



sonim®  
**MegaConnect™**  
**(Model: H705\*)**

## USER GUIDE

**NOTE:**

Device visuals are for general reference only. The physical product and screen illustrations in this user guide may differ in appearance and functionality, especially after any future software updates.

\*Your MegaConnect's marketing model number is the H705, and the regulatory model number (as seen on the device label under the battery) is H700B.



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# WELCOME

Welcome to your new Sonim MegaConnect Mobile Hotspot. This guide will help you set up and start using your device quickly and easily. You will also learn about using the device's features, safety, and handling, and more. Follow the steps below to connect to your carrier's 5G network, configure settings, and connect your devices to enjoy fast and reliable internet access from virtually anywhere.

## What's in the box?

The Sonim MegaConnect package includes:

- Sonim MegaConnect Mobile Hotspot
- 8000mAh Li-ion Battery
- 30W AC Adapter
- USB A to USB C (3.0) Cable
- User Quick Start Guide

## System Requirements

The Sonim MegaConnect must have a cellular data service to function. It is compatible with all major operating systems and the latest browser versions.

Compatible with Google Chrome®, Firefox®, Internet Explorer®, Safari™, and Mobile Safari™

Connected devices must support Wi-Fi to use in Wi-Fi mode.

# About Your Mobile Hotspot

The powerful, secure hotspot device is equipped with everything you need to work, play, create, and communicate virtually anywhere life takes you.

Your MegaConnect's marketing model number is the H705, and the regulatory model number is H700B.

## HPUE

The Sonim MegaConnect supports High Power User Equipment on B14. HPUE is synonymous with Power Class 1 and provides up to 1.25W of power compared to up to 0.2W on standard mobile hotspots. This increased power increases connectivity in remote places and reduces dead zones. Note that only AT&T and FirstNet SIM's will enable the device to operate in HPUE mode. The MegaConnect will operate in standard power mode (0.2W) when using SIM's from other carriers.

## 5G

For exceptional connectivity, the Sonim MegaConnect supports powerful 5G performance, including C-band, and other band combinations. It also ensures reliable access with 4G support so that you can stay connected.

## WI-FI 6

The Sonim MegaConnect offers Wi-Fi 6 (2.4GHz and 5GHz) connectivity, enabling faster speeds and more reliable connections than previous generations of Wi-Fi, even when multiple devices are connected. This ensures smooth streaming, quicker downloads, and efficient online collaboration.

## USB C CHARGING PORT AND RJ45 ETHERNET PORT

The Sonim MegaConnect provides direct internet connections to other devices via Ethernet or USB C cables. Use an Ethernet cable for a stable, wired connection, ideal for setting up temporary conference rooms or trade show booths where reliable connectivity is crucial. The USB C port offers versatility, doubling as a universal charging port to give your external devices a power boost when needed. For example, during business travel, you can connect your laptop to the Sonim MegaConnect's Ethernet port for seamless internet access and simultaneously charge your smartphone through the USB C port, ensuring continuous productivity on the go (an Ethernet cable is not included).

## OPERATING TEMPERATURES

The Sonim MegaConnect is designed to work in the following ambient temperature ranges:

- In MegaRange High Power mode: -20°C (-4°F) to 35°C (95°F)
- In Standard Power mode: -20°C (-4°F) to 55°C (131°F)

If the temperature exceeds 35°C (95°F) while in MegaRange High Power mode, the device will automatically switch to Standard Power mode.

If the temperature exceeds 55°C (131°F), the device will shut down to prevent damage to the device.

Using the device regularly in environments that exceed the specified temperatures can result in a decreased product life. Note that usage in vehicles is only recommended in situations where the temperatures can be maintained within the specified ranges.

## DURABLE DESIGN

The Sonim MegaConnect mobile hotspot is engineered for durability, featuring an IP53 rating that certifies its resistance to dust and water. It also meets the rigorous MIL-STD-810H military standard, ensuring resilience against extreme conditions such as drops from up to 1.22 meters, shock, vibration, temperature fluctuations, and is resistant to salt fog, enhancing its suitability for maritime or coastal environments<sup>1</sup>.



### IMPORTANT!

To maintain the IP53 rating against dust and water ingress, secure the protective flaps on all external ports (labeled 1, 2, and 3 on Page 8) and ensure that the battery cover fits securely.

## SECURITY SUPPORT

FirstNet Trusted certification, WPA3 Wi-Fi security support, VPN passthrough, and remote connectivity to office networks provide peace of mind that data connections are secure.

## DISPOSAL OF OLD ELECTRICAL AND ELECTRONIC EQUIPMENT



The crossed-out wheeled bin symbol indicates that this product and any enhancements marked with this symbol cannot be disposed of as unsorted waste; instead, they must be taken to separate collection for end-of-life disposal.

<sup>1</sup> For more information, consult the Sonim MegaConnect warranty at <https://www.sonimtech.com/support/warranties>

# GENERAL INFORMATION

## Register Your Device

Please register your device at <https://sonimtech.my.site.com> to receive product information and updates.

### WARRANTY

The Sonim MegaConnect is covered by a 1-Year warranty. For more FAQs, please go to the Sonim website at [www.sonimtech.com/support](http://www.sonimtech.com/support).

## Sonim Support Information

If you feel you are having account issues, please contact AT&T Business Care at 1-800-331-0500 or contact FirstNet Care at 1-800-574-7000.

For additional product and support information, visit [www.sonimtech.com](http://www.sonimtech.com) or contact our Sonim Customer Experience Center at <https://www.sonimtech.com/about/contact/>

**Technical Support:** [support@sonimtech.com](mailto:support@sonimtech.com). For FirstNet customers, use [firstcare@sonimtech.com](mailto:firstcare@sonimtech.com)

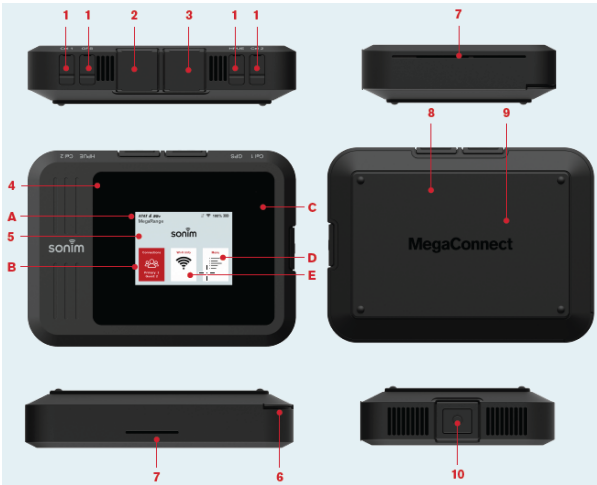
**Manufacturer's address:** Sonim, a NEXA company.  
2057 Coolidge Street  
Hollywood, FL 33020, United States

**Tel:** 1-833 MY SONIM (1-833-697-6646).

For FirstNet customers, use 1-855 FIRST SONIM (1-855-347-7876)

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# USING YOUR MEGACONNECT




















1. External Antenna Ports (TS-9)
2. USB C Port
3. 2.5Gbps Ethernet port (RJ45)
4. Status LED
5. Touchscreen Display
6. Battery cover opening (thumb catch)
7. Cooling Vents
8. Battery (under Battery Cover)
9. SIM Tray (under Battery)
10. Power Button
- A. Carrier Information\*
- B. Connected Devices List
- C. Battery Indicator
- D. Menu
- E. Wi-Fi Access Information

\*When "MegaRange" is displayed, the device is in HPUE mode at greater than 0.2W (23dBm)

# Status Icons

Icon	Meaning
<b>3G</b>	Connected to 3G network
<b>LTE</b>	Connected to 4G LTE network
<b>5G</b>	Connected to 5G low-band network
<b>5G+</b>	Connected to 5G ultra-fast mid-band spectrum
	Network signal strength
	No network signal
	Number of connected devices
	Internet connected
	No internet connection
	Wi-Fi indicator
	Wi-Fi information
	LAN connection
	Upload and download activity is taking place
	Battery is charging
	Battery fast charging
	Device is in 'No Battery Mode'
	Battery 100%
	Battery 75%
	Battery 50%

Icon	Meaning
	Battery 25%
	Low battery warning 10%
	Low battery; Charge immediately
	Locked SIM: Contact your service provider for the PIN to unlock. Unlock in the web UI
	SIM error. Check that your SIM card is properly inserted
	No SIM Detected
	You have unread messages
	You have read messages
	Trash
	Device menu
	Status menu
	Help menu
	Settings
	Go back to the home screen
	Go back to the previous screen in the device UI
	GPS
	Data usage

# GETTING STARTED

## Remove the Battery Safety Tab

Before first use, open the battery door and remove the plastic tab from the battery.

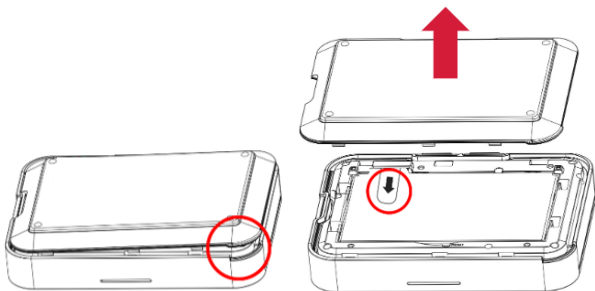


### IMPORTANT!

The device ships with a safety tab to prevent it from turning on during shipment. Remove the tab before first use.

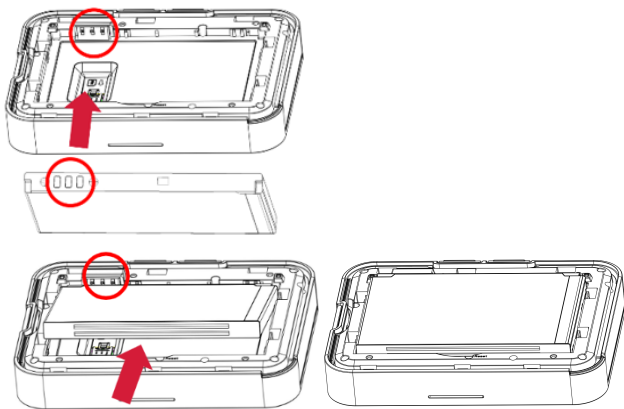
### TO REMOVE THE BATTERY SAFETY TAB:

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

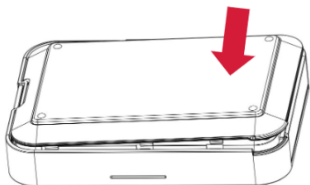


# How To Insert the Battery

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.



2. Close the battery cover, ensuring that it is fully closed. You will hear a click when the battery cover is properly sealed. This is important to ensure the Sonim MegaConnect remains water-resistant<sup>1</sup>.





**CAUTION:** If you do not use the approved battery with your Sonim MegaConnect mobile hotspot, there is a risk of fire, explosion, and burns. Do not attempt to open, crush, or burn the battery. Do not allow the battery to exceed 140°F (60°C).



**WARNING!** Never charge, plug in, or unplug your device when in an inherently unsafe environment (i.e., combustible or explosive atmospheres caused by flammable gases or fumes, dust, etc.).



**WARNING!** Only use the Sonim-approved battery and charger provided with your Sonim MegaConnect mobile hotspot. The warranty does not cover damage caused by using non-approved batteries and/or chargers.



