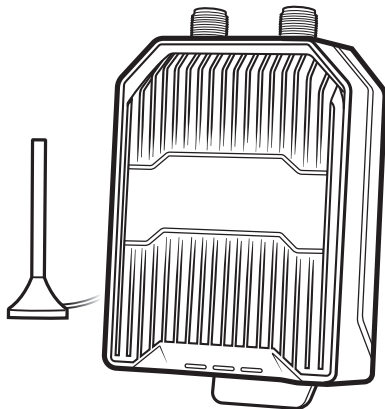


# we:boost

## Installation Guide



### **IoT Direct**

Direct-Connect Cell  
Signal Amplifier

# Download the weBoost App

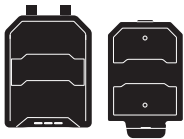
Use our app to guide you through setting up a weBoost cell phone signal booster in your home, business, or vehicle. Boost every network, including 5G, right away.



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## Package Contents



IoT Direct Cell Signal  
Amplifier & Wall  
Mount Bracket



Mini Mag Antenna & N  
Male to SMA Female  
Adapter



1' SMA to MMCX & 1'  
SMA to MCX Adapter  
Cables



2' SMA to N Male  
Cable



12V AC/DC Power  
Supply

## Available Accessories

### **314422 - Omni Plus Antenna**

- High gain, water resistant outdoor omni antenna that can be pole mounted or wall mounted. Bracket and hardware included.

### **952310 952320 952330 - 10, 20, 30 (ft.) N to N Cable**

- N-type male to N-type male, low loss, 50 ohm cable. Typically used to connect RFID/GPS wireless infrastructures, such as Wi-Fi antennas, routers and access points.

### **953014 - SMA to SMA 1' Cable**

- SMA male to SMA male flexible coaxial cable typically used to connect RFID/GPS wireless infrastructures.

### **953012 - SMA Female to MCX 1' Cable**

- Used to connect devices with mismatched connector types like IoT, Wi-Fi, wireless LAN equipment etc.

### **953013 - SMA Female to Right Angle MMCX 1' Cable**

- Used to connect devices with mismatched connector types like IoT, Wi-Fi, wireless LAN equipment etc.

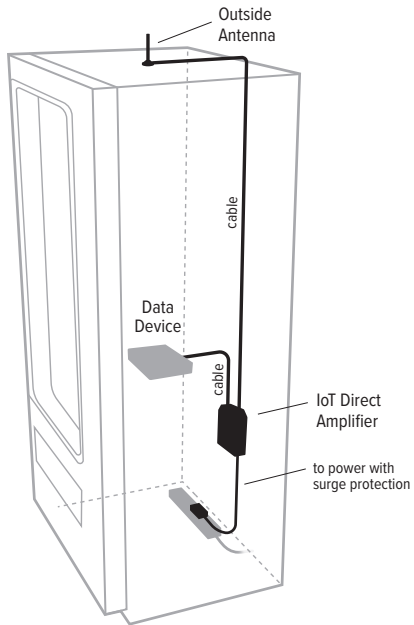
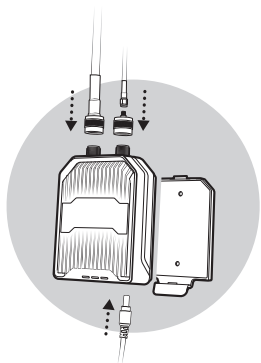
### **950079 - 12V DC Hardwire 11' Cable**

- Hardwired 12V DC cable with 2.1 mm barrel connector and stripped leads that provides a dedicated, reliable power source for continuous operation. Includes in-line fuse holder.

### **972000 - N Male to SMA Female Adapter**

- Allows a male SMA cable to be coupled to a female N connector.

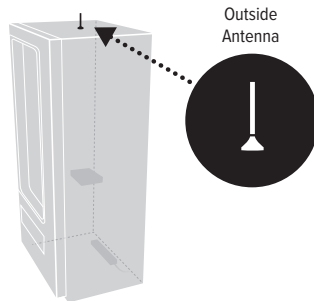
## IoT Retail Application Overview



## IoT Retail Application Steps

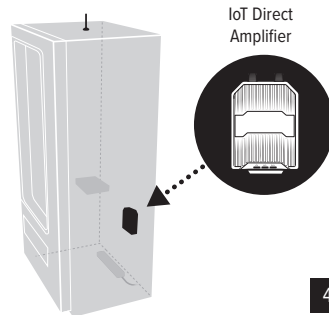
### STEP 1 Outside Antenna Placement

Mount the Outside Antenna on top of a metal structure that is free of obstructions and 12 in. away from any other antennas.



