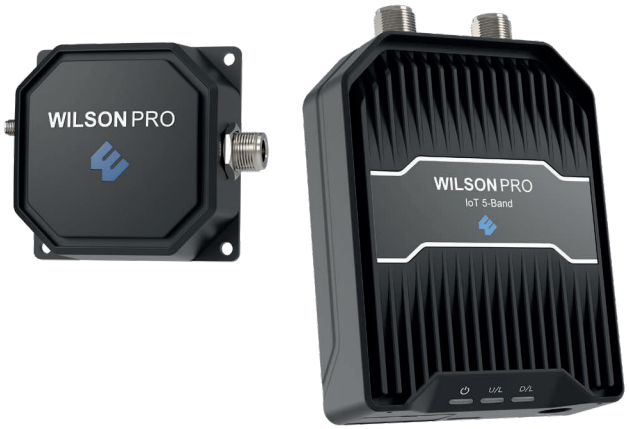
WILSONPRO™

# IoT 3.0

**SKU:** 460079

### 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.
- Power over Coax: Amplifier and antenna can be positioned for maximum performance.
- **Passive RF bypass failover** keeps modem going if power is lost.
- Auto-power control to help ensure maximum signal output.




PASSIVE RF BYPASS

## Kits Include

IoT 3.0 Amplifier & Wall Mount Bracket (460079)

External Hinged Antenna (ANT000058)


Power Over Coax Unit (ACC000084)

20’ N to N Cable & 1’ SMA to SMA Cable (CBL000140, CBL000141)

1’ SMA to MMCX Cable & 1’ SMA to MCX Cable (299154, 291153)

12V AC/DC Power & 12V DC Hardwire Cable (PWR000048, CBL000113)

## About

The **WilsonPro IoT 3.0** is a “Direct-Connect” solution for cellular network capable equipment and IoT devices. Compatible with all U.S. carrier networks, the IoT 3.0 connects directly with cellular modems and provides strong, reliable cell signal to guarantee successful IoT data transfer.

The IoT 3.0 is a single kit that offers different installation options:

- The 12V AC/DC power supply is ideal for ATMs, vending machines, or movie-rental kiosks with access to AC power outlets.
- The 12V hardwire kit with DC power supplied by a vehicle is ideal to amplify cell signals for an LTE-modem hotspot.
- The included MCX/MMCX cables are provided to interface with cellular-based home or business security systems if necessary.

The IoT 3.0 compact form factor is ideal for custom-designed IoT communication systems built within tightly constrained spaces. FCC certified, the IoT 3.0 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 3.0 is a proven go-to solution.

## Specifications

| | |
|---|---|
| MODEL NUMBER | 460079† |
| FREQUENCIES | Band 12 700 MHz<br>Band 13 700 MHz<br>Band 5 850 MHz<br>Band 4 1700/2100 MHz<br>Band 25/2 1900 MHz |
| MAX GAIN | 15 dB |
| MAX UPLINK POWER | 24 dBm |
| MAX DOWNLINK POWER | -5 dBm |
| IMPEDANCE | 50 Ohm |
| 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

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## Detailed Specifications

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|---|---|---|---|---|---|
| MODEL NUMBER | 460079 | | | | |
| 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 | 700 MHz Band 13 | 800 MHz Band 5 | 1700 MHz Band 4 | 1900 MHz Band 25/2 |
| | 24.7 | 24.9 | 24.1 | 25.6 | 25.0 |
| POWER OUTPUT (Downlink) dBm | 700 MHz Band 12/17 | 700 MHz Band 13 | 800 MHz Band 5 | 1700 MHz Band 4 | 1900 MHz Band 25/2 |
| | -6.3 | -6.5 | -6.5 | -7.7 | -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.

ASSEMBLED IN THE USA

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## Support

3 Year Warranty from Purchase

## UPC

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Stronger Signal Solutions