

# SHG

Sugarland Holdings Group

## 5 Band WIRELESS 4G/LTE Consumer Mobile 50dB Booster

### USER MANUAL



Model # CMB- 5B215    FCC ID: 2ADWV-CMB-5B215    IC: 9176A-CMB-5B215

Proudly Designed Developed & Manufactured in the United States



Sugarland Holdings Group LLC has a sincere belief, and appreciates the FCC and the network operators' commitment to helping the booster manufacturers create standards that would protect the carrier's networks so the booster would provide superior service

Sugarland Holdings Group LLC is proud to not manufacture boosters prematurely for profit or release a booster and only until we were 100% confident the booster would provide the customer with excellent reception and fast data speeds for up to twelve users at a time.

All Sugarland Holdings Group LLC products are designed and manufactured to the highest standards possible, which will exceed your expectations while using your Consumer Mobile 50dB Wireless 4G/LTE Booster. By following the simple instructions within in this manual, you will be assured not to cause adverse effects on any carrier's network and receive the strongest signals possible. Sugarland Holdings Group LLC designs all of its products for simple setup and ease of use. We hope you will enjoy all of our products.

The Sugarland Holdings Group

## Installation Manual Contents

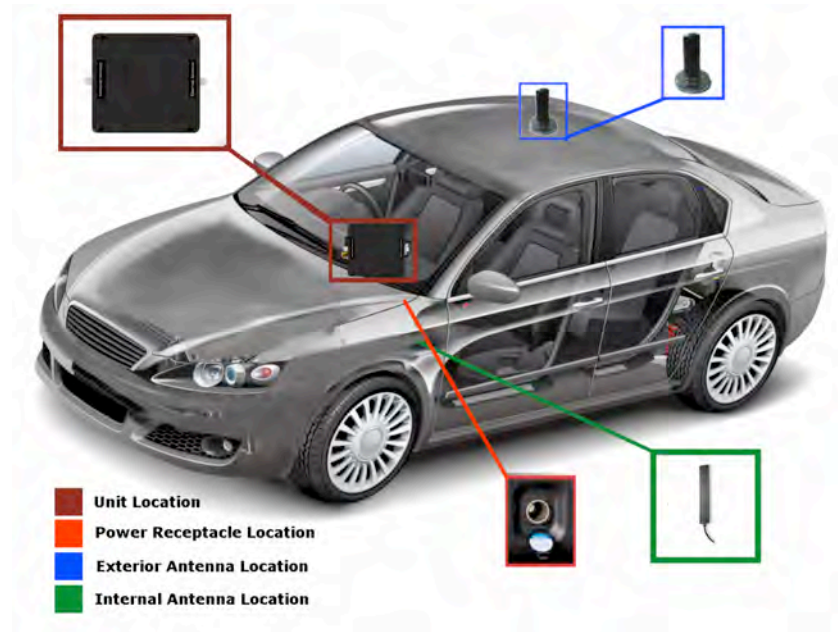
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### WARNINGS USING THIS CONSUMER DEVICE

- BEFORE USE, you MUST REGISTER THIS DEVICE with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network.
- If you are unsure, contact your provider.
  - You MUST operate this device with approved antennas and cables as specified by the manufacturer. Antennas MUST be installed at least 20cm (8 inches) from any person.
- You MUST cease operating this device immediately if requested by the FCC or a licensed wireless service provider.
- WARNING: E911 location information may not be provided or may be inaccurate for calls served by using this device. You are cautioned that changes or modifications not expressly approved by the FCC will void your authority to operate the equipment and will make your booster inoperable.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference (2) this device must accept any interference received, including interference that may cause undesired operation.
- FCC regulations require that only antennas connected to this device during FCC testing be used and cannot exceed a certain dBi rating. Any user changing antennas to a higher dBi rating than included in your purchase will violate FCC regulations, and will result in your warranty being voided and will make your booster inoperable.
- No exterior antenna can be used with this Booster that is not listed on this manual will violate FCC regulations, and will result in your warranty being voided and will make your booster inoperable.
- No Interior antenna can be used with this Booster that is not listed in this manual will violate FCC regulations, and will result in your warranty being voided and will make your booster inoperable.
- The use of any power supply other than the one supplied by Sugarland Holdings Group may damage your Booster and will void your warranty and will make your booster inoperable.