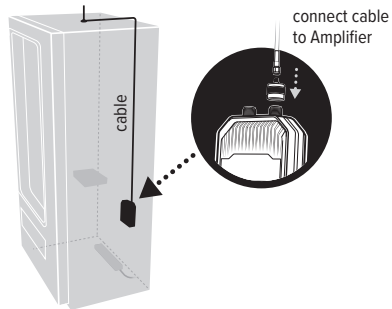
### STEP 2 Amplifier Placement

Select a location to install the Signal Amplifier that is away from excessive heat, direct sunlight, moisture and provides proper ventilation.



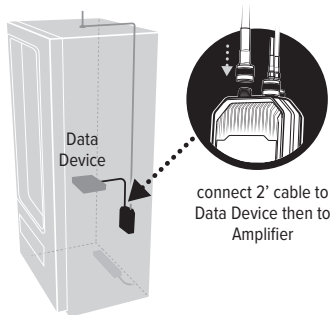
### STEP 3 Route & Connect Antenna to Amplifier

Run the Outside Antenna Cable to the Signal Amplifier and attach it to the connector labeled Outside Antenna. Cable adapter is included. Finger tighten only.




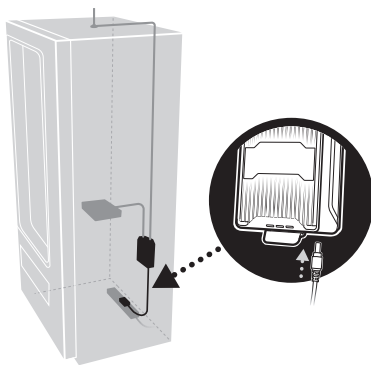
### STEP 4 Connect Device to Amplifier

Connect the provided cable to the data device (mcx adapter cable may be needed) then to the connector labeled Data Device on the Signal Amplifier. Finger tighten only.



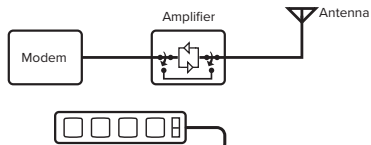
## STEP 5 Power Up the Amplifier

Plug the Power Supply into an outlet (or hardwire cable 950079 can be purchased as an available accessory), then connect to end of amplifier labeled .



### Important

- If the amplifier loses power, the internal circuitry bypasses the amplifier switch, allowing a direct connection to the antenna.
- Safeguard your devices. Using a surge protector is always recommended for these applications.



## Status Light Patterns

### SOLID GREEN D/L

A Solid Green D/L LED indicates that your amplifier is functioning properly and there are no issues with installation.

### BLINKING GREEN U/L

The U/L LED will rapidly blink (flicker) Green to indicate the amplifier is functioning properly and actively communicating with the cell tower.

### SOLID GREEN U/L

This indicates that U/L traffic has stopped and the amp will be entering a squelch/sleep state in about 90 seconds unless traffic resumes.

### UL LED OFF

After the U/L LED has been Solid Green for about 90 seconds, meaning there has been no communication to the cell tower during that time, the U/L LED will turn Off indicating the amplifier is in a squelch/sleep state.

### BLINKING GREEN/RED U/L and D/L

When the amplifier is initially powered on and it is operating at reduced gain to prevent oscillation (feedback), the U/L and D/L LEDs will be Solid Green for several

## Status Light Patterns (cont.)

seconds and then blink Green/Red for about 7 seconds, and then return to normal operation as described above. Refer to Troubleshooting section.

### SOLID RED U/L and D/L

When a Band has been shutoff, the U/L and D/L LEDs will be Solid Red. This is due to a feedback loop condition called oscillation. This is a built in safety feature that causes a band to shut off to prevent harmful interference with a nearby cell tower. Refer to Troubleshooting section.

### Power LED

The Power LED will be Solid Green when properly powered. It will never turn Red. If the LED is OFF, the amp is not receiving power.

# Troubleshooting

## FIXING RED LIGHT ISSUES

*This involves Solid Red & Blinking Green/Red lights.*

- Make sure all connections are tight. Disconnect and reconnect power supply.
- Increase the distance (horizontally or vertically) between the external antenna/amplifier and the data device. Disconnect and reconnect power supply.

## LIGHTS OFF

- Check connections on the power supply to see that it is firmly plugged into both the amplifier and the power source.

