

Pro 140i

SKU: 460074

FEATURES

- Band 14 (FirstNet) cellular signal amplifier
- Certified under FCC “Industrial” amplifier rules
- Covers up to 100k ft² 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
- Pro 140i can be added to any existing WilsonPro system



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

Kit Includes



Pro 140i
Amplifier



AC/DC 12V/3A
Power Supply
(850023)

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 in-building 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.

**Depending on outside signal conditions.

Specifications

MODEL NUMBER	460074*
FREQUENCIES	Band 14 (FirstNet)
MAX GAIN	80 dB
MAX UPLINK POWER	27 dBm
MAX DOWNLINK POWER	27 dBm
IMPEDANCE	50 Ohms
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

Detailed Specifications

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SKU	460074
Model Number	460074
FCC ID	PWO460074
Connectors	N-Female
Antenna Impedance	50 Ohms
Max Gain	80 dB
Frequency	788-798 MHz (uplink), 758-768MHz (downlink)
Power output for single cell phone (Uplink)	700 MHz Band 14 27 dBm
Power output for single cell phone (Downlink)	700 MHz Band 14 27 dBm
Noise Figure	5 dB nominal
Isolation	> 90 dB
Power Requirements	120 AV 0.25A

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.

This device complies with Part 15 of FCC rules. Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by weBoost could void the authority to operate this equipment.

ASSEMBLED IN THE USA



Compatible Antennas

This radio transmitter has been approved by the FCC to operate with the maximum permissible antenna gain below. Antennas 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 with Band 14 Support	✓			Supports Band 14
314406	4G Low-Profile Dome Antenna w/ Reflector	✓			Supports Band 14
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

OUTSIDE ANTENNAS					
PN #	Antenna Type	Band 14 Support			Result
		Good	Ok	Poor	
311233	Wide Band Directional Antenna with Band 14 Support	✓			Supports Band 14
311228	High Gain LPDA Antenna	✓			Poor VSWR and efficiency on Band 14
304422	4G Omni Plus Building Antenna	✓			Supports Band 14, 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

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.

Support



3 Year Warranty from Purchase

UPC

PowerfulSignal
Stronger Signal Solutions

PRO 140i - 460074