**NOTE:** Before removing or replacing the battery, ensure your Sonim MegaConnect mobile hotspot is not connected to any device or power source. Take caution when removing the battery cover and battery. Never attempt to remove the battery with a knife, key, pen, or any other tool. Using any tool can damage the battery and void your warranty.

Before using your mobile hotspot, please refer to and read the [Additional Battery Information](#) chapter.

# Charging Your Mobile Hotspot



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

We recommend charging your mobile hotspot fully before using it for the first time. The ambient temperature during charging should be in the range 0°C to 40°C (32°F to 104°F). Only use power supplies that meet Safety Extra-Low Voltage (SELV) standards to charge your MegaConnect device. The maximum allowable input voltage by 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 discharged, it may take several minutes for the charging icon to appear when the charger is connected.

## TO CHARGE THE BATTERY

- 1. Insert Charger** - Plug the wall charger into a standard electrical outlet.
- 2. Connect to the Mobile Hotspot** - The charging port is located on the top center of the mobile hotspot. Open the port cover and insert the charging connector into the charging port.

## CHARGING ICON

- When the battery is being charged, the battery icon on the status bar displays an icon indicating that the battery is being charged.
- After the battery is fully charged, you can disconnect the charger from the mobile hotspot.
- If the battery has been plugged in for more than 12 hours, the charging will be limited to 80% to preserve the integrity of the battery. A message will appear with the option to Charge to Full.

Your H705 has been connected to wall power for 12 hours. Charging is now limited to 80% to preserve the integrity of your battery.

OK

Charge to Full

- Note that when you plug in the MegaConnect, it will automatically turn on the device. It is not possible to turn off the device while it is plugged in.

## CHARGING SAFETY WARNING



Risk of electrical shock. Dry location use only.

## No Battery Mode

The MegaConnect supports operation with the battery removed from the device. If you plan to plug in the device for an extended period, it is recommended to remove the battery.

Ensure the device is unplugged before inserting or removing the battery.

If the MegaConnect loses power when on **No Battery Mode**, it will automatically turn on once power is restored.

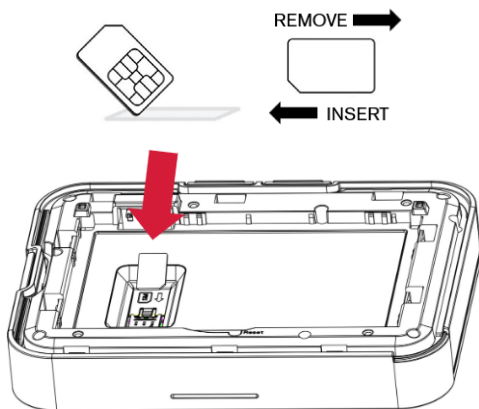
The **No Battery Mode** is only compatible with the supplied USB cable (USB A to USB C) and the included charger (30W). Using other cables and/or chargers may cause the device to malfunction or not work correctly.

# 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 MegaConnect mobile hotspot may come with a pre-installed SIM card. To replace a SIM card:

1. Power OFF the mobile hotspot, 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.



**NOTE:** For the MegaConnect to support Internet access, your SIM must be activated.



**CAUTION:** Do not bend or scratch your SIM card. Avoid exposing the SIM card to static electricity, water, or dirt.

## Unlocking Your 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 access the unlock screen, and then enter the PIN code to complete the unlock process.

### TO UNLOCK YOUR SIM WITH A PIN:

Go to **Menu > Unlock SIM**.



**NOTE:** The SIM PIN can be obtained from your service provider.

## Turning the Mobile Hotspot ON/OFF

- **To turn ON:** Press and hold the **Power** button for four seconds.
- **To turn OFF:** Press and hold the **Power** button for three seconds.
- **To wake up the display:** Press and release the **Power** button.

# LED Status Indicator

The Sonim MegaConnect has a white status LED to indicate that the device is turned on. When the device is powered on, the LED will turn on for one second and turn off for five seconds. This provides the user with an indication that the device is on, without requiring the display to be turned on. The LED will continue to blink while the user has devices connected to the Sonim MegaConnect. If no devices are connected to the Sonim MegaConnect, the device will enter deep-sleep mode to conserve battery life. When the device is in deep-sleep mode, the LED will not blink. The LED will resume blinking once the user takes the unit out of deep-sleep mode by briefly pressing the power button.

## Setting Up a Wi-Fi Connection

1. Turn on the Sonim MegaConnect by pressing the power button for four seconds.
2. Open the Wi-Fi application or controls on your laptop or Wi-Fi-enabled device that you want to connect to your Sonim MegaConnect. Note that when the MegaConnect first powers on or comes out of sleep mode, it may take a few seconds for the Wi-Fi to become active.
3. Find your Sonim MegaConnect's Wi-Fi name (SSID). There are three Wi-Fi names (SSID) in your Sonim MegaConnect:
  - a. Primary Network (2.4GHz);
  - b. Primary Network (5GHz); and
  - c. Guest Network
4. Enter the password to connect to any of the available SSIDs for Internet access. The password is seen on the MegaConnect's screen when viewing the Wi-Fi name.

Note that the Guest Network may be turned off by default.



**NOTE:** The Wi-Fi names (SSIDs) and password appear on the screen (under **Wi-Fi Info**). It is recommended that you connect to the Primary Wi-Fi. Guest Wi-Fi should be enabled first using **Menu > Wi-Fi > Wi-Fi Configuration**.

## External Antennas

While the MegaConnect features robust internal antennas, external antenna ports are also available to enhance performance if the use case requires it. There are two cellular ports, one High Power port and one GPS port.

1. Cell Port 1 (Cel 1)
2. GPS (GPS)
3. High Power (HPUE)
4. Cell Port 2 (Cel 2)



The Cel 1 and Cel 2 ports provide access to cellular bands, allowing both transmission and reception. The GPS port offers access to support GPS location services. The HPUE port provides dedicated access to the B14 transmit antenna. These external antennas can be used in a number of use cases (in-vehicle and fixed location applications). In order to meet FCC limits, the following table provides the maximum allowed gain for each band of operation. Additionally, the user should ensure that an installation with external antennas provides at least 23cm separation between the external antennas and any user.

**Table of Maximum Allowed Antenna Gains**

Band	Technologies	Frequency	Maximum Allowed Antenna Gain
1	UMTS/LTE/5G	1920-1980 MHz	4.50 dBi
2	UMTS/LTE/5G	1850-1910 MHz	4.50 dBi
3	LTE/5G	1710-1755 MHz	4.00 dBi
4	UMTS/LTE	1710-1755 MHz	4.00 dBi
5	UMTS/LTE/5G	824-849 MHz	5.00 dBi
7	LTE/5G	2500-2570 MHz	4.50 dBi
8	UMTS/LTE/5G	880-915 MHz	4.50 dBi
12	LTE/5G	699-716 MHz	3.50 dBi
13	LTE/5G	777-787 MHz	5.00 dBi
14	LTE/5G	788-798 MHz	3.00 dBi (LTE) 5.00 dBi (5G)
20	LTE/5G	832-862 MHz	5.00 dBi
25	LTE/5G	1850-1915 MHz	4.50 dBi
26	LTE/5G	814-849 MHz	5.00 dBi
28	LTE/5G	703-748 MHz	5.00 dBi
30	LTE/5G	2305-2315 MHz	0.00 dBi
38	LTE/5G	2570-2620 MHz	4.50 dBi
39	LTE/5G	1880-1920 MHz	4.50 dBi
41	LTE/5G	2496-2690 MHz	4.50 dBi
42	LTE	3400-3600 MHz	-0.60 dBi
43	LTE	3600-3800 MHz	-0.60 dBi
48	LTE/5G	3550-3700 MHz	0.00 dBi
66	LTE/5G	1710-1780 MHz	4.00 dBi
71	LTE/5G	663-698 MHz	3.50 dBi
77	5G	3300-4200 MHz	2.50 dBi
78	5G	3300-3800 MHz	2.50 dBi

# USING YOUR MOBILE HOTSPOT

The display on the Sonim MegaConnect mobile hotspot lets you access the internet, check the status of your Sonim MegaConnect, view data usage, Wi-Fi SSID and password, connected device details, and other device information.

## The Home Screen

The Sonim MegaConnect home screen provides a quick overview of its status.



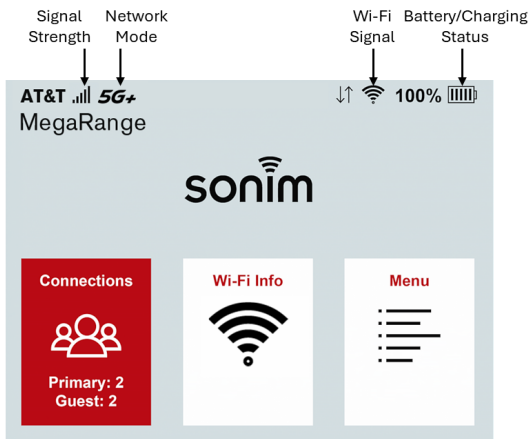
The device screen is a 2.4-inch (61 mm) TFT LCD with Capacitive Touch.

There are three selectable icons:



- **Connections**
- **Wi-Fi Info**
- **Menu**

Once a selection is made, that section will briefly appear in red before the screen changes.

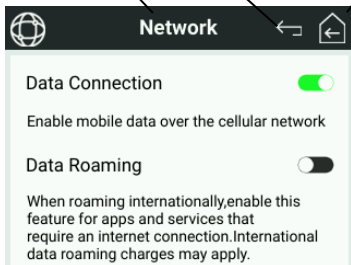
The home screen provides connection status on the top bar.



## SUB-MENU NAVIGATION

The top-left icon indicates your current position in the menu. The icons at the top right of the screen let you either go back one page (  ) or return to the home screen (  ).

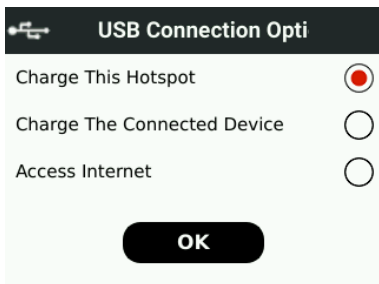
**CURRENT PAGE**                      **RETURN TO HOME SCREEN**  
**GO BACK ONE PAGE**



# MegaConnect USB Options

You can check and select the available USB options.

1. The USB Options screen appears when the USB cable is plugged in.
2. Select the appropriate option from the list and click **OK** to return to the home screen.



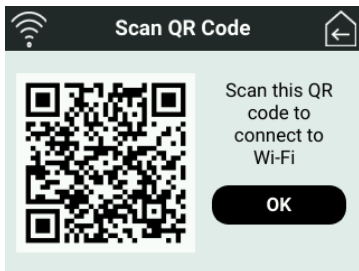
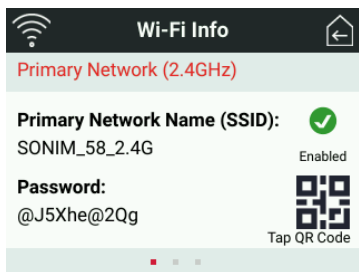
## Connections

This displays the number of devices connected to each primary and guest connection. Touch the Connections window, and the names of the connected devices will appear. Tap on a device to view its respective IP and MAC addresses. You can block or unblock a device by selecting the device you wish to take action on, then tapping Block or Unblock at the top right of the screen.



