



RHINO H1

USER MANUAL



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Overview

Congratulations on your purchase of the RHINO H1 Wireless Mobile Hotspot.

This manual helps you learn how best to use the RHINO H1. We recommend you read the Quick Start Guide that you have received along with your device for additional safety information.

NOTE: Screenshots, icons, labels, visuals are simplified for illustrative purposes only. They can slightly vary from your device display.

Getting Started

The RHINO H1 creates a personal 5G network, enabling up to 16 Wi-Fi enabled devices to connect to high-speed internet. This allows for faster data upload and download speeds. Utilizing WPA2 encryption, the RHINO H1 provides a secure connection comparable to a standard router.

Compatible devices include laptops, tablets, e-readers, gaming consoles, and more, allowing multiple devices to connect simultaneously.

System Requirements

The RHINO H1 is:

1. Compatible with all major operating systems.
2. Works with the latest versions of browsers such as Google Chrome®, Firefox®, Internet

Explorer® (IE10 or above), Safari™, and Microsoft Edge.

NOTE: Make sure your other Wi-Fi enabled devices have compatible browsers installed and have appropriate network carrier services.

Getting to Know Your Hotspot



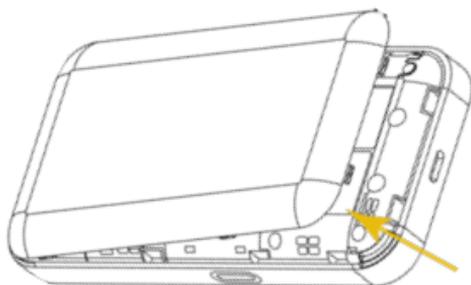
Touch Screen Icons and Interfaces

Icon	Description
	Network signal strength
	Network type
	New SMS
	Battery power level
	Settings
	Wi-Fi status and signal strength
	Shows the number of connected devices
	Tethered to a device via a USB cable.
	Airplane mode

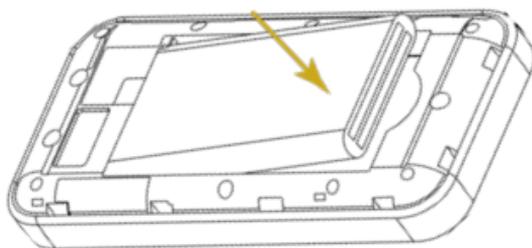
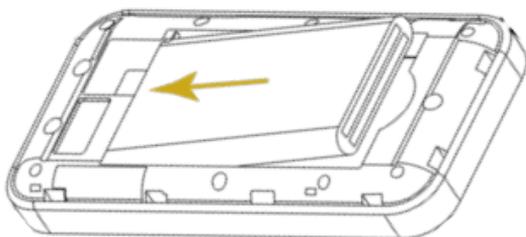
Getting Started

Install the Battery

1. Open the back cover.



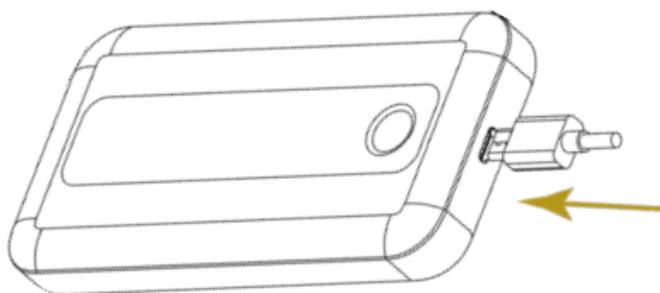
2. Insert the battery. Push forward, press down.



3. Place the back cover.

Power Management

Charging Your Mobile Hotspot



Warning! It is important to fully charge your Mobile Hotspot's battery before using it for the first time. This helps maximize battery life and ensure optimal, reliable performance.

To charge the battery:

1. Connect the USB end of the charger into the charging port of the RHINO H1.
2. Plug the other end of the wall charger into the appropriate electrical outlet. When the battery is fully charged, the battery icon will turn white.

Before using your RHINO H1, read the battery safety information. For more information, see [Battery Use](#).

