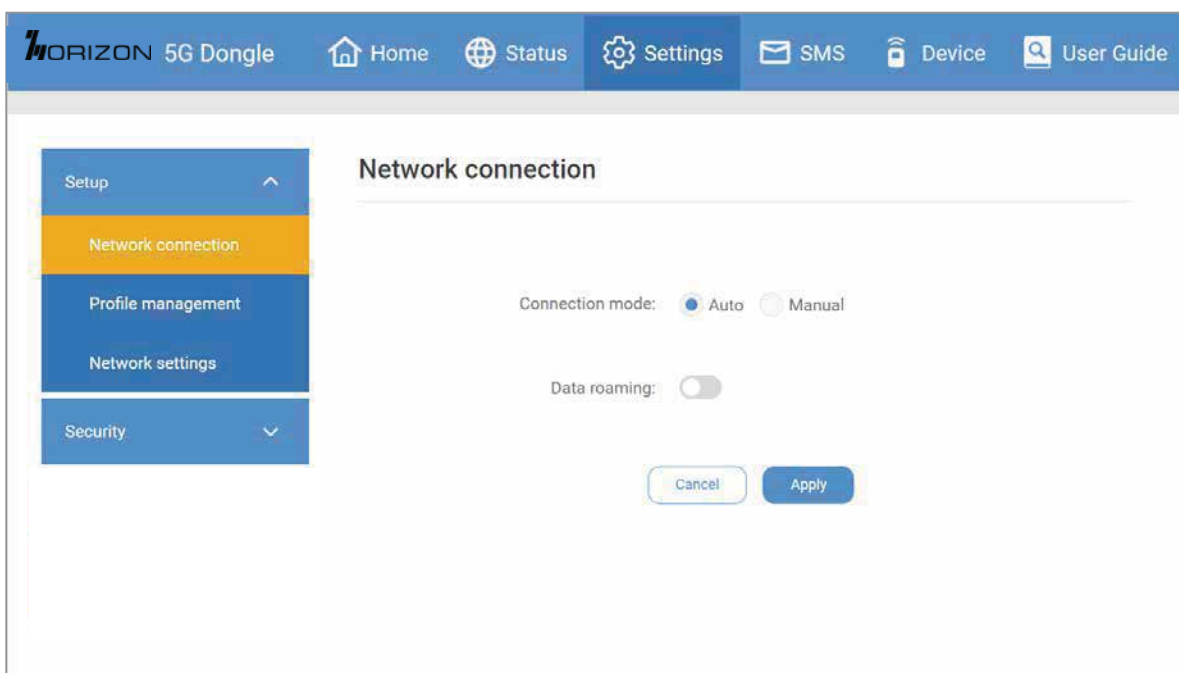


3.3 Settings

3.3.1 Setup

a. 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.



b. Profile management

Profile management allows you to set up a new APN profile or edit/delete existing profiles that have been created.

