



Quantum HS2 HotSpot Wireless Portable Router User Manual

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Quantum®

Quantum HS2 HotSpot Wireless Portable Router



Product Information

Specifications

- Product Name: Quantum HotSpot HS2
- Product Type: Wireless Portable Router (LTE)
- Manufacturer: Quantum Connectivity de SA de CV
- Dimensions: Pocket-size
- Weight: Lightweight
- Connectivity: Wi-Fi
- Compatibility: Tablets, computers, phones, etc.
- Package Contents:
 - 1 Portable Wireless Router (LTE) HotSpot HS2
 - 1 USB cable
 - 1 User manual
 - 1 Warranty policy
 - 1 Quick installation guide

Product Usage Instructions

SIM Installation

To use the HotSpot HS2, you need to install a SIM card:

1. Locate the SIM card slot on the device.
2. Gently insert the SIM card into the slot, ensuring it is properly aligned.
3. Push the SIM card in until it clicks into place.

Battery Charging

To charge the device's battery:

1. Connect one end of the provided USB cable to the device's USB connector.
2. Connect the other end of the USB cable to a power source, such as a wall adapter or a computer.
3. The device will start charging. The LED indicators will show the charging status.
4. Once fully charged, disconnect the USB cable from the device.

Turning on the HotSpot HS2

To turn on the HotSpot HS2:

1. Locate the power button on the device.
2. Press and hold the power button until the LED indicators light up.
3. The device will start up and establish a wireless connection.

Internet Connection

To connect to the internet using the HotSpot HS2:

1. Ensure that the device is turned on and the SIM card is properly installed.
2. On your device (e.g., tablet, computer, phone), go to the Wi-Fi settings.
3. Select the network name (SSID) of the HotSpot HS2 from the available networks.
4. Enter the password, if prompted.
5. Once connected, you can access the internet and start browsing or using online services.

USB Connection

You can use the USB connection feature of the HotSpot HS2 to share its internet connection with a computer:

1. Connect one end of the provided USB cable to the device's USB connector.
2. Connect the other end of the USB cable to a USB port on your computer.
3. The computer will detect the HotSpot HS2 as a network connection.
4. You can now use the internet connection of the HotSpot HS2 on your computer.

Battery Saving Mode

The HotSpot HS2 has a battery saving mode to extend its battery life:

1. Access the interface of the HotSpot HS2 using a web browser (instructions in section 2.13).
2. In the interface, navigate to the battery saving settings.
3. Enable the battery saving mode.
4. The device will automatically optimize its power usage to conserve battery.

Restoring Factory Settings

If you need to reset the HotSpot HS2 to its factory settings:

1. Access the interface of the HotSpot HS2 using a web browser (instructions in section 2.13).
2. In the interface, navigate to the restore factory settings option.
3. Select the option to restore factory settings.

4. The device will reset all its settings and configurations to the default values.

Changing SSID and Password

You can change the network name (SSID) and password of the HotSpot HS2:

1. Access the interface of the HotSpot HS2 using a web browser (instructions in section 2.13).
2. In the interface, navigate to the wireless settings.
3. Change the SSID and password to your desired values.
4. Save the changes.
5. The HotSpot HS2 will use the new SSID and password for its Wi-Fi network.

Establishing Wireless Connection

To establish a wireless connection with the HotSpot HS2:

1. Ensure that the device is turned on and the SIM card is properly installed.
2. On your device (e.g., tablet, computer, phone), go to the Wi-Fi settings.
3. Select the network name (SSID) of the HotSpot HS2 from the available networks.
4. Enter the password, if prompted.
5. Once connected, you can access the internet and start browsing or using online services.

Establishing WPS Connection

You can establish a Wi-Fi Protected Setup (WPS) connection with the HotSpot HS2:

1. Ensure that the device is turned on and the SIM card is properly installed.
2. On your device (e.g., tablet, computer, phone), go to the Wi-Fi settings.
3. Enable WPS on your device.
4. Press the WPS button on the HotSpot HS2.
5. Your device will automatically connect to the HotSpot HS2 using WPS.

Using the Interface

The HotSpot HS2 provides a web-based interface for advanced settings and management:

1. Connect your device (e.g., computer) to the HotSpot HS2 using Wi-Fi or USB connection.
2. Open a web browser on your device.
3. Enter the IP address of the HotSpot HS2 in the browser's address bar (e.g., <http://192.168.0.1>).
4. Press Enter to access the interface.
5. You can now navigate through the different sections and configure the settings according to your needs.

FAQ

- Q: Can I use any SIM card with the HotSpot HS2?
- A: The HotSpot HS2 is compatible with most standard SIM cards. However, it is recommended to check the device's specifications or contact the manufacturer to ensure compatibility.
- Q: How do I check the battery level of the HotSpot HS2?
- A: The HotSpot HS2 has LED indicators that show the battery level. You can also check the battery level in the

device's interface.

- Q: Can I connect multiple devices to the HotSpot HS2 at the same time?
- A: Yes, the HotSpot HS2 supports multiple Wi-Fi connections, allowing you to connect and share the internet with multiple devices simultaneously.

We invite you to carefully read this manual before using it. Please keep it for future reference.

We appreciate your trust and preference for purchasing one of our devices, we are sure that you will obtain great benefits. If you have any questions about the purchased product, please contact us for personalized attention.

Legal information

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Due to the nature of wireless communications, data transmission and reception can never be guaranteed. Data can be delayed, corrupted (ie, have errors), or lost entirely. Quantum Connectivity CV, will not be responsible for any loss of benefits or indirect, special, incidental or consequential damages resulting or derived from the use of this product, whether or not it was informed, knew or should have known of the possibility of such damages, including the cost of installations or substitute products or any cost of downtime.

All images shown below are for informational purposes.

Get to know the

product The HotSpot HS2 PORTABLE WIRELESS (LTE) ROUTER is a high-performance, powerful battery and high-speed modem that's great to take with you wherever you go thanks to its pocket size and light weight. Offers Wi-Fi connection to multiple devices like tablets, computers, phones, etc.; To access the Internet, share files and more, just plug and play.

Package content 1

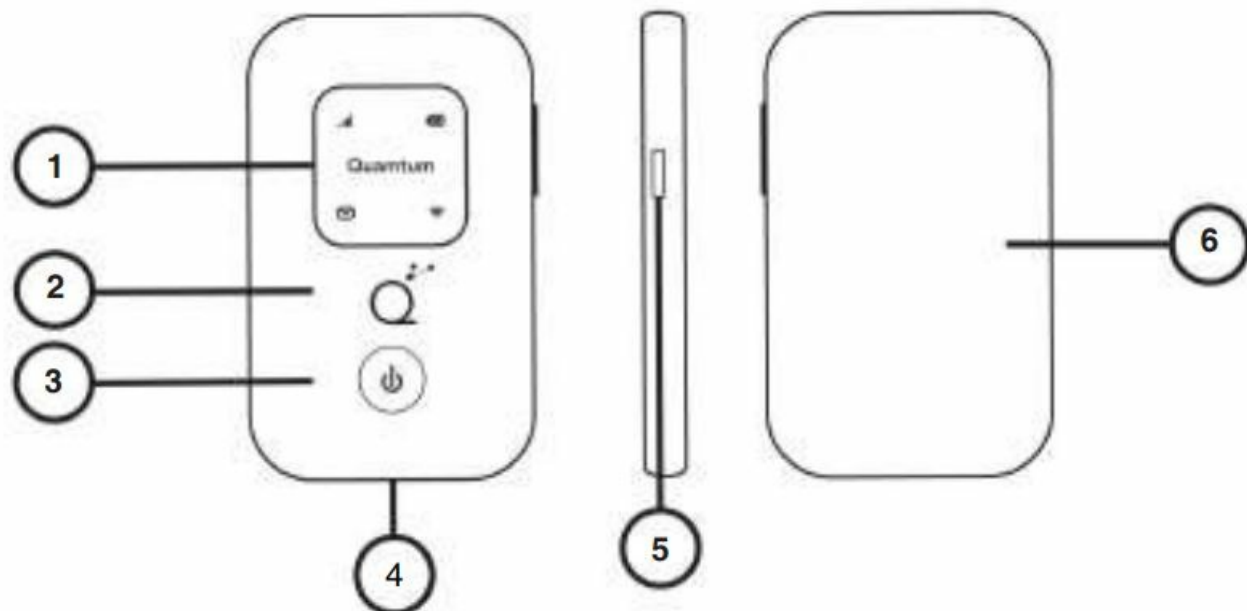
PORTABLE WIRELESS ROUTER (LTE) HotSpot HS2.

