



Atcall SF005A SuperLink Cell Signal Booster Installation Guide

[Home](#) » [Atcall](#) » Atcall SF005A SuperLink Cell Signal Booster Installation Guide 

Contents

- [1 Atcall SF005A SuperLink Cell Signal Booster](#)
- [2 Product Information](#)
- [3 Package Contents](#)
- [4 Product Usage Instructions](#)
- [5 product Measuring Booster Performance](#)
- [6 product Specifications](#)
- [7 product Warranty](#)
- [8 Package Contents](#)
- [9 Preparation](#)
- [10 INSTALLATION INSTRUCTION](#)
- [11 Installation – LCD Display Method](#)
- [12 Measuring Booster Performance](#)
 - [12.1 How To Get Signal Strength As A Number](#)
- [13 Safety Guidelines](#)
- [14 Specifications](#)
- [15 3 YEAR WARRANTY](#)
- [16 FCC Statement](#)
- [17 Documents / Resources](#)
 - [17.1 References](#)

Atcall

Atcall SF005A SuperLink Cell Signal Booster



Product Information

The Atcall SuperLink Cell Signal Booster is a cell booster designed for young users. It is a device that amplifies cell signals to improve cell phone reception and data speed. The package includes a booster with a built-in antenna, an outside antenna, 60ft of RG6 cable, a power supply, and a roof/pole mount bracket. The device comes with a 3-year manufacturer's warranty.

Package Contents

- SuperLink(Built-in Antenna)
- Outside Antenna
- 60ft of RG6 Cable
- Power Supply
- Roof/Pole Mount Bracket

Product Usage Instructions

Preparation

Before starting the installation process, make sure you have the following materials ready:

- 1 to 2 hours
- 2 people (a person to help antenna calibration)
- Ladder
- Drill (if routing cable through wall)
- 1-3 diameter existing pole for mounting
- Outdoor Antenna (Pole Mount can be purchased separately if needed)
- Recommended: Power Strip with surge protection

Step 1: Install the Booster

Install the Booster with built-in indoor antenna where you need the greatest signal boost and place it in your desired location. Mount the signal booster in a ventilated and dry place that is easily accessible for maintenance (it should be located near a power outlet). While choosing a location for the booster, please keep in mind that there must be at least 20 ft of vertical separation between the outdoor antenna and the booster with built-in indoor antenna.

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

Step 2: Mount & Point Outside Antenna Toward Nearest Cell Tower

Pole mounting and wall mounting options are included. The pole mounting option is preferred because it will be easier to adjust to the direction of the cell tower. Attach the Mount to the Outside Antenna and use the Bracket Clamps to attach the Antenna to a pole or exhaust pipe. Make sure that the outside unit is mounted at least 3 feet away from any windows. Outdoor antenna must be installed over the roof line. Watch out for power lines.

Step 3: Route & Connect Outside Antenna To Booster

Route and connect the outside antenna to the booster using the 60ft of RG6 cable included in the package.

Step 4: Power Up The Booster & Optimize The System

After connecting all components, power up the booster and optimize the system by following the instructions provided in the user manual.

product Measuring Booster Performance

Use your cell phone to measure booster performance by checking signal strength before and after installation. You can also use an app such as 'Open Signal' to find the nearest cell phone tower. Safety Guidelines Read and follow all safety guidelines provided in the user manual before starting installation.

product Specifications

Refer to page 17 of the user manual for product specifications.

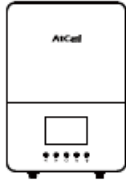
product Warranty

The Atcall SuperLink Cell Signal Booster comes with a 3-year manufacturer's warranty. Refer to page 18 of the user manual for warranty information.

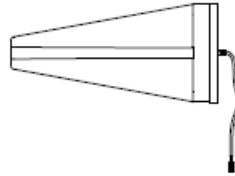
NEED HELP ?