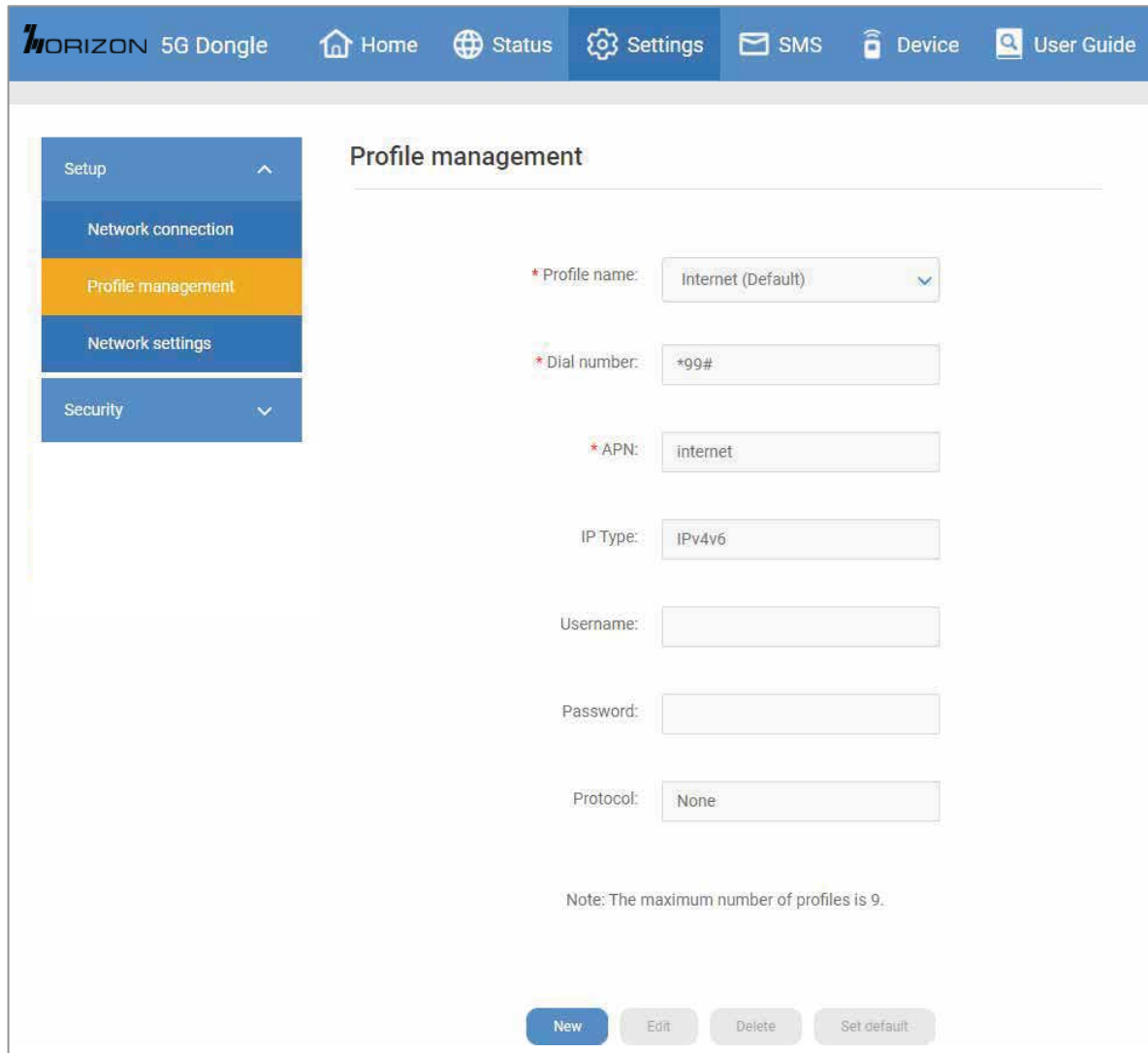
- How to add a new profile
 - 1) Click New.
 - 2) Input the connection settings for your network provider, a Profile name, Dial number and APN are mandatory.
 - 3) Click Save.
- How to delete a profile:
 - 1) Select the profile from the Profile name list.
 - 2) Click Delete.(Note: The default profile 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.)