- 1 USB cable.
- 1 user manual.
- 1 Warranty policy.
- 1 Quick installation guide.

Use only accessories and devices approved by QUAMTUM CONNECTIVITY CV, otherwise you run the risk of serious effects on your health, electrical damage to your mobile device, or to the facilities within your property. By using accessories not authorized by QUAMTUM CONNECTIVITY CV you invalidate the guarantee.

Instruction and Operations







Product Diagram



General Specifications

1. LED Indicators
2. Device Case
3. Power Button
4. USB connector
5. WPS Button
6. Device Cover

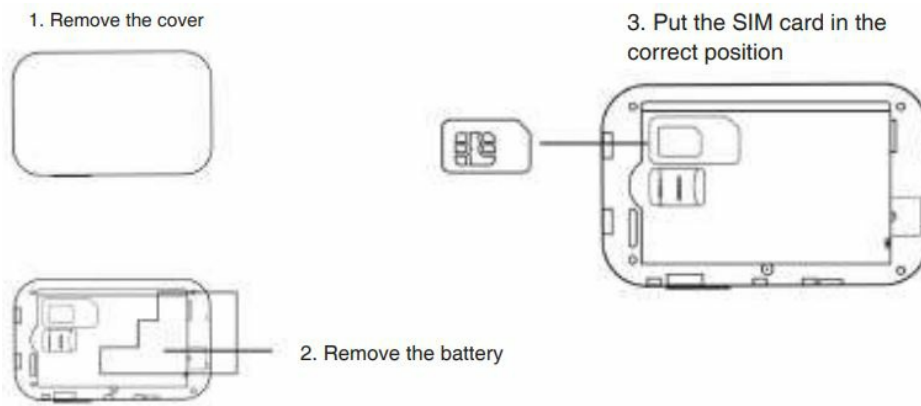
LED indicators

No.	Icon	Description
1		1. 4G(LTE) indicator <ul style="list-style-type: none"> • Green: Connected to the 4G network. • Blue: Connected in data roaming mode. • Red: No signal or SIM card not recognized.
2	 Intermittent	2. Message • Flashing: New message
3	  Intermittent	3. Battery <ul style="list-style-type: none"> • Green: Battery over 70% • Red: Low battery • Flashing: Battery is charging
4	  Intermittent	4. Wi-Fi <ul style="list-style-type: none"> • Blue: Wi-Fi access point enabled • Flashing: WPS active

SIM Card Installation

Use only a standard SIM card (2FF), do not use 3FF (Micro SIM) or 4FF (Nano SIM) cards unless you use a 2FF size adapter.

1. Remove the cover
2. Remove the battery
3. Put the SIM card in the correct position



Note: Please do not use SIM/USIM cards that do not correspond to the port where the SIM/USIM card will be placed, such as 3FF (Micro SIM) or 4FF (Nano SIM) cards, otherwise use a 2FF size adapter (Mini SIM)



A compatible SIM card and an active data plan must be used to enjoy internet service.

Battery charge

If your PORTABLE WIRELESS ROUTER (LTE) HotSpot HS2 has not been used for a long time, or the battery is completely depleted, the device may not be able to turn on immediately after connecting the charger. Charge the battery for a while before trying to turn on the equipment.

Note:

1. Use only chargers compatible with the device and specified by the designated manufacturer. Using an incompatible charger or one from an unknown manufacturer may cause the HotSpot HS2 PORTABLE WIRELESS (LTE) ROUTER to malfunction, fail, or even cause a fire. Such use voids all warranties, whether express or implied, on the product.
2. Inside the box you will find the appropriate USB cable to charge your device. If for some reason you do not have the cable provided by the manufacturer, it is recommended to use one compatible with the following characteristics:
 - **Input:** 100-240 Vac 50/60 Hz 150 mA
 - **Output:** 5.0Vdc 1A

The device is fully charged in an approximate period of 2-3 hours. However, it is important to note that it requires a minimum period of 24 hours to be charged for the first time, this will allow you to define a high charging threshold.

Turn on your HotSpot

HS2 Press and hold the power button until the LED indicators start to flash.

Internet connection

The connection parameters have been preset according to the requirements of the Operator and the PORTABLE WIRELESS ROUTER (LTE) HotSpot HS2 will automatically connect to the Internet.

Note: You can log in to the web management page and enable or disable auto connect.



Logging in to the web administration page

Connect your HotSpot HS2 PORTABLE WIRELESS (LTE) ROUTER to a computer via Wi-Fi or USB port. The information to access the network can be found by removing the cover on the back of the equipment and removing the battery, there you will find the label with the default information: SSID: Telcel -HS2-XXXX Wi-Fi Password: XXXXXXXXXXXX Where XXXX stands for the last 4 digits of the MAC address.

And XXXXXXXXXXXX is the hexadecimal password of 10 random digits.

To enter the web manager it is necessary to follow these steps:

1. Open the browser and enter <http://192.168.8.1> in the address bar.
2. Sign in to enter equipment settings. Default permissions:
 - **Web User:** Telcel_Admin
 - **Web Password:** TelcelXXXX

Once logged in, you will be able to view your connection status data on the main screen, configure your Wi-Fi network, manage connected devices, access your statistics and more. To know more information regarding your PORTABLE WIRELESS ROUTER (LTE) HotSpot HS2, locate the Status Information section on the main screen, and you will find, SIM card number, signal strength, IMSI, IMEI and more.