## Wi-Fi Info

Once selected, the Wi-Fi icon will display the details of the Primary and Guest Network Names (SSID) and Passwords required to access the networks.


- Click on **Wi-Fi Info** on the home screen to enter the Wi-Fi information display page.
- Swipe the screen to display the various pages: Primary Network (2.4GHz), Primary Network (5GHz), and Guest Network.
- To change the Network Name (SSID) and/or Password, refer to the **Managing Your Mobile Hotspot** section using the Web User Interface.





**NOTE:** Passwords can only be changed from the Web UI.



 **Wi-Fi Info** 

**Primary Network (5GHz)**


**Primary Network Name (SSID):**   
SONIM\_59\_5G Enabled


**Password:** @J5Xhe@2Qg   
Tap QR Code




 **Wi-Fi Info** 

**Guest Network**

**Guest Network Name (SSID):**   
SONIM\_5A\_guest Enabled

**Password:** eJ9B@E@E3c   
Tap QR Code

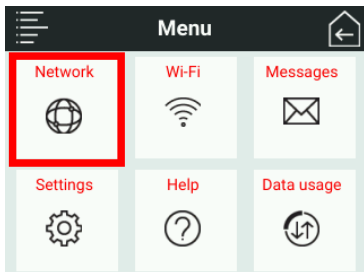


# Menu

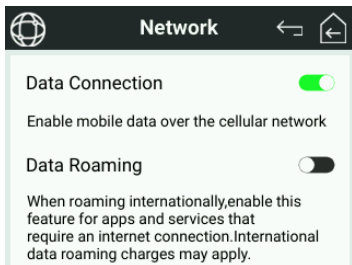
The menu icon allows users to access additional options, including Network, Wi-Fi, Messages, Settings, Help, and Data usage.

## NETWORK

Network options can be accessed by pressing the **Network** icon.



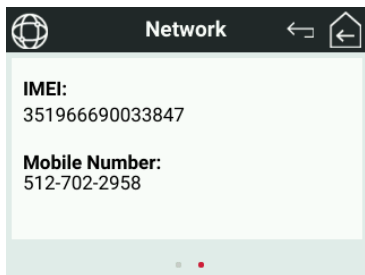
Pressing the **Network** icon allows the following selections.



Using the toggle switches, you can enable or disable a cellular Network Connection and Data Roaming.

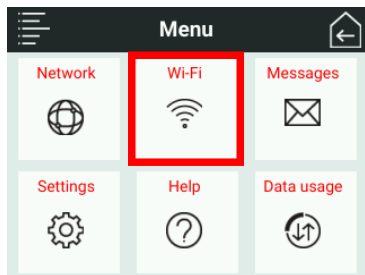
Green indicates that it is enabled, and gray indicates that it is disabled.

From the Network home screen, swipe to the second page to see your IMEI and mobile numbers.

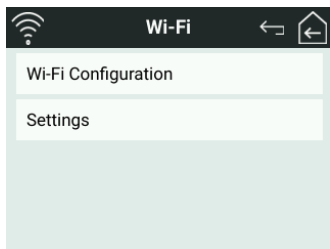


## WI-FI

Wi-Fi options can be accessed by pressing the **Wi-Fi** icon.



Pressing the **Wi-Fi** icon allows the following selections.

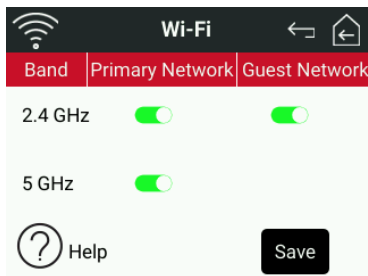


## WI-FI CONFIGURATION

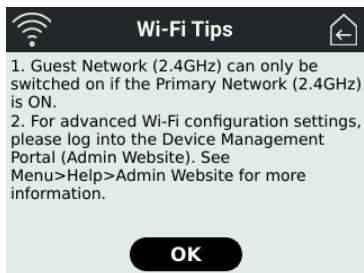
Users can enable and disable the 2.4GHz and 5GHz Wi-Fi networks by sliding the toggle switches.

Green indicates that it is enabled, and gray means that it is disabled.

Click the **Save** button to apply the changes.



Click the **Help** button to view Wi-Fi tips screen.

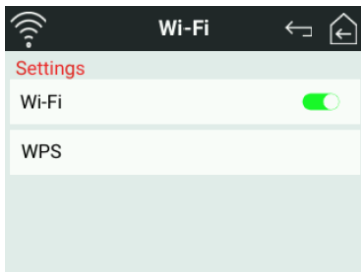


## SETTINGS

Selecting the Settings menu item allows users to enable and disable MegaConnect's Wi-Fi feature and enable WPS connections either by pressing a button or entering a PIN.

The **Wi-Fi** connection can be enabled or disabled by sliding the toggle switch.

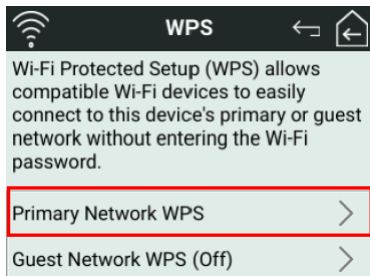
Green indicates that it is enabled, and gray means that it is disabled.



**WPS** stands for Wi-Fi Protected Setup. It is a wireless network security standard that speeds up and simplifies connections between a router (MegaConnect) and Wi-Fi enabled wireless devices. Note: WPS is not available when using a FirstNet SIM.

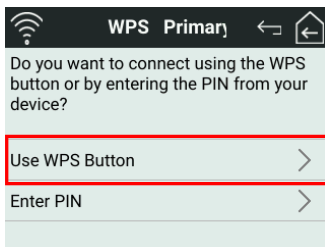
## PRIMARY NETWORK WPS

1. To enable WPS over the Primary Network, select Primary Network WPS.

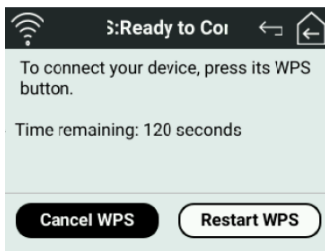


2. The MegaConnect can be connected to a Wi-Fi enabled device via the device's WPS button or by entering a PIN.

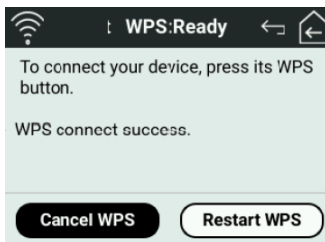
**WPS BUTTON OPTION.** To connect using this option, select **Use WPS Button**.



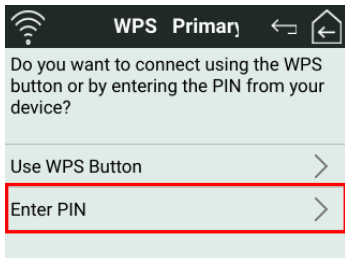
- a. Make sure your intended wireless device is powered on. Press the WPS button on the device you are connecting to. A countdown will begin.



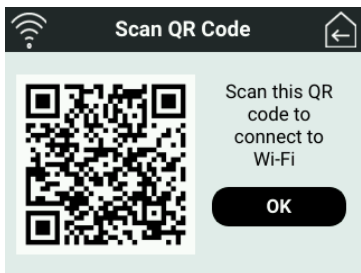
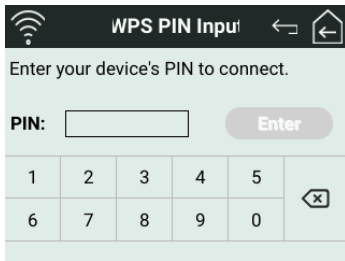
- b. When successful, the MegaConnect screen will display a message.



**ENTER PIN OPTION.** To connect using this option, select **Enter PIN**.



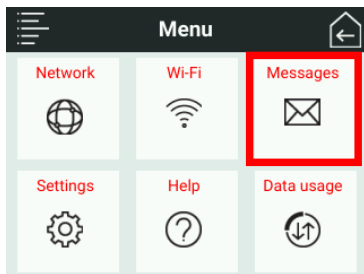
- c. Enter the PIN seen on your Wi-Fi enabled device.



**NOTE:** The WPS feature is not available when using a FirstNet SIM.

## MESSAGES

Messages can be accessed by pressing the **Messages** icon.

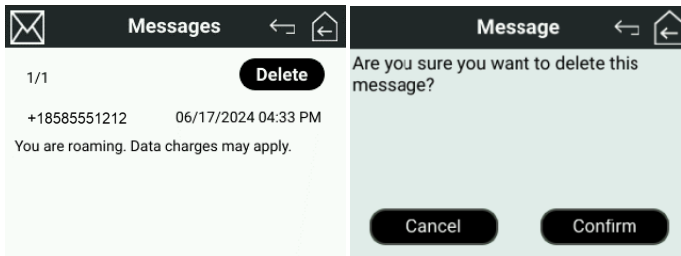


This section allows you to view and delete messages. Here, you will find messages about your device or from your service provider regarding software updates or carrier notifications.

### NOTES:

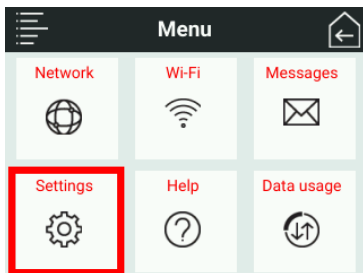


- Messages cannot be sent from the hotspot.
- They can be deleted using the Delete button but cannot be recovered once they have been deleted.

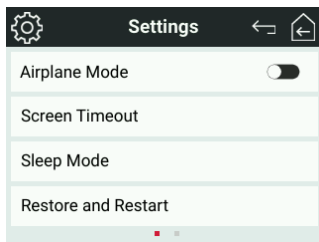


## SETTINGS

Settings can be accessed by pressing the **Settings** icon.

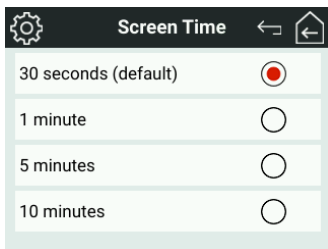


Pressing the **Settings** icon allows the following selections.

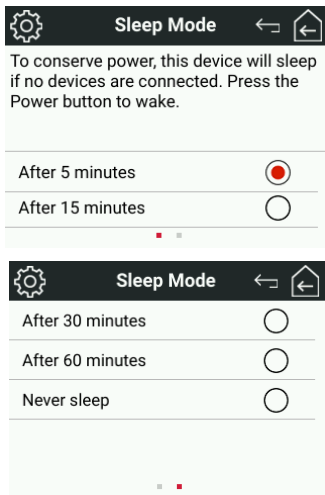


- **Airplane Mode** can be enabled or disabled (note that if Airplane Mode is active, you cannot use the Sonim MegaConnect as a hotspot).

- **Screen Timeout** can be modified (note that long screen times can drain the battery faster).

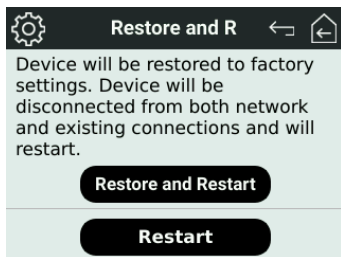


- **Sleep Mode** (for the MegaConnect) can be set at different intervals.