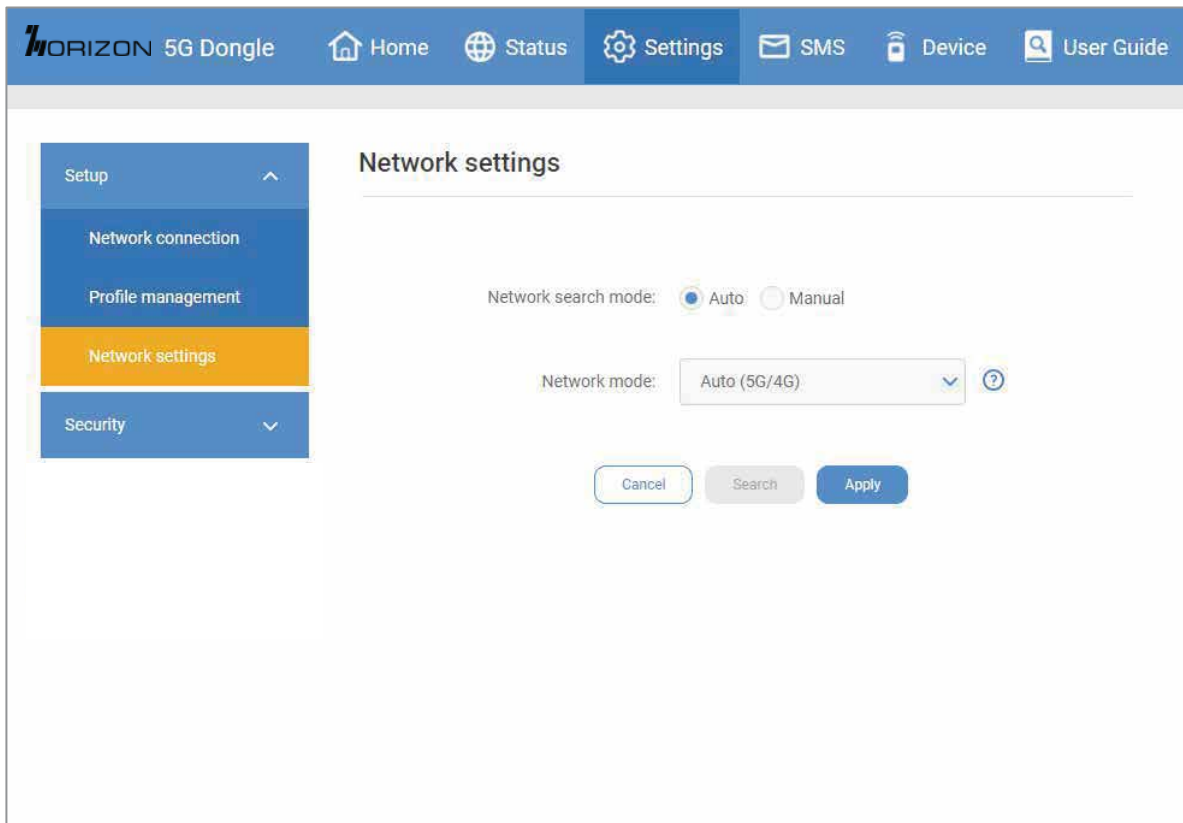
c. Network settings

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**.)



3.3.2 Security

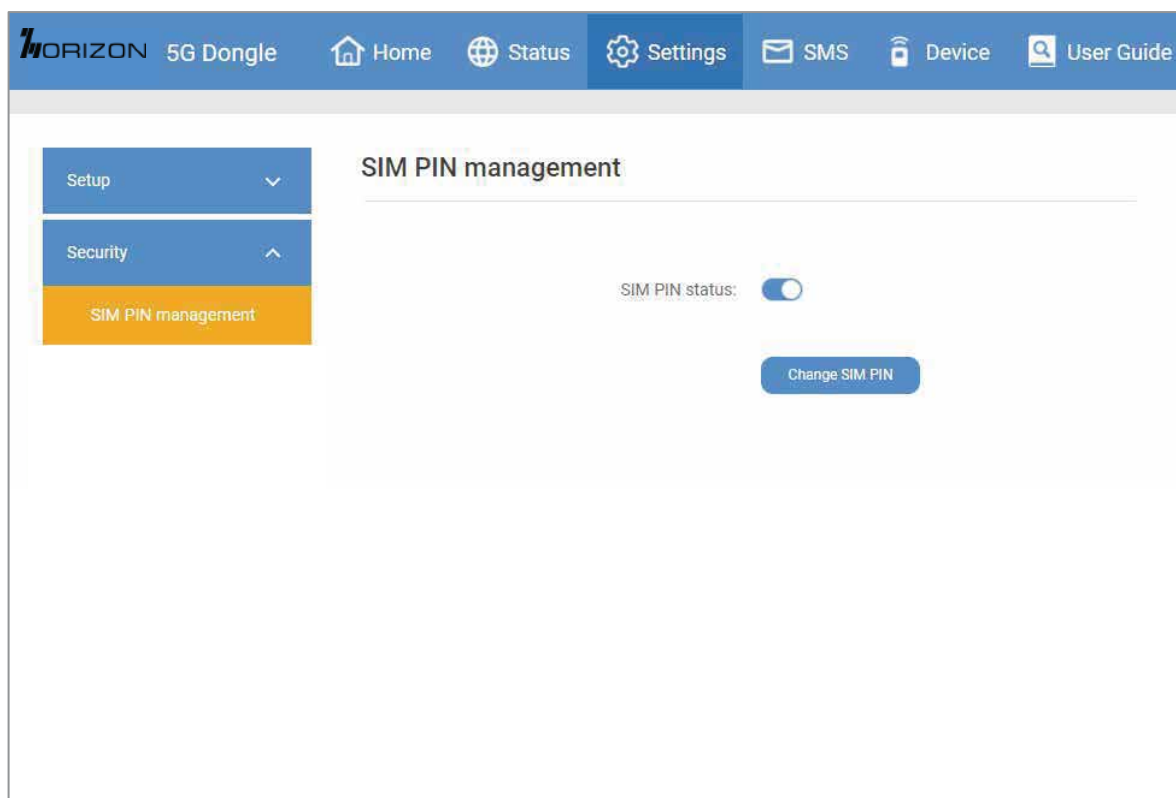
SIM PIN management:

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/Confirm 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.)

The screenshot displays the web interface for a Horizon 5G Dongle. At the top, there is a navigation bar with the following items: 'HORIZON 5G Dongle', 'Home', 'Status', 'Settings', 'SMS', 'Device', and 'User Guide'. The 'Settings' menu is currently selected. On the left side, there is a sidebar menu with three items: 'Setup', 'Security', and 'SIM PIN management'. The 'SIM PIN management' item is highlighted in orange. The main content area is titled 'SIM PIN management' and contains a section for 'Change SIM PIN'. This section includes three input fields: '*Old SIM PIN:', '*New SIM PIN:', and '*Confirm SIM PIN:'. Below these fields, it shows 'Remaining Attempt(s): 3'. At the bottom of the form, there are two buttons: 'Cancel' and 'Apply'.