- sunford_after-sales@outlook.com
- 3-year manufacturer's warranty

Package Contents



SuperLink(Built in
Antenna)



Outside
Antenna



60ft of
RG6 Cable



Power
Supply



Roof/Pole
Mount
Bracket

Preparation

You Will Need (tools not included)

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

- 🕒 • 1 to 2 hours
- 👤 • 2 people (a person to help antenna calibration)
- Ladder
- 🧰 • Drill (if routing cable through wall)
- 1"-3" diameter existing pole for mounting Outdoor Antenna (Pole Mount can be purchased separately if needed)
- Recommended: Power Strip with surge protection

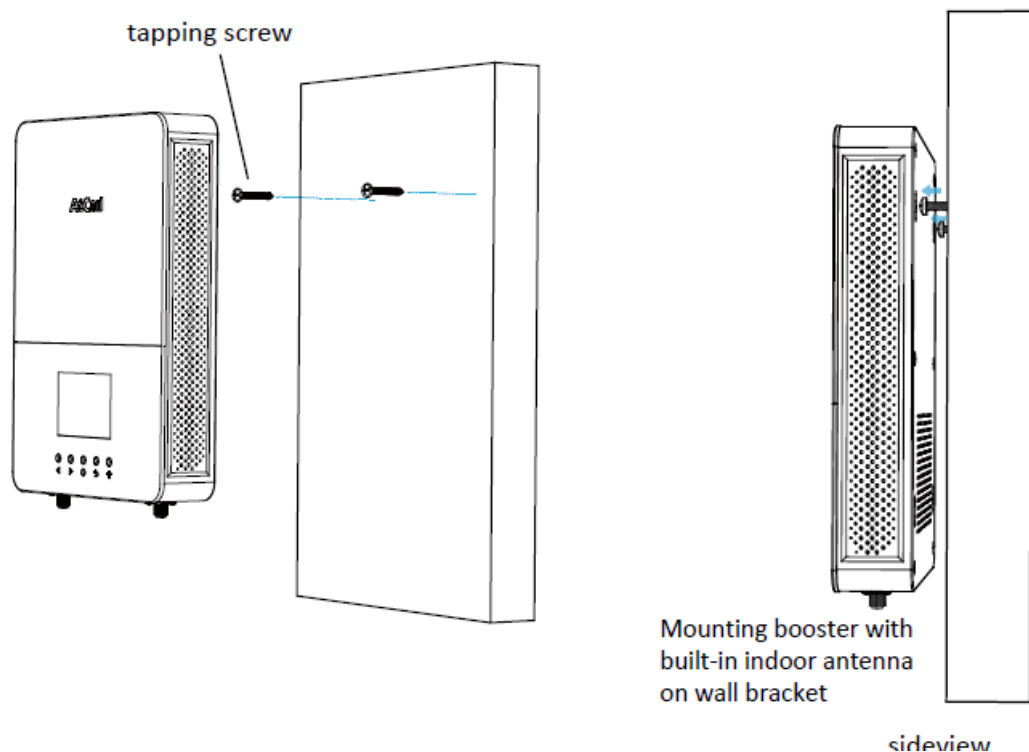
NOTE: These instructions will walk you through a “soft” install process to find the optimal locations for the inside and outside antennas, then through the process of the permanent installation.

INSTALLATION INSTRUCTION

Step 1: Install the Booster

Install the Booster with a built-in indoor antenna where you need the greatest signal boost and place it in your desired location. Mount the signal booster in a ventilated and dry place that is easily accessible for maintenance (it should be located near a power outlet) While choosing a location for the booster, please keep in mind that there must be at least 20 ft of vertical separation between the outdoor antenna and the booster with built-in indoor antenna.