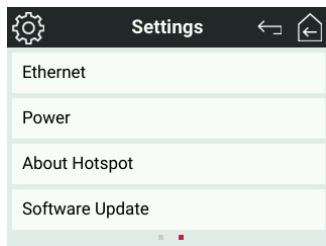


**NOTE:** The longer the selected sleep mode time, the shorter the battery life.

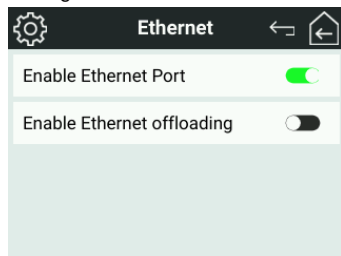
- **Restore and Restart** allows the device to be restored and restarted to its factory default settings, or you may choose to restart the device only.



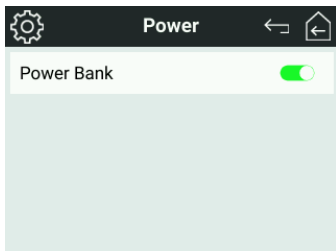
Swipe the screen to display the second page of Settings options.



- **Ethernet** allows an Ethernet connection to be enabled or disabled using an Ethernet cable.

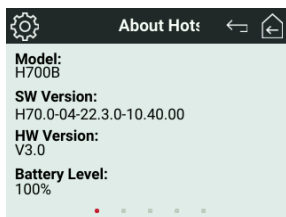


- **Power** gives the option to enable or disable the Power Bank feature.

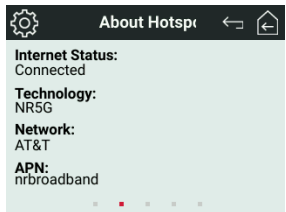


- **About Hotspot** provides useful information about your MegaConnect device. Swipe the screen to view the five pages.

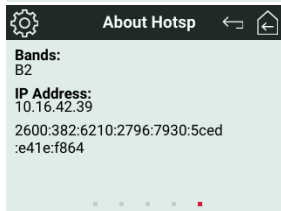
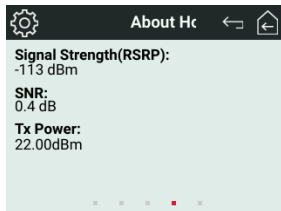
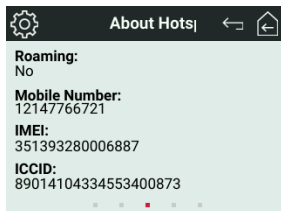
- Model
- Software Version
- Hardware Version
- Battery Level (%)



- Internet Status
- Technology
- Network
- APN



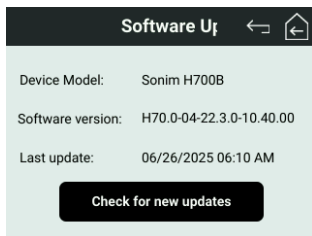
- Roaming
- Mobile Number
- IMEI
- ICCID
  
- Signal Strength (RSRP)
- SNR
- Tx Power (standard power < 23dBm, HPUE is 24-31dBm)
  
- Bands
- IP Address (IPv4/IPv6) (Note IPv6 not available when using FirstNet SIM)



- **Software Update** informs you when software updates are available for your Sonim MegaConnect.

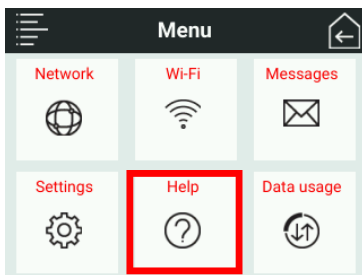
Clicking on **Software Update** will display the model name, current software version, and the date the device last checked for a software update.

- Click the **History** button to view a list of past update activity.
- Click the **Update** button to check for a software update, and perform a download if applicable.

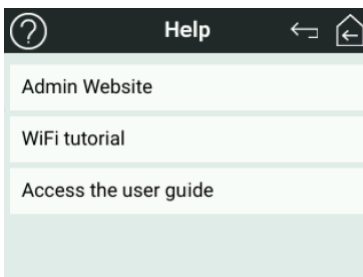


## HELP

Help can be accessed by pressing the **Help** icon.



Pressing the **Help** icon allows you to make the following selections.



- **Admin Website** provides details about how to access the Web User Interface, which allows users to update advanced settings on the device. The admin Username and Password are located here.



**NOTE:** The default username is "admin".

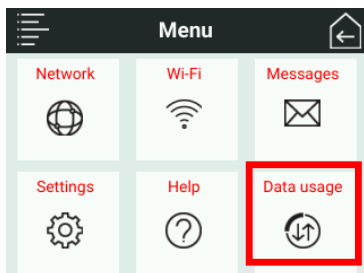
- **Wi-Fi tutorial** provides instructions to set up Wi-Fi connections.
- **Access the user guide** to display a QR code that links to the online user guide, available at <https://www.sonimtech.com/support/device-support-guides#megaconnect>.



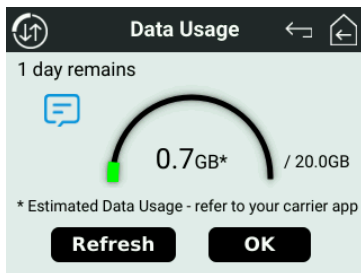
**NOTE:** You cannot access the user guide directly from the Sonim MegaConnect. You must use the QR code to access the online user guide URL.

## DATA USAGE

Data Usage can be viewed by pressing the **Data Usage** icon.



Pressing the **Data usage** icon displays the amount of data used during your billing cycle.



The default setting is unlimited. To set up information for your account, you will need to go into the Web User Interface to enter your specific data plan and billing date.

# THE WEB USER INTERFACE

You can edit the settings directly on the Mobile Hotspot's screen or through the web user interface (WEB UI), commonly referred to as Web UI device management.

## Web User Interface Device Management

1. On your Wi-Fi device or laptop that is connected to your Sonim MegaConnect, type in the browser bar:
  - a. `http://192.168.1.1` or
  - b. `http://sonim.mobilehotspot`



**NOTE:** Your device or laptop **MUST** be connected to your Sonim MegaConnect to access your Web User Interface.

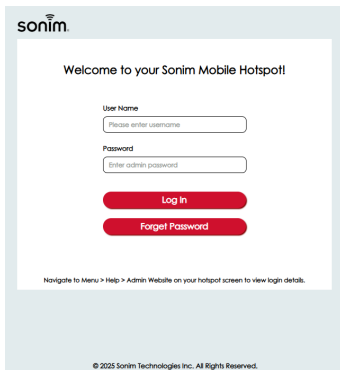
2. Enter the Username and Password.
3. Click **Login**. You can modify the user credentials if you desire. On the Web User Interface, select **Settings > Admin Settings**.



**NOTE:** The default username is "admin," and the password is shown within the "Help" section in the MegaConnect. **Menu > Help > Admin Website**.

You can only modify the user credentials from the web user interface. You cannot modify the credentials on the MegaConnect itself.

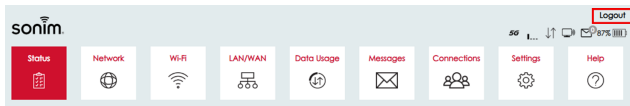
Refer to the **Help** menu on the device's **Menu** screen for website instructions, including features that can be managed on the website.



## LOG OUT OF THE WEB UI

### TO LOG OUT,

1. Click **Logout** in the upper right corner.
2. Click **OK** on the pop-up screen to exit the application and return to the login interface.



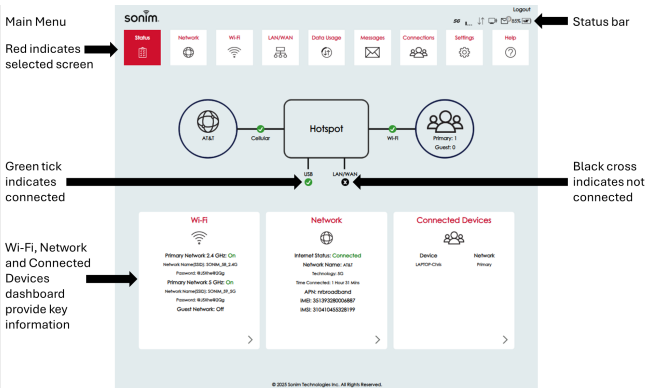
# Web UI Home Screen

The Web UI home screen primary navigation tabs are: Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings, and Help.

The screenshot displays the Sonim Web UI Home Screen. At the top left is the Sonim logo. The top right corner shows system status icons: 5G, signal strength, Wi-Fi, cellular signal, and battery level at 87%. Below the logo is a navigation bar with nine tabs: Status (selected), Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings, and Help. The main content area features a central diagram of a 'Hotspot' connected to 'AT&T' via 'Cellular' and to a group of users via 'Wi-Fi'. Below the diagram are three summary cards: 'Wi-Fi' showing network status for 2.4 GHz and 5 GHz, 'Network' showing internet status and connection details, and 'Connected Devices' listing a laptop and primary network. The bottom of the screen has a copyright notice: © 2025 Sonim Technologies Inc. All Rights Reserved.

## Status

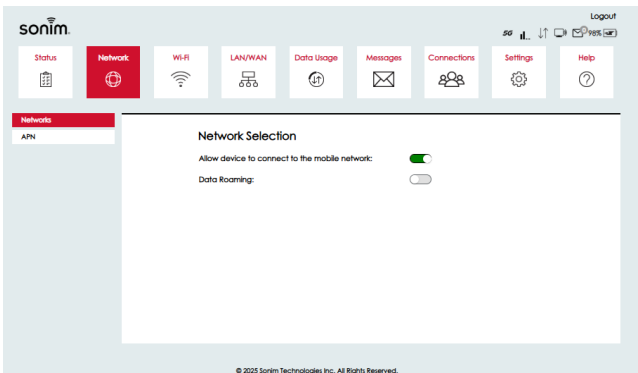
You can view a summary state of the current system connections, broken down into three parts: Wi-Fi, Network, and Connected Devices.



# Network

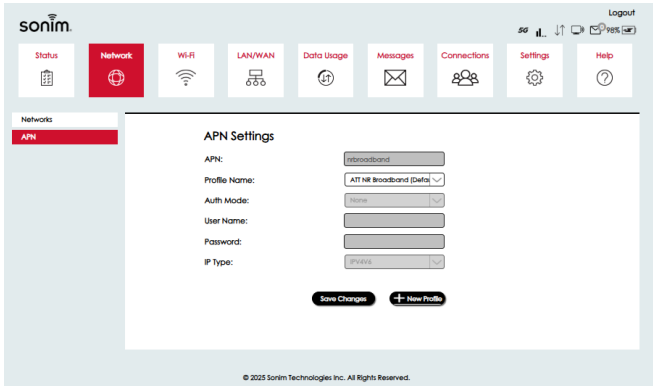
## NETWORKS

You can view the basic device network settings. The toggle switches enable or disable cellular (mobile) network connections and Data Roaming. Green indicates that the feature is enabled, while gray indicates that it is disabled. You can also select the Network Mode and Network Operator.



## APN

The APN screen allows you to add or modify an Access Point Name (APN).



## Wi-Fi

You can view your device's basic Wi-Fi settings by selecting one of the three buttons on the left side of the screen.