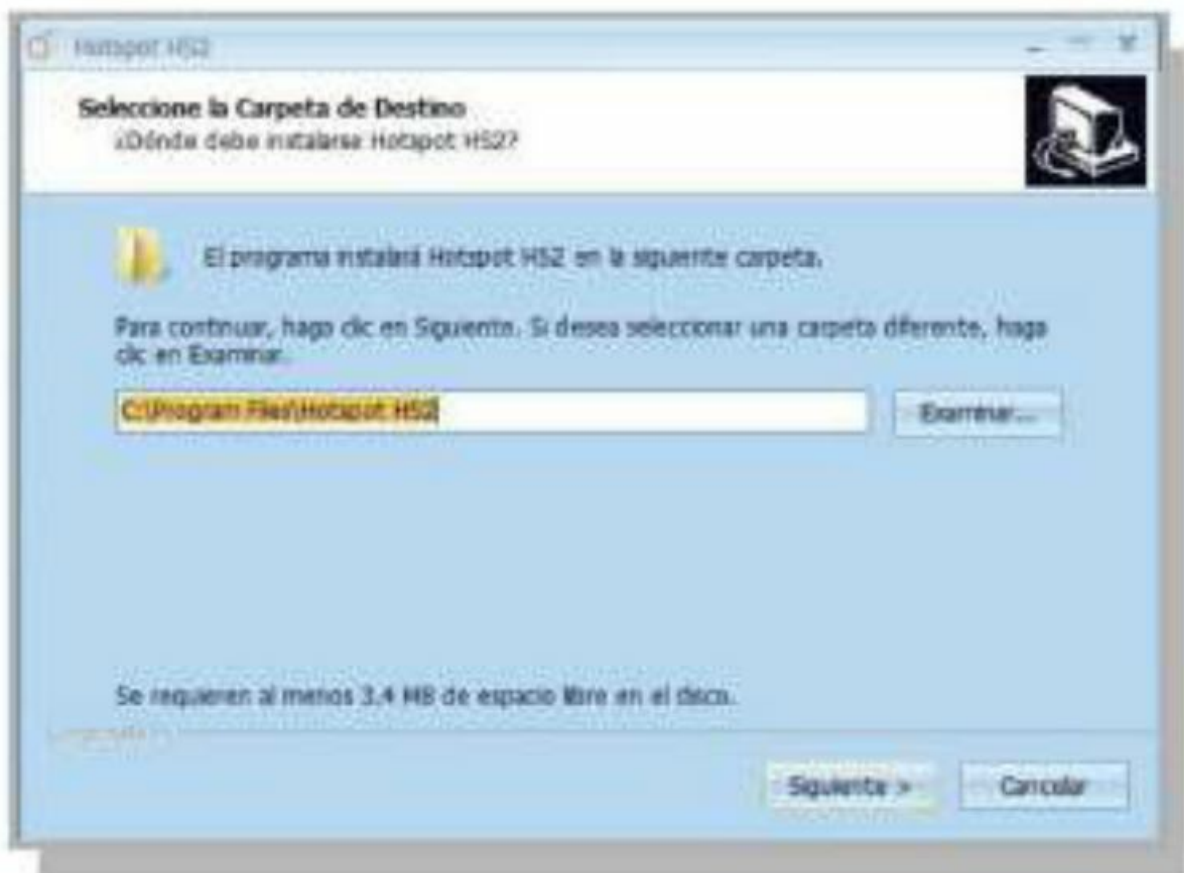


U SB connection

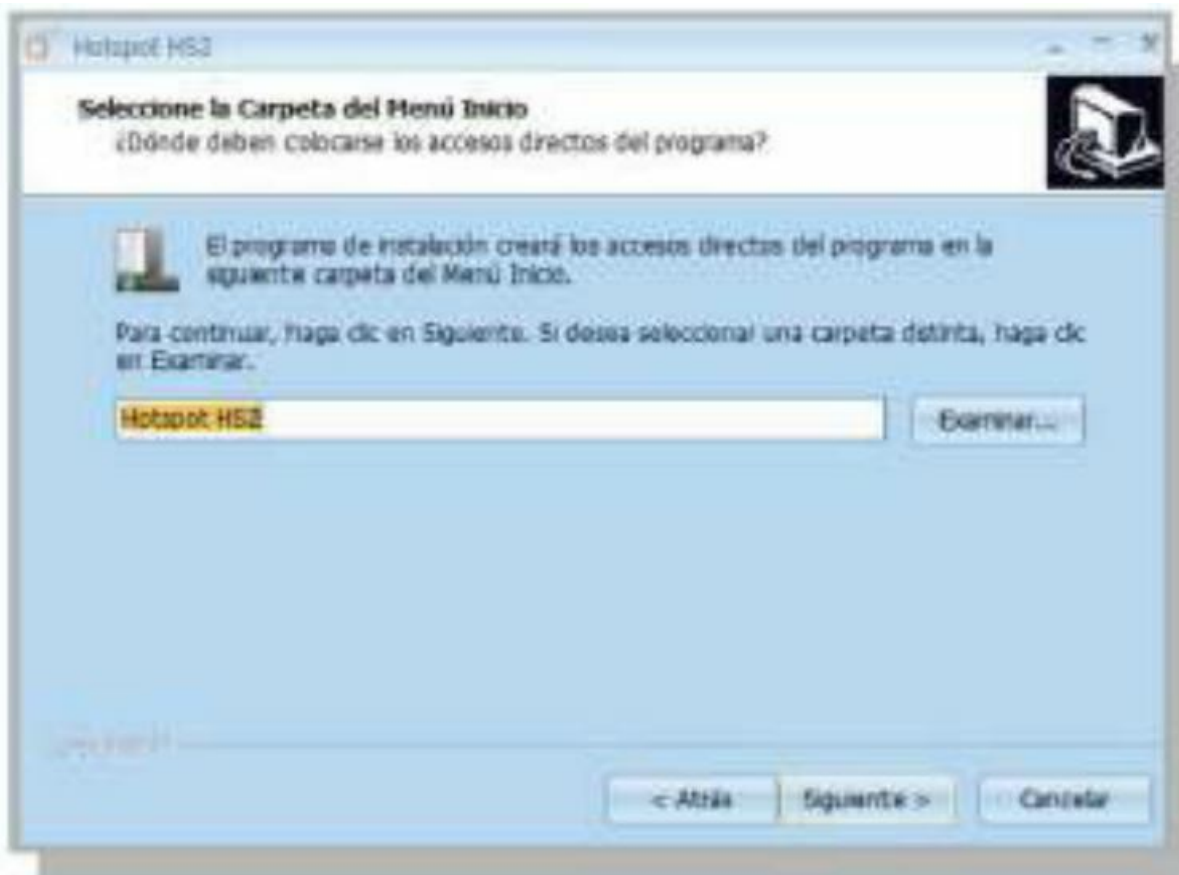
When you connect your PORTABLE WIRELESS (LTE) ROUTER to the USB port of your PC for the first time, you must allow the installation program to run to enable Internet connection. When the first connection is made and the device is detected by the port, the following dialog will be displayed:



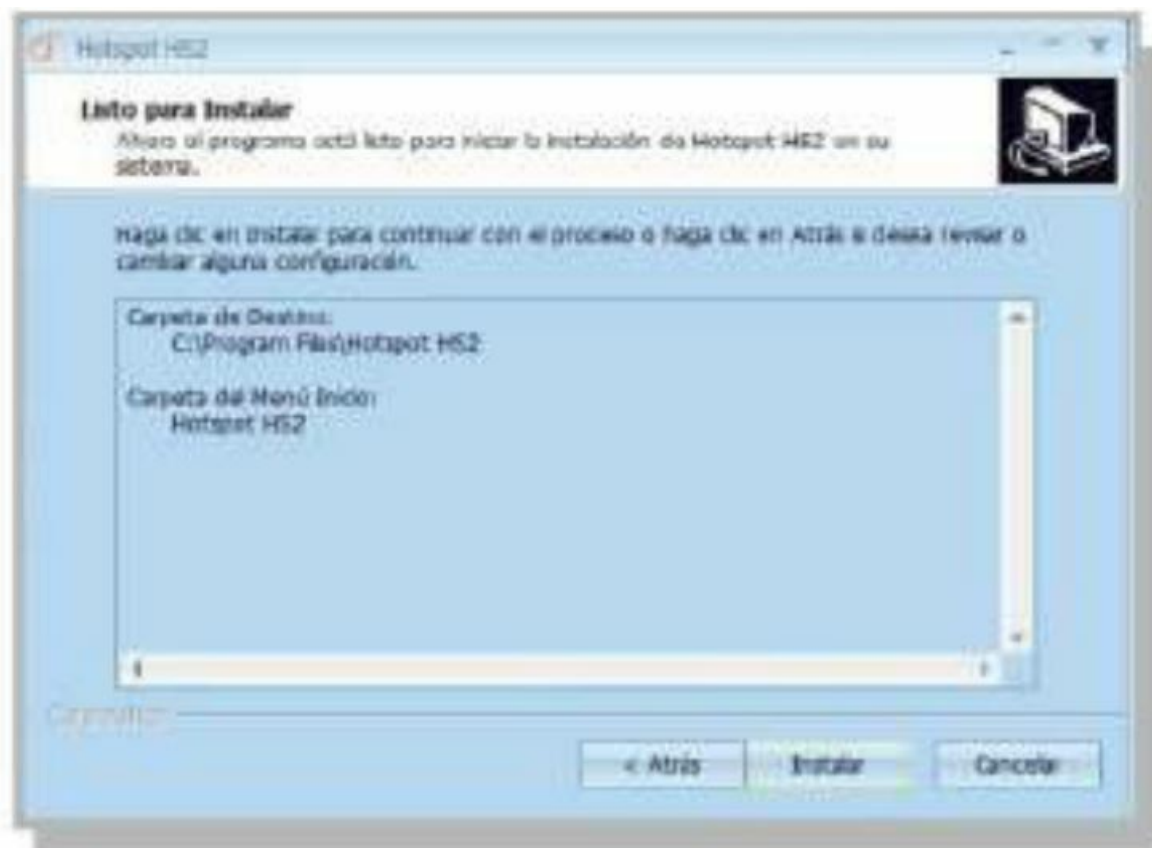
1. Press to **RUN AUTORUN** start the installation:

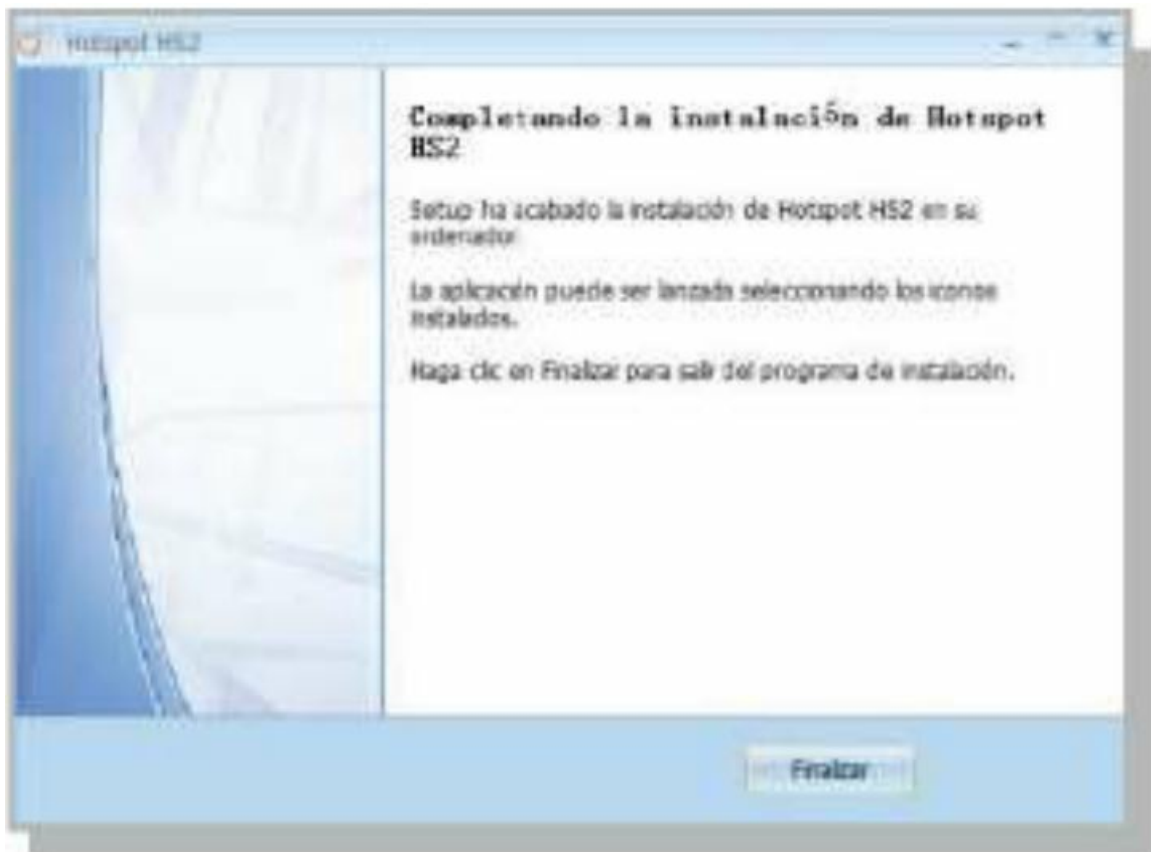


2. Choose the path where the HotSpot HS2 program will be installed, as well as its shortcut on the desktop of your computer.



3. Once the installation process is complete, confirm the path in the program that has been installed and press FINISH.





4. When installing the driver it will allow the connection of ROUTER PORTABLE WIRELESS (LTE) and Internet use through the port USB.

Battery saving mode

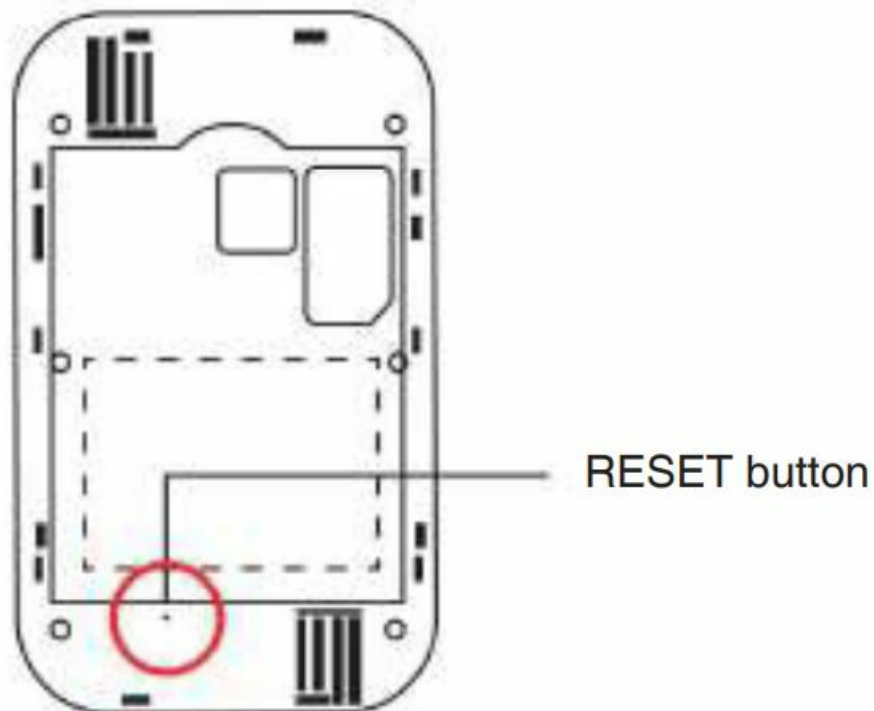
If there are no WiFi devices accessing the PORTABLE WIRELESS (LTE) ROUTER for a few minutes and no computers connected by USB cable, the WiFi will turn off automatically. Then, it will enter battery saving mode. By pressing the power button or WPS button, the WiFi function will be turned on automatically.



Restore Factory Settings

To do it there are 2 ways:

1. Hold down the RESET button until the device reboots.

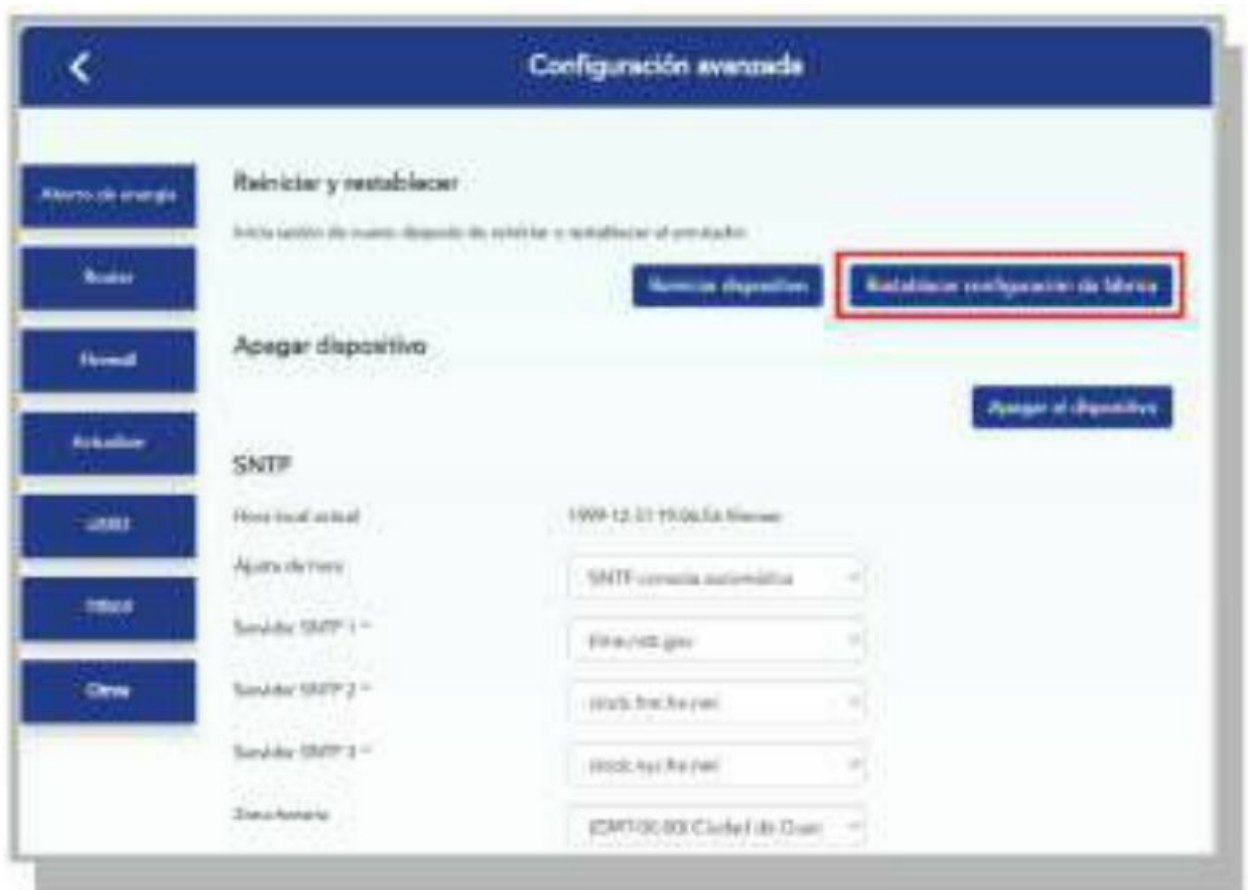


2. Through the web manager through the following steps:
 1. Connect your PORTABLE WIRELESS (LTE) ROUTER to your computer using a USB cable after
 2. Then enter your preferred browser and enter the following IP address: <http://192.168.0.1>
 3. Enter the default credentials:

- **Web User:** Telcel_Admin
- **Web Password:** TelcelXXXX



4. Now go to the Advanced Settings>Others submenu and select Factory Reset:

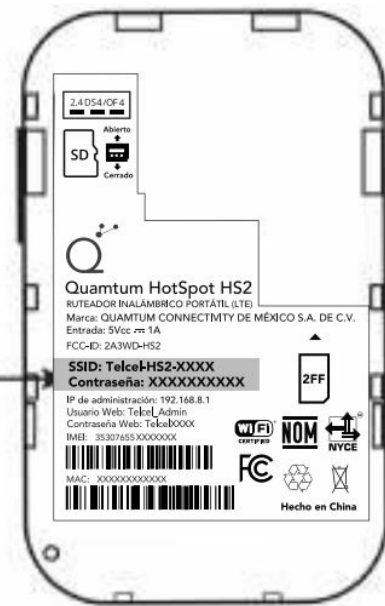


Changing SSID and Password

Your PORTABLE WIRELESS (LTE) ROUTER is configured with the network name (SSID) as Telcel-HS2-XXXX and the password as XXXXXXXXXXXX (where XXXX represents the last characters of the MAC address and XXXXXXXXXXXX is a random combination of 10 hexadecimal characters).

It is recommended to change the SSID and password of your ROUTER PORTABLE WIRELESS (LTE) before use, the name of the network Default (SSID) and password are printed on the label

Locate the network name (SSID) and access password on the label printed under the battery.



1. Login to the WebUI via IP address: 192.168.8.1 and enter the default credentials:

- **Web User:** Telcel_Admin
- **Web Password:** TelcelXXXX (where XXXX represents the last 4 numbers of the IMEI)



2. Now, inside the web manager, go to WiFi Settings.



3. Once inside the WiFi Settings menu, you will immediately see the place to change your password and network name (SSID)

4. Enter your preferred network name and password. Press the apply button.

SSID principal

Nombre de red (SSID) *

Mi nombre de red

Transmisión SSID

Modo de seguridad

WPA-PSK/WPA2-PSK

Contraseña *

MiPasswordSeguro

Mostrar contraseña

Número máximo de conexiones

16

Aplicar

5. Devices previously connected to your Hotspot HS2 network will ask you to enter the new password. Provide it and start browsing.



Establish Wireless Connection

1. **Step 1:** Turn on your PORTABLE WIRELESS ROUTER (LTE), by pressing the power button for a few seconds.
2. **Step 2:** Wait for your PORTABLE WIRELESS ROUTER (LTE) device to boot normally.
 1. Look for your phone's WiFi settings in the Settings menu.
 2. In the list of available networks, find and select the network name that corresponds to your device PORTABLE WIRELESS ROUTER (LTE) and select. Connect, then enter the password.

Hint: The signal strength indicator led will turn green indicating that your PORTABLE WIRELESS ROUTER (LTE) has successfully acquired a connection to the mobile network.

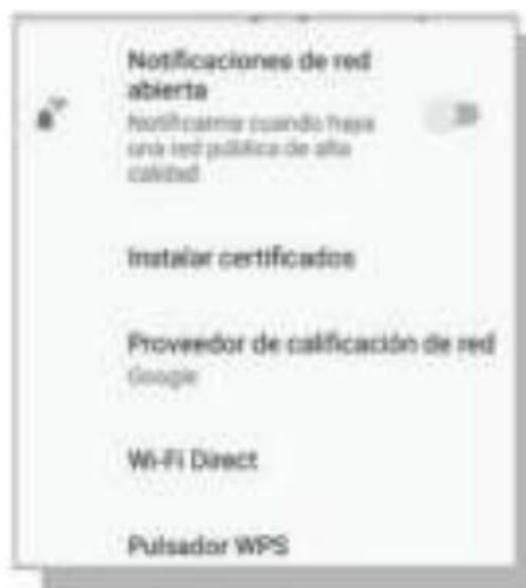


Establish WPS connection

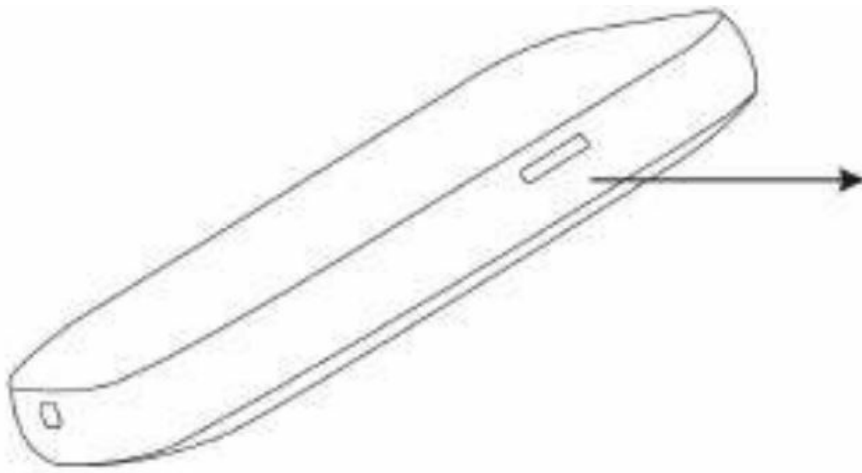
If the terminal connected to your PORTABLE WIRELESS ROUTER (LTE) supports the WPS (WiFi Protected Setup) connection, the connection can be made without the need for a password.

To connect using the WPS connection please follow the steps below:

- **Step 1:** Turn on the device that needs to be connected, enable the WiFi option and select the WPS option.



- **NOTE:** Not all devices support WPS connection, make sure the device you want to connect to your PORTABLE WIRELESS ROUTER (LTE) is compatible using this connection mode.
- **Step 2:** Activate the WPS function on the terminal to be connected, and press and hold the WPS button of your PORTABLE WIRELESS ROUTER (LTE) device for 3 seconds.



Press the WPS button for 3 seconds.

Use of the interface

Access to the WEB administrator

1. Start your internet browser and enter the following address **IP**: <http://192.168.8.1>
2. Enter the following credentials:

Web User: Telcel_Admin

Web Password: TelcelXXXX



Note: At any time you can change the username and password to enter the WEB interface.

Main screen

This interface will allow you to observe the data consumption both upload and download, the number of users connected to your PORTABLE WIRELESS ROUTER (LTE), the IMEI, IMSI, signal strength, network name, network settings, SMS , Phonebook, Advanced Settings and Quick Settings.



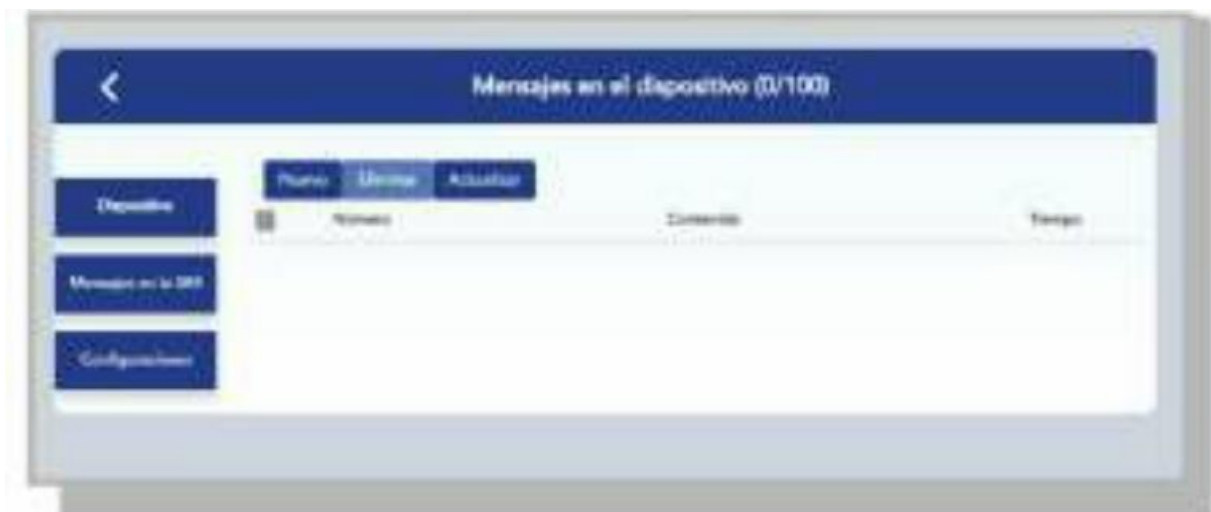
Information

Within this interface we can see information related to IMEI, Serial Number (S/N), IMSI, service provider, type of network, signal reception levels such as RSSI, RSRP, RSRQ, SINR, Cell ID, name of the network, among other useful parameters for its use.