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.)

The screenshot shows the web interface for a Horizon 5G Dongle. The top navigation bar includes 'HORIZON 5G Dongle', 'Home', 'Status', 'Settings', 'SMS', 'Device', and 'User Guide'. The left sidebar has 'Setup', 'Security', and 'SIM PIN management' (highlighted in yellow). The main content area is titled 'SIM PIN management' and contains the following elements:

- A heading 'PUK required'.
- Three input fields, each with a red asterisk: '* SIM PUK:', '* New SIM PIN:', and '* Confirm SIM PIN:'.
- A status indicator: 'Remaining Attempt(s): 10'.
- Two buttons: 'Cancel' and 'Apply'.

3.4 SMS

3.4.1 SMS inbox

a. How to read an SMS

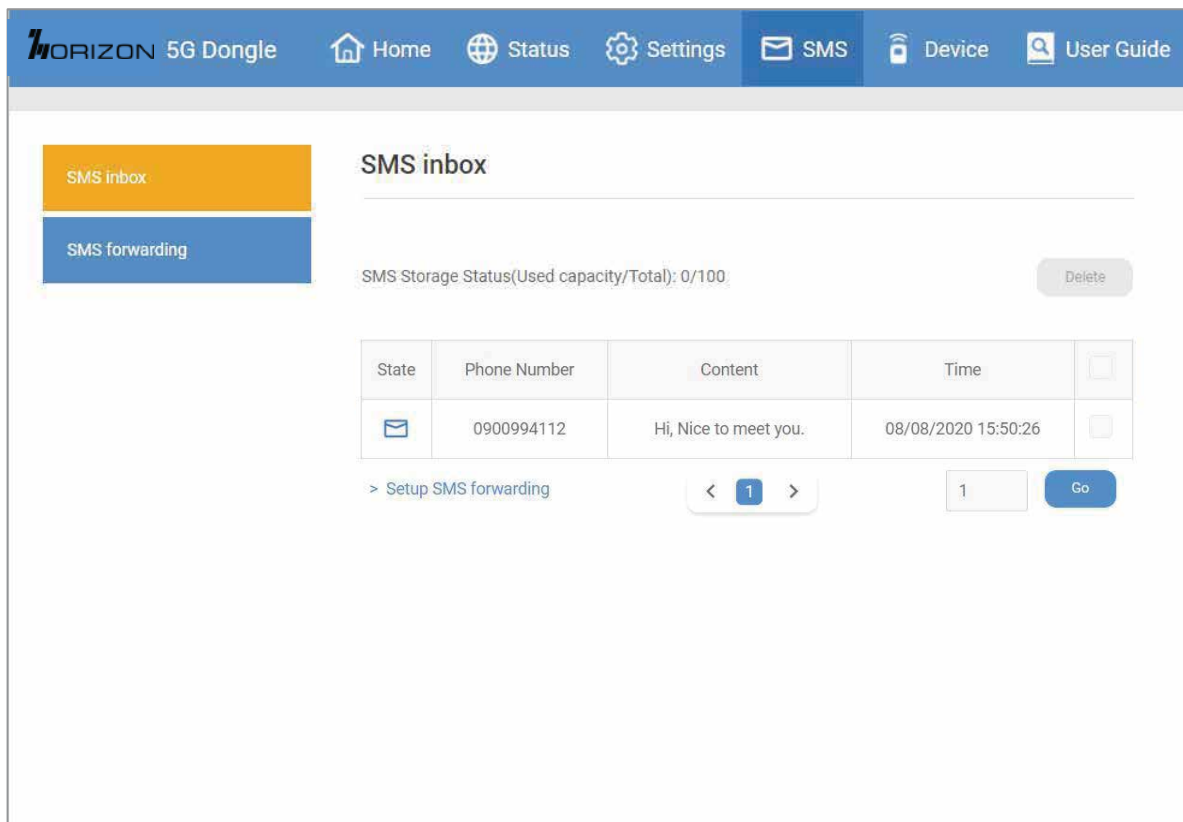
- Left-click the content of the message you wish to read.