### WI-FI CONFIGURATION

From this page, you can modify the band settings. The toggle switches enable or disable the Wi-Fi service or allow the Wi-Fi settings to be changed from the display. Green indicates that the feature is enabled, while gray indicates that it is disabled. There are also the options to:

- Enable and disable the individual bands.
- Setting the number of devices allowed to connect.



- Changing the Wi-Fi network settings.
- Click **Save Changes** to apply the changes.

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Logout

Status Network **Wi-Fi** LAN/WAN Data Usage Messages Connections Settings Help

Wi-Fi Configuration

2.4GHz band

5GHz band

Wi-Fi Status  
(To change, go to [Wi-Fi Configuration](#))

Primary Network (2.4GHz)  
Enable

Guest Network (2.4GHz)  
Disable

Network Name (SSID): SONIM\_SR\_2\_4G SONIM\_SA\_guest

Security: WPA3/WPA2 Mixed Mode WPA3/WPA2 Mixed Mode

Password: \*\*\*\*\*

Hide password on touchscreen

Broadcast SSID

WPS

Wi-Fi privacy separation

802.11 mode: 802.11b/g/n/ax Same as Primary

Bandwidth: 40MHz Same as Primary

Channel: Automatic Same as Primary

Save Changes

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Logout

Status Network **Wi-Fi** LAN/WAN Data Usage Messages Connections Settings Help

Wi-Fi Configuration

2.4GHz band

**5GHz band**

Wi-Fi Status  
(To change, go to [Wi-Fi Configuration](#))

Primary Network (5GHz)  
Enable

Network Name (SSID): SONIM\_SR\_5G

Security: WPA3/WPA2 Mixed Mode

Password: \*\*\*\*\*

Hide password on touchscreen

Broadcast SSID

WPS

Wi-Fi privacy separation

802.11 mode: 802.11be

Bandwidth: 80MHz

Channel: Automatic

Save Changes

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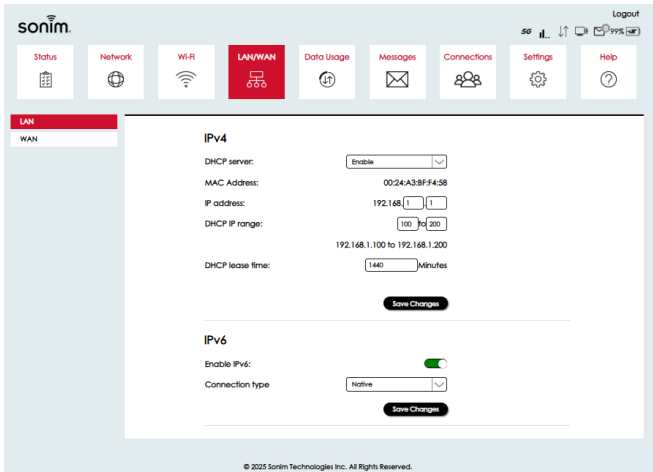
# LAN/WAN

You can reconfigure the IPv4 settings on the Sonim MegaConnect. Please exercise caution when changing LAN settings to avoid potential network issues.

## DYNAMIC HOST CONFIGURATION PROTOCOL (DHCP)

You can view the network management protocol that is used to assign an Internet Protocol (IP) address to any device and configure network devices to communicate across an IP network.

1. From the Web UI home screen, click **LAN/WAN > LAN**.
2. Enable any DHCP-specific options that your device requires.
3. Click **Save Changes** to ensure the changes take effect.





**NOTE:** IP passthrough enables a device connected to the mobile hotspot to use a public IP address directly, rather than sharing the hotspot's internal network. This can be useful for gaming, remote work, or any situation requiring a direct internet connection for improved performance and fewer restrictions.

## WAN SETTINGS

1. From the Web UI home screen, click **LAN/WAN > WAN**.
2. IP passthrough can be enabled. Green indicates that the feature is enabled, while gray indicates that it is disabled.
3. Click **Save Changes** to ensure the change takes effect.

The screenshot shows the Sonim mobile hotspot Web UI. At the top, there is a navigation menu with icons for Status, Network, Wi-Fi, LAN/WAN (highlighted in red), Data Usage, Messages, Connections, Settings, and Help. The main content area is titled 'WAN Settings' and features a toggle switch for 'IP Passthrough' which is currently turned off. Below the toggle, there is a brief explanation of the feature and a section titled 'IMPORTANT INFORMATION' with three bullet points: '- Prior to enabling 'IP Passthrough', ensure that the setting for 'Ethernet Port' is ENABLED and 'Enable Ethernet Offloading' is DISABLED. These settings can be found on your Device UI under the 'Ethernet' menu item.', '- For the settings to take effect, a manual restart of your Sonim device and target device is recommended after enabling or disabling 'IP Passthrough'.', and '- When restarting your Sonim device, ensure that the target device specified in the MAC Address field is connected via the ethernet port.' At the bottom of the settings page, there is a 'Save Changes' button. The footer of the page reads '© 2025 Sonim Technologies Inc. All Rights Reserved.'

# Data Usage

## DATA USAGE

Select Data Usage to view how much data has been used during your billing cycle. The Unlimited plan is set by default. You can enter your data plan and billing cycle date. Once this is done, the data usage information will be displayed on the device's home screen.

The screenshot shows the Sonim mobile app interface. At the top, there is a navigation bar with the Sonim logo on the left and a 'Logout' button on the right. Below the navigation bar is a row of nine menu items: Status, Network, Wi-Fi, LAN/WAN, Data Usage (highlighted in red), Messages, Connections, Settings, and Help. The 'Data Usage' menu item is selected, and its content is displayed in a large white box below the navigation bar. The 'Data Usage' section has a red header. The main content area contains the following text: 'Data usage information is unavailable when an 'Unlimited' data plan is selected.' followed by 'Select 'My plan has 'Fixed' data' and enter your details below to display data usage information.' Below this is a section titled 'Enter the details of your current data plan'. There are two radio button options: 'My plan has 'Fixed' data' and 'My plan has 'Unlimited' data'. The 'Unlimited' option is selected. Under the 'Fixed' option, there are input fields for 'Monthly available data' (with '20.00' and 'GB' dropdown) and 'Billing cycle begins on' (with '1' and a dropdown). Under the 'Unlimited' option, there is a note: 'Data usage will not display on the homescreen of your device'. At the bottom right of the form are two buttons: 'Save' and 'Reset data counter'. At the very bottom of the screen, there is a copyright notice: '© 2025 Sonim Technologies Inc. All Rights Reserved.'

# Messages

Your Sonim MegaConnect cannot send messages. However, it can receive messages from your service provider. From here, you can review messages that have been received. You can save the messages or delete those that are no longer needed.

**To delete messages:** check the box of the message you would like to delete and then select **Delete**.

Once deleted, the message cannot be recovered.

The screenshot displays the Sonim MegaConnect web user interface. At the top right, there is a 'Logout' button and a language dropdown menu set to 'English'. Below this, a row of navigation tabs includes: Status, Network, WiFi, LAN/WAN, Data Usage, Messages (highlighted in red), Connections, Settings, and Help. The 'Messages' tab is active, showing an 'Inbox(1/1)' view. The message list contains one entry with a checkbox, a sender ID of '+18585551212', the content 'You are roaming. Data charged may apply.', and a date of '2024-06-18 19:44:45'. Above the message list are 'Delete' and 'Refresh' buttons. Below the list is a pagination control showing '1/1' and a 'Go' button. At the bottom of the page, the text '© 2024 All rights reserved.' is visible.

# Connections

This screen shows the connected devices and their status. Click on the down arrow in the right margin to expand and display their IPv4 and MAC addresses.

You can also block a device or devices from accessing your connection from this menu.

**To block a device:** check the box(es) and click **Save Changes**.

On this screen, you will see the devices you have blocked.

**To unblock a device:** uncheck the box and select **Save Changes**.

The screenshot shows the Sonim web user interface. At the top, there is a navigation bar with the Sonim logo and several menu items: Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connectors (highlighted in red), Settings, and Help. In the top right corner, there are status indicators for signal strength, Wi-Fi, and battery, along with a Logout button.

The main content area is titled 'Connected Devices'. It contains two sections:

- Connected(1)**: A table with the following data:

Index	Type	Device	Network	Block	Status
1	Wi-Fi	LAPTOP-Chris	Primary	<input type="checkbox"/>	▼

A 'Save Changes' button is located below this table.
- Blocked(0)**: A section with a table header:

Index	Device	Unblock
-------	--------	---------

Below the header, it says 'No blocked devices.' and a 'Save Changes' button is located at the bottom.

At the bottom of the page, there is a copyright notice: © 2025 Sonim Technologies Inc. All Rights Reserved.

# Settings

The Settings screen provides access to several useful parameters.

## SOFTWARE UPDATE

Use this section to review current software & hardware versions and check for available software updates.

Click the Check for update button and follow the on-screen instructions to check for a software update.

The screenshot shows the Sonim mobile application's Settings screen. At the top, the 'sonim.' logo is on the left, and system status icons (5G, signal strength, Wi-Fi, battery at 99%) and a 'Logout' button are on the right. A horizontal menu below the header contains icons for Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings (highlighted in red), and Help. On the left side of the main content area, a vertical list of settings options is shown, with 'Software Update' selected and highlighted in red. The main content area displays the following information:

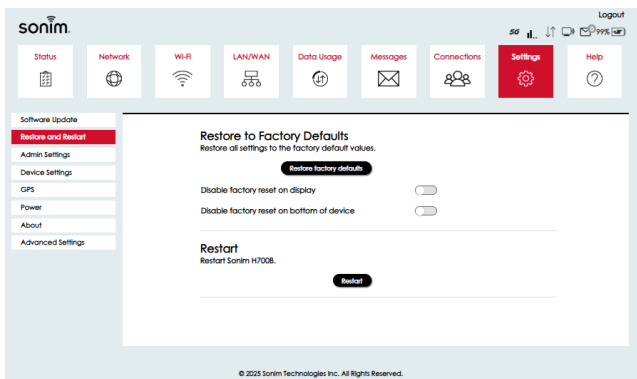
Device Model:	Sonim H700B
Current Software Version:	H70.0-04-22.3.0-10.40.00
Last Update:	06/26/2025 06:10 AM

Below this information is a black button with white text that says 'Check for new updates'. At the bottom of the screen, a copyright notice reads: '© 2025 Sonim Technologies Inc. All Rights Reserved.'

## RESTORE AND RESTART

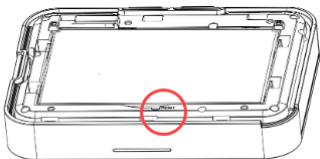
You can remotely reboot your device or reset it to factory default settings.

1. From the Web UI home screen, click **Settings > Restore and Restart**.
2. Click **Restart** to restart the device or click **Reset factory defaults** to restore the device to its original factory settings.
3. It is possible to disable the ability to perform a factory reset using the device's display and/or the reset button\*. If these options are enabled, it is only possible to perform a factory reset through the Web User Interface.



