

Product info	2
Applicable model	2
Product specifications	2
Phone user Case	5
GETTING STARTED	6
How to insert the battery	8
Charging your mobile hotspot	10
Installing/replacing a SIM card	11
Unlocking your SIM	12
Turning the mobile hotspot ON/OFF	12
Safety Usage Device	13
WIRELESS COMMUNICATION	13
SAFETY HAZARDS	13
Battery usage	14
Battery Disposal	15
Battery usage safety	15
Additional battery information	15
Charging the battery	15
Tips to extend the battery life	16
Managing Screen Timeout	16
Managing Sleep Mode	16
AVOID HIGH TEMPERATURES	17
Storing your mobile hotspot or battery	17
Child safety	17
ECO warning	18
RF Device warning	18

USA market FCC INTERFERENCE STATEMENT	18
USA market FCC RF EXPOSURE INFORMATION (SAR)	19
Specific Absorption Rate (SAR) Declaration	19
USA market WIFI warning	20

Product info

Applicable model

H700B/Sonim® H705 MegaConnect™

Product specifications

General

Name	Sonim H705 MegaConnect Mobile Hotspot
Model	H700B
Approvals	FCC (US)
Weight	430g
SIM	4FF removable
Dimension	137x100x24mm
Connectivity	5G: n1, n2, n3, n5, n7, n12, n13, n14, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n71, n77, n78 (5G NR Sub 6GHz) 4G: LTE CAT19 > LTE: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B20, B25, B26, B28, B29, B30, B38, B39, B40, B41, B42, B43, B46 (LAA), B48, B66, B71 (4G 20-layer DL / 256 QAM / 4x4 MIMO) 3G: 850/900/1700/1900/2100MHz

Wireless Network (Wi-Fi mode)	WLAN bands: 2.4GHz, 5GHz Wi-Fi 6E certified: 802.11 b/g/n/ac/ax Wi-Fi 7 ready: 802.11be (up to 160MHz)
Location services	Standalone GPS / NMEA / GPS over Wi-Fi
Ethernet	1 x RJ 45 (2.5 Gbps)
USB interface	USB 3.1 Type-C Port
Display	2.4" 64K color TFT LCD, QVGA (320x240)
Battery Size	8000mAh Li-ion
Time for Full charge	3 hours (when not in use)
Power Sensing	Auto Power ON with power detection
Usage without battery installed	Yes, when connected to wall power.
Power Modes	No Battery mode Power Bank mode (reverse charging) Battery Conservation mode
External Antenna	4x external (TS-9) antenna ports
Ingress Protection	IP53
Operating Temperature	-20 to 55 degrees Celsius
Chipset	Qualcomm® SDX75-1
Memory	RAM= 1GB, FLASH=1GB

External Antennas

The H705 MegaConnect has (4) external TS-9 antenna ports.



ANT0 and ANT1 provide access to cellular bands, both transmit and receive. GPS is provided to support GPS location services. Finally, ANT4 is a dedicated B14 transmit antenna. These external antennas can deploy in support of a number of use cases (in-vehicle installation and fixed location installation.). In order to meet FCC limits, the following table provides the maximum allowed gain for each band of operations. Additionally, the user should ensure that an installation with external antennas provides at least 23 cm separation between the external antennas and any user.

