we:boost
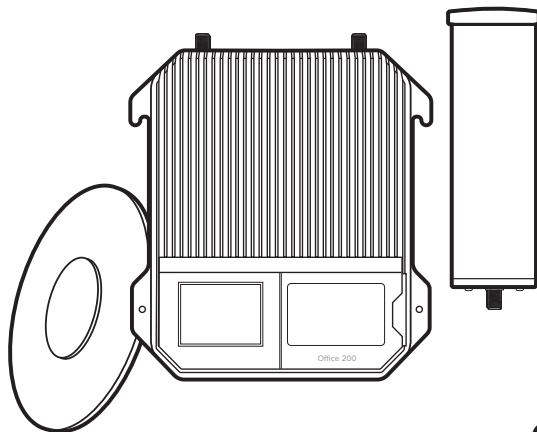
Office 200
Cell Signal Booster

Use our **weBoost App** to guide you through the installation. See inside page for more details.

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.

Index

Key Features

- Extended Dynamic Range (XDR) for continuous connectivity: XDR lets the Office 200 system work with any incoming signal and never shuts down due to a strong outside signal.

- Simple Wall-Mount Installation: An indoor and outdoor port are located on top of the amplifier for easy antenna connections, while an exposed mounting flange at each corner of the amplifier provides for simple and clean wall-mount installation.

- Onboard Software for Better Control: The amplifier is automatically controlled with automatic onboard software, ensuring great connectivity throughout large spaces and multi-story buildings. The amplifier will adjust its gain level up or down as required by the conditions of the immediate signal environment.

- Color LCD Touch Screen: The Office 200 utilizes a color LCD touch screen for assessing amplifier performance, making adjustments to the outside antenna, and turning bands on and off.
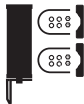
Package Contents

Booster &
Power Supply

Inside Antenna
(w/hardware)

Outside Antenna &
Mounting Bracket
(w/hardware)

75' & 60'
Wilson 400 Cables,
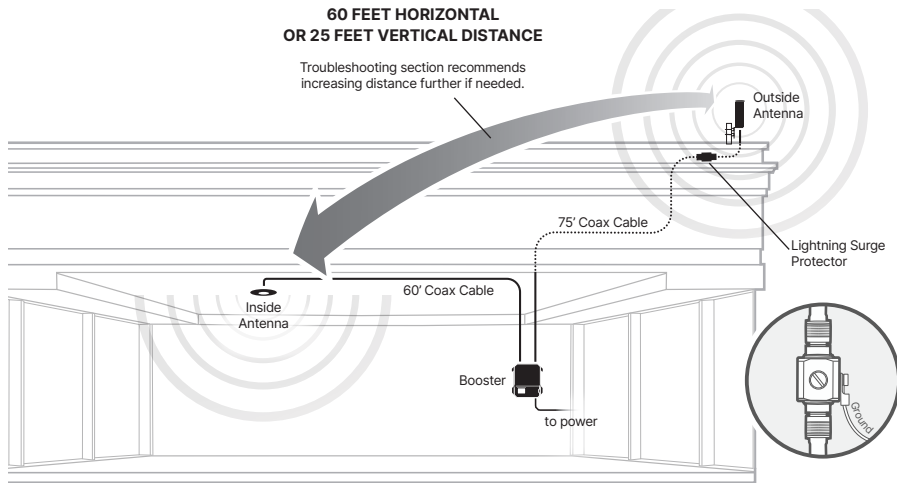Cable Clips,
& Cable Adapter

2' Wilson
400 Cable

Pole Mount
Assembly

Lightning Surge
Protector

Installation Overview

Before finalizing the installation, do a **soft install and optimize the system for best coverage.**

**60 FEET HORIZONTAL
OR 25 FEET VERTICAL DISTANCE**

Troubleshooting section recommends
increasing distance further if needed.

Outside
Antenna

75' Coax Cable

Lightning Surge
Protector

Inside
Antenna

60' Coax Cable

Booster

to power

Ground

Preparation

You Will Need

Make sure the following items are ready for your installation. The tools listed below are not included in your booster kit.