The screenshot displays the Sonim Web UI interface. At the top, there is a navigation bar with icons for Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings (highlighted in red), and Help. Below this is a sidebar menu under 'Software Update' with options like 'Restore and Restart', Admin Settings, Device Settings, GPS, Power, About, and Advanced Settings. The main content area is titled 'Restore to Factory Defaults' and includes a 'Restore factory defaults' button, two toggle switches for 'Disable factory reset on display' and 'Disable factory reset on bottom of device', and a 'Restart' section with a 'Restart' button. The footer contains the copyright notice: '© 2025 Sonim Technologies Inc. All Rights Reserved.'

\*Remove the battery cover to see the reset button (pin hole) next to the battery, at the bottom of the device.





## WARNING!

If the admin disables the ability to perform a factory reset and forgets the Web UI admin password, then there is no way to access the device.

## ADMIN SETTINGS

You can change the password to access the Web UI.

1. From the home screen, click **Settings > Admin Settings**.
2. Modify your Password for the web user interface, if desired.
3. Hide the Admin password on the display of the MegaConnect, if desired.



**CAUTION:** Be sure to record your new username and password, and store them in a secure location. If forgotten, you will have to perform a factory reset.

4. Click **Apply** to ensure the changes take effect.

sonim

Status Network Wi-Fi LAN/WAN Data Usage Messages Connections **Settings** Help

Software Update  
Restore and Restart  
**Admin Settings**  
Device Settings  
GPS  
Power  
About  
Advanced Settings

Logout

50 100% 99%

**Password**

Current Password:

New Password:

Confirm Password:

**NOTE:** Your new password must meet the following criteria:

- Must include a lower-case character [a-z]
- Must include an UPPER-CASE character [A-Z]
- Must include a number [0-9]
- Must include a special character from the list: @ ! % & #
- Must be between 8 to 63 characters long
- New and confirmation password must match

**IMPORTANT:** For best security practices, it is strongly recommended that you use a different password for the Wi-Fi Primary, Wi-Fi Guest and Admin Website.

Hide Admin password on the display

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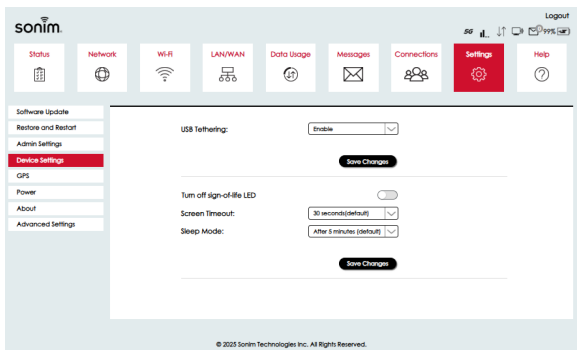
## DEVICE SETTINGS

From the Web UI home screen, click **Settings** > **Device Settings**

### USB TETHERING

A USB data cable allows a mobile device to share a connection with a laptop or PC.

1. Enable or disable the Mobile Hotspot's ability to support tethered devices (the default setting is **Disable**).
2. Click **Save Changes** to ensure the changes take effect.



### MORE DEVICE SETTINGS

- **Turn off sign-of-life LED:** Toggle feature on or off.
- **Screen Timeout:**
  - 30 seconds (default)
  - 1 minute
  - 5 minutes
  - 10 minutes
- **Sleep Mode:**
  - Never sleep
  - After 5 minutes (default)
  - After 15 minutes
  - After 30 minutes
  - After 60 minutes

# GPS

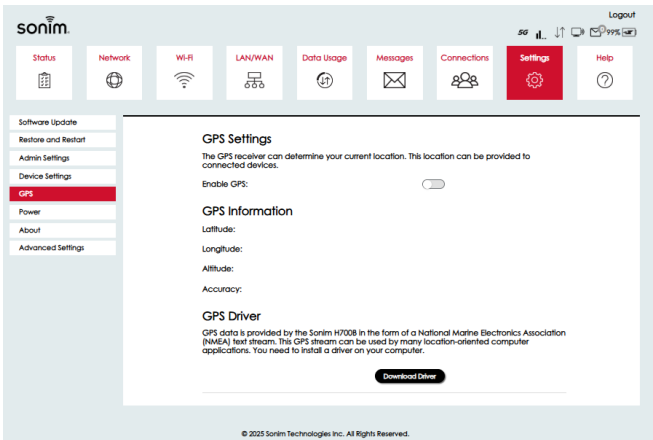
From the Web UI home screen, click **Settings > GPS**. It can be enabled or disabled. The default setting is **Disable**.

GPS over Wi-Fi in the Sonim MegaConnect web UI allows the device to provide a GPS (NMEA\*) stream to a Windows computer. This can be used when running an app that can utilize a NMEA GPS stream (such as an enterprise application). To utilize GPS over Wi-Fi, a driver must be installed on the computer.

When GPS is enabled, additional parameters become visible.

- Turn on GPS over Wi-Fi
- Port Number: defaults to 16000

Be sure to save any changes by clicking on the Save Changes button.



\*NMEA: National Marine Electronics Association.

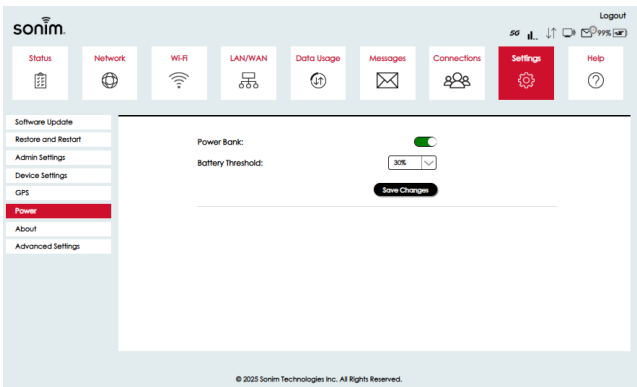
# POWER

Your MegaConnect can be a battery power bank to charge a tethered device, such as a smartphone, tablet, or smartwatch.

To reserve a battery level for normal hotspot operations, you can select the battery level percentage at which the charging function will stop.

- **Power Bank:** Can be enabled or disabled.
- **Battery Threshold:**
  - 20%
  - 30%
  - 40%
  - 50%

Be sure to save any changes by clicking on the **Save Changes** button.



## THE POWER BANK FEATURE

- When a device such as a phone, laptop, or tablet is connected to the MegaConnect, it will pop up a menu item that gives the user the following options:
  - Charge This Hotspot
  - Charge The Connected Device
  - Access Internet (this option will only appear if the USB Tethering is enabled in the Web UI)
- If the user connects a non-tethering device that is charged using USB (such as a camera, fitness tracker, etc.) to the MegaConnect, it will pop up a menu item that gives the user the following options:
  - Charge This Hotspot
  - Charge The Connected Device
- Note that not all connected devices can be charged using this feature, as the connected device may have settings that conflict with the MegaConnect charging settings.

## ABOUT

In the About screen, you can view the Internet Status, Network, and Device information tabs and relevant information about your Sonim MegaConnect.

On the **Internet Status** tab, you will see the following specifications:

- Internet Mode
- Network Status
- Network Operator
- APN
- CA
- ENDC
- Connection Uptime
- IP Address
- Subnet Mask
- Default Gateway
- Primary DNS Server
- Secondary DNS Server
- IPv6 Address
- IPv6 Primary DNS Server
- IPv6 Secondary DNS Server

The screenshot shows the 'About' screen of the Sonim MegaConnect. At the top, there is a navigation bar with icons for Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings (highlighted in red), and Help. Below the navigation bar is a sidebar menu with options: Software Update, Restore and Restart, Admin Settings, Device Settings, GPS, Power, About (highlighted in red), and Advanced Settings. The main content area is titled 'About' and has two tabs: 'Internet Status' (selected) and 'Device Info'. The 'Internet Status' tab displays the following information:

Internet Mode:	Mobile Data
Network Status:	Connected
Network Operator:	AT&T
APN:	ntbroadband
CA:	N/A
ENDC:	N/A
Connection Uptime:	2 Hours 20 Mins
IP Address:	10.13.42.202
Subnet Mask:	255.255.255.252
Default Gateway:	10.13.42.201
Primary DNS Server:	172.26.38.2
Secondary DNS Server:	172.26.38.2
IPv6 Address:	2600:382:620d:2899-911b:834e:951c:244
IPv6 Primary DNS Server:	fc00:aa::400
IPv6 Secondary DNS Server:	fc00:aa::400

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On the **Device Info** tab, you will see the following specifications:

- Device Model
- Software Version
- Hardware Version
- IMEI
- IMSI
- MAC
- Mobile Number
- ICCID

#### RF Parameters:

- RSRP
- RSSI
- RSRQ
- SNR
- PCI
- TX Power
- Bands

The screenshot shows a web interface for Sonim devices. At the top, there's a navigation bar with the Sonim logo and a 'Logout' button. Below the navigation bar are several tabs: Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings (highlighted in red), and Help. On the left side, there's a sidebar menu with options like Software Update, Restore and Restart, Admin Settings, Device Settings, GPS, Power, About (highlighted in red), and Advanced Settings. The main content area is titled 'About' and has two sub-sections: 'Internet Status' and 'Device Info' (highlighted in red). The 'Device Info' section lists various identifiers and versions. Below that is the 'RF Parameters' section, which lists radio frequency metrics.

Device Model:	Sonim H700B
Software Version:	H70.0-04-22.3.0-10.40.00
Hardware Version:	V3.0
IMEI:	351393280006887
IMSI:	310410455328199
MAC:	00:24:A3:BF:F4:58
Mobile Number:	1214766721
ICCID:	89014104334553400873

<b>RF Parameters</b>	
RSRP:	-105dBm
RSSI:	-69dBm
RSRQ:	-13dB
SNR:	-8.0dB
PCI:	221
TX Power:	N/A
Bands:	B12

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## ADVANCED SETTINGS



### WARNING!

Making changes to Advanced Settings can cause the device to stop operating correctly. Only make changes to these settings if you understand the impact to the device.

## MANUAL DNS

You can specify control settings on the Open DNS website to block specific categories of websites and view the ones that have been accessed from your particular network.

1. From the Web UI home screen, click **Settings > Advanced Settings > Manual DNS**.
2. Modify the DNS address as required and apply it to the filter.
3. Click **Save Changes** to ensure the changes take effect.

The screenshot displays the Sonim Web UI interface. At the top, the 'sonim' logo is on the left, and system status icons (5G, signal strength, Wi-Fi, battery at 100%) are on the right. A navigation bar contains icons for Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings (highlighted in red), and Help. A left sidebar lists various settings categories, with 'Advanced Settings' highlighted in red. The main content area is titled 'Advanced' and shows the 'Manual DNS' configuration page. It includes a breadcrumb trail: < Manual DNS >. The settings are as follows:

- DNS:** Auto (dropdown menu)
- Primary DNS:** 172.24.38.2 (text input)
- Secondary DNS:** 172.24.38.2 (text input)
- Save Changes** (button)
- DNS Rebinding** section:
- DNS Rebinding Protection:** Enable (dropdown menu)
- Loopback Address:** Included (dropdown menu)
- Save Changes** (button)

At the bottom of the page, the copyright notice reads: © 2025 Sonim Technologies Inc. All Rights Reserved.

## SUBSCRIBER IDENTITY MODULE (SIM)

You can enable SIM Personal Identification Number (PIN) security to allow your device to connect to the Internet.

1. From the Web UI home screen, click **Settings > Advanced Settings > SIM**.
2. Enter your device's default PIN to enable SIM PIN security.



