



# Quantum HotSpot HS2

WIRELESS PORTABLE ROUTER (LTE)



## User manual

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**

Copyright © 2023. All rights reserved. No part of this manual may be reproduced or transmitted in any form or by any means without the prior written consent of its affiliates. Quantum Connectivity de México SA de CV, reserves the right to change or modify any information or specification contained in this manual without prior notice and without any liability.

## **Limitation of Liability**

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 de México SA de 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.

## Content

<b>1. Know the product</b>	5
<b>2. Instruction and Operations</b>	6
2.1 Product diagram	6
2.2 General specifications	6
2.3 SIM installation	8
2.4 Battery charging	8
2.5 Turn on your HotSpot HS2	9
2.6 Internet connection	9
2.7 USB connection	10
2.8 Battery saving mode	13
2.9 Restore Factory Settings	14
2.10 Change SSID and password	16
2.11 Establish Wireless connection	19
2.12 Establish WPS connection	20
2.13 Using the interface	21
2.13.1 Access to the WEB administrator	21
2.13.2 Main screen	21
2.13.3 Information	22
2.13.4 Messages	23
2.13.5 Contacts	23
2.13.6 Advanced Settings	24
2.13.7 Quick Settings	25
<b>3. Battery Care</b>	26
<b>4. Notes</b>	27
<b>5. Environmental Protection Statement</b>	28
<b>6. Applicable Environment</b>	29
<b>7. Electrical Specifications</b>	29
<b>8. FAQ</b>	30
<b>9. Federal Communications Commission (FCC) regulations</b>	31

## **1. 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.

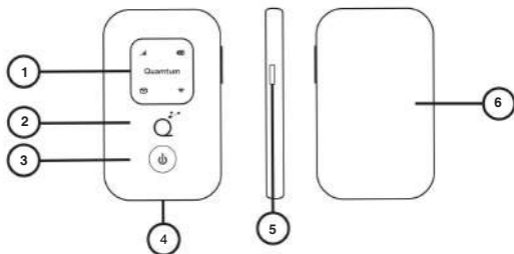
1 Quick installation guide.

Use only accessories and devices approved by QUAMTUM CONNECTIVITY DE MÉXICO, SA DE 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 DE MÉXICO, SA DE CV you invalidate the guarantee.

## 2. Instruction and Operations

### 2.1 Product Diagram



### 2.2 General Specifications

1. LED Indicators

2. Device Case 3. Power Button

4. **USB** connector

5. WPS Button

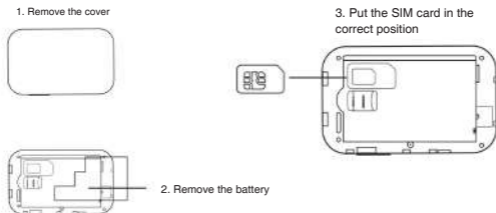
6. Device Cover

## LED indicators

No.	Icon	Description
1		<b>1. 4G(LTE) indicator</b>  • Green: Connected to the 4G network. • Blue: Connected in data roaming mode. • Red: No signal or SIM card not recognized.
2	 Intermittent	<b>2. Message •</b>  Flashing: New message
3	  Intermittent	<b>3. Battery</b>  • Green: Battery over 70% • Red: Low battery • Flashing: Battery is charging
4	  Intermittent	<b>4. Wi-Fi</b>  • Blue: Wi-Fi access point enabled • Flashing: WPS active

## 2.3. 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.



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.

## 2.4. 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.

## 2.5. Turn on your HotSpot

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

## 2.6. 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.

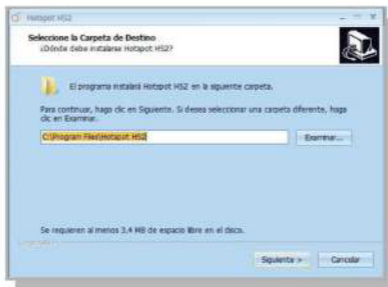


## 2.7 USB connection

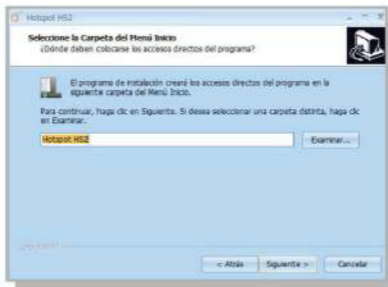
When you connect your PORTABLE WIRELESS (LTE) ROUTER to the USB port of your PC for the first time, you must allow the installation program to run to enable Internet connection. When the first connection is made and the device is detected by the port, the following dialog will be displayed:



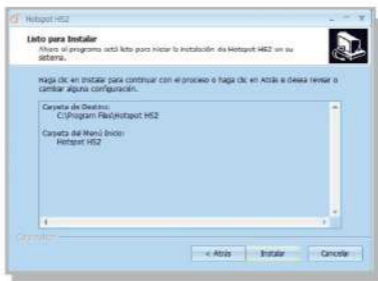
Press “Run Autorun.exe” to start the installation:



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



Once the installation process is complete, confirm the path in the program that has been installed and press “Finish”



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

**2.8. 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.

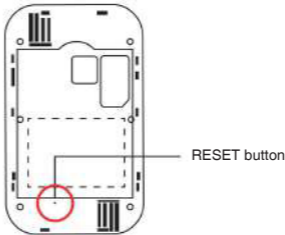
By pressing the power button or WPS button, the WiFi function will be turned on automatically.



## 2.9. 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.

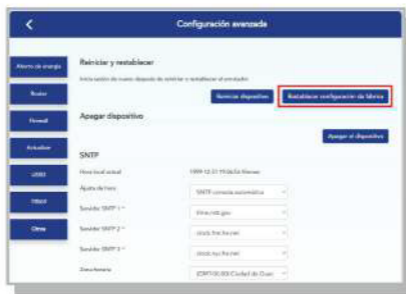
Connect your PORTABLE WIRELESS (LTE) ROUTER to your computer using a USB cable after

2. Then enter your preferred browser and enter the following IP address: **192.168.8.1**

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:

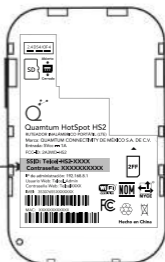


## 2.10. Changing SSID and Password

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 “Wi-Fi Settings”



3. Once inside the “Wi-Fi 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)

☒ Transmisión SSID

Modo de seguridad


Contraseña

☒ Mostrar contraseña



Número máximo de conexiones

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

 Mi nombre de red  
Secured

Enter the network security key



## 2.11. Establish Wireless Connection

Step 1: Turn on your PORTABLE WIRELESS ROUTER (LTE), by pressing the power button for a few seconds.

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.

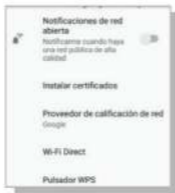


### 3.12. Establish WPS connection

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.

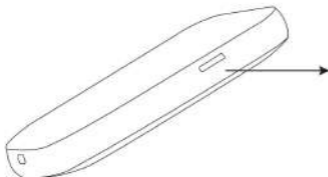
To connect using the WPS connection please follow the steps below:

**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.

## 2.13 Use of the interface

### 2.13.1 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.

### 2.13.2. 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.



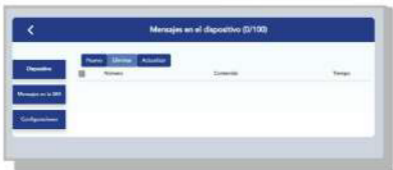
### 2.13.3. Information

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.



### 2.13.4. 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.

### 2.13.5. 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.



### 2.13.6. 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.



### 2.13.7. 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.



### 3. 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 0°~45°, 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.

## 4. 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.
- 13) 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.

### 5. 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.

Los contenidos que figuran en la declaración son aplicables al producto of electronic information.

Parte	Sustancia o elemento tóxico					
	Pb	Hg	Cd	Cr <sup>6+</sup>	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>						

## 6. Applicable environment

- 1) Altitude of operation: in the region with the altitude of not more than 5 000 metros, el adaptador de corriente para uso final determina la altitud 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.

## 7. Electrical Specifications

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

### Use of the Radioelectric Spectrum

“Operation 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. desired”

**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 plays (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.

## 8. 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](http://www.quantumconnectivity.com)** , where you will locate the authorized Quantum Connectivity de México SA de 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.

