



Signal 3G™

Need help?



<https://cellphonesignalbooster.us>



Customer Support 800-501-3153

Mon. - Fri. Hours: 7 am to 6 pm MST



IT IS VERY IMPORTANT TO POWER YOUR SIGNAL BOOSTER USING A SURGE PROTECTED AC POWER STRIP WITH AT LEAST A 1000 JOULE RATING.

FAILURE TO DO THIS WILL VOID YOUR WARRANTY IN THE EVENT OF A POWER SURGE OR LIGHTNING STRIKE.



THE SIGNAL BOOSTER UNIT IS DESIGNED FOR USE IN AN INDOOR, TEMPERATURE-CONTROLLED ENVIRONMENT (LESS THAN 150 DEGREES FAHRENHEIT). IT IS NOT INTENDED FOR USE IN ATTICS OR SIMILAR LOCATIONS SUBJECT TO TEMPERATURES IN EXCESS OF 150°F.

Installation Instructions for the Following weBoost Signal Booster:

Signal 3G™ 800/1900MHz SmarTech III® Signal Booster
Model #470009 FCC #PWO460009 IC 4726A-460009

The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.

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Signal 3G™**470009****Optional Kits****470109**Cable Ext.
951151Power Supply
85996912' Mag Antenna
311125**470209**Cable Ext.
951151Power Supply
859969Mini Mag
301126**470309**Cable Ext.
951151Power Supply
859989Mini Mag
301126**Optional Accessories**Mounting Plate
901138DC Power Supply
859910**Before Getting Started**

Before you install your Signal 3G booster and start enjoying improved cellular reception, please do the following:

1. Read through all the installation steps. This will help you know what to expect from start to finish.
2. Watch the YouTube video demonstrating the Signal 3G installation at: <https://cellphonesignalbooster.us>
3. Familiarize yourself with all materials in your product package. This will allow you to know which pieces are referenced in the instructions.

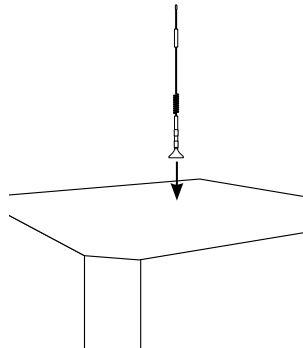
Quick Installation

You can install your Signal 3G booster using the following steps.

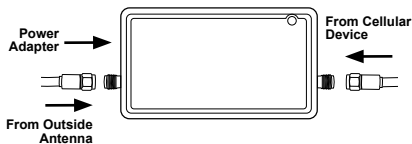
NOTE: Before completing your installation, create a "soft" installation by putting the components of your Signal 3G booster in place and testing the operation before mounting equipment.

1. Install the Outside Antenna. Select a location on top of the structure that is:
 - At least 12 inches from any other antennas.
 - Free of obstructions.
 - At least 8 inches from any people.

The Outside Antenna must be installed vertically on a metallic surface.



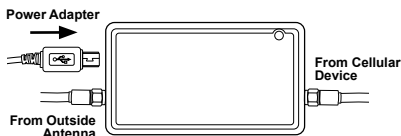
- Select a location to install the Signal Booster that is away from excessive heat, direct sunlight, moisture and that has proper ventilation. Do not place the Signal Booster in an air-tight enclosure.
- Run the Outside Antenna cable to the Signal Booster and attach it to the connector labeled "Outside Antenna."



- An external adapter may be needed to connect the cellular device to the Signal Booster. The external adapter plugs into the included antenna extension cable and directly into a socket on the cellular device. Run the extension cable from the external adapter and attach it to the connector labeled "cell phone or data card" on the Signal Booster.

Note: Be careful when plugging the connector in so as not to bend the center pins on the connectors. Ensure all cables have a tight connection.

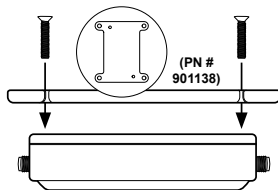
- Before powering up the Signal Booster verify that connections are tight. An AC surge protector is recommended for all installations (not included).



Installing the (Optional) Mounting Plate

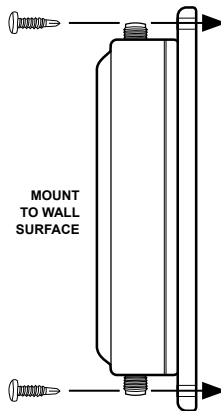
To purchase a mounting plate contact weBoost Sales Team 800-501-3153.

- Remove two screws from back of Signal Booster that correspond with the mounting plate.