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

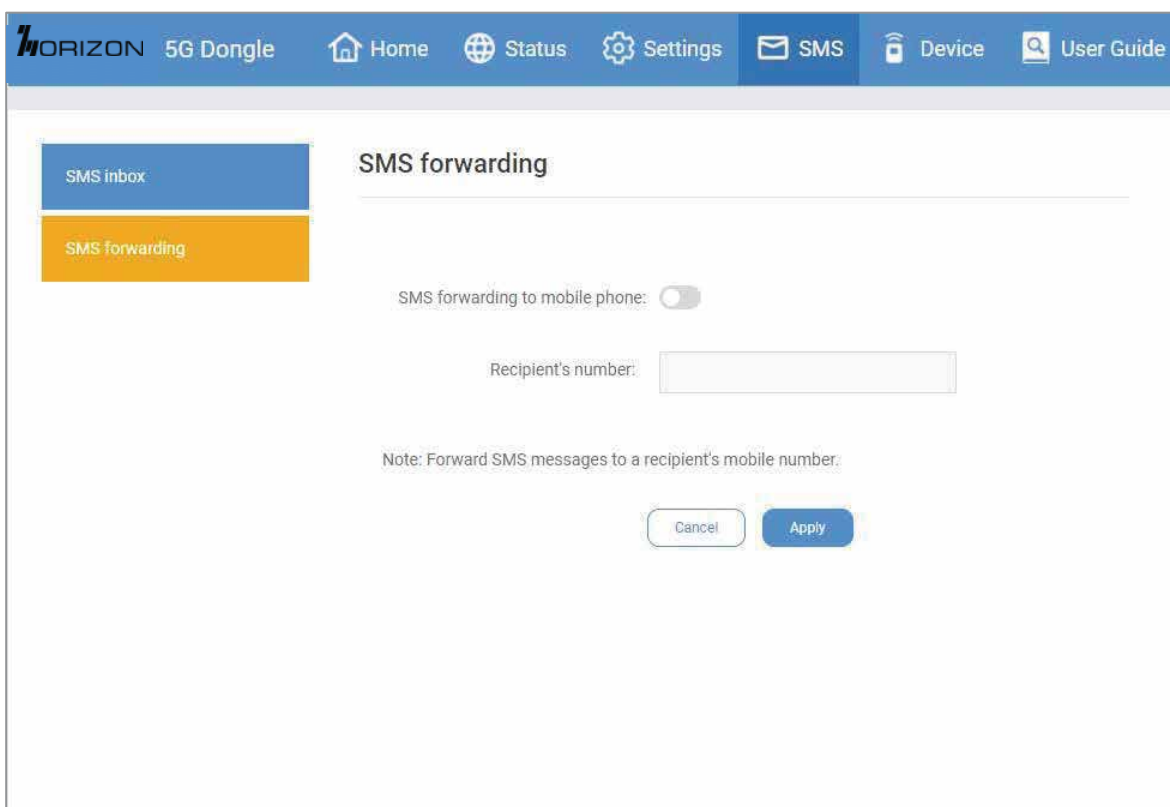
- Left-click the content of the message you wish to read.
- Write the reply message in the reply text box.
- Click Send.

The screenshot shows a web interface for replying to an SMS. On the left is a blue sidebar with a yellow header labeled "SMS inbox". The main content area displays a message from "0911514800" with the text "Hi nice to meet you." Below the message is a text input field labeled "Reply to 0911514800" with a character count of "0/1530 (0)". At the bottom right are three buttons: "Send", "Delete", and "Cancel".

3.4.2 SMS forwarding

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

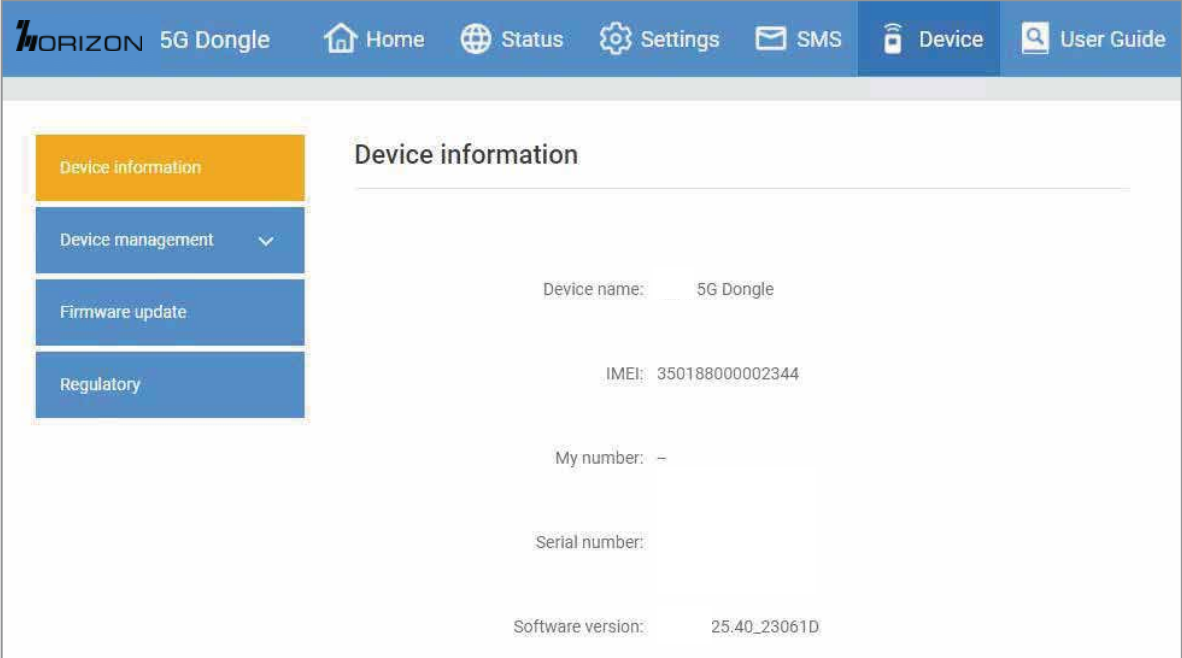
- a. Enable SMS forwarding to mobile phone.
- b. Enter the phone number you wish to have messages forwarded to.
- c. Click Apply.
- d. After clicking Apply, all incoming SMS will be forwarded to that mobile phone number automatically.



