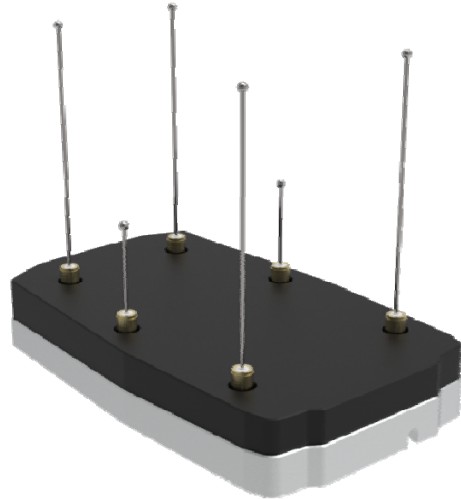


Step4: Connect the System

1. Connect six antennas on the booster



2. Connect the booster to the "Input" port of splitter by cable

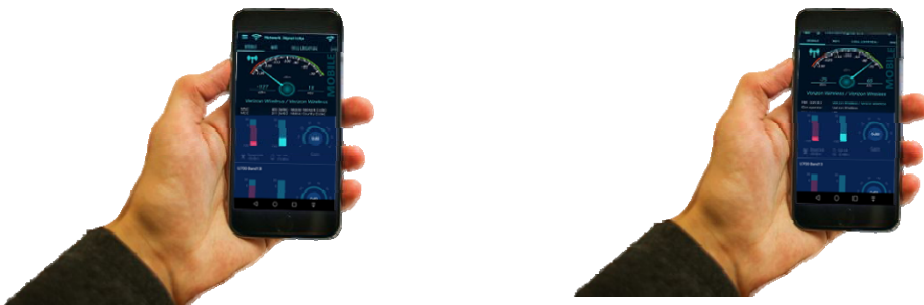


Connect the inside antenna and Plug in the power adaptor and connect it to the nearest power outlet (surge protector recommended).



Step5: Evaluate the Effects

- Now that all of the components of the booster are in place, and the booster is powered on, it's time to check the performance. If everything checks out, return to steps 2 and 3 to finalize installation. Here's what you should look for:
 - 1.) Run a signal strength/speed check. Test the signal strength with the booster off, then re-test the signal in the same location after you plug-in the power supply. You should have a stronger signal. You can access the signal strength through the settings menu of your phone (a negative number in dBm) or download a speed test App. Remember that a stronger signal means the dBm is closer to zero. (Refer to the diagram on page 3)
 - 2.) When you plug-in the power adaptor, the booster runs a self-diagnostic as it powers on. Use the LED light on the back of the main inside antenna to interpret the results. If everything is connected properly, and there is an adequate power supply, the LED light should stay continuous green.
- If something is wrong, refer to the "Quick Troubleshooting" section at the end of the manual. Otherwise, finalize the installation. Happy boosting, happy trails!



Decibel Gain vs. Power Amplification/Distance/Coverage area

Decibel Gain	Power Amplification (times)	Distance Enhance (times)	Coverage Enhance (times)
6	4x	2x	4x
10	8x	3x	9x
20	64x	10x	100x

Note: Decibel Gain and Power Amplification may vary depending on the specifics of your RV inside. Different materials and other obstructions in your home will result in different outcomes.

Quick Trouble shooting

Correct functioning:

- Power Light should be solid green
- The lights on the front panel indicate the condition of the booster. Every time the booster is powered on, all of the lights will be green in color for several seconds then off. This means the booster has passed the self check and is in good condition..



Power Light

Incorrect Functioning: *(Please see the Troubleshooting Guide for further details)*

- If any of the lights on the front panel are flashing in green then off/continue flashing/solid green, it means that self oscillation is occurring. You must switch off the booster and check the outside and inside antennas immediately. Make sure you have followed the recommended installation process and check each step carefully. Refer to Self Oscillation section for more details of minimum required separation distance, antennas installation. If you can not fix the problem please contact the technical support or the reseller.