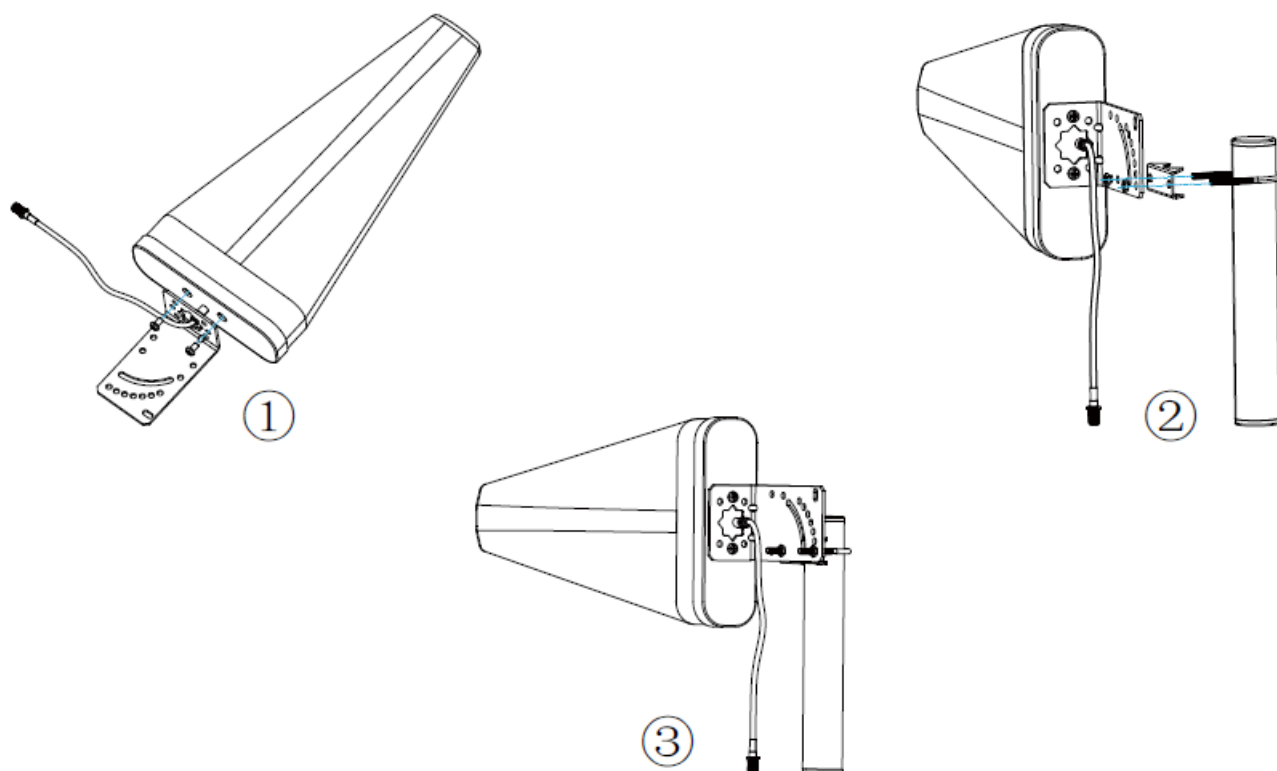
NOTE: Do not connect the booster to power until the system is fully installed.



Booster will about 30 degrees Fahrenheit higher than the ambient temperature, which is a normal phenomenon.

Step 2: Mount & Point Outside Antenna Toward Nearest Cell Tower

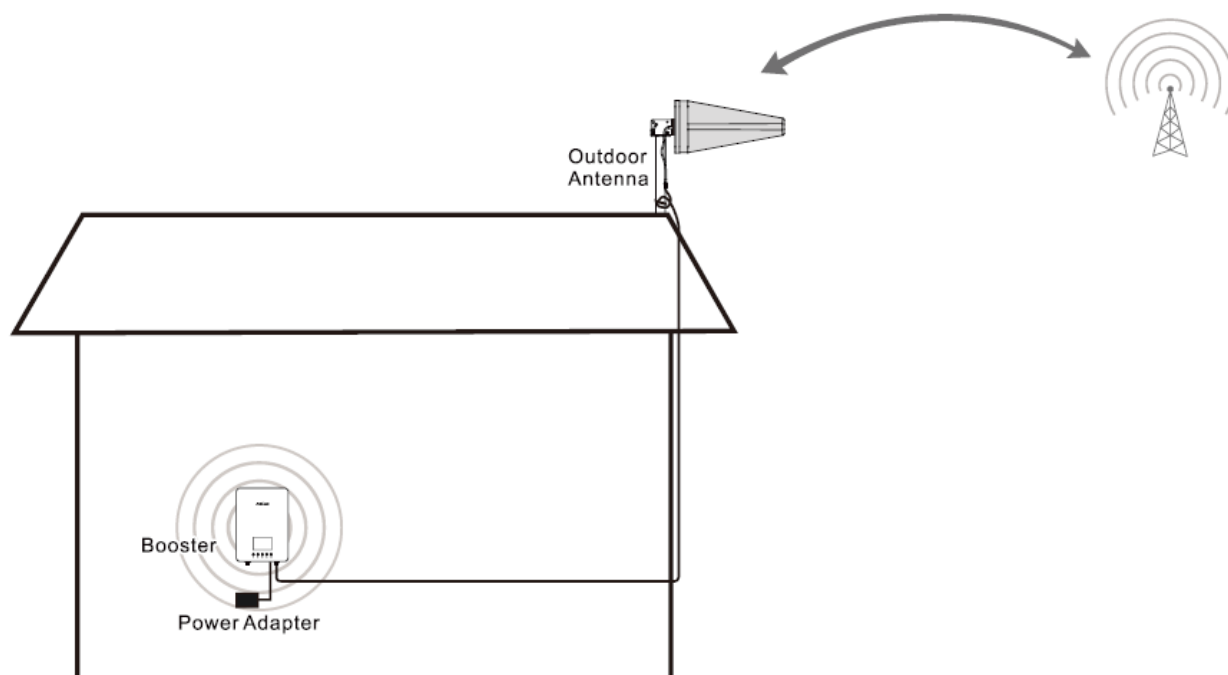
Pole mounting and wall mounting options are included. The pole mounting option is preferred because it will be easier to adjust to the direction of the cell tower. Attach the Mount to the Outside Antenna and use the Bracket Clamps to attach the Antenna to a pole or exhaust pipe.