Messages

In this interface it is possible to send and receive text messages (SMS).



Note: Check with your Provider if the text message service (SMS) is available in your contracted plan.

Contacts

Within this option, it is possible to add frequent contacts, add contact information, such as Name, Mobile number, Home number, Office number, Email and Group.



Advanced configuration

Within this option it is possible to view different useful options to make use of the PORTABLE WIRELESS ROUTER (LTE), among the most important are the following:

- **Energy saving:**

it is possible to configure the WiFi signal according to 3 scales, this depending on the needs that are required.

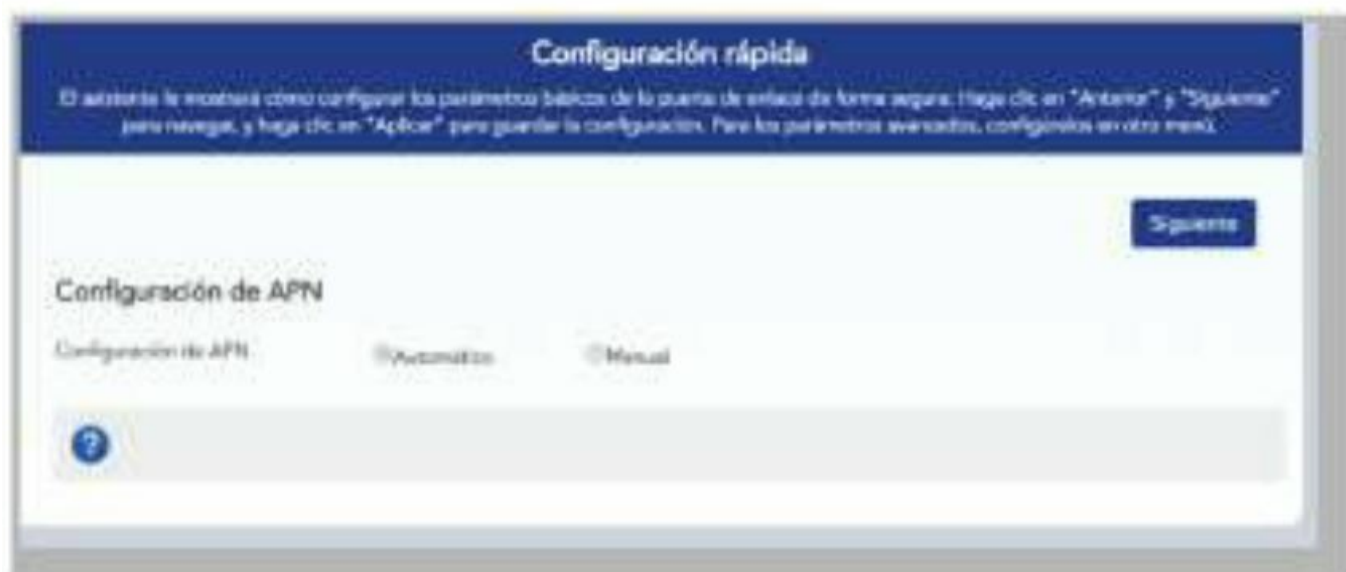
- **WiFi waiting time:**

it is possible to configure a time interval for the WiFi connection to be deactivated, this time will depend on the value chosen between 5 minutes and up to 2 hours or even choose the option Never sleep which indicates that the WiFi signal will remain active all the time.



Quick Setup

This option will show you how to configure the basic parameters such as Network name, Password, to finish we only have to select the Apply button to save changes. For advanced options you will have to go manually to the corresponding menu.



Battery Care

- Your PORTABLE WIRELESS (LTE) ROUTER uses a rechargeable battery to operate. The battery can be charged and discharged hundreds of times, but its life time will decrease over time.

- When the operating time (browsing and/or standby) is noticeably shorter than normal, you should purchase a new battery and replace it.
- Unplug the travel charger when not in use, as the charger will continue to draw power even when plugged in.
- Do not leave the equipment connected to a travel charger for longer than the recommended time, as overcharging can impair battery life and duration.
- If a fully charged battery is discontinued, the battery may discharge over time.
- Do not store or charge the battery in extreme temperature conditions (high or low), as extreme temperatures may shorten the life of your device and/or its battery. It is important to note that your equipment requires a minimum period of 24 hours to be charged for the first time, this will allow you to define a high charge threshold to use the battery of your PORTABLE WIRELESS ROUTER (LTE) for longer periods.

Attention:

1. The charging environment temperature should be between please keep the device in this temperature range when charging.
2. The PORTABLE WIRELESS ROUTER (LTE) experiences the loss of about 20% of its charging capacity over the course of a year of normal use. If you require a replacement please contact your nearest Service Center.

Notes

Please read the following notes when using the device:

1. Handle with care and put the product in clean and dust-free places.
2. Do not place the product in humid places or where there is water or other liquid.
3. Do not place the product in extremely high or low temperature places.
4. Users are recommended to charge the battery once every two months when not in use to avoid over-discharge, which may damage the battery.
5. Do not place the product near fire or burning tobacco.
6. Do not spill any liquid on the device.
7. Do not paint on the product.
8. Do not use the product near medical equipment without prior permission.
9. Do not use the product on airplanes or where the warnings "No Radio Communication" are highlighted.
10. Do not use the product in explosive or dangerous environments.
11. Do not place or install the product on the vehicle's additional restraint system.
12. Do not disassemble the product at your discretion. Only personnel authorized by the company can offer a maintenance service for your product.

Individual medical instruments

The product may affect the operation of pacemakers and other instruments inside the human body. A minimum distance of 15 cm (6") will be kept between the product and the cardiac pacemaker, which can reduce interference. If any interference is suspected, turn off the device immediately. Consult a cardiologist for detailed related information. Consult the manufacturer if any other individual medical equipment is used.

On use with children:

Keep the product out of the reach of children. They may hurt themselves or others, or damage the device's antenna. The device contains small removable parts that may cause choking in children. It is not recommended that children under 10 years of age operate the product.

Product Disposal

Do not randomly dispose of the product or dispose of it in the household waste, dispose through containers dedicated to electronic devices.

Declaration of environmental protection

The following statement is in accordance with the corresponding provisions of pollution control measures for electronic information products People's Republic of China.

Parte	Sustancia o elemento tóxico					
	Pb	Hg	Cd	Cr ⁶⁺	PBB	PBDE
Terminal inalámbrica de datos	O	O	O	O	O	O
Accesorio	O	O	O	O	O	O
<p>O: Significa que contiene partículas de la sustancia referida en el material homogéneo en una proporción inferior a la limitación recomendada en el estándar SJ/T 11363-2006.</p> <p>x: Significa que contiene partículas de la sustancia referida en el material homogéneo en una proporción superior a la limitación recomendada en el estándar SJ/T 11363-2006.</p>						

Applicable environment

1. Altitude of operation: in the region with the altitude of not more than 5 000 understood applicable.
2. Environmental temperature: The product can be used normally in the environmental temperature of -10 C – 60 C. Do not use the product in the environment of higher or lower temperature.

Electrical Specifications

Element	Specification
WIRELESS ROUTER PORTABLE (LTE)	5Vdc 1A
Rechargeable battery	3.8Vdc with 3000Ah

Use of the Radioelectric Spectrum of this equipment is subject to the following two conditions:

1. This equipment or device may not cause harmful interference, and
2. this equipment or device must accept any interference, including interference that may cause undesired operation.
 - **Usage time:** up to 8 hours.
 - **Standby time:** up to 12 hours.

*Battery run time in use depends on non-device factors such as the number of connected devices. Type of content that is played (YouTube media, Video Games, Netflix, etc.) which requires more usage of battery resource. Room temperature. Material and conditions in which the device is being used. Distance from connected devices, the greater the distance, the greater the battery consumption and the greater the effort. Network coverage and performance. If the use is dynamic (MBB) or fixed, this influences the issue of download (DL) and upload (UL) work and the effort you may be making, this also depends on the area of coverage.