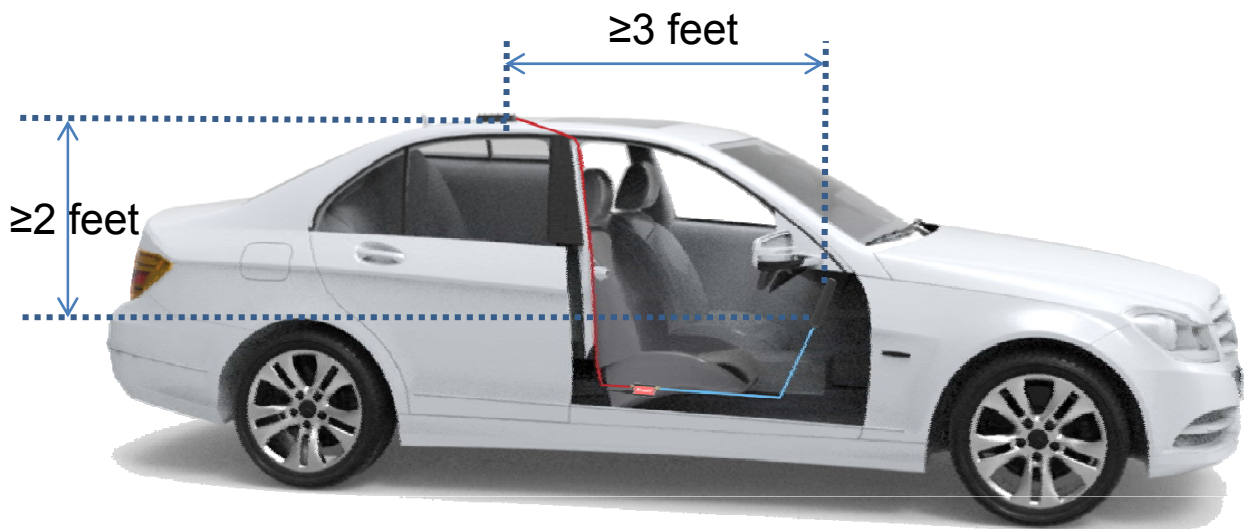
SolidRF Technical Support: Support@SolidRF.ca

Trouble Shooting: No Signal Improvement

Step 1. Check power. Ensure the indoor unit is plugged in and the LED Power Light is green.

Trouble Shooting: No Signal Improvement

Step 4. Double check the location of outdoor and indoor units. Make sure that the Minimum Separation Requirements have been met. Make sure that the outside antenna is not pointed towards the inside antenna.



Minimum Required Separation Distance Between Indoor and Outdoor Unit:

Horizontal Distance = 3 feet (1 meter)

Vertical Distance = 2 feet (0.6 meter) (As far as possible)



Step 5. Check incoming signal level at outdoor unit position. Usage of a booster is not recommend when the outdoor signal is less than $-110\text{dbm}(3\text{G}/1\text{x})$ or $-120\text{dBm}(4\text{G}/\text{LTE})$.

Technical Specification

Frequency (MHz)		LTE (band 12/17)	LTE (band 13)	Cellular (band5)	PCS (band2/25)	AWS (band 4)
	Uplink		698-716	776-787	824-849	1850-1915
Downlink		728-746	746-757	869-894	1930-1995	2110-2155
Noise figure	<5dB					
In-band Flatness	<8dB					
Weight	0.7Kg					
EIRP	≤1W					
Gain adjustment	20dB					
Impedance	50 ohm					
Operating temperature	-5° ~60°					
Current	≅ 1.5A(9V/12V DC)					
Dimension(mm)	155*125*25					

WARRANTY



The booster is covered under a three-year product warranty for failures or defects that result from craftsmanship and/or materials. Dated proof of purchase should be retained for use in warranty cases. Contact the retailer/reseller directly with any warranty issues, or alternatively contact the manufacturer in cases where the reseller is no longer available to handle warranty claims. In cases where the reseller is unavailable, the product may be returned to the manufacturer at the consumer's expense, with a dated proof of purchase and a return authorization letter which can be attained by contacting SolidRF.

This warranty does not apply to any signal booster components determined by SolidRF to have been subjected to misuse, abuse, neglect, tampering, or mishandling that result in damages to the physical or electronic properties of the product. Refurbished products that have been recertified to conform to product specifications may be used for product replacements.