3.5 Device

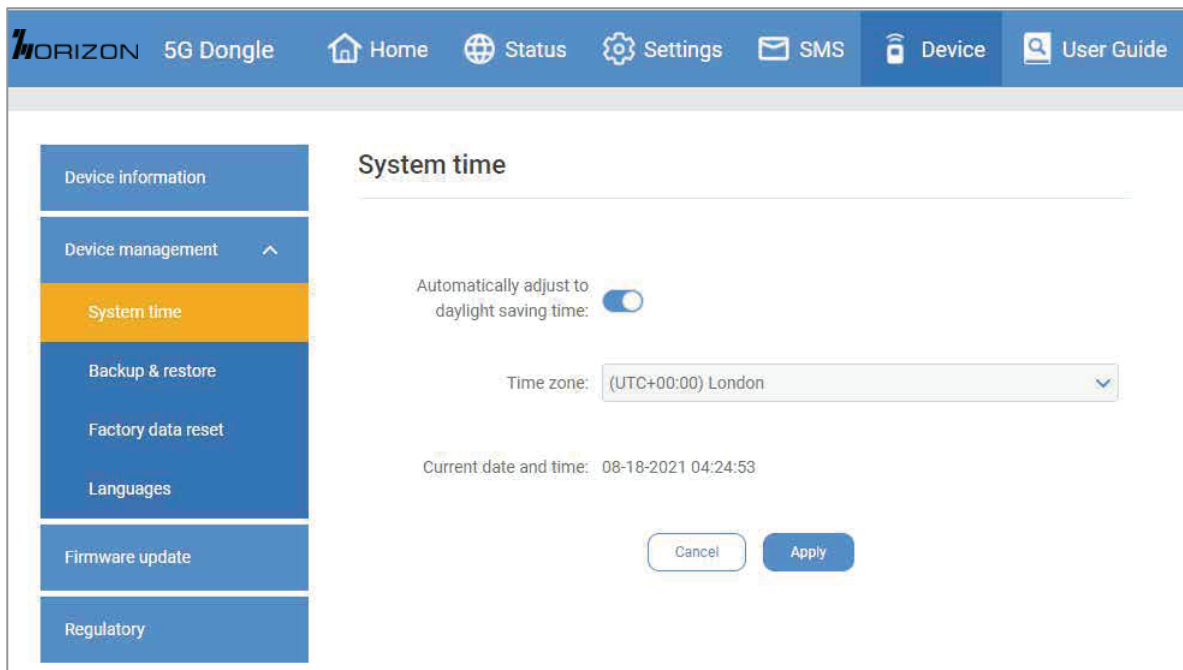
3.5.1 Device information

You can view information about your 5G Dongle here such as the IMEI, your mobile phone number, serial number, and software version.

