

IoT 5-Band

SKU: 460119, 460219, 461119

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 FCC "part 20" 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

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

Kits Include



PASSIVE RF BYPASS

460119 * Basic Kit	Pro IoT 5-Band Amplifier	Mini Magnet Antenna 301126	AC/DC 5V/4A Power Supply 850012	3' RG174 w/ SMA Male to SMA Male Cable 951151			
460219* 12V Hardwire Kit	Pro loT 5-Band Amplifier	Mini Magnet Antenna 301126	12V DC to 6V DC 2A Hardwire DC Jack 859923	, 3' RG174 w/ SMA Male to SMA Male Cable 951151			
461119 * Security Kit	Pro IoT 5-Band Amplifier	Omni Antenna 304422	12' Adapter w/MMCX 951153	MMCX right angle to SMA Female Bulk head connector w/12" RG316 cable 951154	10' RG58 SMA Male to SMA Male 955834	30' RG58 SMA Male to N Male 955833	AC/DC 5V/4A Power Supply 850012

About

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

The IoT 5-band is offered in three 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 security kit with MMCX cables to interface with cellularbased home or business security systems.

The IoT 5-Band's compact form factor is ideal for customdesigned IoT communication systems built within tightly constrained spaces. FCC 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	460119 (basic kit) 460219 (12V hardwire kit) 461119 (security)		
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	460119 & 461119: 110/240 Vac, 50Hz/60Hz, 5Vdc @ 5A 460219: 12 to 14Vdc, 5Vdc @ 5A		
CONNECTORS	SMA Female		
AMPLIFIER DIMENSIONS	1.25 x 3.5 x 6.25 in		
AMPLIFIER WEIGHT	1.085 lbs		



Detailed Specifications

	Pro IoT 5-Band						
SKU	460119						
Model Number	460019						
FCC ID	PWO460019						
Connectors	SMA						
Antenna Impedance			50 Ohms				
Frequency	698-716 MHz, 7	746-787 MHz, 824-894	MHz, 1850-19	95 MHz, 1710-1755/2	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	ower Requirements 110/240Vac, 50Hz/60Hz, 5VDC-5A						

Package Dimensions

	LENGTH	WIDTH	HEIGHT	WEIGHT	MASTER PACKAGE DIMENSIONS
460119	10.38"	5.25"	2.25"	2.020 lb	QTY 25 / 24.9" x 16.55" x 14.5" / 65 lb
460219	10.75"	5.25"	2.25"	1.865 lb	QTY 25 / 24.9" x 16.55 "x 14.5" / 50 lb
461119	16.00"	4.00"	4.00"	4.585 lb	QTY 15 / 24.9" x 16.55 "x 14.5" / 72 lb

FOR PARTNER'S USE

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The Manufacturer's rated output power of this equipment is for single carrier opradion. 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 Comparison The Signal Booster calls the Signal Booster will any first reprogramming or disability 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 of on that band. For a detected oscillation the Signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatically resume normal operation after the signal Booster will automatic 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



Support



3 Year Warranty from Purchase

Website: www.wilsonpro.com/support

Phone: +1 866 294 1660 Monday to Saturday









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