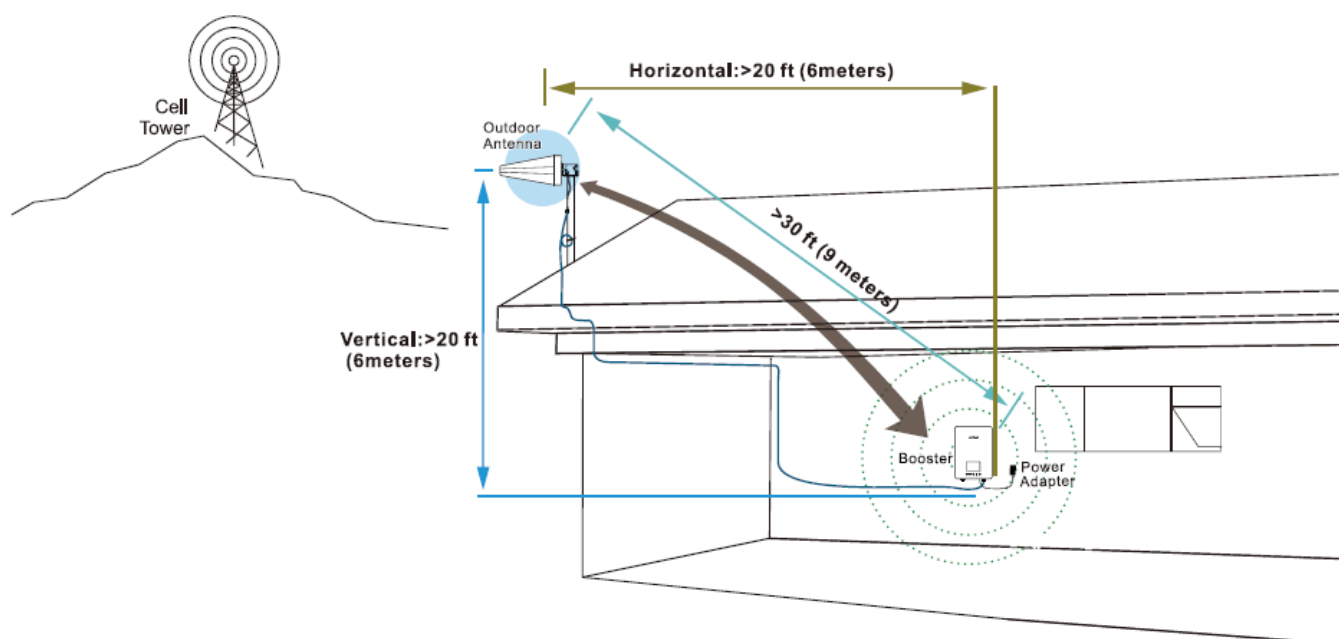
Make sure that the outside unit is mounted at least 3 feet away from any windows. An outdoor antenna must be installed over the roof line.