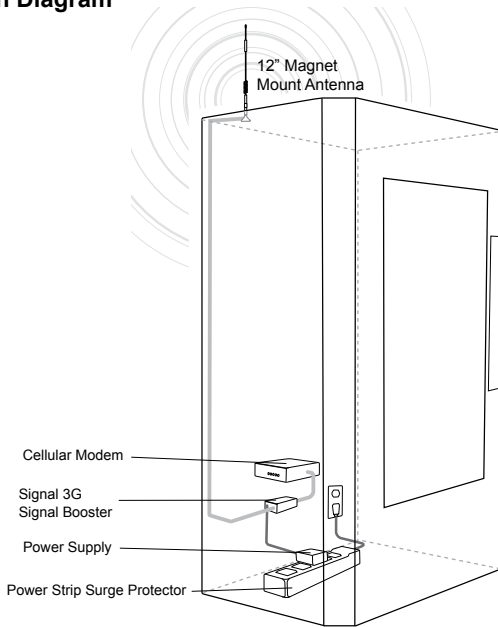
- Place Signal Booster on mounting plate and reinstall the two screws previously removed from back of Signal Booster.

Caution: Do not remove "Void Sticker."



Installation Diagram

(Figure 1)



Additional FAQ:

What hours can I contact customer support?

Customer Support can be reached from 7:00am to 6:00pm MST, by calling (800-501-3153), or by email, at salae@cellphonesignalbooster.us

How does weather affect the performance of my Outside Antenna?

Water vapor (e.g. rain, fog, snow or other precipitation) creates an effective filter to cellular signal. In times of heavy precipitation, you may see less performance.

What's the difference between the 800 MHz and the 1900 MHz bands? How do I know which MHz band my cell phone uses?

The Signal 3G booster works with all major North American cellular providers. Traditionally, 800/1900MHz are associated with voice and 3G data; while 700MHz and 1700/2100MHz are associated with 4G data.

Carrier Frequency Use

We recommend visiting <https://cellphonesignalbooster.us> for more information regarding the frequency band used by your cell service provider in a specific geographical location.

Warnings and Recommendations



WARNING Verify that both the Outside Antenna and the adapter extension cable are connected to the Signal Booster before powering up the Signal Booster.



WARNING Use only the power supply provided in this package. Use of a non-Wilson Electronics products may damage your equipment.



RF SAFETY WARNING Any antenna used with this device must be located at least 8 inches from all persons.

This is a **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 20 cm (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.

This device complies with Part 15 of FCC rules. Operation is subject to 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. Changes or modifications not expressly approved by Wilson Electronics could void the authority to operate this equipment.

Mobile Antennas

Mini Mag

- 301126 w/ 12.5 RG174 cable- SMA

12" Mag Mount w/ 12.5' RG174

- 311125
- 311128
- 314202
- 311703

Trucker antenna w/10.5' RG58

- 311101
- 311701

Trucker antenna w/13.5' RG58

- 311119
- 311133

NMO Antenna's w/ RG174

- 311104-17410
- 800/1900 NMO antenna
- 10' RG174 cable
- 311112-17410
- 800/1900 NMO antenna
- 10' RG174 cable
- 314203-17410
- 800/900/1900 NMO antenna
- 10' RG174 cable
- 311130-5810
- Marine Antenna
- 10' RG58 cable
- 311102
- 311114 (Mini Glass Mount)
- 311104-5810

- 800/1900 NMO antenna
- 10' RG58 cable
- 311112-5810
- 800/1900 NMO antenna
- 10' RG58 cable
- 314203-5810
- 800/900/1900 NMO antenna
- 10' RG58 cable

301152 Slim Low Profile w/ 10' RG174

- 311106 Low Profile w/ 10' RG58

Outside Fixed Antennas

- 50 Ohm Outside Antenna Kits
- 314453-5825
- 50 Ohm Pole Mount Panel Antenna
- 25' RG58 Cable
- 314441-5825
- 50 Ohm Wide Band Directional
- 25' RG58 Cable
- 3130111-5850
- Yagi Directional Antenna
- 50' RG58 Cable
- 3131129-5840
- 800 MHz Yagi Directional
- 40' RG58 Cable
- 3131203-5820
- Omni-Directional antenna
- 20' RG58 Cable
- 3131124-5830
- 1900 MHz Yagi Antenna
- 30' RG58 Cable
- 314411-40075
- 50 Ohm Wide Band Directional

- 75' LMR400 Cable
- 311203-40020
- Omni-Directional antenna
- 20' LMR400 Cable
- 3130111-400170
- Yagi Directional w/ N-Female
- 170' LMR400
- 3131124-400100
- 1900 MHz Yagi Directional
- 100' LMR400 Cable
- 3131129-400100
- 800 MHz Yagi Antenna
- 100' LMR400 Cable
- 314453-40075
- 50 Ohm Pole Mount Panel Antenna
- 75' LMR400 Cable

