

Pro Signal 4G

SKU: 460119F

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 cellular signal for all Canadian 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.



NOW WITH PASSIVE RF BYPASS

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 amplifiers. The Pro Signal 4G is ready to integrate with cellular modems, providing reliable signal that ensures successful data transfer. This amplifier kit works with all Canadian 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 ISED certified. The Pro Signal 4G allows OEMs to source a compact, powerful and highly compatible signal amplifier 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	460119F • 460219F	
FREQUENCIES	Band 12/17	700 MHz
	Band 13	700 MHz
	Band 5	850 MHz
	Band 4	1700/2100 MHz
	Band 25/2	1900 MHz
MAX GAIN	15 dB	
MAX UPLINK POWER	26 dBm	
MAX DOWNLINK POWER	-6 dBm	
IMPEDANCE	50 Ohm	
POWER	110/240Vac, 50Hz/60Hz, 5VDC-5A	
CONNECTORS	SMA Female	
AMPLIFIER DIMENSIONS	1.25 x 3.5 x 6.25 in	
AMPLIFIER WEIGHT	1.085 lbs	

Detailed Specifications

		Pro Signal 4G				
SKU		460119				
Model Number		460019F				
IC ID		4726A-460019				
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 24.7	700MHz Band13 24.9	800MHz 24.1	1700MHz 25.6	1900MHz 25.0
Power output for single cell phone (Downlink) dBm		700MHz Band12/17 -6.3	700MHz Band13 -6.5	800MHz -6.5	2100MHz -7.7	1900MHz -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

460219F

- 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)

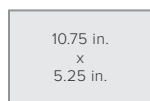
The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.



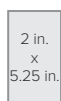
Innovation, Science and
Economic Development Canada

Package Dimensions

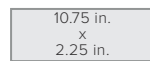
10.5 L x 2 W x 5.25 H



FRONT



SIDE



TOP/BOTTOM



WEIGHT

MASTER CARTON: TBD

FOR PARTNER'S USE



460119F_Pro-Signal4G_SS_CA_080719_093019b

Support



3 Year Warranty from Purchase

Website: www.wilsonpro.ca/support

Phone: +1 866 294 1660
Monday to Saturday

UPC