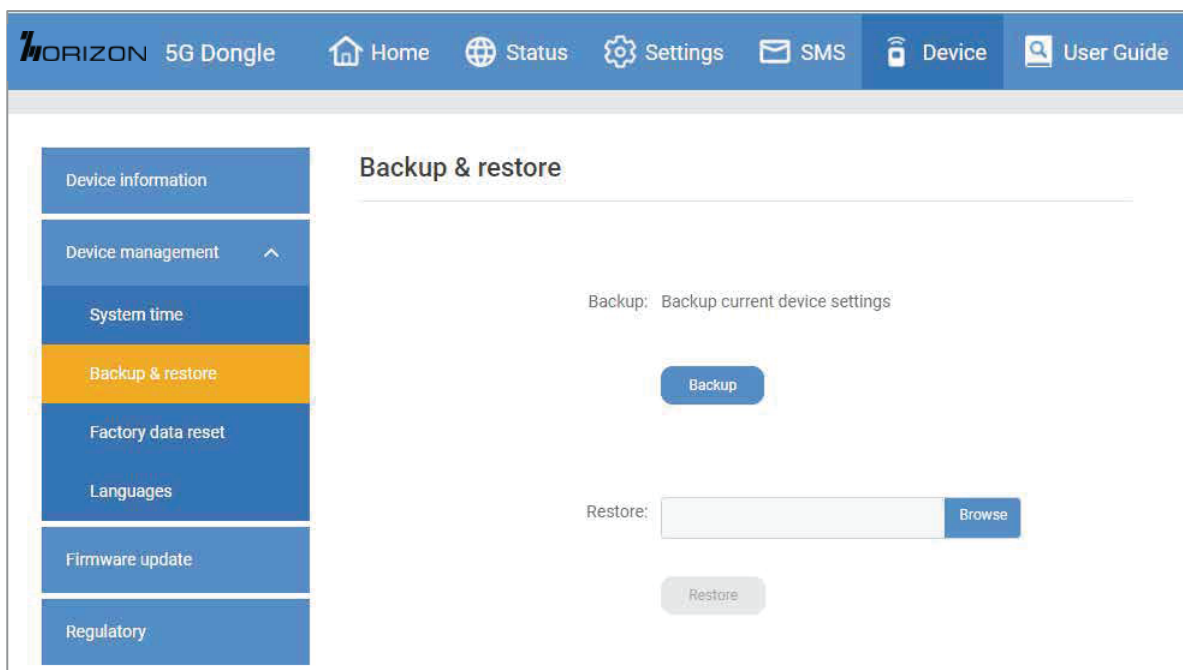


3.5.2 Device management

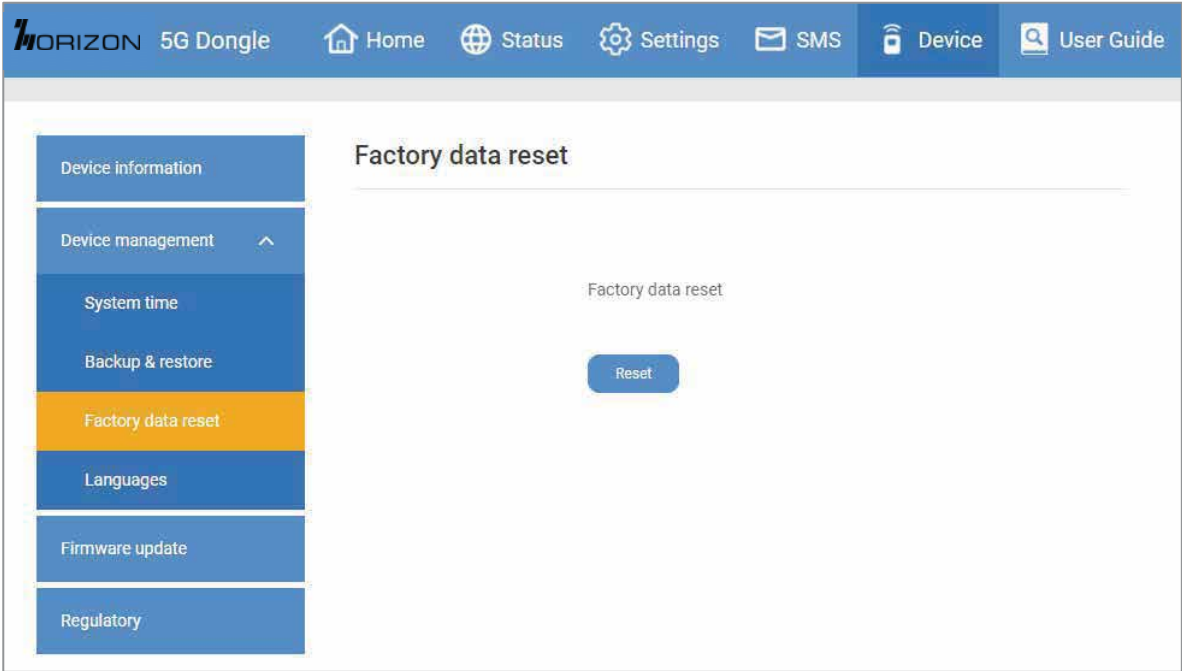
a. System time



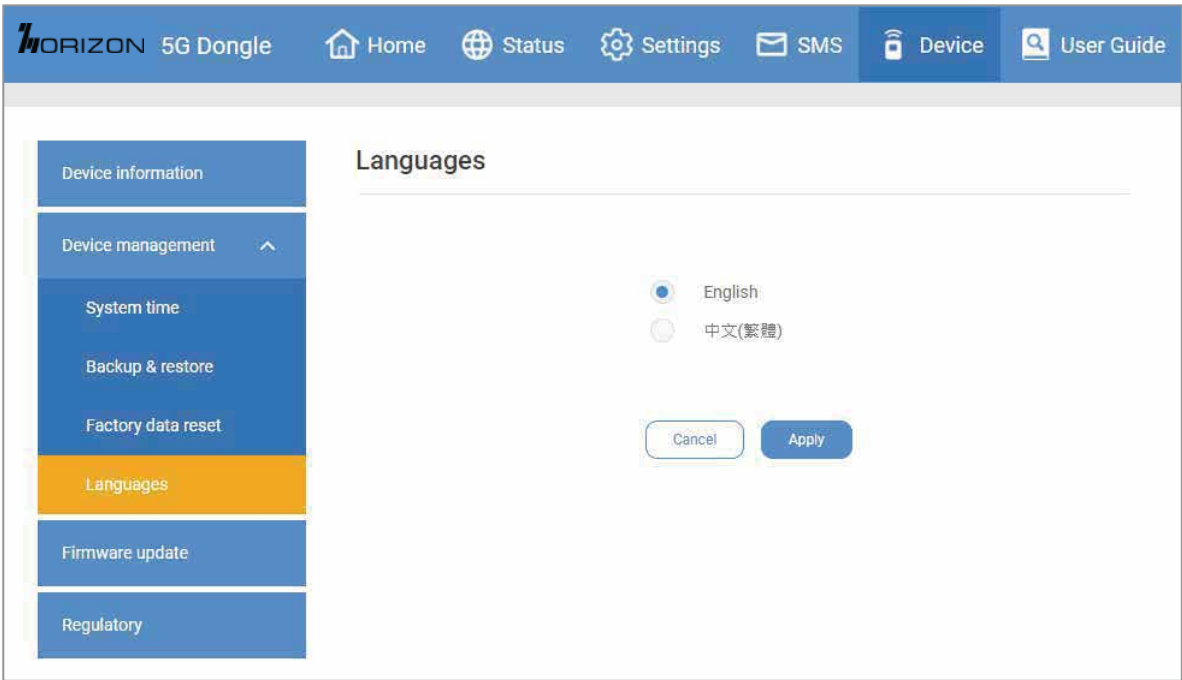