75 Ohm Outside Antenna Kits

- 3130111-0675
- Yagi Directional Antenna
- 75' RG6 Cable
- N-Male to F-Female adapter
- 3131201-0620
- Omni Directional w/ F-Female
- 20' RG6 Cable
- 3131129-0660
- 800 MHz Yagi Directional
- 60' RG6 Cable
- N-Male to F-Female adapter
- 3131124-0650
- 1900 MHz Yagi Directional
- 50' RG6 Cable
- N-Male to F-Female adapter
- 314473-0640
- 75 Ohm Pole Mount Panel Antenna
- 40' RG6 Cable
- 314475-0630
- 75 Ohm Wide Band Directional
- 30' RG6 Cable
- 3131141-0620
- 75 Ohm Grey Brick Antenna
- 20' RG6 Cable
- 3130111-11140
- Yagi Directional Antenna
- 140' RG11 Cable
- N-Male to F-Female adapter
- 3131201-1120
- Omni Directional w/ F-Female
- 20' RG11 Cable
- 3131129-11110
- 800 MHz Yagi Directional
- 110' RG11 Cable
- N-Male to F-Female adapter
- 3131124-1160
- 1900 MHz Yagi Directional
- 80' RG11 Cable
- N-Male to F-Female adapter
- 3134473-1175
- 75 Ohm Pole Mount Panel Antenna
- 75' RG11 Cable
- 3134475-1175
- 75 Ohm Wide Band Directional
- 75' RG11 Cable
- 3131141-1120
- 75 Ohm Grey Brick Antenna
- 20' RG11 Cable

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Signal Booster Specifications

		Signal 3G™	
Model Number		460009	
Connectors		SMA-Female	
Antenna Impedance		50 Ohms	
Frequency		824-894 MHz & 1850-1995 MHz	
Passband Gain (nominal)		800 MHz 13.4	1900 MHz 12.3
20 dB Bandwidth (MHz)		800 MHz	1900 MHz
		Typical 41.7	84.1
		Maximum 43.3	88.9
Power output for single cell phone (dBm)		800 MHz	1900 MHz
		Uplink 23.8	22.3
		Downlink -6.05	-8.3
Power output for multiple received channels (Uplink) dBm		800 MHz	1900 MHz
		No. Tones	
		2	24.1 23.2
		3	20.5 19.8
		4	18.0 17.1
		5	16.1 15.2
		6	14.5 13.6
Power output for multiple received channels (Downlink) dBm		800 MHz	1900 MHz
		No. Tones	
		2	-3.2 -4.7
		3	-6.7 -8.2
		4	-9.2 -10.7
		5	-11.1 -12.7
		6	-12.7 -14.2
Noise Figure (typical downlink/uplink)		4 dB (nominal)	
Isolation		> 60 dB	
Power Requirements		5V DC, 1A	

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 signal 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 attenuator at the output of the device.

Each Signal Booster is individually tested and factory set to ensure FCC compliance. The Signal Booster cannot be adjusted without factory reprogramming or disabling the hardware. The Signal Booster will amplify, but not alter incoming and outgoing signals in order to increase coverage of authorized frequency bands only. If the Signal Booster is not in use for five minutes, it will reduce gain until a signal is detected. 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. For a detected oscillation the Signal Booster will automatically resume normal operation after a minimum of 1 minute. After 5 (five) such automatic restarts, any problematic bands are permanently shut off until the Signal Booster has been manually restarted by momentarily removing power from the Signal Booster. Noise power, gain, and linearity are maintained by the Signal Booster's microprocessor.



2-Year Warranty

weBoost Signal Boosters are warranted for two (2) years against defects in workmanship and/or materials. Warranty cases may be resolved by returning the product directly to the reseller with a dated proof of purchase.

Signal Boosters may also be returned directly to the manufacturer at the consumer's expense, with a dated proof of purchase and a Returned Material Authorization (RMA) number supplied by weBoost. weBoost shall, at its option, either repair or replace the product. weBoost will pay for delivery of the repaired or replaced product back to the original consumer if located within the continental U.S.

This warranty does not apply to any Signal Boosters determined by weBoost to have been subjected to misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

Failure to use a surge protected AC Power Strip with at least a 1000 Joule rating will void your warranty.

RMA numbers may be obtained by contacting Customer Support at 800-501-3153

Disclaimer The information provided by weBoost is believed to be complete and accurate. However, no responsibility is assumed by weBoost for any business or personal losses arising from its use, or for any infringements of patents or other rights of third parties that may result from its use.

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weBoost products covered by U.S. patent(s) and pending application(s)