NOTE: Mounting on the existing roof exhaust pipe would be a good time-saver option. Watch out for power lines. Point the Outside Antenna toward the nearest cell phone tower. To find the nearest tower, use an app such as

'Open Signal'. This is the most critical step of the installation process because it will determine the overall performance of the booster system.



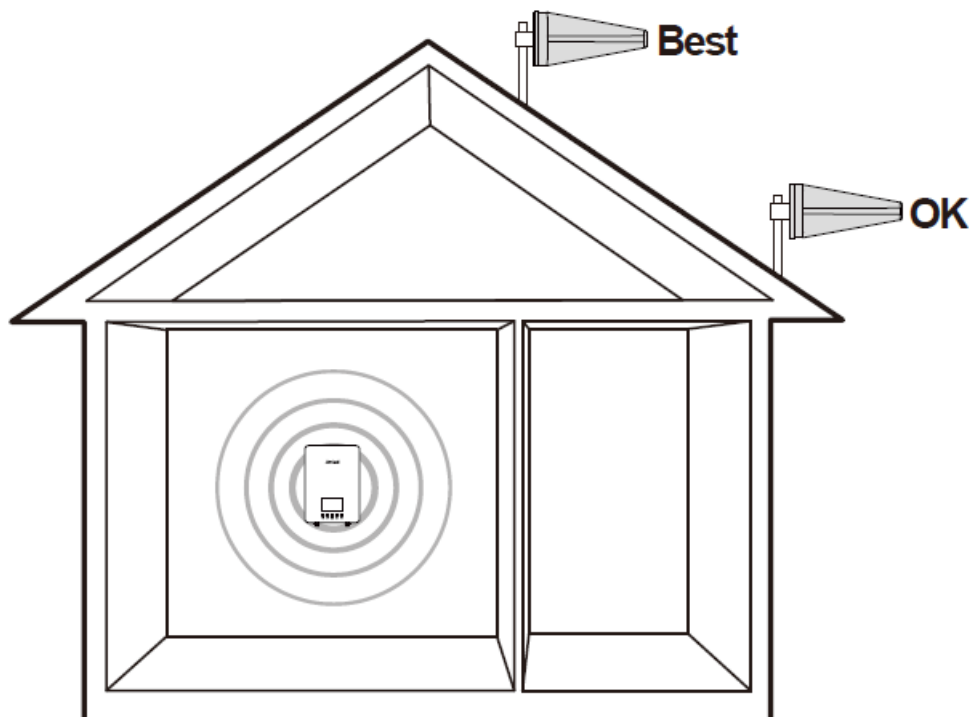
Keep enough distance between an outside antenna and the booster



NOTE:

The Outside Antenna must be at least 30 feet (9 meters) Straight line distance or 20 feet (6 meters) horizontal 20 feet (6 meters) vertical from the booster with a built-in indoor antenna for best performance. The greater the separation between the Booster with a built-in indoor antenna and Outside Antenna, the better performance you will get from the booster.

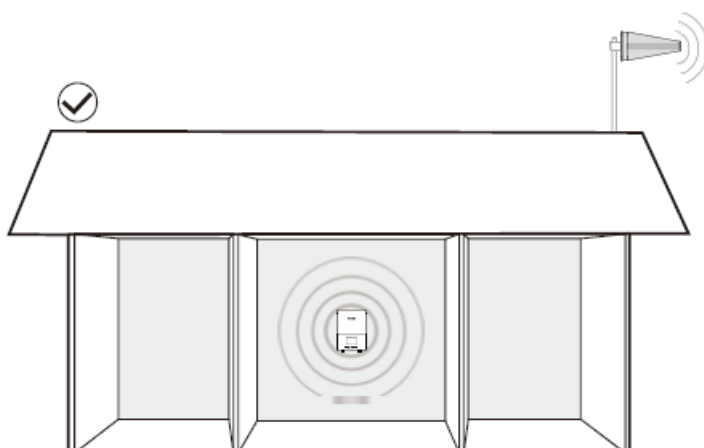
Select the optimal mounting location for the outside antenna