**NOTE:** Contact your service provider for the default PIN. Only your service provider has this information.

3. Click **Save Changes** to ensure the changes take effect.

The screenshot displays the Sonim Web UI interface. At the top, the 'sonim.' logo is on the left, and 'Logout' is on the right. Below the logo is a navigation bar with icons for Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings (highlighted in red), and Help. A sidebar on the left lists various settings categories, with 'Advanced Settings' highlighted in red. The main content area is titled 'Advanced' and has a breadcrumb trail: Manual DNS > SIM > Firewall > MAC Filter > IP Filter > Port Filter > Port Forwarding. The 'SIM' tab is active. The settings for SIM PIN security are as follows:

- PN operation: A dropdown menu set to 'Enable'.
- PIN code: An empty text input field.
- Remaining attempts: A text input field containing the number '3'.

At the bottom of the settings area is a black button labeled 'Save Changes'. The footer of the page reads '© 2025 Sonim Technologies Inc. All Rights Reserved.'

## FIREWALL

The Firewall tab allows you to enhance the security of your network connections by managing and configuring protective measures against unauthorized access and cybersecurity threats.

1. From the Web UI home screen, click **Settings > Advanced Settings > Firewall**.
2. Enable/disable the key firewall settings.
3. Click **Save Changes** to ensure the changes take effect.



**NOTE:** Firewall settings should be changed with caution as they may leave the device vulnerable to unauthorized access.

The screenshot shows the Sonim Web UI interface. At the top, there is a navigation bar with the Sonim logo on the left and a 'Logout' button on the right. Below the logo is a row of menu items: Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings (highlighted in red), and Help. On the left side, there is a sidebar menu with items: Software Update, Restore and Restart, Admin Settings, Device Settings, GPS, Power, About, and Advanced Settings (highlighted in red). The main content area is titled 'Advanced' and contains a sub-menu with options: Manual DNS, SIM, Firewall (highlighted in red), MAC Filter, IP Filter, Port Filter, and Port Forwarding. The Firewall settings are displayed as a list of toggle switches:

Firewall:	Enable
MAC Filter:	Disable
IP Filter:	Disable
Port Filter:	Disable
Port Forwarding:	Disable
VPN Pass Through:	Enable
WAN Port Png:	Disable

At the bottom of the settings area is a 'Save Changes' button. The footer of the page contains the text: © 2025 Sonim Technologies Inc. All Rights Reserved.

## MAC FILTER

You can define a list of devices that are either allowed or denied access to your Wi-Fi network using MAC address filtering.

1. From the Web UI home screen, click **Settings > Advanced Settings > MAC Filter**.



**NOTE:** You must first enable the **MAC Filter** within the **Firewall** settings before it can be utilized.

2. Select between either Status: Whitelist or Blacklist.
  - a. Whitelist will only allow devices with the selected MAC address to connect. If the whitelist is empty, users will not be able to access the Internet.
  - b. Blacklist will only deny devices with the selected MAC address from connecting to the internet.
  - c. e.g., "xx:xx:xx:xx:xx:xx."
3. Click the **Add** button, then enter the MAC address you wish to manage. Repeat step, as necessary.
4. Click **OK** to save your entry.
5. Click **Save Changes** to ensure the changes take effect.

sonim

Logout

Status Network Wi-Fi LAN/WAN Data Usage Messages Connections **Settings** Help

Software Update  
Restore and Restart  
Admin Settings  
Device Settings  
GPS  
Power  
About  
**Advanced Settings**

### Advanced

< Manual DNS SIM Firewall **MAC Filter** IP Filter Port Filter Port Forwarding >

Status:

- The 'Whitelist' will only allow devices with the specified MAC address(es) to connect to the Internet. If the 'MAC Filter' is enabled but the whitelist is empty, devices will not be able to access the Internet.  
- The 'Blacklist' will deny devices with the specified MAC address(es) from connecting to the Internet.  
- A MAC address must be specified in the format: 'xx:xx:xx:xx:xx:xx'.

MAC Address

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## IP FILTER

You can manage what IP traffic is allowed in and out of your network based on the rules you define.

1. From the Web UI home screen, click **Settings > Advanced Settings > IP Filter**.



**NOTE:** The **IP Filter** must be enabled in the **Firewall** settings before filtering can be utilized for Blacklisted or Whitelisted IP addresses.

2. Select between either Status: **Whitelist** or **Blacklist**.
  - a. **Whitelist:** Set the websites that users are allowed to access. If the whitelist is empty, users will not be able to access the Internet.
  - b. **Blacklist:** Set the websites that you do not want users to access.
  - c. The value range of LAN/WAN Port is 1-65535.
  - d. Settings will not take effect until the "OK" button is clicked.
3. Click the **Add** button, then enter the details of the IP Address you wish to manage. Repeat step, as necessary.
4. Click **OK** to save your entry.
5. Click **Save Changes** to ensure the changes take effect.

Status

Network

Wi-Fi

LAN/WAN

Data Usage

Messages

Connections

Settings

Help

Software Update

Restore and Restart

Admin Settings

Device Settings

GPS

Power

About

Advanced Settings

## Advanced

[Manual DNS](#) [SIM](#) [Firewall](#) [MAC Filter](#) [IP Filter](#) [Port Filter](#) [Port Forwarding](#)

Status:

Blocklist

- Whitelist: Set the websites that users are allowed to access. If the whitelist is empty, users will not be able to access the internet.
- Blocklist: Set the websites that you do not want users to access.
- The value range of LAN/WAN Port is 1-65535.
- Settings will not take effect until the "Save Changes" button is clicked.

LAN IP Address	LAN Port	WAN IP Address	WAN Port	Protocol	Status	Options
----------------	----------	----------------	----------	----------	--------	---------

Add

Save Changes

## PORT FILTER

You can select which programs (for example, HTTP, FTP, and email servers) can use the Mobile Hotspot to connect to the Internet.

1. From the Web UI home screen, click **Settings > Advanced Settings > Port Filter**.



**NOTE:** The **Port Filter** must be enabled in the **Firewall** settings before it can be utilized.

2. Define the type of ports required.
  - a. You can define your own applications and then enable or disable them as needed.
  - b. To define an application. You need to know the outgoing ports used by the application.
3. Click the **Add** button, then enter the details of the applications you wish to manage. Repeat step, as necessary.
4. Click **OK** to save your entry.
5. Click **Save Changes** to ensure the changes take effect.

The screenshot shows the Sonim mobile hotspot web interface. At the top, there is a navigation bar with the Sonim logo and a 'Logout' button. Below the navigation bar is a row of menu items: Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings (highlighted in red), and Help. The main content area is titled 'Advanced' and contains a sub-menu with 'Manual DNS', 'SIM', 'Firewall', 'MAC Filter', 'IP Filter', 'Port Filter' (highlighted in red), and 'Port Forwarding'. The 'Port Filter' section is active, displaying the text: 'Select the applications which you wish to allow.' Below this text are five checkboxes: 'Email(POP3, IMAP, SMTP)', 'FTP', 'HTTP', 'HTTPS', and 'TELNET'. At the bottom of the page, there is a table with columns: 'Application Name', 'Start Port', 'End Port', 'Protocol', 'Status', and 'Option'. Below the table is an 'Add' button. At the bottom right of the page is a 'Save Changes' button. The footer of the page reads: '© 2025 Sonim Technologies Inc. All Rights Reserved.'

## PORT FORWARDING

You can set up (for example, Web servers, FTP servers, email servers) specialized Internet applications on your networks.

1. From the Web UI home screen, click **Settings > Advanced Settings > Port Forwarding**.



**NOTE:** The **Port Forwarding** must be enabled in the **Firewall** settings before it can be utilized.

2. Manage and customize your IP addresses to send and receive data to both the LAN side and the internet side.
  - a. LAN IP Address: Designate the LAN IP address on the LAN to send the request to.
  - b. WAN Port: the port that will receive the request on the internet side.
  - c. LAN Port: The port that requests will be sent to on the LAN side.
  - d. Protocol: Choose to apply rule to TCP, UDP, or both.
  - e. Note: Settings will not take effect unless "OK" button is clicked.
3. Click the **Add** button, then enter the details of the LAN IP Address you wish to manage. Repeat step, as necessary.
4. Click **OK** to save your entry.
5. Click **Save Changes** to ensure the changes take effect.

Status



Network



Wi-Fi



LAN/WAN



Data Usage



Messages



Connections



Settings



Help



Software Update

Restore and Restart

Admin Settings

Device Settings

GPS

Power

About

Advanced Settings

## Advanced

< Manual DNS SIM Firewall MAC Filter IP Filter Port Filter **Port Forwarding** >

LAN IP Address: Designate the LAN IP address on the LAN to send the request to.

WAN Port: the port that will receive the request on the internet side.

LAN Port: The port that requests will be sent to on the LAN side.

Protocol: Choose to apply rule to TCP, UDP, or both.

Note: Settings will not take effect unless "Save Changes" button is clicked.

Name	WAN Port	LAN IP Address	LAN Port	Protocol	Status	Options
------	----------	----------------	----------	----------	--------	---------

Add

Save Changes

## DATA MANAGEMENT ZONE (DMZ) SETTINGS

You can allow an external network to connect to and communicate with the inside LAN devices through this WAN interface.

1. From the Web UI home screen, **click Settings > Advanced Settings >** (and then right arrow to reveal) **DMZ Settings**.

### Advanced

< Manual DNS SIM Firewall MAC Filter IP Filter Port Filter **Port Forwarding** >

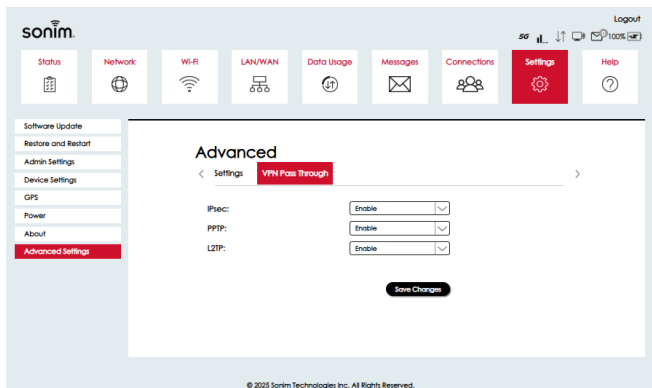
2. Click **Enable** to add the desired IP address to manage the DMZ settings.
3. Click **Save Changes** to ensure the changes take effect.

The screenshot displays the Sonim Web UI interface. At the top, there is a navigation bar with the Sonim logo on the left and a 'Logout' button on the right. Below the logo is a row of menu items: Status, Network, Wi-Fi, LAN/WAN, Data Usage, Messages, Connections, Settings (highlighted in red), and Help. A sidebar on the left contains a list of settings categories: Software Update, Restore and Restart, Admin Settings, Device Settings, GPS, Power, About, and Advanced Settings (highlighted in red). The main content area is titled 'Advanced' and shows 'DMZ Settings' selected. The 'DMZ status' is set to 'Disable' in a dropdown menu, and the 'DMZ IP address' field is empty. A 'Save Changes' button is located at the bottom right of the settings area. The footer of the page reads '© 2025 Sonim Technologies Inc. All Rights Reserved.'

## VPN PASSTHROUGH

Your device supports VPN passthrough. VPN passthrough enables VPN traffic to pass through the device's firewall, ensuring secure internet connections for remote work or accessing private networks while maintaining data privacy.