Frequently asked questions

Low signal or no 4G signal

- Make sure your HotSpot HS2 is charged correctly, you can use a compatible charger for your device.
- Place your HotSpot HS2 in a central area with no obstructions and close to the devices to be connected. It does not recognize the SIM card
- Check that the SIM Card (mini SIM format) is correctly installed in the HotSpot HS2.
- The SIM Card must be in good condition (no traces of damage such as breaks in the tracks or bent).
- Validate that the connector of your HotSpot HS2 is in good condition.
- The equipment does not have Internet
- Validate that the battery of your HotSpot HS2 is charged by means of the battery indicator LED, which should be lit in green.
- In case you do not have a full charge, you can connect a power adapter compatible with your HotSpot HS2. Check the status of the following indicator LEDs, which should be on:
 - Green signal indicator LED.
 - Blue Wi-Fi indicator LED.
 - Blue message indicator LED.
- Make sure you are in an area with good LTE coverage and no signal obstructions.
- Verify with your Internet service provider that your plan is active and that you have a data bag available to use the service.

For more information, we recommend you visit the page www.quantumconnectivity.com , where you will locate the authorized Quantum Connectivity CV Service Center, closest to your location.

IMEI location

The IMEI is printed on a label on your router and/or on a label on the packaging.

Federal Communications Commission (FCC) Regulations:

The Quantum HotSpot HS2 product complies with Part 15 the US Federal Communications Commission (FCC) rules. Its operation is subject to the following two conditions:

1. Quantum HotSpot HS2 product must accept any nterference received including interference that may cause undesired operation.
2. This device may not cause harmful interference.

SAR measurement results

SAR measurement Result of WCDMA Band 2

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	9400/1880	RMC12.2K	0.342	0.185	1.19	22.50	23.00	0.384	2023/5/23	
Back Side	9400/1880	RMC12.2K	0.523	0.292	-1.58	22.50	23.00	0.587	2023/5/23	1#
Left Side	9400/1880	RMC12.2K	0.162	0.088	-0.89	22.50	23.00	0.182	2023/5/23	
Right Side	9400/1880	RMC12.2K	0.171	0.091	-0.46	22.50	23.00	0.192	2023/5/23	
Top Side	9400/1880	RMC12.2K	0.122	0.074	0.15	22.50	23.00	0.137	2023/5/23	
Bottom Side	9400/1880	RMC12.2K	0.270	0.151	-0.43	22.50	23.00	0.303	2023/5/23	

NOTE: Hotspot SAR test results of WCDMA Band 2

SAR measurement Result of WCDMA Band 5

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	4182/83 6.4	RMC12.2K	0.312	0.245	3.54	21.93	22.50	0.356	2023/5/22	
Back Side	4182/83 6.4	RMC12.2K	0.470	0.377	-0.11	21.93	22.50	0.536	2023/5/22	2#
Left Side	4182/83 6.4	RMC12.2K	0.156	0.119	-3.85	21.93	22.50	0.178	2023/5/22	
Right Side	4182/83 6.4	RMC12.2K	0.153	0.117	1.66	21.93	22.50	0.174	2023/5/22	
Top Side	4182/83 6.4	RMC12.2K	0.132	0.084	3.20	21.93	22.50	0.151	2023/5/22	
Bottom Side	4182/83 6.4	RMC12.2K	0.245	0.197	3.33	21.93	22.50	0.279	2023/5/22	

NOTE: Hotspot SAR test results of WCDMA Band 5

SAR measurement Result of WIFI 2.4 G

ANT1

Test Position of Hots pot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11g	0.126	0.062	1.32	23.35	23.50	0.130	2023/5/30	
Back	6/2437	802.11g	0.175	0.089	-0.36	23.35	23.50	0.181	2023/5/30	3#

ANT2

Side									
Left Side	6/2437	802.11g	0.066	0.033	-2.25	23.35	23.50	0.068	2023/5/30
Right Side	6/2437	802.11g	0.042	0.025	0.21	23.35	23.50	0.043	2023/5/30
Top Side	6/2437	802.11g	0.032	0.020	0.02	23.35	23.50	0.033	2023/5/30
Bottom Side	6/2437	802.11g	0.057	0.028	1.40	23.35	23.50	0.059	2023/5/30

ANT3

Test Position of Hotspot with 10mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	6/2437	802.11g	0.048	0.024	3.35	22.88	23.00	0.049	2023/5/30	
Back Side	6/2437	802.11g	0.043	0.022	-3.02	22.88	23.00	0.044	2023/5/30	4#
Left Side	6/2437	802.11g	0.021	0.010	-1.09	22.88	23.00	0.022	2023/5/30	
Right Side	6/2437	802.11g	0.018	0.009	-3.96	22.88	23.00	0.019	2023/5/30	
Top Side	6/2437	802.11g	0.014	0.007	-3.02	22.88	23.00	0.014	2023/5/30	
Bottom Side	6/2437	802.11g	0.015	0.013	3.75	22.88	23.00	0.015	2023/5/30	

MIMO

pot with 10mm	Test channel /Freq.	Mode	1-g	10-g	Power Drift(%)	Conduct ed Pow er (dBm)	Tune-up Power (dBm)	Scaled S AR 1-g (W/K g)	Date	Plot
1RB										
Front Side	18900/1880	20M QPSK(1,99)	0.216	0.099	-2.68	21.97	22.50	0.244	2023/5/23	
Back Side	18900/1880	20M QPSK(1,99)	0.312	0.148	-1.84	21.97	22.50	0.352	2023/5/23	6#
Left Side	18900/1880	20M QPSK(1,99)	0.096	0.043	0.82	21.97	22.50	0.108	2023/5/23	
Right Side	18900/1880	20M QPSK(1,99)	0.105	0.049	-1.84	21.97	22.50	0.119	2023/5/23	
Top Side	18900/1880	20M QPSK(1,99)	0.087	0.042	2.01	21.97	22.50	0.098	2023/5/23	
Bottom Side	18900/1880	20M QPSK(1,99)	0.175	0.080	-0.71	21.97	22.50	0.198	2023/5/23	
50%RB										
Front Side	18900/1880	20M QPSK(50,24)	0.118	0.052	-1.86	21.97	22.50	0.133	2023/5/23	
Back Side	18900/1880	20M QPSK(50,24)	0.178	0.074	-2.58	21.97	22.50	0.201	2023/5/23	

Left Side	18900/1880	20M QPSK(50,24)	0.054	0.024	-4.89	21.97	22.50	0.061	2023/5/23	
Right Side	18900/1880	20M QPSK(50,24)	0.055	0.025	3.38	21.97	22.50	0.062	2023/5/23	

Top Side	18900/1880	20M QPSK(50,24)	0.035	0.020	2.12	21.97	22.50	0.040	2023/5/23	
Bottom Side	18900/1880	20M QPSK(50,24)	0.099	0.044	0.13	21.97	22.50	0.112	2023/5/23	

NOTE: Hotspot SAR test results of LTE Band 2

SAR measurement Result of LTE Band 4

Test Po sition of	Test chan nel /Freq.	Mode	SAR Value (W/ kg)		Power Drift(%)	Conduct ed Pow er (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/K g)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20175/17 32.5	20M QPSK(1, 0)	0.288	0.138	-2.42	22.04	23.00	0.359	2023/5/ 26	
Back Side	20175/17 32.5	20M QPSK(1, 0)	0.451	0.222	-0.70	22.04	23.00	0.563	2023/5/ 26	7#

Left Side	20175/17 32.5	20M QPSK(1, 0)	0.147	0.069	1.75	22.04	23.00	0.183	2023/5/ 26	
Right Side	20175/17 32.5	20M QPSK(1, 0)	0.141	0.067	-1.14	22.04	23.00	0.176	2023/5/ 26	
Top Side	20175/17 32.5	20M QPSK(1, 0)	0.125	0.052	3.20	22.04	23.00	0.156	2023/5/ 26	
Bottom Side	20175/17 32.5	20M QPSK(1, 0)	0.245	0.119	2.17	22.04	23.00	0.306	2023/5/ 26	
50%RB										
Front Side	20175/17 32.5	20M QPSK(5 0,0)	0.149	0.078	-2.62	20.36	22.00	0.217	2023/5/ 26	
Back Side	20175/17 32.5	20M QPSK(5 0,0)	0.236	0.124	2.91	20.36	22.00	0.344	2023/5/ 26	
Left Side	20175/17 32.5	20M QPSK(5 0,0)	0.075	0.041	-3.55	20.36	22.00	0.109	2023/5/ 26	
Right Side	20175/17 32.5	20M QPSK(5 0,0)	0.077	0.034	-2.05	20.36	22.00	0.112	2023/5/ 26	
Top Side	20175/17 32.5	20M QPSK(5 0,0)	0.052	0.030	0.14	20.36	22.00	0.076	2023/5/ 26	
Bottom	20175/17 32.5	20M	0.144	0.064	2.82	20.36	22.00	0.210	2023/5/ 26	