Table of Maximum Allowed Antenna Gains

FDD I (1920-1980 MHz)	4.50 dBi
GSM1900 / FDD II (1850-1910 MHz)	4.50 dBi
FDD IV (1710-1755 MHz)	4.00 dBi
GSM850 / FDD V (824-849 MHz)	5.00 dBi
GSM900 / FDD VIII (880-915 MHz)	4.50 dBi
FDD 1: Japan, Korea, Europe(1920-1980MHz)	4.50 dBi
FDD 2: US(1850 -1910)	4.50 dBi
FDD 4: US (T-Mobile)(1710-1755MHz)	4.00 dBi
FDD 5: US(824-849)	5.00 dBi
FDD 7: Europe(2500-2570MHz)	4.50 dBi
FDD 8: Europe(880-915MHz)	4.50 dBi
FDD 12: US(699-716MHz)	3.50 dBi
FDD 13: US (Verizon)(777-787MHz)	5.00 dBi
FDD 14: US Public Safety (788-798MHz)	3.00 dBi
FDD 20: Europe(832-862MHz)	5.00 dBi
FDD 25: US(1850-1915MHz)	4.50 dBi
FDD 26: US(814-849MHz)	5.00 dBi
FDD 28: Japan, NCC (703-748MHz)	5.00 dBi
FDD 66: US(1710-1780MHz)	4.00 dBi
FDD 71: US(663-698MHz)	3.50 dBi
FDD Other Bands:30	0.00 dBi

TDD 38: Europe, China(2570-2620MHz)	4.50 dBi
TDD 39: China(1880-1920MHz)	4.50 dBi
TDD 41: US, Japan(2496-2690MHz)	4.50 dBi
TDD 42: (3400-3600MHz)	-0.60 dBi
TDD 43: (3600-3800MHz)	-0.60 dBi
TDD Other Bands:48	0.00 dBi
NR n1: (1920-1980MHz)	4.50 dBi
NR n2: (1850 -1910)	4.50 dBi
NR n3: (1710-1755MHz)	4.00 dBi
NR n5: (824-849)	5.00 dBi
NR n7: (2500-2570MHz)	4.50 dBi
NR n8: (880-915MHz)	4.50 dBi
NR n12: (699-716MHz)	3.50 dBi
NR n13: (777-787MHz)	5.00 dBi
NR n14: (788-798MHz)	5.00 dBi
NR n20: (832-862MHz)	5.00 dBi
NR n25: (1850-1915MHz)	4.50 dBi
NR n26: (814-849MHz)	5.00 dBi
NR n28: (703-748)	5.00 dBi
NR n30: (2305-2315)	0.00 dBi
NR n38: (2570-2620MHz)	4.50 dBi
NR n39: (1880-1920MHz)	4.50 dBi
NR n41: (2496-2690MHz)	4.50 dBi
NR n66: (1710-1780MHz)	4.00 dBi
NR n71: (663-698MHz)	3.50 dBi
NR n77: (3300-4200MHz)	2.50 dBi
NR n78: (3300-3800MHz)	2.50 dBi
NR Other Bands:48	0.00 dBi

Phone user Case

Use case: Mobile user

- ✓ powered by battery only!
- ✓ All transmit functions are supported by internal antennas only!
- ✓ User distance: 10mm (follow SAR warning instruction in user guide)

Use case: In Vehicle

- ✓ powered by either device battery or vehicle power via DC cable

- ✓ either an internal antenna or external antenna can be used.
- ✓ The device should be mounted around Dashboard, but the device should be installed at least 23cm away from the user.

Use case: Fixed location or installment

- ✓ powered by either AC-DC adaptor or battery. (Battery is the first power source when the battery and AC-DC are connected).
- ✓ either an internal antenna or external antenna can be used.
- ✓ The device should be mounted around Dashboard, but the device should be installed at least 23cm away from the user.

GETTING STARTED

Remove the battery safety tab

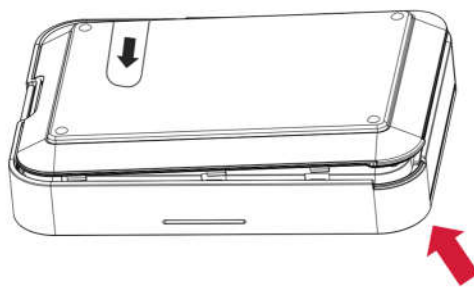
IMPORTANT! The device ships with a safety tab to protect the device from automatically turning on during shipment. Remove the tab prior to first use.