Caution! It is recommended that you use only the battery and adapter that are included with your RHINO H1 to get optimum performance and safety.

To ensure proper operation and prevent damage, this

product must be connected to a USB port version 2.0 or higher. Connecting to older USB versions is not supported and may result in malfunction or damage to the product.

Inserting a SIM card

Your device supports both eSIM and physical SIM cards. It comes with an eSIM pre-installed, which you can activate by contacting your carrier.

Once activated, you can power on your device by pressing and holding the **Power key**. It will automatically connect to the internet. Alternatively, you can choose to use your own 4G/5G LTE SIM card.

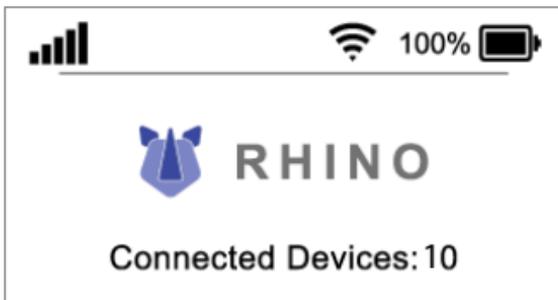
To install the 4G/5G LTE SIM card (not included)

1. Using the small slot at the bottom of the device, carefully lift and remove the cover.
2. Place a new SIM card into the slot and slide the battery back to its place.
3. Put back the back cover.

Caution! Do not bend or scratch your SIM card. Avoid exposing your SIM card to static electricity, water, or dirt.

Start Your Device

Press and hold the **Power Key** to turn your device ON.
Press and release the **Power Key** to wake the device display.

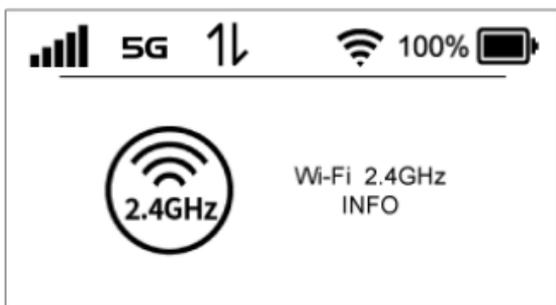


Note: If the battery is extremely low, you may be unable to power on the device. Please charge your device first.

Access the Internet

Wi-Fi: Connect to the Wi-Fi network with your laptop or mobile device and then access the Internet.

1. Press and hold the **Power Key** to turn on the device. The Rhino logo is displayed on the screen, and the Wi-Fi is ON.
2. Use your terminal device to search for the wireless network connection with the Wi-Fi's SSID "**RHINO_*******".
3. Enter the password.
4. Press the **Power Key** to connect.



Note: The default Wi-Fi SSID and password can be found on the Wi-Fi Information screen. You can press the **Menu Key** to view the default Wi-Fi SSID and password.

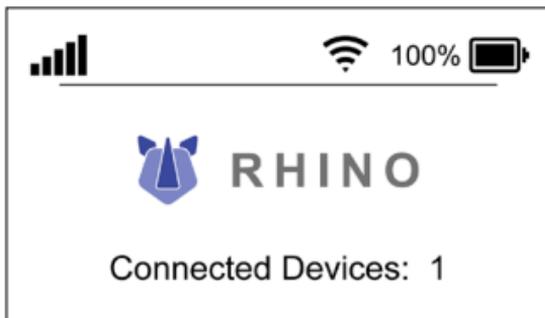
USB Type-C cable: Connect with the computer via USB port and then access the Internet.

Using your Mobile Hotspot

With the RHINO H1 you can view your Mobile Hotspot's status, view your data usage, view Wi-Fi and connected device details, and much more.

The Home Screen

The device Home Screen gives you an overview of its status at a glance.



The top of the screen features status indicators for network signal strength , data traffic activity, message , battery  and others.