1. From the Web UI home screen, click **Settings > Advanced Settings >** (and then right arrow to reveal) **VPN passthrough**.



## Help

You can find frequently asked questions (FAQs) here, along with a QR code and a direct link to access the H705 site, which offers additional FAQs.

# PRODUCT SPECIFICATIONS

## General

Name	Sonim MegaConnect Mobile Hotspot
Model	H705
Approvals	FCC (US) FCC ID: WYPH700B
Weight	448g, 15.8oz
SIM	4FF removable
Dimension	137x100x29.65mm, 5.39"x3.94"x1.17"
Connectivity	3G/4G/5G
Bands	5G: n1, n2, n3, n5, n7, n13, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n71, n77, n78 4G LTE: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B20, B25, B26, B28, B29, B30, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71 3G UMTS: I, II, IV, V, VIII
Wireless Network (Wi-Fi mode)	Wi-Fi 6 (802.11 a/b/g/n/ac/ax) 2.4GHz & 5GHz dual concurrent
Location services	GPS L1 & L5 / NMEA 2000 / GPS over Wi-Fi
Ethernet	1 x RJ 45 (2.5 Gbps)
USB interface	USB C 3.1
Display	2.4 Inch, 64K color TFT LCD

Battery Size	8000 mAh Li-ion
Power Sensing	Auto Power ON with power detection
Time for Full charge	3 hours (when not in use)
Usage without battery installed	Yes, when connected to wall power.
External Antenna	4x TS-9 antenna ports (2x Cellular, 1x HPUE, 1x GPS)
Device Protection	IP53, MIL-STD-810H
Operating Temperature	-20°C (-4°F) to 55°C (131°F)
Chipset	Qualcomm® SDX75-1
Memory	RAM= 1GB, FLASH=1GB

# WIRELESS COMMUNICATION



## **WARNING!**

Data can occasionally be lost or delayed due to the properties of wireless transmission and reception.

Data loss can occur due to variations in radio signal strength resulting from changes in the characteristics of the radio transmission path. Although data loss is rare, the environment in which you operate the modem may 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 MegaConnect Mobile Hotspot device to send or receive such data.

# HAZARDOUS LOCATION USAGE

Do not operate the Mobile Hotspot in an environment that might be susceptible to radio interference, resulting in danger.<sup>2</sup> 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 using your device on an airplane, follow the airline's instructions and either power your device off or put the mobile hotspot in Airplane Mode as directed. 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 from controlling and operating the vehicle. In some jurisdictions, operating such communications devices while in control of a vehicle is an offense.

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<sup>2</sup> U.S. Food and Drug Administration. "Magnets in Cell Phones and Smart Watches May Affect Pacemakers and Other Implanted Medical Devices." Last modified May 13, 2021. <https://www.fda.gov/radiation-emitting-products/cell-phones/magnets-cell-phones-and-smart-watches-may-affect-pacemakers-and-other-implanted-medical-devices>.

Federal Communications Commission. "Wireless Devices and Health Concerns." Last modified November 4, 2020. <https://www.fcc.gov/consumers/guides/wireless-devices-and-health-concerns>.

# FCC SAR WARNING

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 Commission 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 ensure 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 for 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 the Grantee code and H700B for the Product code on the FCC ID Search Form.

# FCC STATEMENT

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This product may not cause harmful interference.
2. This product must accept any interference received, including interference that may cause undesired operation.

## NOTE:

This product has been tested and found to comply with the limits for a Class B digital device as specified in Part 15 of the FCC Rules. These limits are designed to protect reasonably against harmful interference in a residential installation. This product generates and can radiate radio frequency energy. If not installed and used according to the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Suppose this product causes harmful interference to radio or television reception, which can be determined by turning the product off. In that case, 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 the receiver.
- Connect the equipment to an outlet on a circuit that is different from the one to which the receiver is connected.
- Consult with the dealer or an experienced radio or TV technician for assistance.

Sonim or the manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to the product. Such changes could void the user's authority to operate the equipment.

Data transmission is always initiated by software, passed down through the MAC, digital and analog baseband, and finally to the RF chip. The MAC initiates several special packets, the only way the digital baseband portion will turn on the RF transmitter, which then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the packets mentioned above is transmitted. In other words, this device automatically discontinues transmission in case of either the absence of information to transmit or operational failure.<sup>3</sup>

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<sup>3</sup> 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.

# BATTERY SAFETY WARNING

## BATTERY IEEE1725 SAFETY STATEMENT<sup>4</sup>



Do not disassemble or open crush, bend or deform, puncture or shred.



Do not modify or re manufacture, 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 by the system per CTIA Certification Requirements for Battery System Compliant 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.

<sup>4</sup> IEEE Standards Association. "IEEE Standard for Rechargeable Batteries for Mobile Phones." Last updated August 23, 2021. <https://standards.ieee.org/ieee/1725/7238/>.

# ADDITIONAL BATTERY INFORMATION

The current battery level, as well as the charging status, is displayed in the upper right-hand corner of the screen.

## Tips To Extend the Battery Life

You can optimize battery power by utilizing two options within the Settings menu: Screen Timeout and 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 remain awake until the battery is depleted, even if the mobile hotspot is not connected to any devices.

At any time, pressing the Power button will activate the mobile hotspot, enabling you to connect devices and use them.

If you are traveling and do not have access to mobile data or a Wi-Fi network, switch to Airplane mode. To access Airplane Mode, go to SETTINGS > AIRPLANE MODE. The default mode is OFF (the slider will be on the left-hand side and black).

**To turn Airplane Mode ON**, touch the slider. The button will slide to the right and change color to green.

**To turn Airplane Mode OFF**, touch the slider, which will turn black, and the button will move to the left-hand side.



**NOTE:** With Airplane Mode enabled, your hotspot will not receive a cellular signal and therefore will not have internet access.

## 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% and 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 between 50° and 64° F (10° to 18° Celsius) and keep the relative humidity between 40% and 50%.
- Recharge the battery once every 3 months, using the original Sonim wall charger and charging cable.

## Battery Usage

Your Sonim MegaConnect 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](mailto:support@sonimtech.com). For FirstNet customers, please contact 1-855-FIRST-SONIM (1-855-347-7876) or email us at [firstcare@sonimtech.com](mailto:firstcare@sonimtech.com).

Use only a Sonim-certified mobile hotspot battery for the Sonim MegaConnect. Using other batteries may permanently damage your device, 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.

## **BATTERY AND CHARGING USAGE**

- a. Only the Sonim BAT-08000-01S Battery can be used for the MegaConnect host.
- b. Use only the Sonim inbox accessory charger model UF82PD3001 and the corresponding USB cable.

## **DISPOSAL OF BATTERY**



Recycle used batteries per local regulations. Please check local regulations for the proper disposal of batteries. Batteries should never be placed in municipal waste. If available, use a battery disposal facility.

# SAFETY GUIDELINES

## PERSONAL MEDICAL DEVICES

Mobile hotspots can interfere with the operation of cardiac pacemakers and other implanted medical devices. Please avoid placing the mobile hotspot over the pacemaker, for example, laying it on your chest. Maintaining a minimum distance of 15 cm (6 inches) between the mobile hotspot and the pacemaker limits the risk of interference. If you suspect interference is occurring, immediately turn off your mobile hotspot and contact your cardiologist for further information. For other medical devices, consult your physician and the device manufacturer. Comply with instructions to switch off the mobile hotspot or deactivate the RF transmitter when required, especially when posted in hospitals and airplanes. Equipment used in these locations may be sensitive to radio waves emitted from the device, potentially affecting their operation negatively. Also, observe restrictions at gas stations or other areas with flammable atmospheres or when close to electro-explosive devices.

## 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 components, such as the SIM card, which can be easily detached. Additionally, a battery door removal tool accessory is included in the packaging, which can create a choking hazard.

## AVOID HIGH TEMPERATURES

Leaving the device in hot or cold places, such as a closed car in summer or winter, reduces the battery's capacity and lifespan. For optimal results, use the device within the temperature range of  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $131^{\circ}\text{F}$ ). A device with a hot or cold battery may temporarily stop working, even when the battery is fully charged. Battery

performance is particularly limited in temperatures well below freezing. The Sonim MegaConnect is designed to work in the following ambient temperature ranges:

In MegaRange High Power mode: -20°C (-4°F) to 35°C (95°F)

In Standard Power mode: -20°C (-4°F) to 55°C (131°F)

If the temperature exceeds 35°C (95°F) while in MegaRange High Power mode, the device will automatically drop down to Standard Power mode.

If the temperature exceeds 55°C (131°F), the device will shut down to prevent damage to the device.

Using the device regularly in environments that exceed the specified temperatures can result in a decreased product life. Note that usage in vehicles is only recommended in situations where the temperatures can be maintained within the specified ranges.

## **DISCLAIMER**

**It's normal for your MegaConnect device to warm up during operation.**

The device may become noticeably warmer when in MegaRange mode (indicated on your display), supporting multiple connected devices, or transferring data at high speeds. The vent holes (please see [page 9](#)) on the side of the device can become hot, indicating that the cooling system is actively managing the device's temperature as designed. Always handle your device with care, especially when in MegaRange mode.

# ADDITIONAL INFORMATION

## Your wireless device and third-party services.

AT&T is the mobile carrier associated with this wireless device, but many services and features offered through this device are provided by or in conjunction with third parties. AT&T is not responsible for your use of this device or any non-AT&T applications, services, and products, including any personal information you choose to use, submit, or share with others. Specific third-party terms and conditions, terms of use, and privacy policies apply. Please review all applicable terms, conditions, and policies carefully prior to using this wireless device and any associated application, product, or service.

# BASIC TROUBLESHOOTING & FAQ

## **I forgot my Wi-Fi password.**

On the touchscreen, tap **Wi-Fi Info** to view the SSID and password of your mobile hotspot.

On the Admin web UI, go to <http://sonim.mobilehotspot>. Log in and navigate to the Status page; your SSID and passwords will be listed on the left-hand side under Wi-Fi.

## **How can I change the Wi-Fi name and password?**

Log in to the Admin web UI, <http://sonim.mobilehotspot>.

## **I forgot my Web UI Admin password.**

The user or admin can perform a factory reset to restore the Web UI Admin PW to its default state. However, the device administrator can disable the ability to reset this password via a factory reset, thereby preventing the user from gaining access.

If the admin disables the ability to perform a factory reset and forgets the admin password, then there is no way to access the device.

## **My device will not connect to the internet. What is wrong?**

All Sonim mobile hotspots require an activated SIM card to establish an internet connection. Contact your service provider to confirm that your SIM card is active.

## **Can I make my Sonim hotspot perform faster?**

Sonim mobile hotspots are configured by default to provide the fastest possible connection based on network and signal conditions.

## **Can I use my device in another country?**

The Sonim MegaConnect mobile hotspot will work in other countries IF your rate plan allows international roaming. Please contact your service provider to confirm your account is correctly set up to allow international roaming, along with the Terms and Conditions that apply.

### **Where can I find my passwords for my mobile hotspot?**

Your SSID and passwords can be found on the main menu and clicking on Wi-Fi Info. Scroll through the three screens to find the SSID and password for each network name.

### **How can I check to see if I am on the current software on my hotspot?**

From the Web-UI go to SETTINGS > SOFTWARE UPDATE > Check for Update.