1 to 2 hours

- Ladder

- Drill (if routing cable through wall)

- 1"-2" diameter existing pole for mounting Outside Antenna (#901117 Pole Mount can be purchased separately if needed)

- Recommended: Power Strip with surge protection

STEP 1 Secure Pole Mount Assembly To Flat Surface

After finding optimal location for outside antenna, attach **wall mount bracket** to a flat surface then secure the **pipe to wall mount bracket with u-bolt and pole clamp.**

Pole

Pole Clamp

U-Bolt

Wall Mount Bracket

secure bracket with correct type of screws for the surface
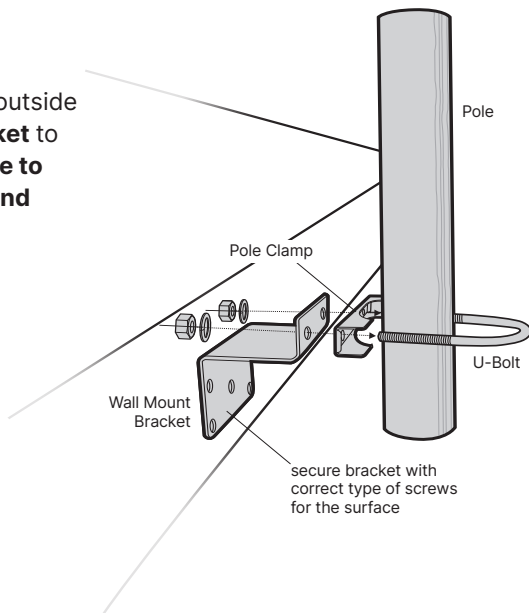
STEP 2 Mount Outside Antenna Toward Nearest Cell Tower

Pole and mounting hardware are included.
Attach the **mount** to the outside antenna and use the **bracket clamp** to attach the antenna to the pole provided or existing roof exhaust pipe.

NOTE: The Outside Antenna must be at least **50 feet horizontal or 20 feet vertical** from the Inside Antenna for best performance.

Outside Antenna

L-Bracket

U-Bolt

pole

Pole Bracket

50 feet horizontal or 20 feet
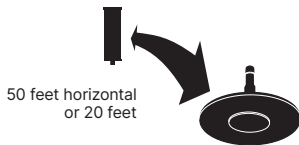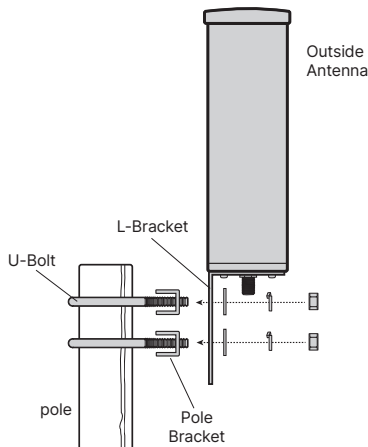
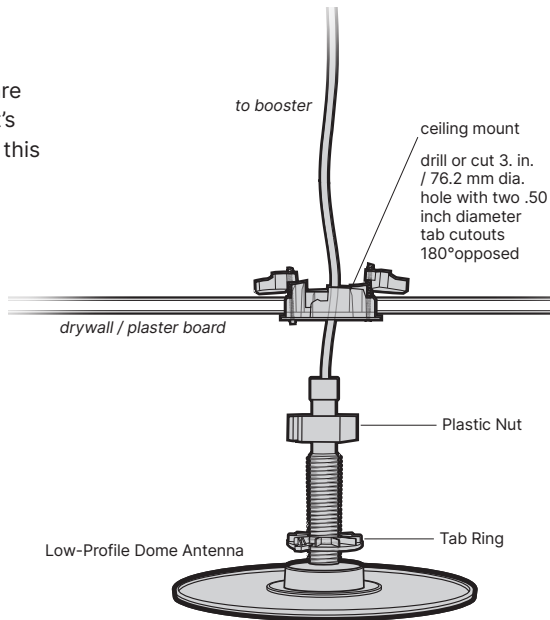## **STEP 3** Inside Antenna & Booster Placement

Place the **inside antenna** in a area where you need the greatest signal boost and place **booster** in your desired location at least **24 in. away** from inside antenna.

NOTE: Do not connect booster to power until the system is fully installed.