b. Backup & Restore



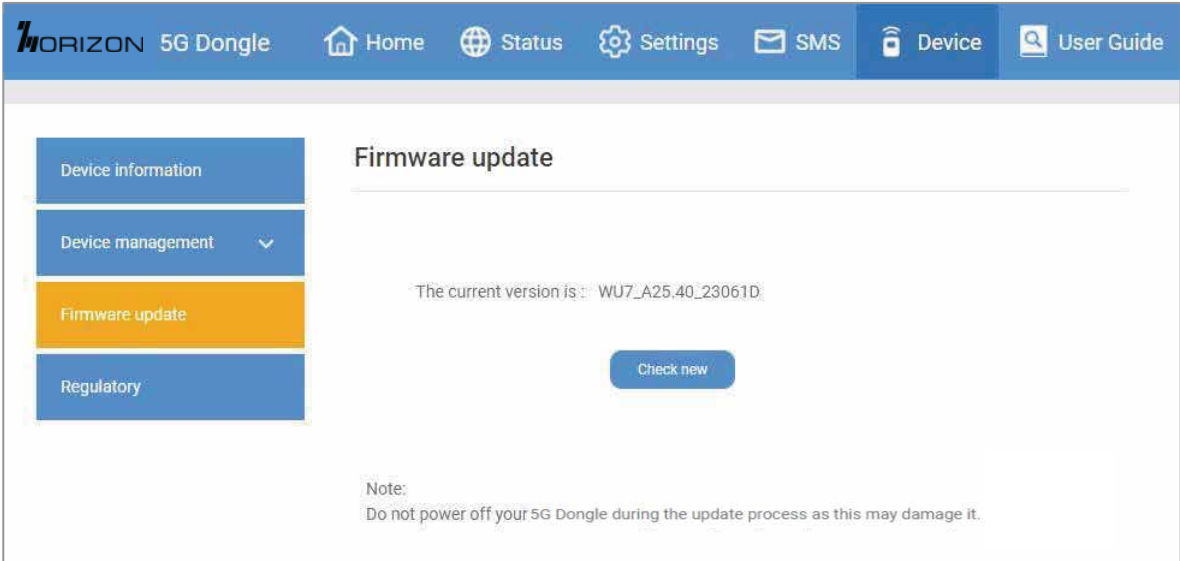
c. Factory data reset



d. Languages



3.5.3 Firmware upgrade



1 HORIZON