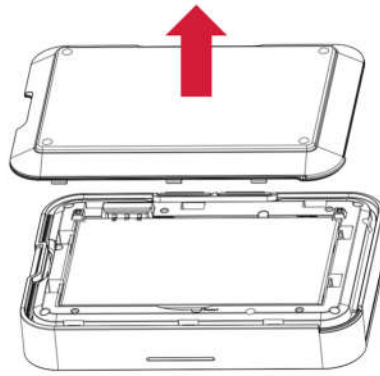
To remove the battery safety tab:

1. Open the battery door.
2. Remove the plastic safety tab.
3. Close the battery door.

Prior to first use, open the battery door and remove the plastic tab on the battery.

To open the battery compartment, gently insert the battery door lever into the slot located at the corner of the device as illustrated below, and then gently pry it open. Remove the plastic safety tab and close the battery door.

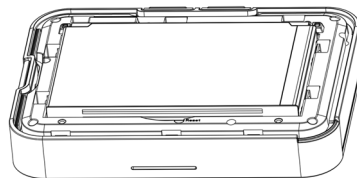
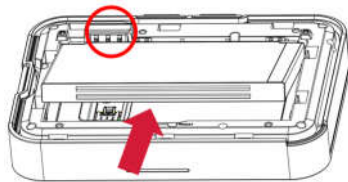
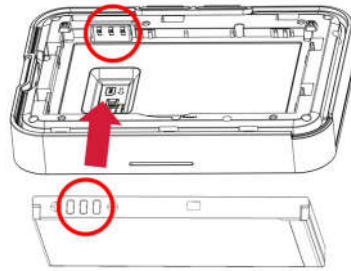




How to insert the battery

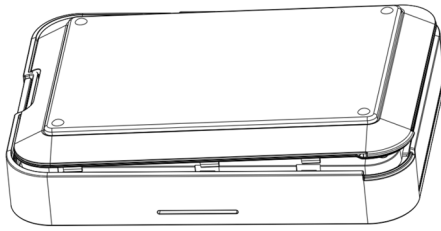
Step 1

Insert the battery flush into the cavity so the three gold contacts on the top of the battery are aligned with the gold contact points in the battery compartments and gently push it into place.



Step 2

Close the battery cover to ensure that it is fully closed. You will hear a click when the battery cover is properly sealed. This is important to ensure the Sonim H705 MegaConnect remains IP53 water and dust resistant.



Caution! Recycle used batteries per local regulations. If you do not use the approved battery with your Sonim H705 MegaConnect mobile hotspot, there will be a risk of fire or explosions and perhaps burns. Do not attempt to open, crush, or burn the battery. Do not allow the battery to exceed 131°F (55°C).

Warning Only use the Sonim-approved battery and charger that was provided with your Sonim H705 MegaConnect mobile hotspot. The warranty does not cover damage caused by usage of non-approved batteries and/or chargers.

NOTE: Before removing or replacing the battery, ensure your Sonim H705 MegaConnect mobile hotspot is not connected to any device or power source. Take caution when removing the battery cover and battery. Use the battery door lever that was included in the box with your device to open the battery cover, and never attempt to remove the battery with a knife, a key, a pen or any other tool. Using any other tool besides what has been provided can damage the battery and void your warranty. Before using your mobile hotspot, read the Additional Battery Information found on page xx.

Charging your mobile hotspot

NOTE: It is important to fully charge your Sonim H705 MegaConnect mobile hotspot's battery before using it for the first time.

To charge the battery:

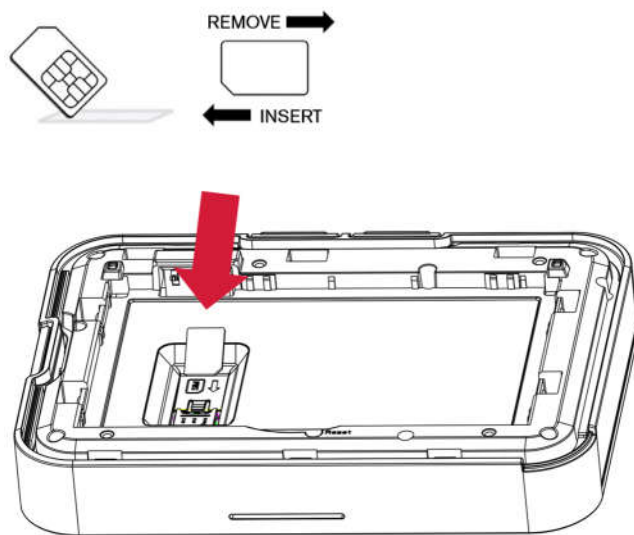
1. Connect the USB end of the charger to the charging port of the mobile hotspot.
2. Plug the other end of the wall charger into a safe & certified electrical outlet.