Managing Your Hotspot

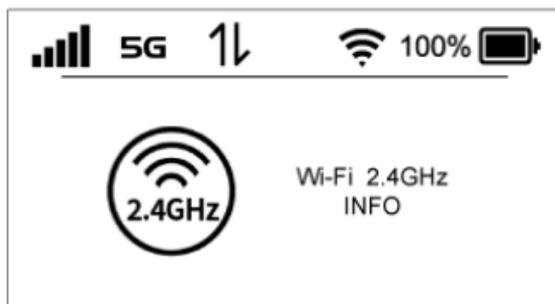
You can manage your settings directly on the device's screen or using the website. The following features help you to manage your device's screen. For website instructions, including features that can only be managed on the website, see [Managing Mobile Hotspot using the Admin Web UI](#).

Device Information

1. Press and hold the **Power Key** to turn your device ON.
2. From the Home screen, view the device details and connected devices.

Wi-Fi Name/Password Info

1. From the Home screen, press the **Menu Key** to switch to the 2.4GHz/5GHz Wi-Fi info interface.

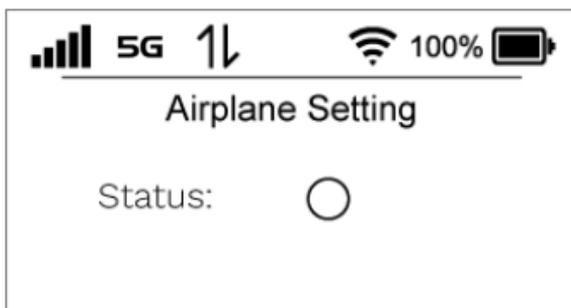


2. Press the **Power/Enter Key** to enter the detailed interface of 2.4GHz/5GHz Wi-Fi info.



3. The default Wi-Fi SSID and password can be found on the Wi-Fi Information screen.

Airplane Settings



1. From the Home screen, press the **Menu Key** to switch to Airplane Settings.
2. Press the **Power Key / Enter Key** to enter the settings, press the **Menu Key** to turn on/off the Airplane Settings.

Help

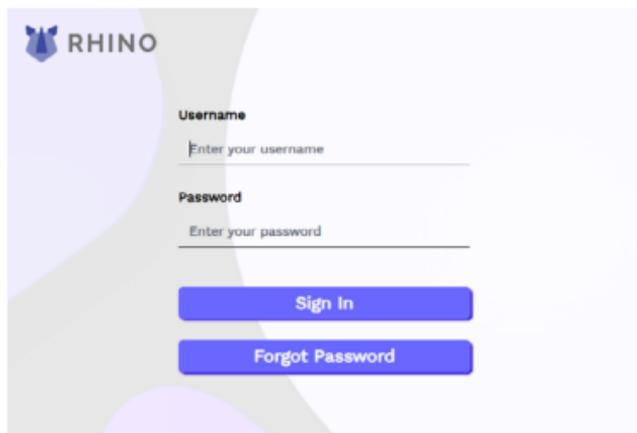
You can view the username and password of the Mobile Hotspot configuration web page.

1. From the Home screen, press the **Menu Key** to switch to Help.
2. Press the **Power Key / Enter Key** to check for username and password .

Managing Mobile Hotspot using the Admin Web UI

You can change the device settings by logging in to the Mobile Hotspot configuration web page.

1. Launch the Internet browser. Enter the Device Manager Website IP address <http://192.168.1.1> or <http://rhinoh1.hotspot/> in the Address bar.
2. Enter the Username and Password and then click **Sign In**.



3. After the Mobile Hotspot configuration web page is opened, you can change the default settings.

Note: The default password can be found on the Help Information screen. You can press the **Menu Key** to view the default password.

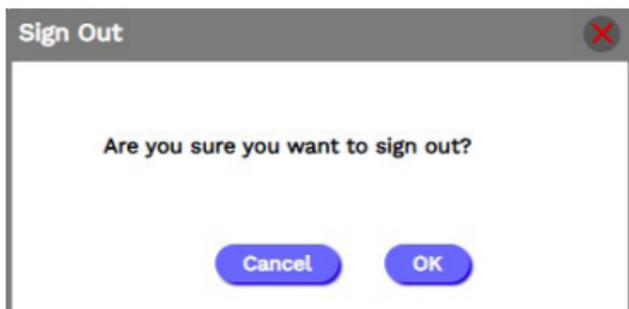
Changing your RHINO H1 password

You can change the default password using the **Admin Web UI**.

