

Signal 3G Signal Booster

Need help?

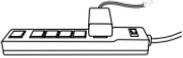


www.wilsonelectronics.com



Tech Support 866-294-1660

Mon. - Fri. 6 am to 7 pm MST Sat. - Sun. 8 am to 5 pm MST

  <p>IT IS VERY IMPORTANT TO POWER YOUR SIGNAL BOOSTER USING A SURGE PROTECTED AC POWER STRIP WITH AT LEAST A 1000 JOULE RATING.</p> <p>FAILURE TO DO THIS WILL VOID YOUR WARRANTY IN THE EVENT OF A POWER SURGE OR LIGHTNING STRIKE.</p>	 <p>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.</p>
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Installation Instructions for the Following Wilson Electronics Signal Booster:

Signal 3G 800/1900MHz SmarTech III® Signal Booster

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Signal 3G



460009

Optional Kits

460109

Cable Ext.
951151

Power Supply
859969

12' Mag Antenna
311125

460209

Cable Ext.
951151

Power Supply
859969

Mini Mag
301126

460309

Cable Ext.
951151

Power Supply
859989

Mini Mag
301126

460409

Cable Ext.
951151

Power Supply
859969

12' Mag Antenna
w/5 ft.RG174 Cable
311156

Optional Accessories

Mounting Plate
901138

DC Power Supply
859100

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. 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.

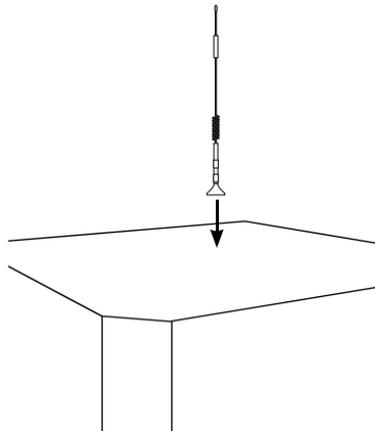
NOTE: Before completing your installation, create a "soft" installation by putting the components of your Signal 3G booster in place and testing the operation before mounting equipment.

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

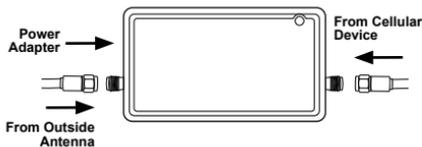
antennas.

- 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.

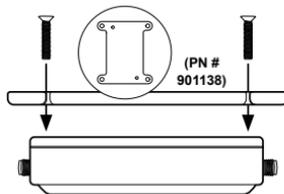
- Before powering up the Signal Booster verify that connections are tight. An AC surge protector is recommended for all installations (not included).



Installing the (Optional) Mounting Plate

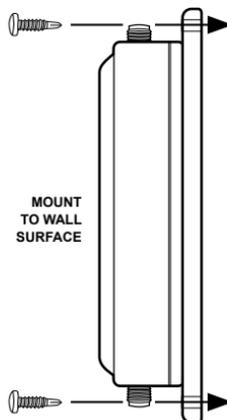
To purchase a mounting plate contact Wilson Electronics Sales Team 435-673-5021.

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



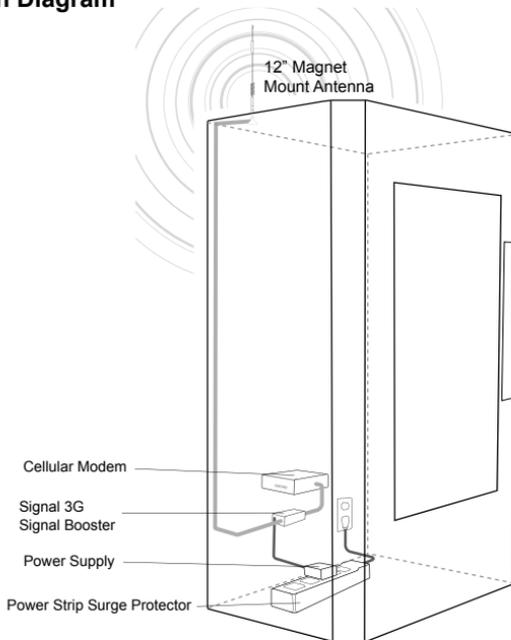
- Place Signal Booster on mounting plate and reinstall the two screws previously removed from back of Signal Booster.

Caution: Do not remove "Void Sticker."



Installation Diagram

(Figure 1)



What hours can I contact tech support?

Technical Support can be reached from Mon.- Fri. 6 am to 7 pm MST and Sat.- Sun. 8 am to 5 pm MST, by calling (866-294-1660), or by email, at tech@wilsonelectronics.com.

Carrier Frequency Use

We recommend visiting www.wirelessadvisor.com (United States) or <http://bit.ly/1mQf2Gf> (Canada) for information regarding the frequency band used by your cell service provider in a specific geographical location.