DISCLAIMER: The information provided by SolidRF is believed to be complete and accurate, to the best of our knowledge. However, no responsibility is assumed by SolidRF for any business or personal losses arising from the use of the information herein contained, or for any infringements of patents or other rights of third parties that may result from its use.

Warnings and Recommendations

- ⚠ Warning: This consumer booster is for Consumer use only.
 - ⚠ Warning: Unauthorized antennas, cables, and/or coupling devices are prohibited by FCC regulations. Please contact FCC for details: 1-888-CALL-FCC.
 - ⚠ Warning: Outside antenna orientation must be back side of inside antenna is to prevent the indoor antenna receiving the signal emitted by outside antenna. Otherwise it will cause self-oscillation of booster.
 - ⚠ Warning: RF safety, any antenna used with this device must be located at 20 cm (8 inches) away from persons or by bystanders.
 - ⚠ Warning: It will damage the mobile device and the booster if connect them with a cable directly.
 - ⚠ Warning: Use the power supply provided by SolidRF only. Other power supplies may cause damage of the booster.
-
- ⚠ Warning: Never point the front of a directional antenna toward the inside antenna. Verify that both the outside antenna and the inside antenna are connected to the booster before powering up the booster .

(EN) RF Exposure: The manufacturer's rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuating at the output of the device.

(FR) Exposition RF: La puissance de sortie nominale du fabricant de cet équipement est pour le fonctionnement d'une seule porteuse. Pour les situations où plusieurs signaux de porteuse sont présents, la note devrait être réduite de 3,5 dB, en particulier lorsque le signal de sortie est rayonné et peut causer des interférences aux utilisateurs de bande adjacents. Cette réduction de puissance doit se faire au moyen d'une puissance d'entrée ou d'une réduction de gain et non pas par un atténuateur à la sortie du dispositif.

(EN) This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

(FR) Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

(EN) This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 8 inches (20 cm) to maintain compliance with the General Population limits.

(FR) L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS -102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de 8 pouces (20 cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition au grand public.

Description of network protection features:

This booster including safeguards to protect the cellular network from interference. Each Signal Booster is individually tested and factory set to ensure FCC compliance.

1. The Signal Booster cannot be adjusted without factory reprogramming or disabling the hardware.
2. The Signal Booster will amplify, but **ONLY** incoming and outgoing signals in order to increase coverage of authorized frequency bands.
3. If the Signal Booster is not in use for five minutes, it will reduce gain until a signal is detected.
4. If a detected signal is too high in a frequency band, or if the Signal Booster detects an oscillation, the Signal Booster will automatically turn the power off on that band.
5. For a detected oscillation the Signal Booster will automatically resume normal operation after a minimum of 1 minute. After 5 times consecutive such automatic restarts, if the detected oscillation still remains, any problematic bands are permanently shut off until the Signal Booster has been manually restarted by reconnecting power supply to the Signal Booster.
6. Noise power, gain, and linearity are maintained by the Signal Booster's microprocessor.

This is a CONSUMER device

BEFORE USE, you **MUST REGISTER THIS DEVICE** with your wireless provider and have your provider's consent. Most wireless provider 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 antenna and cables as specified by the manufacturer.

Antennas **MUST** be installed at least 20cm (8inches) 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.

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Contact information for providers

A subscriber must have the consent of a wireless provider to operate a consumer signal booster. Please register your booster with your wireless service provider, refer to contact information for providers:

Sprint:

signalbooster@sprint.com

T-Mobile:

www.T-Mobile.com/BoosterRegistration

<https://support.t-mobile.com/docs/DOC-9827>

Verizon:

<http://www.verizonwireless.com/wcms/consumer/register-signal-booster.html>

AT&T:

<https://securec45.securewebsession.com/attsignalbooster.com/>

U.S. Cellular:

<http://www.uscellular.com/uscellular/support/fcc-booster-registration.jsp>

Metro PCS

<https://www.metropcs.com/support/signal-booster>

Install the indoor antenna according to the minimum service distance of the antenna model below.

Inside server antenna model	Minimum separation distances D (m)
ANT010901、ANT010701、ANT050701	0.55
ANT060302、ANT040301、ANT080301、ANT080302、ANT060301、SR-21300100	
ANT070101、ANT060303	0.2

Each signal amplifier is tested with an RF test instrument and factory set to ensure compliance with FCC requirements.