- Select **Settings > Account Settings > Password**.
- Enter the current password and then enter the new password of your choice.
- Click **Apply** to save the new password.

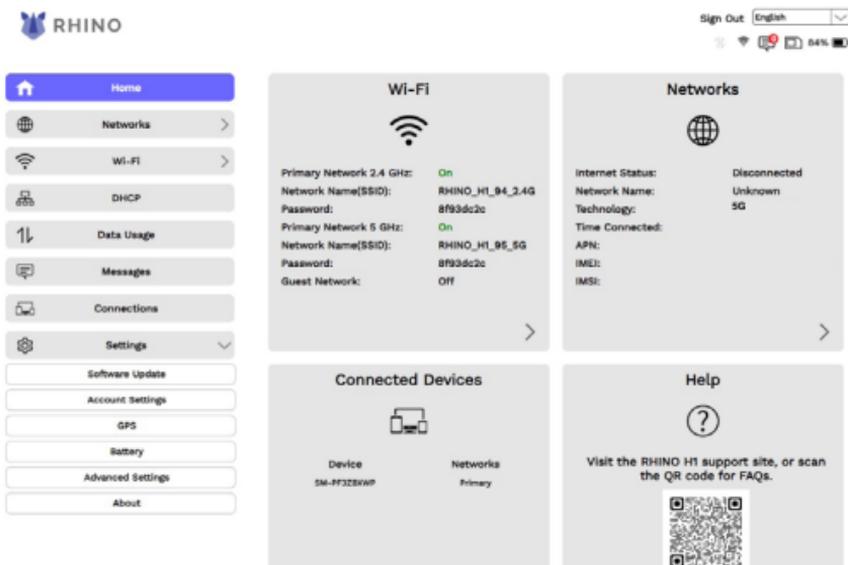
Logging out of Device Management Website

1. To log out from the home page, tap **Sign Out** in the upper right corner.
2. The **Sign Out** window displayed as shown below:



Home

The Home page allows you to quickly access commonly used links and all available menu options for your device.



Web UI Settings

Networks

This screen allows you to change the network settings, and it may affect the device's network connection.



Checking Access Point Names

You can use the default Access Point Names (APNs) to connect to the Internet.



Wi-Fi Status Information

The Wi-Fi information is displayed as shown below. This screen allows you to view Wi-Fi network settings for both

2.4GHz and 5GHz channels.



You can do the following settings:

- Change settings that apply to the Wi-Fi network.
- Hide the password displayed on the device.
- Stop the broadcasting of SSID.
- Apply settings individually to both bands, 2.4GHz and 5GHz.
- Change the Wi-Fi password by entering the new password in the settings box. This has to be done individually for each band.
- Change the guest network settings to add the security.
- To keep your data private, you can turn on Wi-Fi privacy separation. This will isolate your device on the network and protect your data from other users.
- Tap **Save Changes** for the settings to take effect.



Wi-Fi

Note: For added security, share your guest network instead of your primary network.

2.4 GHz Band Settings

Status:

Connect Limit:

Primary network name(SSID):

Security:

Password:

Hide password on screen

Broadcast primary network name(SSID)

WPS

Wi-Fi privacy separation

Save Changes

5 GHz Band Settings

Status:

Connect Limit:

Primary network name(SSID):

Security:

Password:

Hide password on screen

Broadcast primary network name(SSID)

WPS

Wi-Fi privacy separation

Save Changes

Local Area Network (LAN)

The Local Area Network information is displayed as shown below.

- **Dynamic Host Configuration Protocol (DHCP):** to enable DHCP-specific settings to apply to your device.
- **MAC address:** Check the MAC address.
- **IP address:** Check the hotspot's IP address.

The screenshot shows the RHINO mobile hotspot settings. The left sidebar contains navigation options: Home, Networks, Wi-Fi, DHCP (highlighted), Data Usage, Messages, Connections, and Settings. The main content area is titled "IPv4" and includes the following settings:

- DHCP server: Enable
- MAC Address: (empty)
- IP address: 192.168.1.1
- DHCP IP range: 192.168.1.100 to 192.168.1.200
- DHCP lease time: 1440 Minutes

A "Save Changes" button is located at the bottom right of the settings panel.

