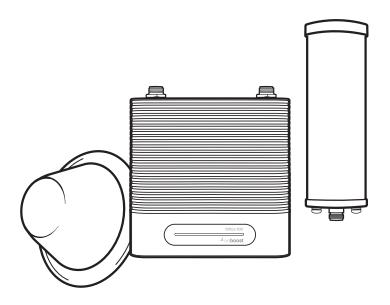


# Office 100

Cell Signal Booster



## **Installation Guide**

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## Package Contents

#### Office 100 50 Ohm Kit



Office 100 Booster



Inside Antenna (304412)



Outside Antenna (314422)



75' & 60' Wilson 400 Cables (952360 & 952375)



2' Wilson 400 Cable (952302)



Power Supply (850030)



Lightning Surge Protector (859902)



Cable Mounting Clips

#### Office 100 75 Ohm Kit



Office 100 Booster



Inside Antenna (304419)



Outside Antenna (314423)



75' & 60' RG-11 Cables (951160 & 951175)



2' RG-11 Cable (951127)



Power Supply (850030)



Lightning Surge Protector (859992)



Cable Mounting Clips

## Preparation

## You Will Need (tools not included)

Make sure the following materials are prepared and ready for your installation.

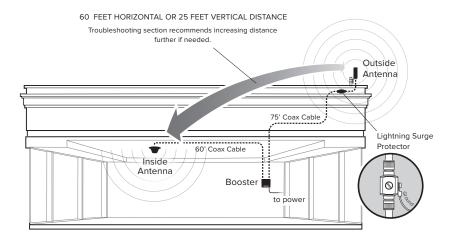


1 to 2 hours



- Ladder
- ☐ Drill
- ☐ 1" 2" diameter existing pole for mounting
  Outside Antenna (#901117 Pole Mount can be
  purchased separately if needed)
- ☐ Recommended: Power Strip with surge protection

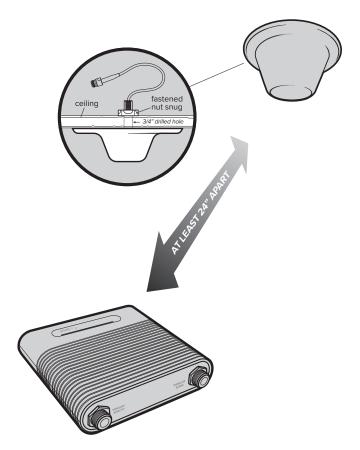
# Installation Diagram



# **Step 1:** Inside Antenna & Booster Placement

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

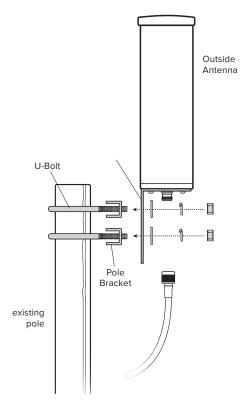
NOTE: Do not connect booster to power until the system is fully installed.



## Step 2: Mount Outside Antenna

#### Pole mounting and wall mounting options are included.

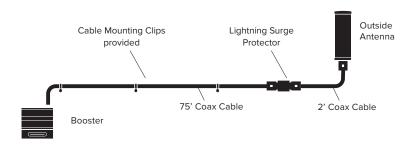
Attach the **mount** to the outside antenna and use the **bracket clamp** to attach the antenna to a pole or exhaust pipe.



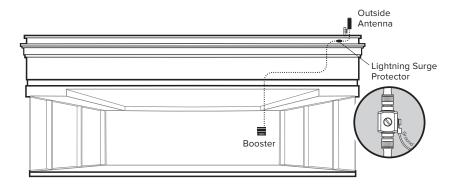
NOTE: Mounting on existing roof exhaust pipe would be a good time-saver option. Watch out for power lines.

# **Step 3:** 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.

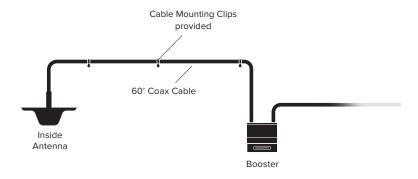


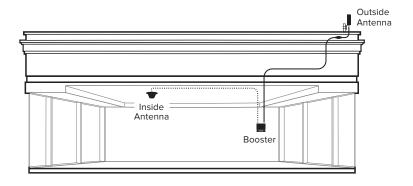
Route cable to the **Office 100 booster** and connect to the port labeled 'OUTSIDE ANTENNA'.