AT LEAST 24" APART
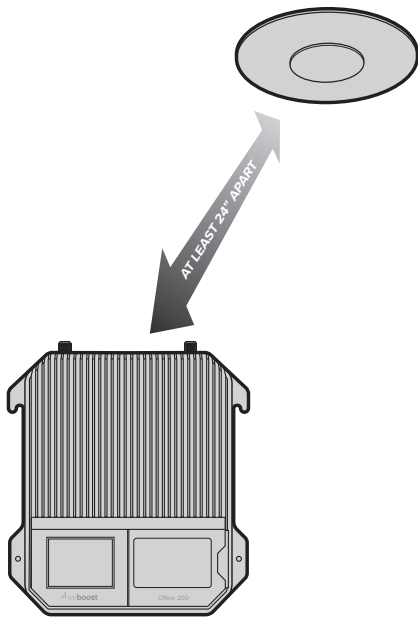
(STEP 3 cont.)

Further instructions on installation are included with low-profile antenna. It's recommended to do a soft install at this phase of the installation process.

to booster

ceiling mount

drill or cut 3. in. / 76.2 mm dia. hole with two .50 inch diameter tab cutouts 180°opposed

drywall / plaster board

Plastic Nut

Tab Ring

Low-Profile Dome Antenna

STEP 4 Route & Connect Outside Antenna to Booster

Connect **2 ft. coax cable** to **outside antenna**, attach the **lightning surge protector**, then connect the black **75 ft. coax cable** and route into building.

Outside Antenna

Lightning Surge Protector

2' Coax Cable

Cable Mounting Clips provided

75' Coax Cable
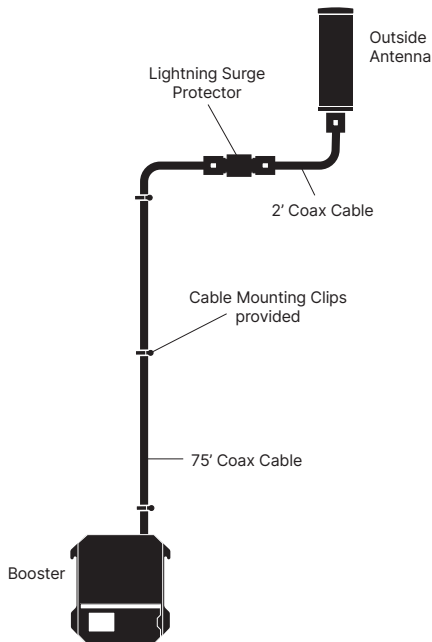
Booster

STEP 5 Route & Connect Inside Antenna to Booster

Connect the black **60 ft. coax cable** to inside antenna and route to the **Office 200 booster** and connect to the port labeled 'INSIDE ANTENNA'.

Inside Antenna

60' Coax Cable

Cable Mounting Clips provided

Booster

10
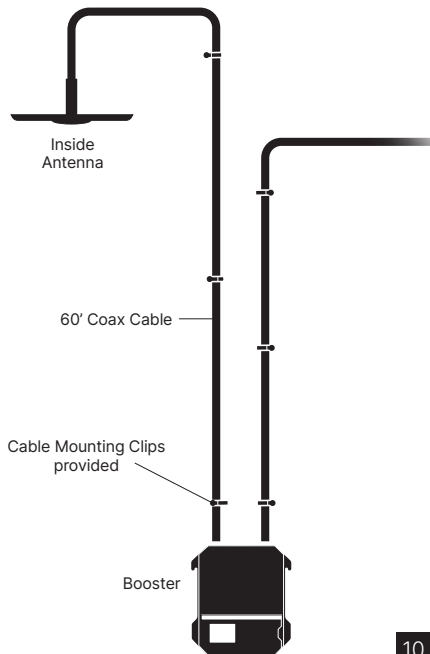
STEP 6 Power Up the Booster

Plug the **power supply** into wall outlet then connect to **end of booster labeled " ▬▬▬ "** (turn clockwise to lock connector).