Data Usage

Check and manage the Mobile hotspot data usage. The Data Usage section shows how much of your monthly data you have used and how much time remains until your next billing cycle.

The screenshot shows the RHINO mobile hotspot settings. The left sidebar contains navigation options: Home, Networks, Wi-Fi, DHCP, Data Usage (highlighted), Messages, Connections, and Settings. The main content area is titled "Data Usage" and includes the following information:

- Message: Data usage information is unavailable when an 'unlimited' data plan is selected.
- Instruction: Select 'My plan has 'Fixed' data' and enter your details below to display data usage information.
- Section: Enter the details of your current data plan
- Options:
 - My plan has 'Fixed' data
 - My plan has 'unlimited' data
- Fields:
 - Monthly available data: 0.00 GB
 - Billing cycle begins on: 1
- Buttons: Save, Reset data counter

A note under the 'unlimited' option states: "Data usage will not display on the home screen of your device."

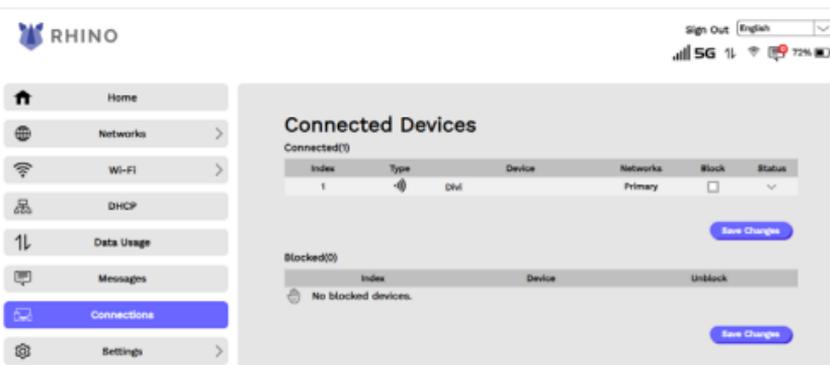
Messages

This screen displays a list of all SMS messages sent from mobile devices to the device MDN (Mobile Directory Number).



Connections

This screen allows you to check all connected devices. It allows you to block devices and view all previously blocked devices.



Settings

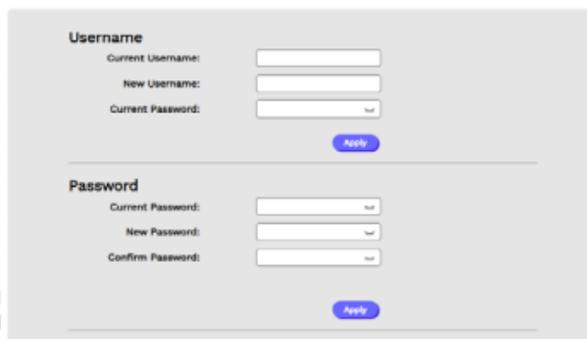
Software Update

This screen allows you to check for software / hardware versions. Tap **Check for new updates** to obtain the latest software updates, if available.



