

Signal 3G

SKU: 460109

FEATURES

- Direct connect amplifier - connects directly to data modem
- Improves transmissions speeds while reducing resending of data
- Configurable to fit virtually any M2M (machine to machine) installation
- Boosts 3G and 2G for all carriers
- Bi-directional amplified signals to and from the cell tower
- Auto-power control ensures maximum output



Kit Includes



Pro Signal 3G



Outside 12" Magnet Antenna (311125)



3' RG174 Cable (951151)



Power Supply (859969)

About

Developed specifically for M2M/IoT installations, the Wilson-Pro **Signal 3G** direct-connect amplifier system is based on the same field-tested, market-proven technology that powers all Wilson's cellular signal boosters. The Signal 3G is ready to integrate with cellular modems to provide reliable signal that ensures successful data transfer. This booster kit works with all U.S. and Canadian wireless service provider networks.

The Signal 3G's compact form factor makes it an ideal component for M2M/IoT installations in weak signal environments.

The Signal 3G is FCC certified to the latest technical standards for cellular signal boosters. The Signal 3G allows OEMs to source a compact, powerful and highly compatible signal booster that is ready to deploy. Integrators can more easily custom design M2M/IoT communication systems that fit tightly constrained spaces.

Specifications

MODEL NUMBER	460109 • 460209 • 460309	
FREQUENCIES	Band 5	850 MHz
	Band 25/2	1900 MHz
MAX GAIN	15 dB	
IMPEDANCE	50 Ohm	
POWER	5V/ 2A	
CONNECTORS	SMA Female	
BOOSTER DIMENSIONS	.75 x 1.75 x 4 in	
BOOSTER WEIGHT	0.175 lbs	

Detailed Specifications

		Signal 3G	
Model Number		460009	
FCC Number		PWO460009	
IC Number		PWO460009	
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	

Additional Product Kits

Pro Signal 3G Kit

460209

- 1 Pro Signal 3G
- 1 Mini Magnet Mount Antenna (301126)
- 1 Power Supply (859969)
- 1 3' RG174 Cable (951151)

Pro Signal 3G Kit

460309

- 1 Pro Signal 3G
- 1 Mini Magnet Mount Antenna (301126)
- 1 DC Hardwire Power Supply 5V/1A (859989)
- 1 3' RG174 Cable (951151)

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.

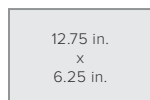
Each Signal Booster is individually tested and factory set to ensure FCC

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.

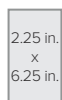
The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.

Package Dimensions

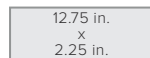
10.5 L x 2 W x 5.25 H



FRONT



SIDE

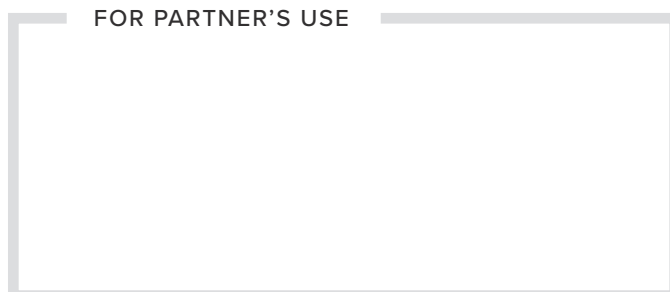


TOP/BOTTOM



WEIGHT

MASTER CARTON: TBD



460109_Pro-Signal3G_SS_Rev03_092517

Support



3 Year Warranty from Purchase.

Website: www.wilsonpro.com/support

Phone: +1 866 294 1660

Monday to Saturday

UPC