NOTE: We strongly recommend using a power strip with surge protection.

to power ➤
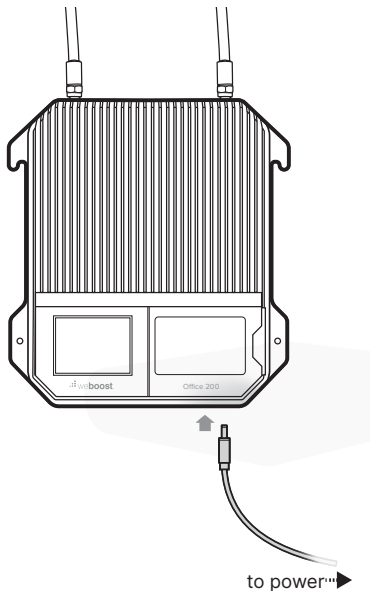
Measuring Booster Performance & Optimizing the System

We've created an easy way to learn your signal strength and compare it before and after a booster. **Download our free weBoost app** to get accurate decibel measurements to help you get the best performance from your system.

(Measuring Booster Performance & Optimizing the System cont.)

Signal Strength (dBm) with weBoost system powered **OFF:** _____
(dBm here)

Signal Strength (dBm) with weBoost system powered **ON:** _____
(dBm here)

Compare Results

Compare the decibels (dBm) on the chart below to find what signal strength you fall into.

Signal Strength	Excellent	Good	Fair	Poor	Dead Zone
3G/1x	-70dBm	-71 to -85dBm	-86 to -100dBm	-101 to -109dBm	-110dBm
4G/LTE	-90dBm	-91 to -105dBm	-106 to -110dBm	-111 to -119dBm	-120dBm

Did you know a signal increase of just 3dB is 2 times the power and signal amplification!

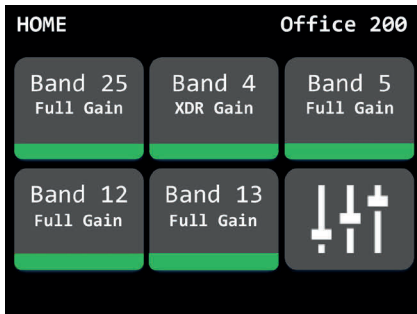| Gain Improvement	Signal Improvement
3dB	2X
6dB	4X
10dB	10X
20dB	100X

Menu System

The Office 200 takes about 5 seconds to boot up. Once boot up is complete, the home screen will appear, showing the amplification and status of each port and band.

Start Up Screen

Home Screen

(Menu System cont.)

Band Menu Color Description

- GREEN: A solid green light indicates that a band is operating correctly with maximum allowable gain.

- YELLOW: A solid yellow light indicates band gain reduction because of an oscillation condition. Reposition antennas (increase separation between indoor and outdoor antennas, and then reboot (turn the unit off & on) the Office 200 to reactivate the band and maximize performance. When adequate separation is achieved, the yellow lights will return to green upon reboot. Note: when the light is yellow, the band is operational; however, performance is reduced.

- RED: A red light indicates a band has been shut down because of a severe oscillation condition or repeated oscillation. Reposition antennas (increase separation between indoor and outdoor antennas, and then reboot (turn the unit off & on) the Office 200 to reactivate the band and maximize performance. When adequate separation is achieved, the red light(s) will return to green upon reboot.

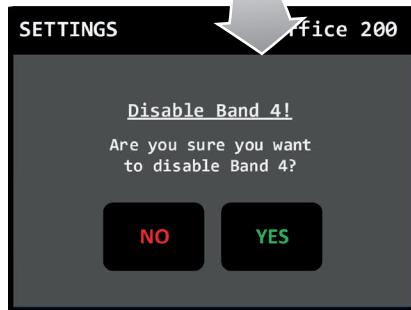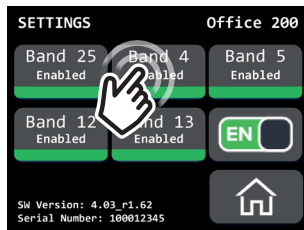- GRAY: Gray indicates band has been disabled.

(Menu System cont.)

