

IoT 2-Band

SKU: 460209F

FEATURES

- Designed to link with a data modem as a direct-connect amplifier
- Improves overall cellular connectivity in weak signal environments
- Configurable to almost any Internet of Things (IoT) installation
- Pre-approved by all major cell carriers under ISED rules
- Bi-directional amplification boosts signals to and from cell towers
- Auto-power control to help ensure maximum signal output



Kit Includes



IoT 2-Band



Mini-Magnet
Antenna 6'
(301126)



6' RG174 Cable
(951141)



Mounting Bracket
(901138)



Power Supply
(859969)

About

The **WilsonPro IoT 2-Band** is a “Direct-Connect” solution for cellular network capable equipment and IoT devices. Compatible with Canadian carrier networks using Band 5 (850 MHz) and Band 25/2 (1900 MHz), it connects directly with cellular modems to provide strong, reliable cell signal for successful data transfer.

The IoT 2-Band kit is ideal for ATMs, vending machines, or movie-rental kiosks with access to AC power outlets. Its compact form factor is ideal for custom-designed IoT communication systems built within tightly constrained spaces. ISED certified, the IoT 2-Band allows OEMs to source a compact, powerful, and highly compatible cell signal amplifier that comes ready to deploy. In locations where cellular connectivity is adversely affected by distance to cell towers, terrain obstructions, or building materials (like concrete and steel), the IoT 2-Band is a proven go-to solution.

Specifications

MODEL NUMBER	460209F	
FREQUENCIES	Band 5	850 MHz
	Band 25/2	1900 MHz
MAX GAIN	15 dB	
MAX UPLINK POWER	24 dBm	
MAX DOWNLINK POWER	-3 dBm	
IMPEDANCE	50 Ohm	
POWER	110/240Vac, 50Hz/60Hz, 5VDC-2A	
CONNECTORS	SMA Female	
AMPLIFIER DIMENSIONS	0.75 x 1.75 x 4 in	
AMPLIFIER WEIGHT	0.175 lbs	

Detailed Specifications

Pro IoT 2-Band			
SKU	460209F		
Model Number	460009		
IC ID	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 Maximum	41.7 43.3	84.1 88.9
Power output for single cell phone (dBm)	800 MHz	1900 MHz	
	Uplink Downlink	23.8 -6.05	22.3 -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	110/240Vac, 50Hz/60Hz, 5VDC-2A		

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 ISED 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.

ASSEMBLED IN THE USA



Innovation, Science and
Economic Development Canada

Package Dimensions

	LENGTH	WIDTH	HEIGHT	WEIGHT	MASTER PACKAGE DIMENSIONS
460209F	4.75"	7.75"	3.25"	0.985 lb	QTY 30 / 24.9" x 16.55" x 14.5" / 31 lb

Support



3 Year Warranty from Purchase

Website: www.weboost.ca/support

Phone: +1 866 294 1660

Monday to Saturday

FOR PARTNER'S USE

UPC