Installing/replacing a SIM card

The Subscriber Identity Module (SIM) card is a small rectangular plastic card that stores your phone number and essential wireless service information. Your mobile hotspot will not function without a properly activated SIM card.

Your Sonim H705 MegaConnect mobile hotspot comes with a pre-installed SIM card. To replace a SIM card:

1. Make sure the H705 is unplugged and turned OFF, remove the battery cover, and take out the battery.
2. To remove a SIM card, gently slide the SIM out of the SIM card slot.
3. Place the new SIM card with the gold contacts facing down.
4. Gently slide the SIM into the SIM card slot.



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

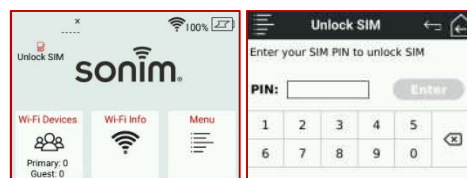
Unlocking your SIM

The PIN set up on your SIM:

To unlock the PIN set up, go to **Menu > Unlock SIM**.

If you have a PIN lock on your SIM:

The “**Unlock SIM**” icon will display in the upper left corner of the screen. Tap the icon to enter the unlock screen, and then enter the PIN code to unlock.



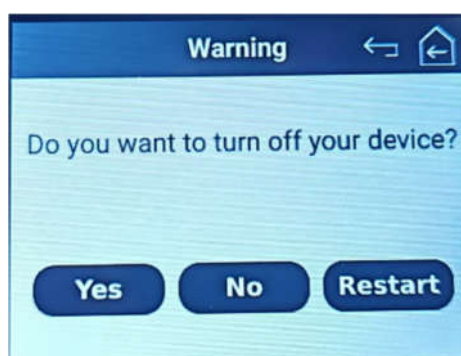
NOTE: The SIM PIN can be obtained from your service provider. If your SIM PIN has been entered incorrectly 3 times, the SIM card will be blocked – if this happens, you will need to contact your service provider to obtain a PUK code to unblock your SIM card.

Turning the mobile hotspot ON/OFF

To turn the Sonim **H705** 5G mobile hotspot on or off:

- To turn ON: Press and hold the **Power** button until the Sonim logo appears on the screen.
- To turn OFF: Press and hold the **Power** button for three seconds.

NOTE: You can select 'No' to not switch OFF or 'Reboot' to reboot the H7000B



- To wake up the display: Press and release the **Power** button.

Safety Usage Device

WIRELESS COMMUNICATION

WARNING! Data can occasionally be lost or delayed due to wireless transmission and reception properties.

The data loss can be due to the variation in radio signal strength that results from changes in the characteristics of the radio transmission path. Although data loss is rare, the environment where you operate the modem might adversely affect communications.

Variations in radio signal strength are referred to as Fading, caused by several factors, including signal reflection, the ionosphere, and interference from other radio channels. SONIM® or its partners will not be held responsible for damages of any kind resulting from the delays or errors in data transmitted or received with the Mobile Hotspot device or failure of the Sonim H705 MegaConnect Mobile Hotspot device to send or receive such data.

SAFETY HAZARDS

Do not operate the Mobile Hotspot in an environment that might be susceptible to radio interference resulting in danger specifically:

AREAS PROHIBITED BY LAW

Follow any special rules and regulations and obey all signs and notices. Always turn off the hotspot host device when instructed or suspect it might cause interference or danger.