The term "IC" before the radio certification number indicates that the Industry Canada technical specifications were met.  
The term "FCC" before the radio certification number indicates the Federal Communication Commission technical specifications were met.

## WIRELESS BOOSTER INSTALLATION OVERVIEW



Before installing your new Consumer Mobile 50dB Wireless 4G/LTE Booster, We recommend you need to read the entire instruction guide and follow all of the instructions listed in the manual.

There are important safety and operating information guidelines to insure proper performance of your device. Failure to do so could be hazardous to you and the surrounding networks you are using. This could result in damaging your device, and void your warranty and be in violation with the FCC and may make your booster inoperable.

After reading the entire instruction manual and before actually installing your Consumer Mobile 50dB Wireless 4G/LTE Booster, we strongly recommend that you search out, measure and make certain each component of the overall system will work. This will avoid unnecessary problems with your installation (i.e. reinstalling a component, having to rewire a component etc.), and will result in a positive and efficient experience with this device.

## DECIDING ON A PROPER LOCATION FOR YOUR WIRELESS BOOSTER



Before selecting a suitable location for your new Sugarland Holdings Group Consumer Mobile 50dB Wireless 4G/LTE Booster inspect the three items needed for installation. There are three cable lengths you must be aware of, as the wireless Booster must be located within the cable lengths of the supplied items. Extending any cable length is prohibited and will result in your warranty being voided, violate FCC regulations, and will make your booster inoperable.

1. 10ft Interior Antenna cable
2. 12ft Exterior Antenna Mount Base cable
3. 4ft Power Cable

### **WARNING**

Over tightening the antenna cable connector to the Booster may damage the Booster thus voiding your warranty and make the booster inoperable.

## EXTERNAL ANTENNA INSTALLATION



This Consumer Mobile 50dB Wireless 4G/LTE Booster utilizes antennas that requires a horizontal separation of a minimum of ten (10ft.) feet and a minimum vertical separation of six (6ft.) feet. The external magnetic mount antenna MUST have a minimum of 180-degree line of sight with a minimum of ten (10") inches above any obstructions.

1. Select a location on top of your vehicle toward the rear to place the magnetic mount antenna base.
2. Before placing the magnetic mount antenna base on the roof of your vehicle, make sure the magnetic mount antenna cable can reach your Consumer Mobile 50dB Wireless 4G/LTE Booster.
3. The external magnetic mount antenna base must be placed on the most metal possible, as the more metal the external antenna is on the better the performance of the external antenna.
4. Run the magnetic mount antenna cable to the Consumer Mobile 50dB Wireless 4G/LTE Booster. Use extreme caution when using staples or any other fasteners to secure the cable and not to puncture the cable as it will cause the Consumer Mobile 50dB Wireless 4G/LTE Booster to cease functioning properly and power off.
5. Hand tighten the external magnetic mount antenna cable to the Consumer Mobile 50dB Wireless 4G/LTE Booster at the connector labeled EXT-ANT.

### **WARNING**

Over tightening the cable connector to the Booster may damage the Booster thus voiding your warranty and make your booster inoperable.

## EXTERNAL MOBILE ANTENNA INSTALLATION FOR AUTOMOBILES & SMALL TRUCKS



- 1) Corner of Front Bumper
- 2) Corner of Back Bumper
- 3) Middle Top of Roof
4. On Either Side Mirror

1. This consumer Mobile 50dB Wireless 4G/LTE Booster utilizes antennas that require a horizontal separation of a minimum of eight (8ft.) feet and a minimum vertical separation of four (4ft.) feet. The external magnetic mount antenna MUST have a minimum of 180-degree line of sight with a minimum of ten (10") inches above any obstructions.

2. Select a location on top on the roof, side mirrors or back of your RV or large truck.

3. Before placing the external Trucker or Omni antenna on the outside of your RV or large truck, make sure the antenna cable can reach your Consumer Mobile 50dB Wireless 4G/LTE Booster.