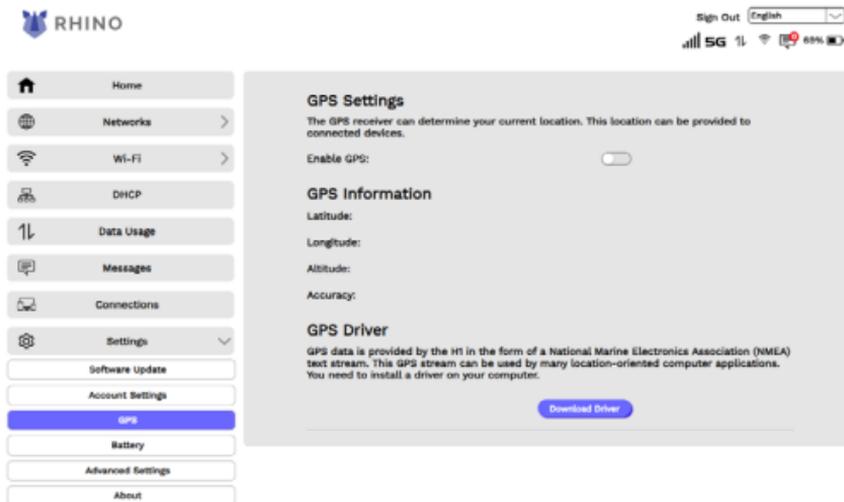
Account Settings

This screen allows you to manage your account settings. You can also change the username and password from here.



GPS

This screen allows you to check the GPS information.



Note: You can Enable/Disable the GPS function when not in use. Most applications using this function will periodically query the GPS satellites for your current location.

Battery

This screen allows you to toggle **Battery Protection mode**. This lets you maintain power levels between 20% and 80% to keep the battery healthy for longer.

**Battery Protection Mode:**

If the user keeps charging the device, the resulting high temperature and voltage may reduce the battery capacity. After switching on the battery protection mode, the power level will eventually be maintained between 20% and 80% to keep the battery health.

Advanced Settings

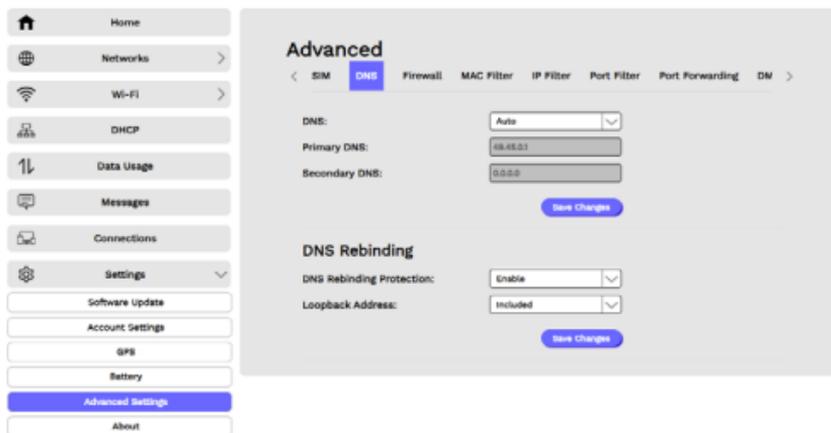
Tap **Advanced Settings** to adjust the following settings:

- Tap **SIM** tab to manage the SIM PIN.
- Tap **DNS** tab to manage DNS settings.
- Tap **Firewall** tab to manage key firewall settings.

Note: Before making any changes in other tabs, IP filtering and port filtering must be enabled here first.

- Tap **MAC Filter** tab to enable or disable the ability to add devices to your Whitelist or Blacklist.
- Tap **IP Filter** tab to define IP addresses that should be filtered.

Note: Before IP filtering can be used for Blacklisted or Whitelisted devices, it needs to be enabled through the Firewall setting.



- Tap **Port Filter** tab to define what type of ports to be applied.
- Tap **Forwarding** tab to management and customization of your IP address so that you can send and receive from your LAN and internet sides.
- Tap **DMZ** tab settings to manage the DMZ settings by enabling this feature and entering the desired IP address.
- Tap **VPN pass Through** tab to enable or disable the virtual private network connection settings.

Note: Contact your company IT administrator for details of your VPN configuration, or check your VPN service's website for additional info.

Reset the Mobile Hotspot to factory settings

There is a Master Reset button underneath the battery cover, on the bottom of the device. This button resets the device to factory settings, including resetting the Wi-Fi name (SSID) and Wi-Fi password.

To reset the device, follow these steps:

1. Locate the Reset button by removing the back cover. You will find the reset button by the battery.
2. Press and hold the Reset button with your finger or use the tip of a pencil or pen. Hold down until the display shows **Resetting**.

Warning! Resetting your device overwrites all the existing settings. If the Wi-Fi settings change, you will lose the existing connection and need to reconnect using the new settings.