Do not operate your device under the following conditions.

- In areas where blasting is in progress
- Where explosive atmospheres may be present
- Near medical equipment
- Near life support equipment, or any equipment that may be susceptible to any

form of radio interference.

In such areas, your device **MUST BE POWERED OFF**. Your device can transmit signals that could interfere with this equipment. Some airlines may permit the use of mobile hotspots while the aircraft is on the ground. When in use on an airplane, follow the directions of the airlines and either power your device off, or put the mobile hotspot in Airplane Mode as directed. At all times when the aircraft is in the air, your device **MUST** be powered off or placed in Airplane Mode. Your device can transmit signals that could interfere with various onboard systems.

The driver or operator of any vehicle should not operate the device while in control of a vehicle. Doing so will distract the driver or operator's control and operation of that vehicle. In some jurisdictions, operating such communications devices while in control of a vehicle is an offense.

Battery usage

Your Sonim H705 MegaConnecty mobile hotspot comes with a removable battery. For any battery-related questions, please contact the Sonim Customer Experience Center at 1-833-697-6646 (1-833-MY-SONIM) or email us at support@sonimtech.com.

Use only a Sonim-certified mobile hotspot battery for the Sonim H705 MegaConnect. The use of other batteries may cause permanent damage to your device, thus voiding the warranty.

- It is recommended to protect the battery from extreme temperature environments and moisture.
- Please keep the battery out of the reach of children.
- Environmental Temperature
- Charging temperature 0°C-40°C
- Operation temperature -20°C~ +55°C
- Battery and charging usage
- Only Sonim BAT-08000-01S Battery can be used for H700B host.
- Only use Sonim inbox accessory charger model UF82PD3001 and USB cable

Battery Disposal

DISPOSAL OF BATTERY



Please check local regulations for disposal of batteries. The battery should never be placed in municipal waste. Use a battery disposal facility if available.

Battery usage safety

- Risk of explosion if battery replaced by an incorrect type. Dispose of used batteries according to the instructions.
- 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.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Promptly dispose of used batteries in accordance with local regulations.
- 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 a service center for inspection.
- Improper battery use may result in a fire, explosion or other hazard.
- Host with SW can identify the NTC value to ensure the authorized battery is used.

Additional battery information

The current battery level, and whether it is charging or not charging, is displayed in the upper right-hand corner of the screen.

Charging the battery

We recommend that you give your mobile hotspot a full charge before you use your mobile hotspot for the first time. The ambient temperature during charging shall be in the range 0°C to 40°C (32°F to 104°F). Only the power supplies with outputs meeting

the SELV requirements can be used for charging. The maximum allowable input voltage for the mobile hotspot is 5V. Again, if you use an incorrect battery, there is a risk of fire or explosion while charging.

If the battery is completely out of charge, it can take several minutes for the charging icon to appear when the charger is connected.

Properly charging the device

1. INSERT CHARGER - Insert the charger plug into a power outlet.
2. CONNECT TO THE MOBILE HOTSPOT - The charging port is located on the back center of the mobile hotspot. Open the port cover and insert the charging connector to the charging port.
3. CHARGING ANIMATION/ICON
 - If the battery is being charged when the mobile hotspot is switched off, a battery charging animation with current battery level is displayed.
 - If the battery is being charged while the mobile hotspot is switched on, the battery icon on the status bar shows the animation indicating that the battery is being charged.
 - After the battery is fully charged the charging animation stops and you can disconnect the charger from the mobile hotspot. A message is displayed as Battery is full. Please unplug the charger.

Tips to extend the battery life

You can optimize battery power by utilizing two options within the Settings menu. First, the Screen Timeout and second, the Sleep Mode.

Managing Screen Timeout

To maximize your battery life, it is recommended to set your Screen Timeout to 30 seconds (which is the factory default). You have options to set the Screen Timeout to 30 seconds, or 1, 5 or 10 minutes. The longer the Screen Timeout is set, the shorter your battery life will typically be.