# **Step 4:** Route & Connect Inside Antenna To Booster

Connect the black **60 ft. coax cable** to inside antenna and route to the **Office 100 booster** and connect to the port labeled 'INSIDE ANTENNA'.

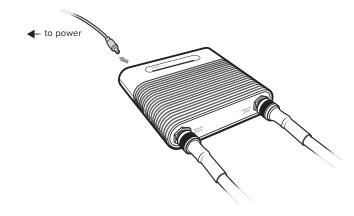


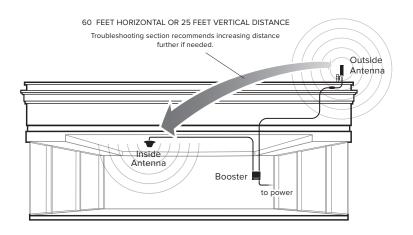


# **Step 5:** Power Up The Booster

Plug the **power supply** into wall outlet then connect to end of booster labeled " **===** " and enjoy your boosted signal.

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





# Measuring Booster Performance

## How To Get Signal Strength As A Number

**iPhone**® iOS 11 and later no longer displays the decibel (dBm) reading

in 'Field Test Mode'. Tip: Using the signal bars and performing data speed tests on your cell phone can assist you in finding the strongest signal direction as well as placing calls in different locations. For changes/updates on this issue, periodically go to

weboost.com/signalstrength.

**Android**<sup>™</sup> Settings > About Phone > Status or Network > Signal Strength or

Network Type and Strength (exact options/wording depends on

phone model).

iPhone is a registered trademark of Apple Inc. Android is a trademark of Google Inc.

### All Other Phones & Alternate Methods

Go to www.weboost.com/signalstrength

### (MEASURING BOOSTER PERFORMANCE cont.)

## Signal Strength without Booster

Note here:	

## Signal Strength with Booster

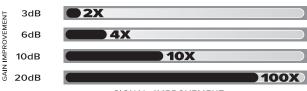
Note here:

## Compare Results

Having an accurate measurement of signal strength in decibel-milliwatts (dBm) is crucial when installing your system. dBm accurately measure the signal strength you are receiving.

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!



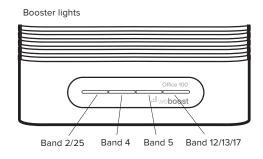
## **Light Patterns**

#### Solid Green

This indicates that your booster is functioning properly and there are no issues with installation.

### Blinking Green & Red

Band has reduced gain. This indicates that one or more of the booster bands has reduced gain due to a feedback



loop condition called oscillation. This is a built in safety feature to prevent harmful interference with a nearby cell tower. If you are already experiencing the desired signal boost, then no further adjustments are necessary. If you are not experiencing the desired boost in coverage then refer to the Troubleshooting section.

#### Solid Red

Band has shutoff. 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 the Troubleshooting section.

## Blinking Green & Yellow

Band has reduced gain. This indicates that one or more of the Booster bands has reduced power due to overload from nearby cell tower. This is a built-in safety feature to prevent harmful interference with a nearby cell tower. If you are already experiencing the desired signal boost, then no further adjustments are necessary. If you are not experiencing the desired boost in coverage then refer to the Troubleshooting section.

#### Solid Yellow

Band has shutoff. This is due to overload from nearby cell tower. Outside antenna must be adjusted. Refer to the Troubleshooting section.

## Light Off

If the signal booster's light is off, verify your power supply has power.

## **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.

### FIXING ANY RED LIGHT ISSUES

This involves Solid Red & Blinking Green/Red lights.

- 1 Verify the inside antenna is at least 24" from the booster. Unplug and replug in power supply.
- Tighten all cable connections (be sure to hand tighten only, do NOT use tools). You may want to undo and redo the connection completely. Unplug and replug in power supply.
- 3 Increase the distance (horizontally or vertically) between the outside and inside antenna. Unplug and replug in power supply.

