WILSONPRO™

Pro Signal 4G

SKU: 460119



NOW WITH PASSIVE RF BYPASS

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) install
- Boosts 4G, 3G, and 2G for all carriers
- Bi-directional amplified signals to and from the cell tower
- Auto-power control ensures maximum output
- **Now with passive RF bypass failover**. If the Pro Signal 4G loses power, the amplifier is "bypassed" so that the external antenna maintains connection to the modem.

*⚠**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Kit Includes


Pro Signal 4G


Mini-Magnet Antenna (301126)


3' RG174 Cable (951151)


Power Supply (850012)

About

Developed specifically for M2M installations, the WilsonPro Pro Signal 4G direct-connect amplifier system is based on the same time-tested, market-proven technologies powering our entire line of commercial cellular signal boosters. The Pro Signal 4G is ready to integrate with cellular modems, providing reliable signal that ensures successful data transfer. This booster kit works with all U.S. cellular networks. The Pro Signal 4G's compact form factor makes it an ideal component for installations in weak signal environments. The Pro Signal 4G kit includes the Wilson 4-inch mini magnet cellular antenna for maximum system gain to overcome weak signals. The Pro Signal 4G is FCC certified. The Pro Signal 4G allows OEMs to source a compact, powerful and highly compatible signal booster that is ready to deploy. Integrators can more easily custom design M2M communication systems that fit in tightly constrained spaces. In locations where cellular signals are weak due to distance from the cell site, terrain features, or building materials like concrete and steel, the Pro Signal 4G provides a strong, reliable signal.

Specifications

MODEL NUMBER	460119* • 460219* • 461119*	
FREQUENCIES	Band 12	700 MHz
	Band 13	700 MHz
	Band 5	850 MHz
	Band 4	1700/2100 MHz
	Band 25/2	1900 MHz
MAX GAIN	15 dB	
IMPEDANCE	50 Ohm	
POWER	110/240Vac, 50Hz/60Hz, 5VDC-5A	
CONNECTORS	SMA Female	
BOOSTER DIMENSIONS	1.25 x 3.5 x 6.25 in	
BOOSTER WEIGHT	1.085 lbs	

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Detailed Specifications

	Pro Signal 4G				
Model Number	460019				
FCC ID	PWO460019				
Connectors	SMA				
Antenna Impedance	50 Ohms				
Frequency	698-716 MHz, 746-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755/2110-2155 MHz				
Passband Gain (typical)	**700MHz Band12/17** 11.8	**700MHz Band13** 11.0	**800MHz** 10.0	**1700/2100MHz** 7.1	**1900MHz** 8.6
20 dB Bandwidth (MHz)	**700MHz Band12/17**	**700MHz Band13**	**800MHz**	**1700/2100MHz**	**1900MHz**
Typical	29.5	31.6	38.4	81.8	75.4
Maximum	33.9	33.9	40.6	85.4	77.4
Power output for single cell phone (Uplink) dBm	**700MHz Band12/17**	**700MHz Band13**	**800MHz**	**1700MHz**	**1900MHz**
	24.7	24.9	24.1	25.6	25.0
Power output for single cell phone (Downlink) dBm	**700MHz Band12/17**	**700MHz Band13**	**800MHz**	**2100MHz**	**1900MHz**
	-6.3	-6.5	-6.5	-7.7	-5.8
Power output for multiple received channels (Uplink) dBm **No. Tones**	**700MHz Band12/17**	**700MHz Band13**	**800MHz**	**1700MHz**	**1900MHz**
2	26.1	25.8	21.0	21.3	21.9
3	22.6	22.3	17.5	17.8	18.4
4	20.1	19.8	15.0	15.3	15.9
5	18.1	17.8	13.0	13.4	13.9
6	16.5	16.3	11.5	11.8	12.3
Power output for multiple received channels (Downlink) dBm **No. Tones**	**700MHz Band12/17**	**700MHz Band13**	**800MHz**	**2100MHz**	**1900MHz**
2	-6.0	-5.9	-5.7	-6.8	-6.0
3	-9.5	-9.4	-9.2	-10.3	-9.5
4	-12.0	-11.9	-11.7	-12.8	-12.0
5	-14.0	-13.9	-13.7	-14.7	-14.0
6	-15.5	-15.4	-15.2	-16.3	-15.5
Noise Figure	5 dB nominal				
Isolation	> 40 dB				
Power Requirements	110/240Vac, 50Hz/60Hz, 5VDC-5A				

Additional Product Kits

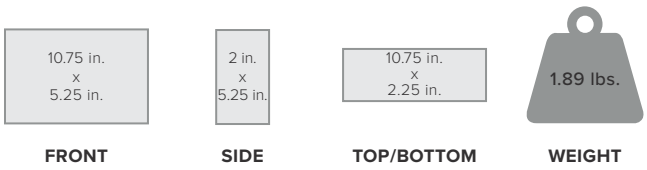
Pro Signal 4G Hardwire Kit
460219*
1 Pro Signal 4G
1 DC Hardwire Power Supply 6V/2A (859923)
1 Mini-Magnet Antenna (301126)
1 3' RG174 Cable with SMA Male Connectors (951151)

*⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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 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.

Package Dimensions

10.5 L x 2 W x 5.25 H



FRONT **SIDE** **TOP/BOTTOM** **WEIGHT**

MASTER CARTON: TBD

FOR PARTNER'S USE

Support

3 Year Warranty from Purchase

Website: www.wilsonpro.com/support

Phone: +1 866 294 1660
Monday to Saturday

UPC

PRO SIGNAL 4G
8 11815 02077 6

PRO SIGNAL 4G HARDWIRE KIT
8 11815 02654 9

PRO SIGNAL 4G SECURITY KIT
8 11815 02610 5