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📞 1-866-294-1660

🌐 [www.wilsoselectronics.com](http://www.wilsoselectronics.com)

✉ [support@wilsoselectronics.com](mailto:support@wilsoselectronics.com)

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## Safety Guidelines

Verify that both the Outside Antenna and the adapter extension cable are connected to the Signal Amplifier before powering up the Signal Amplifier.

Use only the power supply provided in this package. Use of non-Wilson Connectivity products may damage your equipment.

RF Safety Warning: Any antenna used with this device must be located at least 8 inches from all persons.

AWS Warning: The Outside Antenna must be installed no higher than 10 meters (31'9") above ground.

### This is a **CONSUMER** device.

---

**BEFORE USE**, you **MUST REGISTER THIS DEVICE** with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider.

In Canada, **BEFORE USE** you must meet all requirements set out in ISED CPC-2-1-05.

You **MUST** operate this device with approved antennas and cables as specified by the manufacturer. Antennas **MUST** be installed at least 20 cm (8 inches) from (i.e., **MUST NOT** be installed within 20 cm of) any person.

You **MUST** cease operating this device immediately if requested by the FCC (or ISED in Canada) or licensed wireless service provider.

**WARNING.** E911 location information may not be provided or may be inaccurate for calls served by using this device.

This device may be operated **ONLY** in a fixed location (i.e..may operate in a fixed location only) for in-building use.

## **Safety Guidelines (cont.)**

**FOR MORE INFORMATION ON REQUIREMENTS SET OUT IN ISED CPC-2-1-05, SEE BELOW:**

<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08942.html>

**FOR MORE INFORMATION ON REGISTERING YOUR SIGNAL BOOSTER WITH YOUR WIRELESS PROVIDER, PLEASE SEE BELOW:**

<https://www.weboost.com/carrier-registration>

## Antenna Info

The following accessories are certified by the FCC to be used with the IoT Direct Cell Signal Amplifier.

This radio transmitter 4726A-079 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

	BAND 12/17	BAND 13	BAND 5	BAND 4	BAND 25/2
Outside Antenna maximum permissible antenna gain (dBi) 50Ω	2.0	2.0	2.0	5.0	5.0

# Specifications

IoT Direct Cell Signal Amplifier					
Model	460079				
FCC	PWO079				
IC	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	<b>700 MHz B12/17</b> 23.1	<b>700 MHz B13</b> 23.6	<b>800 MHz B5</b> 22.8	<b>1700 MHz B4</b> 23.8	<b>1900 MHz B2</b> 23.6
Power output (Downlink) dBm	-6.3	-6.8	-5.8	-6.8	-7.0
Noise Figure	5 dB (nominal)				
Isolation	> 40 dB				
Power Requirements	12V, 2.0A				

The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met. Each Signal Amplifier is individually tested and factory set to ensure FCC compliance. The Amplifier cannot be adjusted without factory reprogramming or disabling the hardware. The Signal Amplifier will amplify, but not alter incoming and outgoing signals in order to increase coverage of authorized frequency bands only. If the Signal Amplifier 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 Amplifier detects an oscillation, the Signal Amplifier will automatically turn the power off on that band. For a detected oscillation the Signal Amplifier 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 Amplifier has been manually restarted by momentarily removing power from the Signal Amplifier. Noise power, gain, and linearity are maintained by the Signal Amplifier'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 Wilson Connectivity LLC could void the authority to operate this equipment. This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device. Changes or modifications not expressly approved by Wilson Connectivity LLC could void the authority to operate this equipment.

## ✔ 3 YEAR WARRANTY

weBoost Signal Boosters are warranted for three (3) years against defects in workmanship and/or materials. Warranty cases may be resolved by returning the product directly to the reseller with a dated proof of purchase.

Signal Boosters may also be returned directly to the manufacturer at the consumer's expense, with a dated proof of purchase and a Returned Material Authorization (RMA) number supplied by weBoost. weBoost shall, at its option, either repair or replace the product.

This warranty does not apply to any Signal Boosters determined by weBoost to have been subjected to misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

Replacement products may include refurbished weBoost products that have been recertified to conform with product specifications.

RMA numbers may be obtained by contacting Customer Support.

**DISCLAIMER:** The information provided by weBoost is believed to be complete and accurate. However, no responsibility is assumed by weBoost for any business or personal losses arising from its use, or for any infringements of patents or other rights of third parties that may result from its use.





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