Side		QPSK(50,0)								
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NOTE: Hotspot SAR test results of LTE Band 4

SAR measurement Result of LTE Band 5

Test Po sition of	Test cha nnel /Freq.	Mode	SAR Value (W/ kg)		Power Drift(%)	Conduct ed Pow er (dBm)	Tune-up Power (dBm)	Scaled S AR 1-g (W/K g)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/83 6.5	10M QPSK(1, 49)	0.420	0.331	3.69	22.02	23.50	0.591	2023/5/ 22	
Back Side	20525/83 6.5	10M QPSK(1, 49)	0.696	0.548	-2.84	22.02	23.50	0.979	2023/5/ 22	8#
Left Sid e	20525/83 6.5	10M QPSK(1, 49)	0.213	0.163	0.46	22.02	23.50	0.299	2023/5/ 22	
Right Side	20525/83 6.5	10M QPSK(1, 49)	0.219	0.171	-3.08	22.02	23.50	0.308	2023/5/ 22	
Top Sid e	20525/83 6.5	10M QPSK(1, 49)	0.370	0.291	0.59	22.02	23.50	0.520	2023/5/ 22	
Bottom Side	20525/83 6.5	10M QPSK(1, 49)	0.290	0.187	1.83	22.02	23.50	0.408	2023/5/ 22	

Back Side	20450/829	10M QPSK(1, 49)	0.546	0.387	0.12	22.38	23.50	0.707	2023/5/22	
Back Side	20600/844	10M QPSK(1, 49)	0.512	0.345	2.54	23.24	23.50	0.544	2023/5/22	
BackSide Repeated	20525/836.5	10M QPSK(1, 49)	0.675	0.524	1.20	22.02	23.50	0.949	2023/5/22	
50%RB										
Front Side	20525/836.5	10M QPSK(2 5,24)	0.242	0.193	4.14	21.01	22.00	0.304	2023/5/22	
Back Side	20525/836.5	10M QPSK(2 5,24)	0.413	0.318	-0.09	21.01	22.00	0.519	2023/5/22	
Left Side	20525/836.5	10M QPSK(2 5,24)	0.108	0.094	-4.16	21.01	22.00	0.136	2023/5/22	
Right Side	20525/836.5	10M QPSK(2 5,24)	0.118	0.101	-4.70	21.01	22.00	0.148	2023/5/22	

Top Side	20525/836.5	10M QPSK(25, 24)	0.078	0.042	0.85	21.01	22.00	0.098	2023/5/22	
Bottom Side	20525/836.5	10M QPSK(25, 24)	0.203	0.169	-2.15	21.01	22.00	0.255	2023/5/22	

NOTE: Hotspot SAR test results of LTE Band 5

SAR measurement Result of LTE Band 7

Test Po sition of Hotspot with 10mm	Test cha nnel /Freq.	Mode	SAR Value (W/ kg)		Power Drift(%)	Conduct ed Pow er (dBm)	Tune-up Power (dBm)	Scaled S AR 1-g (W/K g)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/25 35	20M QPSK(1 ,0)	0.276	0.111	-2.49	22.39	22.50	0.283	2023/5/ 29	
Back Side	21100/25 35	20M QPSK(1 ,0)	0.435	0.179	-4.46	22.39	22.50	0.446	2023/5/ 29	9#
Left Side	21100/25 35	20M QPSK(1 ,0)	0.135	0.054	2.35	22.39	22.50	0.138	2023/5/ 29	
Right Side	21100/25 35	20M QPSK(1 ,0)	0.141	0.055	0.21	22.39	22.50	0.145	2023/5/ 29	
Top Side	21100/25 35	20M QPSK(1 ,0)	0.102	0.047	0.36	22.39	22.50	0.105	2023/5/ 29	
Bottom Side	21100/25 35	20M QPSK(1 ,0)	0.235	0.095	-0.70	22.39	22.50	0.241	2023/5/ 29	
50%RB										
Front Side	21100/25 35	20M QPSK(5 0,49)	0.138	0.059	-0.63	20.90	21.50	0.158	2023/5/ 29	

Back Side	21100/25 35	20M QPSK(5 0,49)	0.235	0.102	2.96	20.90	21.50	0.270	2023/5/ 29	
Left Side	21100/25 35	20M QPSK(5 0,49)	0.080	0.029	0.97	20.90	21.50	0.092	2023/5/ 29	
Right Side	21100/25 35	20M QPSK(5 0,49)	0.073	0.029	2.40	20.90	21.50	0.084	2023/5/ 29	
Top Side	21100/25 35	20M QPSK(5 0,49)	0.062	0.024	0.02	20.90	21.50	0.071	2023/5/ 29	
Bottom	21100/25 35	20M	0.134	0.053	-0.76	20.90	21.50	0.154	2023/5/ 29	

Side		QPSK(50,4 9)								
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NOTE: Hotspot SAR test results of LTE Band 7

SAR measurement Result of LTE Band 66

Test Po sition of Hotspot with 10mm	Test chan nel /Freq.	Mode	SAR Value (W/ kg)		Power Drift(%)	Conduct ed Pow er (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/K g)	Date	Plot
			1-g	10-g						
1RB										
Front		20M								
Side	132322/1 745	QPSK(1 ,0)	0.300	0.148	-3.12	22.50	23.50	0.378	2023/5/ 26	

Back Side	132322/1 745	20M QPSK(1 ,0)	0.469	0.231	-2.69	22.50	23.50	0.590	2023/5/ 26	10#
Left Side	132322/1 745	20M QPSK(1 ,0)	0.147	0.071	-3.60	22.50	23.50	0.185	2023/5/ 26	
Right Side	132322/1 745	20M QPSK(1 ,0)	0.144	0.070	2.95	22.50	23.50	0.181	2023/5/ 26	
Top Side	132322/1 745	20M QPSK(1 ,0)	0.112	0.062	0.12	22.50	23.50	0.141	2023/5/ 26	
Bottom Side	132322/1 745	20M QPSK(1 ,0)	0.240	0.113	-4.00	22.50	23.50	0.302	2023/5/ 26	
50%RB										
Front Side	132322/1 745	20M QPSK(5 0,0)	0.160	0.087	0.50	21.43	22.50	0.205	2023/5/ 26	
Back Side	132322/1 745	20M QPSK(5 0,0)	0.240	0.133	-3.84	21.43	22.50	0.307	2023/5/ 26	
Left Side	132322/1 745	20M QPSK(5 0,0)	0.084	0.041	4.62	21.43	22.50	0.107	2023/5/ 26	
Right Side	132322/1 745	20M QPSK(5 0,0)	0.084	0.041	2.33	21.43	22.50	0.107	2023/5/ 26	
Top Side	132322/1 745	20M QPSK(5 0,0)	0.062	0.030	1.25	21.43	22.50	0.079	2023/5/ 26	

Bottom		20M								
Side	132322/1 745	QPSK(5 0,0)	0.130	0.067	1.94	21.43	22.50	0.166	2023/5/ 26	

NOTE: Hotspot SAR test results of LTE Band 66

FCC STATEMENT

Any Changes or modifications not expressly approved by the party responsible for compliance 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.

Quantum HotSpot HS2 product has been tested and found with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reliable protection against harmful interference in a residential installation.

This equipment generates and uses radiated radio frequency energy and, if not installed and used in accordance with the supplied instructions, may cause harmful interference to radio communications. If this Quantum HotSpot HS2 product 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 the following measures:

- Reorient or relocate the equipment
- Increase the separation between the equipment and the receiver.
- Consult the authorized dealer or an experienced radio/TV Technician for help.
- Changes or modifications not expressly approved by the party the equipment.

FCC ID: 2A3WD-HS2


IMPORTED BY:

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Documents / Resources

	<p>Quantum HS2 HotSpot Wireless Portable Router [pdf] User Manual</p> <p>HS2 Quantum HotSpot Wireless Portable Router, HS2, Quantum HotSpot Wireless Portable Router, HotSpot Wireless Portable Router, Wireless Portable Router, Portable Router, Router</p>
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References

-  [Quantum Connectivity – Acercamos tecnologia, conectamos ideas](#)
- [User Manual](#)