


WILSONPRO™
462079 IoT
MIMO 2x2 Direct
Connect Signal
Booster



WILSONPRO 462079 IoT MIMO 2x2 Direct Connect Signal Booster Owner's Manual

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WILSONPRO 462079 IoT MIMO 2x2 Direct Connect Signal Booster



FEATURES

- Designed to link with a data modem as a direct-connect amplifier in 2x2 MIMO configuration for higher data throughput.
- Configurable to almost any Internet of Things (IoT) installation.
- Pre-approved by all major cell carriers under FCC “part 20” rules.
- Power over Coax: The amplifier and antenna can be positioned for maximum performance.
- Passive RF bypass failover keeps the modem going if power is lost.
- Auto-power control to help ensure maximum signal output.

Kits Include



IoT 3.0 2x2 Amplifiers
(460079) & Wall Mount
Bracket



(2) External
Hinged Antennas
(ANT000058)



(2) Power Over Coax Units
(ACC000084) & Bracket



20' Conjoined N to N Cable &
(2) 1' SMA to SMA Cables
(CBL000144, CBL000141)



Dual Connector
12V AC/DC Power
(PWR000050)

About

The WilsonPro IoT MIMO 2x2 is a Direct Connect solution for amplifying cellular network equipment with MIMO (multiple input/multiple output) capability, such as a cellular “hotspot” (ex. ‘Cradlepoint’ Device or similar), and other high data-rate applications. IoT MIMO is “carrier agnostic” and pre-approved by all major cellular carriers under FCC “part 20” rules. No additional carrier or FCC approvals are required. Dual amplification paths and included MIMO antennas are ideal for achieving maximum available data-rates from your MIMO capable cellular devices. The IoT MIMO’s compact form factor is ideal for custom- designed lot communication systems built within tightly constrained spaces. FCC certified, the IoT MIMO 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 MIMO is a proven go-to solution.

Product Specifications

- **Model Number:** 462079

- **Frequencies:** Band 12, Band 13, Band 5, Band 4, Band 25/2
- **Max Gain:** 15 dB
- **Max Uplink Power:** 24 dBm
- **Max Downlink Power:** -5 dBm
- **Impedance:** 50 Ohm
- **Amplifier Input Power:** 12V DC / 2A
- **Connectors:** N-Female
- **Amplifier Dimensions:** 5.4 x 4.2 x 1.4 in
- **Amplifier Weight:** 1.58 lbs

WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer, and Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Detailed Specifications

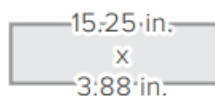
MODEL NUMBER	462079				
FCC ID	PWO079				
IC ID	4726A-079				
CONNECTORS	N-Connectors				
ANTENNA IMPEDANCE	50 Ohms				
FREQUENCY	698-716 MHz, 746-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755/2110-2155 MHz				
POWER OUTPUT (Uplink) dBm	700 MHz Band 12/17 24.7	700 MHz Band 13 24.9	800 MHz Band 5 24.1	1700 MHz Band 4 25.6	1900 MHz Band 25/2 25.0
POWER OUTPUT (Downlink) dBm	700 MHz Band 12/17 -6.3	700 MHz Band 13 -6.5	800 MHz Band 5 -6.5	1700 MHz Band 4 -7.7	1900 MHz Band 25/2 -5.8
NOISE FIGURE	5 dB Nominal				
ISOLATION	>40 dB				
POWER REQUIREMENTS	12VDC-2A				

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.

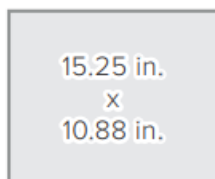
After 5 (five) such automatic restarts, any problematic bands are permanently shut off until the Signal Booster has been manually restarted by momentarily removing power from the Signal Booster. Noise power, gain, and linearity are maintained by the Signal Booster's microprocessor. The Manufacturer's 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

- 15.25 L x 10.88 W x 3.88 H



FRONT / SIDE



TOP/BOTTOM



WEIGHT

Support

3 Year Warranty from Purchase

- Website: www.wilsonpro.com/support
- Phone: +1 866 294 1660
- Monday to Saturday

UPC



Frequently Asked Questions

Q: Is this product compatible with all cellular carriers?

A: Yes, the WilsonPro IoT MIMO 2x2 is carrier agnostic and pre-approved by all major cellular carriers under FCC part 20 rules.

Q: What is the recommended power source for the amplifier?

A: The recommended power input for the amplifier is 12V DC with a current rating of 2A.

Q: How do I mitigate interference when multiple carrier signals are present?


A: In situations with multiple carrier signals, consider reducing the output power by 3.5 dB to prevent interference to adjacent band users.

Documents / Resources



[WILSONPRO 462079 IoT MIMO 2x2 Direct Connect Signal Booster](#) [pdf] Owner's Manual
462079 IoT MIMO 2x2 Direct Connect Signal Booster, 462079, IoT MIMO 2x2 Direct Connect Signal Booster, Direct Connect Signal Booster, Connect Signal Booster, Signal Booster

References

-  [P65Warnings.ca.gov](https://www.p65warnings.ca.gov)
-  [Contact Us | Sales Support and Customer Service | WilsonPro](#)
- [User Manual](#)

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