The signal amplifier only works in the frequency band authorized by the FCC, and the signals in the non-FCC authorized frequency band will not be amplified.

If the MCU does not detect the signal amplified by the amplifier in 265 seconds, the corresponding signal frequency band reduces the gain, reduces the power consumption of the device, and switches to the standby state until the signal is detected, and then quickly switches to the normal state.

If the signal of the signal tower is detected to be too large, the MCU automatically controls the transmission to reduce the gain of the uplink and downlink to ensure that the gain, intermodulation and noise power meet the factory requirements.

↵

If the output signal of the amplifier is detected to be too large, the MCU automatically controls the input signal (AGC) to ensure compliance with the factory settings.

↵

If self-excitation is detected, or the signal is too large to exceed the control range of the numerically controlled attenuator, the MCU will restart the device once and check whether it is normal again.

If it is still abnormal, the MCU permanently turns off the power of the self-excited frequency band until the signal amplifier is turned off or manually restarted.

In order to guarantee your rights, changes or modifications not expressly approved by SolidRF may cause the equipment to malfunction.

Antenna Kitting Information

Component	Prod No. Description	Gain/Loss					Manufacturer
		698-746 MHz	746-787 MHz	824- 894MHz	1850-1995MHz	1710- 1755MHz\2110- 2155MHz	
Outside Antenna	ANT-LF-W1.5	1.5dBi	1.5dBi	1.5dBi	\	\	Shenzhen Dachi Communications Co., Ltd.
Outside Antenna	ANT-HF-W1.5	\	\	\	1.5dBi	1.5dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Cable	RG6SS 45Feet	2.2dB	2.3dB	2.5 dB	3.8 dB	3.3 dB\4.2dB	Suirongcable
Inside Cable	SRG58-30SS 30Feet	4.5dB	4.5dB	4.9dB	7.6dB	7.2dB\8dB	Suirongcable
Inside Cable	SRG58-15SS 15Feet	2.35dB	2.4dB	2.56dB	3.9dB	3.7dB\ 4.1dB	Suirongcable
Inside Cable	SRG174-10SS 1Feet	2.5dB	2.7dB	2.9dB	5dB	5dB\6dB	Suirongcable
Inside Cable	SRG178-10SS 1Feet	2.6dB	2.9dB	3.7dB	6dB	6dB\6.8dB	Suirongcable
Inside Cable	RG316-15SS	3.5dB	3.8dB	4.1dB	6.2dB	5.9dB\6.7dB	Suirongcable
Inside Cable	RG316-10SS	2.4dB	2.6dB	2.8dB	4.2dB	4dB\4.5dB	Suirongcable
Power Supply	AC/DC Power Adapter	0.1dB	0.1dB	0.1dB	0.2dB	0.2dB	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT050701	7dBi	7dBi	7dBi	10dBi	10dBi\10dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT010901	9dBi	9dBi	9dBi	9dBi	9dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT010701	9dBi	9dBi	9dBi	9dBi	9dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT060302	3dBi	3dBi	3dBi	3.5dBi	3.5dBi\3.5dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT040301	3dBi	3dBi	3dBi	3dBi	3dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT080301	3dBi	3dBi	3dBi	3dBi	3dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT080302	3dBi	3dBi	3dBi	3dBi	3dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT060301	3dBi	3dBi	3dBi	3dBi	3dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT060303	0dBi	0dBi	0dBi	-1dBi	-1dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	ANT070101	-1dBi	-1dBi	-1dBi	-2dBi	-2dBi	Shenzhen Dachi Communications Co., Ltd.
Inside Antenna	SR-21300100	3dBi	3dBi	3dBi	3.5dBi	3.5dBi\3.5dBi	Shenzhen Dachi Communications Co., Ltd.

All equivalent antennas and cables are suitable for use with the SolidRF booster.

Default combination:

Terrain 6 +AC/DC Power Adapter+ RG316-10SS + ANT060303+ ANT-LF-W1.5 (4PCS) + ANT-HF-W1.5 (2PCS)