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Tech Support 866-294-1660

Mon.- Fri. 6 am to 7 pm MST Sat.- Sun. 8 am to 5 pm MST

Mobile Antennas

Mini-Mag

- 301126 w/ 12.5 RG174 cable- SMA
- 301113 w/ 12.5 RG174 cable- FME

12" Mag Mount w/ 12.5' RG174

- 311103
- 311125
- 311128
- 314202
- 311703
- 311156

Trucker antenna w/10.5' RG58

- 311101
- 311701

Trucker antenna w/13.5' RG58

- 311119
- 311133

NMO Antenna's w/ RG174

- Kit 311104-17410
- 800/1900 NMO antenna
- 10' RG174 cable

Kit 311112-17410

- 800/1900 NMO antenna
- 10' RG174 cable

Kit 314203-17410

- 800/900/1900 NMO antenna
- 10' RG174 cable

Marine antenna w/ 10' RG58

- Kit 311130-5810
- Marine Antenna
- 10' RG58 cable

Glass Mount w/14' RG58 cable

- 311102
- 311114 (Mini Glass Mount)

NMO Antenna's w/ RG58

- Kit 311104-5810
- 800/1900 NMO antenna
- 10' RG58 cable

Kit 311112-5810

- 800/1900 NMO antenna
- 10' RG58 cable

Kit 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

- Kit 314453-5825
- 50 Ohm Pole Mount Panel Antenna
- 25' RG58 Cable

Kit 314411-5825

- 50 Ohm Wide Band Directional
- 25' RG58 Cable

Kit 301111-5850

- Yagi Directional Antenna
- 50' RG58 Cable

Kit 311129-5840

- 800 MHz Yagi Directional
- 40' RG58 Cable

Kit 311203-5820

- Omni-Directional antenna
- 20' RG58 Cable

Kit 311124-5830

- 1900 MHz Yagi Antenna
- 30' RG58 Cable

Kit 314411-40075

- 50 Ohm Wide Band Directional
- 75' LMR400 Cable

Kit 311203-40020

- Omni-Directional antenna
- 20' LMR400 Cable

Kit 301111-400170

- Yagi Directional w/ N-Female
- 170' LMR400

Kit 311124-400100

- 1900 MHz Yagi Directional
- 100' LMR400 Cable

Kit 311129-400100

- 800 MHz Yagi Antenna
- 100' LMR400 Cable

Kit 314453-40075

- 50 Ohm Pole Mount Panel Antenna
- 75' LMR400 Cable

75 Ohm Outside Antenna Kits

Kit 301111-0675

- Yagi Directional Antenna
- 75' RG6 Cable
- N-Male to F-Female adapter

Kit 311201-0620

- Omni Directional w/ F-Female
- 20' RG6 Cable

Kit 311129-0660

- 800 MHz Yagi Directional
- 80' RG6 Cable
- N-Male to F-Female adapter

Kit 311124-0650

- 1900 MHz Yagi Directional
- 50' RG6 Cable
- N-Male to F-Female adapter

Kit 314473-0640

- 75 Ohm Pole Mount Panel Antenna
- 40' RG6 Cable

Kit 314475-0630

- 75 Ohm Wide Band Directional
- 30' RG6 Cable

Kit 311141-0620

- 75 Ohm Grey Brick Antenna
- 20' RG6 Cable

Kit 301111-11140

- Yagi Directional Antenna
- 140' RG11 Cable
- N-Male to F-Female adapter

Kit 311201-1120

- Omni Directional w/ F-Female
- 20' RG6 Cable

Kit 311129-11110

- 800 MHz Yagi Directional
- 100' RG11 Cable
- N-Male to F-Female adapter

Kit 311124-1180

- 1900 MHz Yagi Directional
- 80' RG11 Cable
- N-Male to F-Female adapter

Kit 314473-1175

- 75 Ohm Pole Mount Panel Antenna
- 75' RG11 Cable

Kit 311475-1175

- 75 Ohm Wide Band Directional
- 75' RG11 Cable

Kit 311141-1120

- 75 Ohm Grey Brick Antenna
- 20' RG11 Cable

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.



Signal Booster Specifications

		Dual-Band 800/1900 MHz Specifications	
Model Number		460009	
FCC Number		PWO460009	
IC Number		4726A-460009	
Connectors		SMA-Female	
Antenna Impedance		50 Ohms	
Frequency		824-894 MHz & 1850-1995 MHz	
Passband Gain (nominal)		800 MHz	1900 MHz
		13.4	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	-6.3
Power output for multiple received channels (Uplink) dBm		800 MHz	1900 MHz
	No. Tones		
	2	24.1	23.2
	3	20.5	19.6
	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.

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



2-Year Warranty

Wilson Electronics 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 Wilson Electronics. Wilson Electronics shall, at its option, either repair or replace the product. Wilson Electronics 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 Wilson Electronics 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 Technical Support at 866-294-1660.

Disclaimer: The information provided by Wilson Electronics, LLC is believed to be complete and accurate. However, no responsibility is assumed by Wilson Electronics, LLC 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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U.S. Patent Nos. – 7,221,967 7,729,669 7,486,929 7,409,186 7,783,318 8,583,034 8,583,033 8,639,180



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