Troubleshooting

- 1. The connection between your device and your hotspot through Wi-Fi cannot be established.**
 - Ensure that the Wi-Fi function is enabled.
 - Refresh the network list and select the correct SSID.
 - Check the IP address, and ensure that you can automatically obtain an IP address.
 - Enter the correct network key (Wi-Fi password) when you connect your hotspot to your device.
- 2. The hotspot connected to the device cannot access the Internet.**
 - Ensure that the Wi-Fi function is enabled.
 - Ensure that your SIM card is available.
 - Change the location and find a place with good signal.
 - Open the back cover and press the Reset button to reset the device.
 - Contact your service provider and confirm your APN settings.
- 3. The connection between your device and a PC through a Type-C cable cannot be established automatically.**
 - Enter the correct IP address.
 - Use only one network adapter in your PC.
 - Do not use any proxy server.

- If the driver of your device is abnormal, reinstall the software. You need to uninstall the existing software first.

Battery Use

Handle and store batteries properly to avoid injury or damage. Most battery issues arise from improper handling of removable batteries and, particularly, from the continued use of damaged batteries.

- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Only use the battery with a charging system that has been qualified with the system per CTIA Certification Requirements for Battery System Compliance to IEEE 1725. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.
Only authorized service providers shall replace battery. (If the battery is non-user replaceable).
- Promptly dispose of used batteries in accordance with local regulations.

- Avoid dropping the device or battery. If the device or battery is dropped, especially on a hard surface, and the user suspects damage, take it to an authorized service center for inspection.
- Improper battery use may result in a fire, explosion or other hazard.
- Only use the battery for the system for which it is specified.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Battery usage by children should be supervised.
- Avoid dropping the phone or battery. If the phone or battery is dropped, especially on a hard surface, and the user suspects damage, take it to an authorized service center for inspection.
- Do not replace an embedded battery pack. Improper replacement may present a risk of fire explosion, leakage or other hazard. Contact the manufacturer for replacement instructions.
- The device recognizes the battery via battery ID resistance.
- Operating Temperature for user is 0-40°C.

FCC RF Exposure Information (SAR)

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the United States.

During SAR testing, this device was set to transmit at its highest certified power level in all tested frequency bands, and placed in positions that simulate RF exposure in usage near the body with the separation of **10 mm**. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value.

This is because the hotspot is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The exposure standard for wireless devices employing a unit of measurement is known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.

This device complies with SAR for general population / uncontrolled exposure limits in **ANSI/IEEE C95.1-019** and had been tested in accordance with the measurement methods and procedures specified in **IEEE1528**.

The FCC has granted an Equipment Authorization for this

model hotspot with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model hotspot is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching on FCC ID: **2AUOUH1**.

For this device, the highest reported SAR value for usage near the body is **1.16 W/kg**.

While there may be differences between the SAR levels of various hotspots and at various positions, they all meet the government requirements.

SAR compliance for body-worn operation is based on a separation distance of 10 mm between the unit and the human body. Carry this device at least 10 mm away from your body to ensure RF exposure level is or lower to the reported level. To support body-worn operation, choose the belt clips or holsters, which do not contain metallic components, to maintain a separation of 10 mm between this device and your body.

RF exposure compliance with any body-worn accessory, which contains metal, was not tested and certified, and using such a body-worn accessory should be avoided.

FCC Compliance

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the User's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Federal Communication Commission (FCC) Radiation Exposure Statement.

When using the product, maintain a distance of 10 mm from the body to ensure compliance with RF exposure requirements.

Note: Operations in the 5.15 - 5.25GHz band are restricted to indoor usage only.

RHINO warranty

All RHINO devices benefit from a 12-month limited warranty covering defects in materials and workmanship. The warranty applies from the date of purchase and can be claimed against with any valid proof of purchase providing the defective unit is complete and undamaged.

To check the warranty status of your device, use our [warranty check](#) service. To initiate a warranty return, please visit [escalating to support](#) for further guidance.

For more information, [visit https://support.rhinomobility.com/support/warranty](https://support.rhinomobility.com/support/warranty)

Manufacturer Information

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