Managing Sleep Mode.

To further maximize your battery life, please go to Settings > Sleep Mode. Here, if no devices are connected to your hotspot, you will have the option to put your mobile hotspot to sleep after 5 minutes, 15 minutes, 30 minutes, 60 minutes or never. If you select "Never sleep" your device will stay awake until the battery depletes even if the mobile hotspot is not connected to any devices.

At any point, pressing the Power button will awaken the mobile hotspot so you can connect devices for usage.

If you are traveling and do not have access to mobile data or Wi-Fi network, switch to

Airplane mode. To access Airplane Mode, go to SETTINGS AIRPLANE MODE. The default mode is OFF (slider will be on the left-hand side and black in color.) To turn Airplane Mode ON, touch the slider and the button will slide to the right and change to green color. To turn Airplane Mode OFF, simply touch the slider and it will turn black and the button will move to the left-hand side.

NOTE: With Airplane Mode ON, your hotspot will not be able to receive cellular signal and therefore will not have access to the internet.

AVOID HIGH TEMPERATURES

Leaving the device in hot or cold places, such as in a closed car in summer or winter conditions, reduces the capacity and lifetime of the battery. For the best results, try to use the device between -20°C and +55°C (-4°F and 131°F). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing

Storing your mobile hotspot or battery

If you plan to store your mobile hotspot or your battery for an extended time, please follow the recommendations below to ensure long battery life and minimize battery self-discharge:

Charge your battery to a level between 40% to 80%

Store mobile hotspot and battery separately to minimize battery trickle drain

Insulate the battery terminals to avoid discoloration and potential short circuits with other battery terminals

Store the battery in dry and cool conditions in a vibration-free environment

If you use a climate-controlled storage location, set the temperature to 50° to 64° F (10° - 18°Celsius) and keep the relative humidity between 40% - 50%

Recharge the battery once every 6 months, using the original Sonim wall charger and charging cable.

Child safety

Do not allow children to play with your mobile hotspot or its accessories. Keep it out of their reach. They could hurt themselves or others or could accidentally damage the mobile hotspot. Your mobile hotspot contains small parts, such as the SIM, which could be detached, and a battery door removal tool accessory which is included in the packaging that can create a choking hazard.

ECO warning

ECO warning



The symbol of the crossed-out wheeled bin indicates that this product, and any enhancements marked with this symbol, cannot be disposed as unsorted waste but must be taken to separate collection at their end-of-life.

RF Device warning

USA market FCC INTERFERENCE STATEMENT

This mobile hotspot 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.

This mobile phone 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.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

USA market FCC RF EXPOSURE INFORMATION (SAR)

This device with FCC ID: WYPH700B meets the government's requirements for exposure to radio waves.

This mobile hotspot is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commissioner of the U.S. Government:

- The exposure standard for wireless mobile hotspots employs a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit set by the FCC is 1.6W/ kg. Tests for SAR are conducted using standard operating positions (10mm) accepted by the FCC, with the mobile hotspot transmitting at its highest certified power level in all tested frequency bands. The SAR guideline includes a considerable safety margin designed to assure the safety of all persons regardless of age and health.
- The FCC has granted an Equipment Authorization for this model mobile hotspot with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model mobile hotspot is on file with the FCC and can be found under the Display Grant section of <https://www.fcc.gov/oet/fccid> . Enter WYP for Grantee code and H700B for Product code on the FCC ID Search Form.

Specific Absorption Rate (SAR) Declaration

Sonim Technologies Inc, declare that the Sonim H705 MegaConnect Mobile Hotpot is tested to comply with the applicable requirements and regulations for human exposure to radio waves.

Specific Absorption Rate (SAR) is used to measure radio waves absorbed by a body.

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 U.S. Government- 1.6 W/kg averaged over 1 grams of tissue.

The maximum SAR value recorded for the Sonim H700B MegaConnect Mobile Hotspot is 1.19 W/kg.

USA market WIFI warning

n.a