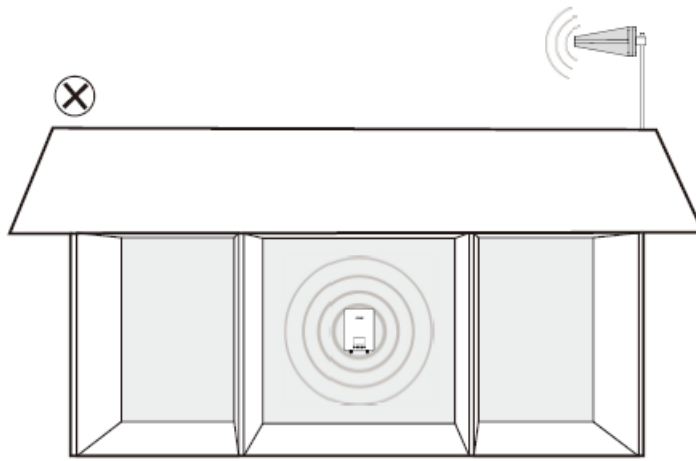
After identifying the area of the strongest signal, choose the surface where you will mount your outside antenna.

1. The location should allow for sufficient separation between the outside antenna and the inside antenna.
2. In order to better receive external signals, the outside antenna is best installed in a higher position on the house, but please pay attention to lightning protection.

Booster and Antenna mutual position



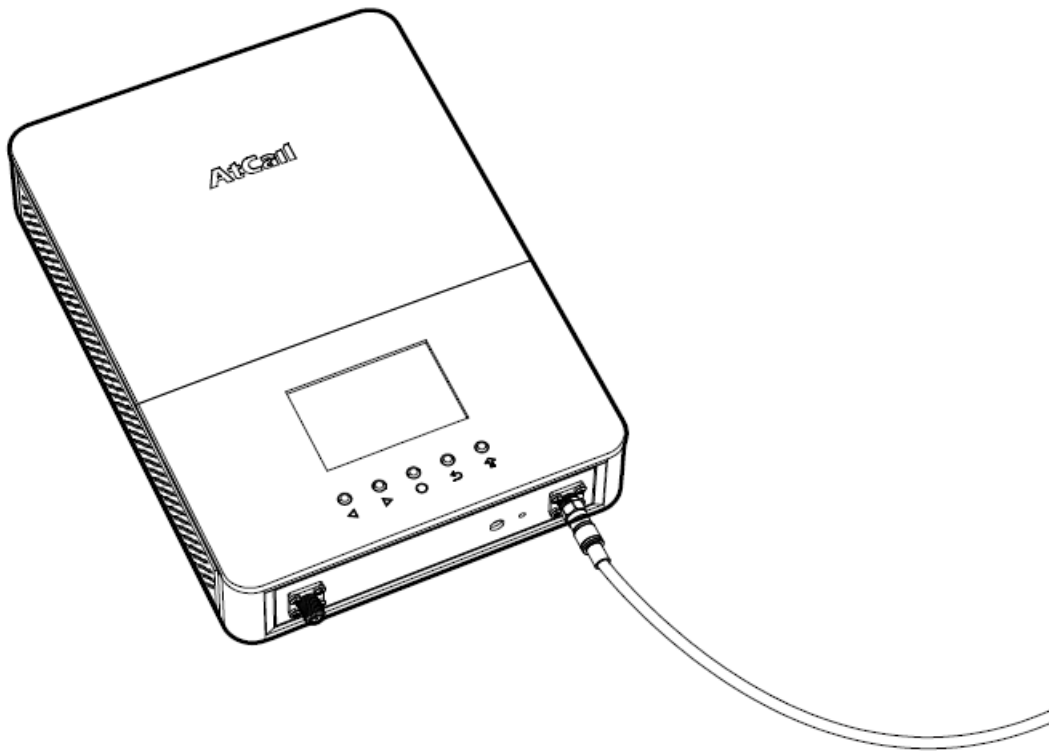
The outside antenna should be oriented in a way that it does not “face” the booster with a built-in indoor antenna.



Caution: Do not aim an outside antenna towards the booster with a built-in indoor antenna.