4. The external Trucker or Omni antenna does not require a ground plane.

5. Run the Trucker or Omni antenna cable to the Consumer Mobile 50dB Wireless 4G/LTE Booster. Use extreme caution when using staples or any other fasteners to secure the cable and not to puncture the cable as it will cause the Consumer Mobile 50dB Wireless 4G/LTE Booster to cease functioning properly and power off.

6. Hand tighten the external Trucker or Omni antenna cable to the Consumer Mobile 50dB Wireless 4G/LTE Booster at the connector labeled "EXT-ANT."

### **WARNING**

Over tightening the antenna cable connector or extending cable length could result in damaging your device, void your warranty and be in violation with FCC and may make your booster inoperable.

## INTERIOR ANTENNA INSTALLATION



The Consumer Mobile 50dB Wireless 4G/LTE Booster utilizes an interior antenna that require a horizontal separation of a minimum of ten (10ft.) feet and a minimum vertical separation of six (6ft) feet. The interior antenna must be installed no further than ten (10ft) feet from the device.

1. Select a suitable location inside your vehicle to place the antenna making sure the cable is able to your Consumer Mobile 50dB Wireless Booster.
2. Remove the adhesive protective cover on the back of the internal antenna making sure that the antenna is pointed towards the inside of your vehicle and then firmly press the antenna to the firewall.
3. Run the magnetic mount antenna cable to the Consumer Mobile 50dB Wireless 4G/LTE Booster. Use extreme caution when using staples or any other fasteners to secure the cable and not to puncture the cable as it will cause the Consumer Mobile 50dB Wireless 4G/LTE Booster to cease functioning properly and power off.
4. Hand tighten the internal antenna cable to the Consumer Mobile 50dB Wireless 4G/LTE Booster at the connector labeled EXT-ANT.

### **WARNING**

Over tightening the antenna cable connector to the Booster may damage the Booster thus voiding your warranty and make your booster inoperable.



## INTERIOR MOBILE ANTENNA INSTALLATION FOR RV'S & LARGE TRUCKS



- 1) Middle of the Ceiling
- 2) On the Front Wall Facing Back
- 3) On the Back Wall Facing Forward
4. Patch Antenna (like a car)

The Consumer Mobile 50dB Wireless 4G/LTE Booster utilizes an interior antenna that require a horizontal separation of a minimum of eight (8ft.) feet and a minimum vertical separation of six (6ft) feet. The interior antenna must be installed no further than ten (8ft) feet from the device.

1. Select a suitable location inside your vehicle to place the antenna making sure the cable is able to your Consumer Mobile 50dB Wireless Booster.
2. When you are installing a pannel, omni or patch antennas make sure that the antenna is pointed towards the inside of your vehicle and when using an omni antenna have a minimum of a 180-degreeline of sight in you vehicle.
3. Run the pannel, omni or patch antenna cable to the Consumer Mobile 50dB Wireless 4G/LTE Booster. Use extreme caution when using staples or any other fasteners to secure the cable and not to puncture the cable as it will cause the Consumer Mobile 50dB Wireless 4G/LTE Booster to cease functioning properly and power off.
4. Hand tighten the internal antenna cable to the Consumer Mobile 50dB Wireless 4G/LTE Booster at the connector labeled EXT-ANT.

### **WARNING**

Over tightening the antenna cable connector or extending cable length could result in damaging your device, void your warranty and be in violation with the FCC and may make your booster inoperable.

## POWERING UP YOUR BOOSTER



Areas Your Vehicle's Power Receptacle May be located in:

- 1) Below the radio or console control module
- 2) Between the passenger and driver seats
- 3) Inside the center console compartment
- 4) On the backside of the center console

1. Plug the Mini USB power adapter into your Consumer Mobile 50dB Wireless 4G/LTE Booster at the port labeled " USB PWR Port" into your vehicle's 12-volt power receptacle. Then plug the power adapter into vehicle's 12-volt power receptacle.