Settings Screen

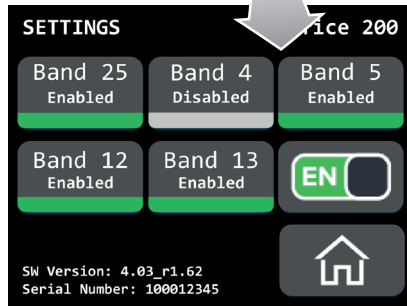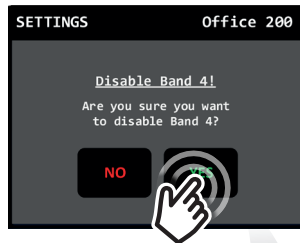Tap icon to view the **Settings Screen**.
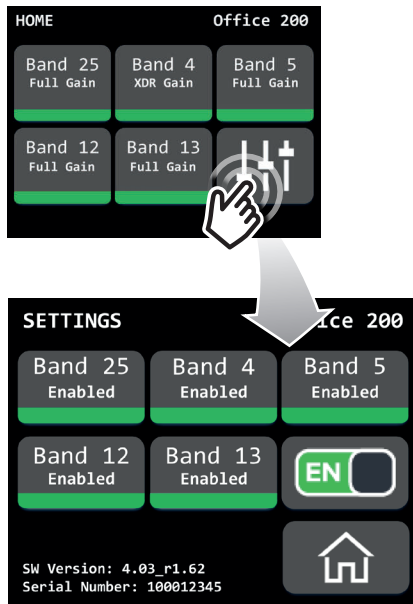
(Menu System cont.)

Bands can be disabled/enabled by tapping the desired band. Note: disabling a cell band is not recommended. Bands should only be disabled by expert installers.
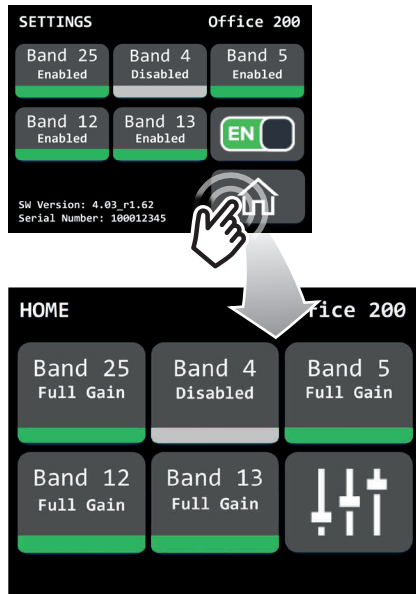
(Menu System cont.)

(Menu System cont.)

To go back to the home screen tap on the **home icon**.

(Menu System cont.)

To view specific band information (such as the strength of the received uplink & downlink signal, status details and the amplifier gain) tap desired band on the home screen.
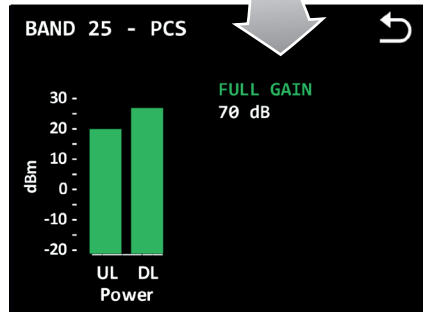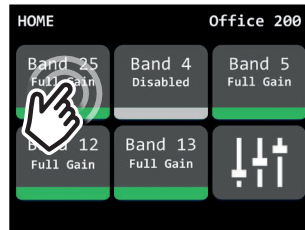
(Menu System cont.)

By tapping on the desired Band, a more detailed screen will appear for better troubleshooting.

Note: If the reduced gain due to oscillation is greater or equal to 60dB, this condition will be displayed as Green instead of Yellow and no action is necessary.

(Menu System cont.)

HOME   Office 200

| Band 25
Full Gain | Band 4
XDR Gain | Band 5
Full Gain |
| Band 12
Shutdown | Band 13
Full Gain | |

BAND 12 – LTE LOW

SHUTDOWN

Check antenna separation and orientation. Cycle power to restart system.