## **9.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

### 1. 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

## 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	4182/836.4	RMC12.2K	0.312	0.245	3.54	21.93	22.50	0.356	2023/5/22	
Back Side	4182/836.4	RMC12.2K	0.470	0.377	-0.11	21.93	22.50	0.536	2023/5/22	2#
Left Side	4182/836.4	RMC12.2K	0.156	0.119	-3.85	21.93	22.50	0.178	2023/5/22	
Right Side	4182/836.4	RMC12.2K	0.153	0.117	1.66	21.93	22.50	0.174	2023/5/22	
Top Side	4182/836.4	RMC12.2K	0.132	0.084	3.20	21.93	22.50	0.151	2023/5/22	
Bottom Side	4182/836.4	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

## 3. SAR measurement Result of WIFI 2.4G

ANT1

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	0.126	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#

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	

#### ANT2

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

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	1/2412	802.11n HT20	0.024	0.013	-0.05	24.27	24.50	0.025	2023/5/30	
Back Side	1/2412	802.11n HT20	0.035	0.019	-0.12	24.27	24.50	0.037	2023/5/30	5#
Left	1/2412	802.11n	0.012	0.010	1.46	24.27	24.50	0.013	2023/5/30	

Side		HT20								
Right Side	1/2412	802.11n HT20	0.010	0.008	0.54	24.27	24.50	0.011	2023/5/30	
Top Side	1/2412	802.11n HT20	0.011	0.007	1.52	24.27	24.50	0.012	2023/5/30	
Bottom Side	1/2412	802.11n HT20	0.015	0.013	2.85	24.27	24.50	0.016	2023/5/30	

NOTE: Hotspot SAR test results of WIFI 2.4G

#### 4. SAR measurement Result of LTE 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						
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

#### 5. SAR measurement Result of LTE Band 4

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						
1RB										
Front Side	20175/1732.5	20M QPSK(1,0)	0.288	0.138	-2.42	22.04	23.00	0.359	2023/5/26	
Back Side	20175/1732.5	20M QPSK(1,0)	0.451	0.222	-0.70	22.04	23.00	0.563	2023/5/26	7#
Left Side	20175/1732.5	20M QPSK(1,0)	0.147	0.069	1.75	22.04	23.00	0.183	2023/5/26	
Right Side	20175/1732.5	20M QPSK(1,0)	0.141	0.067	-1.14	22.04	23.00	0.176	2023/5/26	
Top Side	20175/1732.5	20M QPSK(1,0)	0.125	0.052	3.20	22.04	23.00	0.156	2023/5/26	
Bottom Side	20175/1732.5	20M QPSK(1,0)	0.245	0.119	2.17	22.04	23.00	0.306	2023/5/26	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,0)	0.149	0.078	-2.62	20.36	22.00	0.217	2023/5/26	
Back Side	20175/1732.5	20M QPSK(50,0)	0.236	0.124	2.91	20.36	22.00	0.344	2023/5/26	
Left Side	20175/1732.5	20M QPSK(50,0)	0.075	0.041	-3.55	20.36	22.00	0.109	2023/5/26	
Right Side	20175/1732.5	20M QPSK(50,0)	0.077	0.034	-2.05	20.36	22.00	0.112	2023/5/26	
Top Side	20175/1732.5	20M QPSK(50,0)	0.052	0.030	0.14	20.36	22.00	0.076	2023/5/26	
Bottom	20175/1732.5	20M	0.144	0.064	2.82	20.36	22.00	0.210	2023/5/26	

Side		QPSK(50,0)								
------	--	------------	--	--	--	--	--	--	--	--

NOTE: Hotspot SAR test results of LTE Band 4

## 6. SAR measurement Result of LTE 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						
1RB										
Front Side	20525/836.5	10M QPSK(1,49)	0.420	0.331	3.69	22.02	23.50	0.591	2023/5/22	
Back Side	20525/836.5	10M QPSK(1,49)	0.696	0.548	-2.84	22.02	23.50	0.979	2023/5/22	8#
Left Side	20525/836.5	10M QPSK(1,49)	0.213	0.163	0.46	22.02	23.50	0.299	2023/5/22	
Right Side	20525/836.5	10M QPSK(1,49)	0.219	0.171	-3.08	22.02	23.50	0.308	2023/5/22	
Top Side	20525/836.5	10M QPSK(1,49)	0.370	0.291	0.59	22.02	23.50	0.520	2023/5/22	
Bottom Side	20525/836.5	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(25,24)	0.242	0.193	4.14	21.01	22.00	0.304	2023/5/22	
Back Side	20525/836.5	10M QPSK(25,24)	0.413	0.318	-0.09	21.01	22.00	0.519	2023/5/22	
Left Side	20525/836.5	10M QPSK(25,24)	0.108	0.094	-4.16	21.01	22.00	0.136	2023/5/22	
Right Side	20525/836.5	10M QPSK(25,24)	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

