

# Pro 140i

**SKU:** 462074

## FEATURES

- Band 14 (FirstNet) cellular signal amplifier.
- Certified under FCC “Industrial” amplifier rules.
- Covers up to 100k ft<sup>2</sup> with strong outside signal.
- Installs ‘stand-alone’ or in parallel with an existing WilsonPro system.
- Selectable simplex server (indoor) antenna port option for Zinwave fiber capability.
- Compatible with 4G/LTE/5G NR Signals.
- Internal digital filtering to prevent interference with other adjacent services.
- WilsonPro Cloud access for remote monitoring and control.
- Pro 140i can be added to any existing WilsonPro system.



## Kit Includes



## About

Introducing the WilsonPro 140i, designed to provide critical, in-building cellular signal coverage for first responders using the nationwide FirstNet cellular network. FirstNet operates on the “Band 14” portion of 700MHz, providing police, fire, and rescue workers with their own dedicated cellular frequencies, in cases of emergencies.

Pro140i can be added to most existing WilsonPro inbuilding cellular amplifier systems, providing up to 100k sq ft\*\* for each Pro140i installed, providing first responders with dedicated, priority 4G & 5G FirstNet cell service when operating indoors.

The Pro 140i amplifiers connect to the WilsonPro Cloud right out of the box via a standard hardwired Ethernet port for remote monitoring.

\*\*Depending on outside signal conditions.

## Specifications

MODEL NUMBER	462074 <sup>†</sup>
FREQUENCY	Band 14 (FirstNet)
MAX GAIN	80 dB
MAX UPLINK POWER	27 dBm
MAX DOWNLINK POWER	27 dBm
IMPEDANCE	50 Ohm
POWER	110 - 240 V AC, 50 - 60 Hz, 30 W
CONNECTORS	N-Female
AMPLIFIER DIMENSIONS	10.4 in x 9.1 in x 3.0 in
AMPLIFIER WEIGHT	6.4 lbs

<sup>†</sup> **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](http://www.P65Warnings.ca.gov)

## Detailed Specifications

MODEL NUMBER	462074
FCC ID	PWO074
IC ID	4726A-074
CONNECTORS	N-Connectors
ANTENNA IMPEDANCE	50 Ohms
FREQUENCY	758-768 MHz, 788-798 MHz
POWER OUTPUT FOR SINGLE CELL PHONE (Uplink) dBm	700 MHz Band 14 27.0
POWER OUTPUT FOR SINGLE CELL PHONE (Downlink) dBm	700 MHz Band 14 27.0
NOISE FIGURE	5 dB Nominal
POWER REQUIREMENTS	120V AC 0.5A

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.

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## Compatible Antennas

This radio transmitter has been approved by the FCC and Innovation, Science and Economic Development (ISED) Canada to operate with the maximum permissible antenna gain below. Antenna that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

INSIDE ANTENNAS					
PN #	Antenna Type	Band 14 Support			Result
		Good	Ok	Poor	
311234	Panel Antenna	✓			Supports Band 14
314406	4G Low-Profile Dome Antenna w/ Reflector	✓			Supports Band14
314407	4G Low-Profile Dome Antenna	✓			Supports Band 14
311135	Indoor Wall Mount Antenna	✓			Poor VSWR and efficiency on Band 14
304412	Wilson Ceiling Mount Dome Antenna	✓			Supports Band 14, but at reduced efficiency
310005	Low-Profile Antenna	✓			Supports Band 14

OUTSIDE ANTENNAS					
PN #	Antenna Type	Band 14 Support			Result
		Good	Ok	Poor	
311233	Wide Band Directional Antenna	✓			Supports Band 14
311228	High Gain LPDA Antenna	✓			Poor VSWR and efficiency on Band 14
304422	4G Omni Plus Building Antenna	✓			Supports Band14, but at reduced efficiency
304424	4G Omni Building Antenna	✓			Supports Band 14, but at reduced efficiency
314411	Wilson Wideband Directional Antenna 50 Ohm	✓			Poor VSWR and efficiency on Band 14
311245	Wide Band Directional Antenna	✓			Supports Band 14

NOTE: all of the antennas listed above support bands 4,5,12,13, & 25/2. For additional, detailed information, please refer to the product data sheet at [www.wilsonpro.com](http://www.wilsonpro.com).

## Package Dimensions

14 L x 11 H x 3 W

11 in. x 14 in.	3 in. x 11 in.	14 in. x 3 in.	7.7 lbs.
FRONT	SIDE	TOP/BOTTOM	WEIGHT

FOR PARTNER'S USE

## Support

✓ 3 Year Warranty from Purchase

**Website:** [www.wilsonpro.com/support](http://www.wilsonpro.com/support)

**Phone:** +1 866 294 1660  
Monday to Saturday

UPC