Contact Technical Support at 866-294-1660 for further assistance.
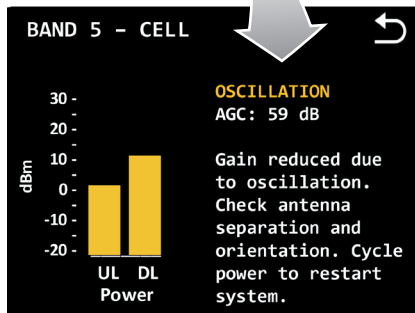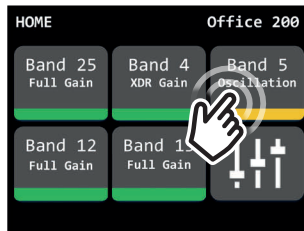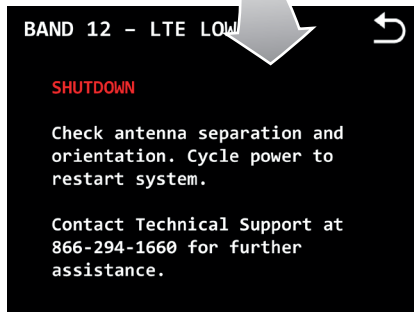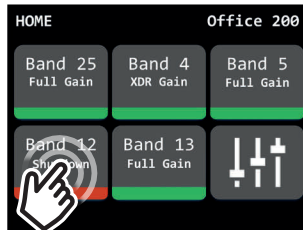
Troubleshooting

IF YOU ARE HAPPY WITH THE COVERAGE, THESE LIGHT ISSUES DON'T HAVE TO BE RESOLVED. YOUR CARRIER'S BAND HAS NOT BEEN AFFECTED.

If the bands are any color other than green, use the touchscreen LCD and tap any given band that's not green to see troubleshooting options.

🎧 1-866-294-1660   ⊕ www.**weboost**.com   ✉ support@**weboost**.com

Safety Guidelines

To uphold compliance with network protection standards, all active cellular devices must maintain at least six feet of distance from Inside Panel and Dome Antennas and at least four feet of distance from Desktop Antenna.

Use only the Power Supply provided in this package. Use of a non-weBoost product may damage your equipment.

The booster should not be installed at a height exceeding 2 meters (79").

The signal booster unit is designed for use in an indoor, temperature-controlled environment (less than 100 degrees Fahrenheit). It is not intended for use in attics or similar locations subject to temperatures in excess of that range.

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 feet 9 inches) 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 for in-building use.

(Safety Guidelines cont.)

FOR MORE INFORMATION ON REGISTERING YOUR SIGNAL BOOSTER WITH YOUR WIRELESS PROVIDER IN THE U.S., PLEASE GO TO THE LINK BELOW:

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

Antenna Info

The following accessories are certified by the FCC to be used with the Office 200 Booster.

This radio transmitter 4726A-460047 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum 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.

FIXED INSIDE ANTENNA KIT OPTIONS				
Kit #	Coax Type	Ln(m)	Antenna Type	Ω
304412 / 304419	Wilson 400 / RG-11	18	Dome	50 / 75

FIXED OUTSIDE ANTENNA KIT OPTIONS				
Kit #	Coax Type	Ln(m)	Antenna Type	Ω
314411 / 314475	Wilson 400 / RG-11	22	Directional	50 / 75
304422 / 304423	Wilson 400 / RG-11	22	Directional	50 / 75
304424 / 304421	Wilson 400 / RG-11	22	Omni	50 / 75
314453 / 314473	Wilson 400 / RG-11	22	Panel	50 / 75

Specifications

Office 200 Booster				
Model	460047			
FCC	PWO460047			
IC	4726A-460047			
Connectors	F-Female			
Antenna Impedance	75 Ohms			
Frequency	698-716 MHz, 729-756 MHz, 777-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755/2110-2155 MHz			
Power output for single cell phone (Uplink) dBm	**700 MHz B12/17** 24.0	**700 MHz B13** 24.0	**800 MHz B5** 25.0	**1700 MHz B4** 25.0	**1900 MHz B25/2** 25.0
Power output for single cell phone (Downlink) dBm	15.1	15.1	15.3	**2100 MHz B4** 25.0	15.2
Noise Figure	5 dB (nominal)			
Isolation	>90 dB			
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 term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met. This device complies with Part 15 of FCC rules. 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 weBoost could void the authority to operate this equipment.

⊘ 3 YEAR WARRANTY

weBoost Signal Boosters are warranted for two (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.

we:boost

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