## 7. SAR measurement Result of LTE Band 7

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						
1RB										
Front Side	21100/2535	20M QPSK(1,0)	0.276	0.111	-2.49	22.39	22.50	0.283	2023/5/29	
Back Side	21100/2535	20M QPSK(1,0)	0.435	0.179	-4.46	22.39	22.50	0.446	2023/5/29	9#
Left Side	21100/2535	20M QPSK(1,0)	0.135	0.054	2.35	22.39	22.50	0.138	2023/5/29	
Right Side	21100/2535	20M QPSK(1,0)	0.141	0.055	0.21	22.39	22.50	0.145	2023/5/29	
Top Side	21100/2535	20M QPSK(1,0)	0.102	0.047	0.36	22.39	22.50	0.105	2023/5/29	
Bottom Side	21100/2535	20M QPSK(1,0)	0.235	0.095	-0.70	22.39	22.50	0.241	2023/5/29	
50%RB										
Front Side	21100/2535	20M QPSK(50,49)	0.138	0.059	-0.63	20.90	21.50	0.158	2023/5/29	
Back Side	21100/2535	20M QPSK(50,49)	0.235	0.102	2.96	20.90	21.50	0.270	2023/5/29	
Left Side	21100/2535	20M QPSK(50,49)	0.080	0.029	0.97	20.90	21.50	0.092	2023/5/29	
Right Side	21100/2535	20M QPSK(50,49)	0.073	0.029	2.40	20.90	21.50	0.084	2023/5/29	
Top Side	21100/2535	20M QPSK(50,49)	0.062	0.024	0.02	20.90	21.50	0.071	2023/5/29	
Bottom	21100/2535	20M	0.134	0.053	-0.76	20.90	21.50	0.154	2023/5/29	

Side		QPSK(50,49)								
------	--	-------------	--	--	--	--	--	--	--	--

NOTE: Hotspot SAR test results of LTE Band 7

## 8. SAR measurement Result of LTE Band 66

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						
1RB										
Front Side	132322/1745	20M QPSK(1,0)	0.300	0.148	-3.12	22.50	23.50	0.378	2023/5/26	
Back Side	132322/1745	20M QPSK(1,0)	0.469	0.231	-2.69	22.50	23.50	0.590	2023/5/26	10#
Left Side	132322/1745	20M QPSK(1,0)	0.147	0.071	-3.60	22.50	23.50	0.185	2023/5/26	
Right Side	132322/1745	20M QPSK(1,0)	0.144	0.070	2.95	22.50	23.50	0.181	2023/5/26	
Top Side	132322/1745	20M QPSK(1,0)	0.112	0.062	0.12	22.50	23.50	0.141	2023/5/26	
Bottom Side	132322/1745	20M QPSK(1,0)	0.240	0.113	-4.00	22.50	23.50	0.302	2023/5/26	
50%RB										
Front Side	132322/1745	20M QPSK(50,0)	0.160	0.087	0.50	21.43	22.50	0.205	2023/5/26	
Back Side	132322/1745	20M QPSK(50,0)	0.240	0.133	-3.84	21.43	22.50	0.307	2023/5/26	
Left Side	132322/1745	20M QPSK(50,0)	0.084	0.041	4.62	21.43	22.50	0.107	2023/5/26	
Right Side	132322/1745	20M QPSK(50,0)	0.084	0.041	2.33	21.43	22.50	0.107	2023/5/26	
Top Side	132322/1745	20M QPSK(50,0)	0.062	0.030	1.25	21.43	22.50	0.079	2023/5/26	
Bottom Side	132322/1745	20M QPSK(50,0)	0.130	0.067	1.94	21.43	22.50	0.166	2023/5/26	

NOTE: Hotspot SAR test results of LTE Band 66

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 responsible for compliance could void the user's authority to operate the equipment.

FCC ID: 2A3WD-HS2

## **IMPORTED BY:**

---

### **QUANTUM CONNECTIVITY DE MEXICO SA DE CV**

Street: Torcuato Tasso #245, Despacho 403  
Office 21 Col. Polanco V sección  
Town hall Miguel Hidalgo  
C.P. 11560, Mexico City  
Phone: (55) 5925 7552  
(55) 8910 1486



[www.quantumconnectivity.com](http://www.quantumconnectivity.com)

---