#### FIXING ANY YELLOW LIGHT ISSUES

This involves Solid Yellow & Blinking Green/Yellow lights.

**Outside antenna must be adjusted**. Wait 10 seconds between adjustments and unplug and replug for the lights to reset.

Change mount location. Move the outside antenna to a new location of the home/building to see if the lights turn green. Unplug and replug in power supply. Then secure in place.







## Safety Guidelines

Use only the power supply provided in this package. Use of a non-weBoost power supply may damage your equipment.

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 (31'9") 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.

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 any person.

You **MUST** cease operating this device immediately if requested by the FCC 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.

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

T-Mobile/MetroPCS: https://www.t-mobile.com/support/coverage/register-a-signal-booster

Verizon Wireless: https://www.verizon.com/solutions-and-services/accessories/register-signal-booster/

AT&T/Cricket: https://securec45.securewebsession.com/attsignalbooster.com/

UScellular: https://www.uscellular.com/support/fcc-booster-registration

# **Antenna Kit Options**

The following accessories are certified by the FCC to be used with the Office 100 Booster.

	BAND 12/17	BAND 13	BAND 5	BAND 4	BAND 25/2
Outside antenna maximum permissible antenna gain (dBi) $50\Omega$	4.4	4.2	3.9	4.4	4.6
Inside antenna maximum permissible antenna gain (dBi) $50\Omega$	3.2	3.0	3.2	2.4	2.5

FIXED INSIDE ANTENNA KIT OPTIONS					
Kit #	Coax Type	Ln(ft)	Antenna Type	Ω	
304419	RG-11	30	Dome	75	
301211	RG-11	30	Panel	75	
314440	RG-11	30	Panel	75	
314444	RG-11	30	Panel	75	

FIXED OUTSIDE ANTENNA KIT OPTIONS					
Kit #	Соах Туре	Ln(ft)	Antenna Type	Ω	
314445	RG-11	30	Directional	75	
314475	RG-11	30	Directional	75	
304423	RG-11	30	Omni	75	
304421	RG-11	30	Omni	75	
314473	RG-11	30	Panel	75	

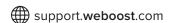
## **Specifications**

Office 100™							
460060							
	PWO460060						
	١	N-Female or F-Female					
50 Ohms or 75 Ohms							
698-716 MHz, 729-756 MHz, 777-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755/2110-2155 MHz							
700 MHz Band12/17	700 MHz Band13	800 MHz Band 5	1700 MHz Band 4	1900 MHz Band 25/2			
25.6	25.2	25.8	25.2	25.2			
700 MHz Band12/17	700 MHz Band13	800 MHz Band 5	2100 MHz Band 4	1900 MHz Band 25/2			
13.6	13.3	12.7	12.9	12.5			
5 dB nominal							
> 110 dB							
5 VDC							
	700 MHz Band12/17 25.6 700 MHz Band12/17	698-716 MHz, 729-756 MHz, 777-787 MH 700 MHz 700 MHz Band12/17 Band13 25.6 25.2 700 MHz 700 MHz Band12/17 Band13	460060 PWO460060 N-Female or F-Female 50 Ohms or 75 Ohms 698-716 MHz, 729-756 MHz, 777-787 MHz, 824-894 MHz, 1850- 700 MHz Band12/17 Band13 Band 5 25.6 25.2 25.8 700 MHz Band12/17 Band13 Band 5 13.6 13.3 12.7 5 dB nominal	460060 PWO460060 N-Female or F-Female 50 Ohms or 75 Ohms 698-716 MHz, 729-756 MHz, 777-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-175 700 MHz Band1217 Band13 Band 5 Band 4 25.6 25.2 25.8 25.2 700 MHz 700 MHz 800 MHz 800 MHz 2100 MHz Band1217 Band13 Band 5 Band 4 25.6 750 MHz 750 MHz 800 MHz 100 MHz 800 MHz 800 MHz 100 MHz 800			

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.

NEED HELP?





# 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 retested 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.

Notes		
NEED HELP?	support.weboost.com	<b>∂</b> 866.294.1660











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