Step 3: Route & Connect Outside Antenna To Booster

Connect the 60ft RG6 Cable to Outside Antenna and route cable into the home, secure the cable near the antenna. All connections should be finger-tightened only.



Route cable to the Booster and connect to the port labeled 'OUTSIDE'.

Step 4: Power Up The Booster & Optimize The System Plug in the Power Supply and connect it to the nearest power outlet.

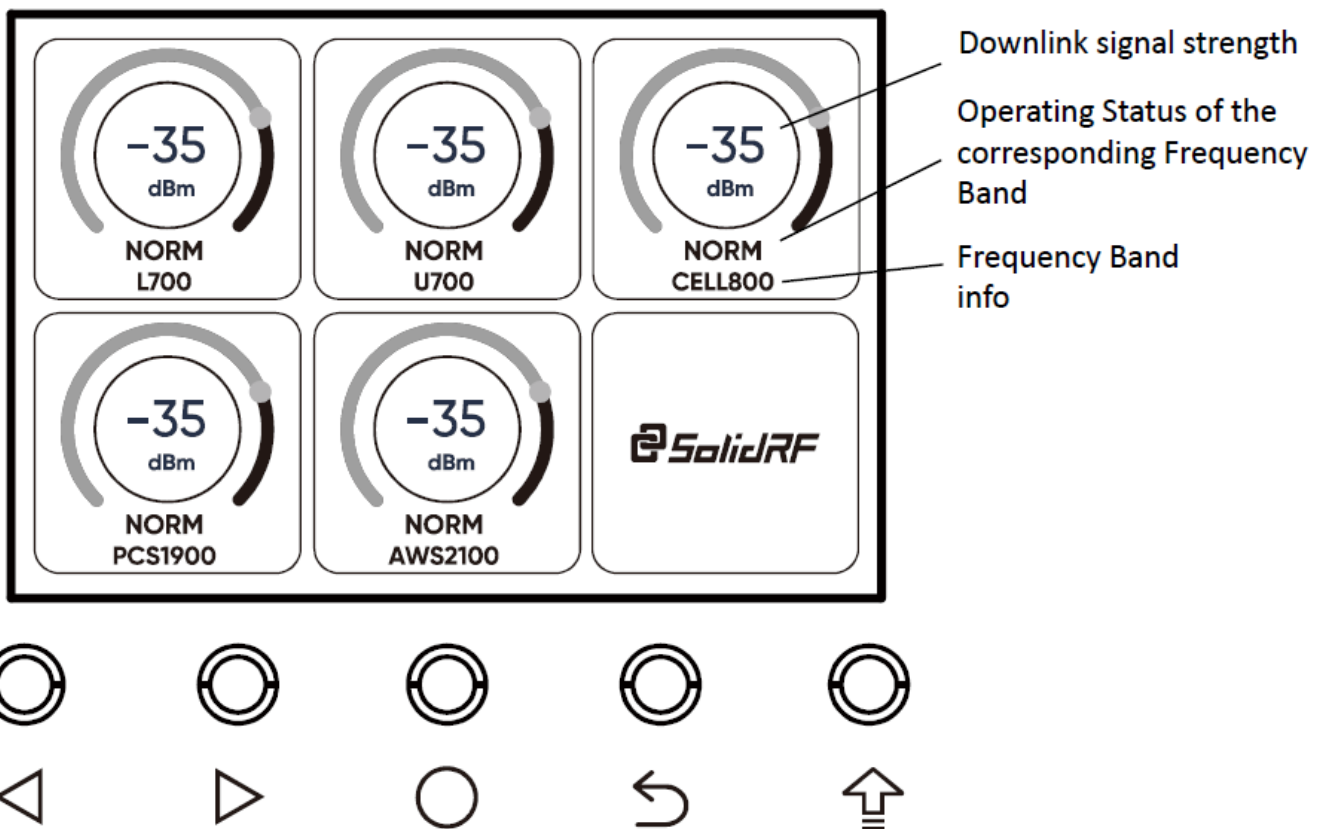
NOTE: We strongly recommend using a power strip with surge protection.



