

IoT 5-Band

SKU: 460119F, 460219F

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
- Passive RF bypass failover keeps modem going if power is lost
- Auto-power control to help ensure maximum signal output

Kits Include



About

The **WilsonPro lot 5-Band** is a "Direct-Connect" solution for cellular network capable equipment and IoT devices. Compatible with all Canadian carrier networks, the IoT 5-Band connects directly with cellular modems and provides strong, reliable cell signal to guarantee successful IoT data transfer.

The IoT 5-band is offered in two different kit options:

- The basic kit; ideal for ATMs, vending machines, or movierental kiosks with access to AC power outlets.
- The 12V hardwire kit with DC power supplied by a vehicle to amplify cell signal for an LTE-modem hotspot.

The IoT 5-Band's compact form factor is ideal for customdesigned IoT communication systems built within tightly constrained spaces. ISED certified, the IoT 5-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 5-Band is a proven go-to solution.

Specifications

MODEL NUMBER	460119F (basic kit) 460219F (12V hardwire kit)				
FREQUENCIES	Band 12 Band 13 Band 5 Band 4 Band 25/2	700 MHz 850 MHz 1700/2100 MHz			
MAX GAIN	15 dB				
MAX UPLINK POWER	24 dBm				
MAX DOWNLINK POWER	-3 dBm				
IMPEDANCE	50 Ohm				
POWER	460119F: 110/240 Vac, 50Hz/60Hz, 5Vdc @ 5A 460219F: 12 to 14Vdc, 5Vdc @ 5A				
CONNECTORS	SMA Female				
AMPLIFIER DIMENSIONS	1.25 x 3.5 x 6.25 in				
AMPLIFIER WEIGHT	1.085 lbs				



PASSIVE RF BYPASS



Detailed Specifications

	Pro IoT 5-Band						
SKU	460119F						
Model Number	460019						
IC 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 Maximum	29.5 33.9	31.6 33.9	38.4 40.6	81.8 85.4	75.4 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						

Package Dimensions

	LENGTH	WIDTH	HEIGHT	WEIGHT	MASTER PACKAGE DIMENSIONS
460119F	10.38"	5.25"	2.25"	2.050 lb	QTY 25 / 24" x 18" x 15" / 30 lb
460219F	10.75"	5.25"	2.25"	1.895 lb	QTY 25 / 24.9" x 16.55 "x 14.5" / 50 lb

Support

UPC

😵 3 Year Warranty from Purchase

Website: www.weboost.ca/support

Phone: +1 866 294 1660 Monday to Saturday

FOR PARTNER'S USE



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 disabiling 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 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 restards, any problematic bands are permanently shut off until 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

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