2. Locate the switch labeled start/reset switch and press the Start/Reset switch.

3. The green LED light indicates your Consumer Mobile 50dB Wireless 4G/LTE Booster has powered and is operating properly.

4. If your red LED light turns on your Consumer Mobile 50dB Wireless 4G/LTE Booster, your antennas do not have adequate separation and separation must be increased. Immediately power down the Consumer Mobile 50dB Wireless 4G/LTE Booster by unplugging the power cable and increase the separation between the external and internal antennas.

5. Once you have increased the antenna separation on the Consumer Mobile 50dB Wireless 4G/LTE Booster repeat step 4 and repeat if necessary until your power LED turned green.

## UNDERSTANDING YOUR WARRANTY

Sugarland Holdings Group LLC. Warrants for a period of one (1) year that its products are free from any defects in material or workmanship. If Sugarland Holdings Group finds a defect Sugarland Holdings Group agrees to repair or replace the product at its own discretion.

The original owner must have registered this product with Sugarland Holdings Group within 30 days of purchase. Failure to register your Consumer Mobile 50dB Wireless 4G/LTE Booster will void all warranty claims.

To return a product, an RMA number must be obtained by contacting customer support. Sugarland Holdings Group will not accept returns unless all parts, packaging, accessories and the original receipt (copies not accepted) from where you purchased your product are included. Failure to comply with return procedures will result in the return being rejected.

If the product has been modified, abused or tampered with, the warranty is voided. Any use of non Sugarland Holdings Group antennas, cables or other accessories will void your warranty.

Disclaimer: All information included in this document by Sugarland Holdings Group is believed to be complete and accurate. Sugarland Holdings Group assumes no responsibility or liability for any business or personal losses arising from its use.

Mobile Exterior Antenna KittingMobile Interior Antenna Kitting

- 1.EMM- 6321 Magnetic Mount w/12ft Cable
- 2.ELPN - 5822 Low Profile w/ 12 ft Cable
- 3.EWM - 4323 Window Mount w/10ft Cable
- 4.E4MM - 6324 Magnetic Mount V2 w/12 ft cable
- 5.EHPMM - 5856 HP Low Profile w/12 ft Cable
- 6.ETA - 3162 Trucker w/ 10ft Cable
- 7.STA - 3122 Trucker V2 W/15ft Cable (RV)
- 8.O8A - 8883 Omni V3 w/ 25ft cable (RV)
- 9.O18A - 8889 Omni V2 w/ 25ft cable (RV)
- 10.O32A -8882 Omni w/ 25ft cable (RV)

1. IBA - 0321 Blade w/ 10ft Cable
2. IPA - 0544 Patch w/10 ft Cable
3. ILPOA - 1954 LP Omni w/25ft Cable (RV)
4. IDC -7972 Omni
5. IDA - 9953 Dome w/25ft Cable (RV)
6. IDA2 -9969 Dome v2 w/25ft Cable (RV)
7. IPA - 8734 Panell w/ 25ft Cable (RV)
8. IPA- 0544 Panel V2 w/ 25ft Cable (RV)
9. IDA - 9953 Dome w/ 25ft Cable
10. IDA2 - 9969 Dome V2 w/ 25ft Cable (RV)

**Technical Specifications**

Uplink	698 - 716	776 - 787	824 - 849	1850 - 1910	1710 - 1755
Downlink	728 - 746	746 - 757	869 - 894	1930 -1990	2110 - 2155
Modulation Type	LTE	LTE	LTE GSM HSDPA EVDO	LTE HSDPA	CDMA
FCC Certification	2ADWV-CMB215				
IC Certification	9176B-CMB215				
Uplink Gain	49.47 dB				
Downlink Gain	49.10 dB				
Uplink Output Power	26.51 (dBm)				
Downlink Output Power	16.01 (dBm)				
VSWR (Noise Figure)	≤ 2.49				
AC Power	110 -240 VAC 50-60 Hz				
DC Power	12V 2A				
Operating Temperature	(-10°F) - (175°F)				
Antenna Impedance	50 Ω				
Dimensions	5" x 5"				
Weight	15 Ounces				
Isolation	>90				
Connectors	SMA Female				