Installation – LCD Display Method

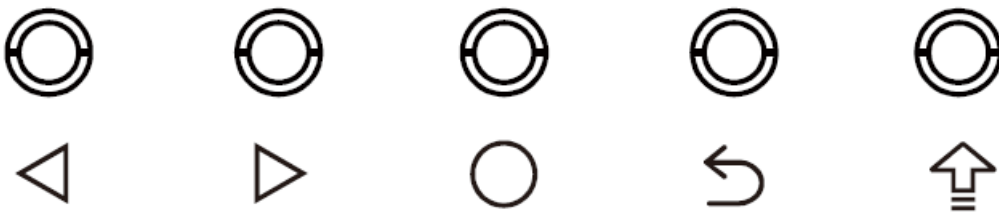
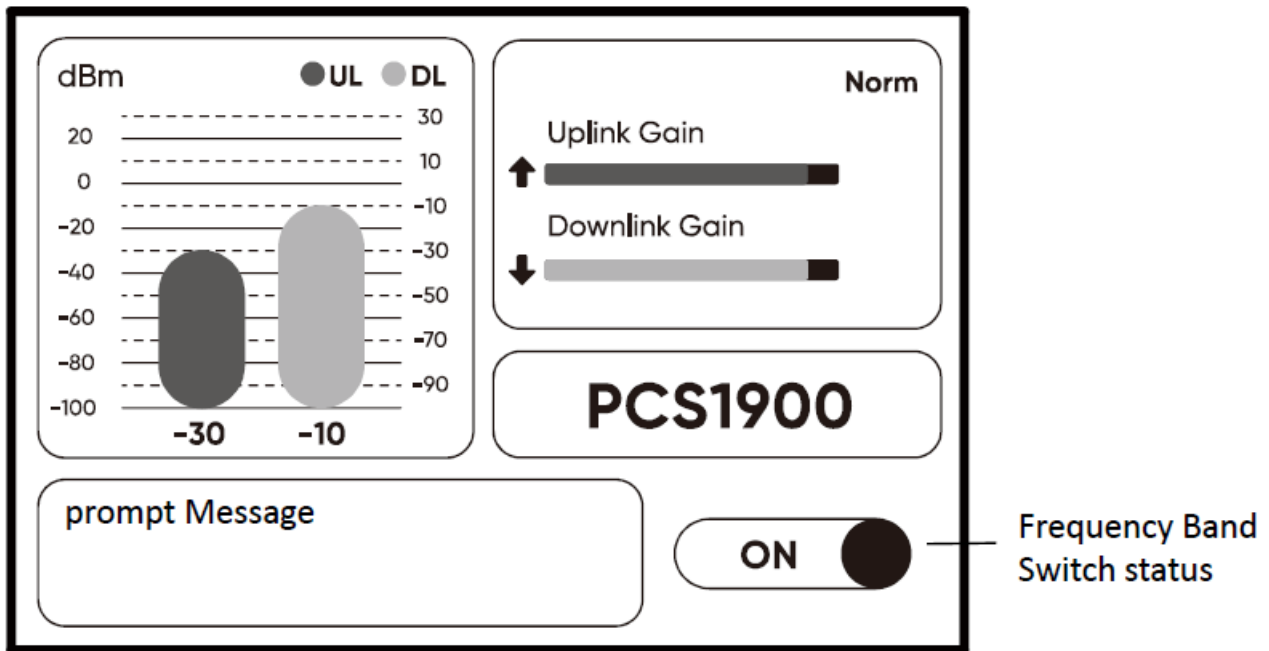
These are instructions that will allow users to install a Plus cell phone booster using the LCD Display. Before using this method, please take a moment to become familiar with the LCD display, LED status indicators, and control buttons on the booster.

Main Interface



There are five buttons located in the lower position of the booster, the functions of the keys from left to right are: the left selection key, the right selection key, confirm / setting / switch key, back to the previous interface key, system upgrade key.


Detail Interface



Page switching

- Main Interface -> Detail Interface Select with the left and right keys and press the middle confirm button to enter the detail page about the corresponding frequency band.
- Detail Interface -> Main Interface Press the back to the previous interface key to return to the main interface.

Frequency Band on and off

After entering the detail interface, select  the left and right keys and press the middle confirm button to switch the corresponding frequency band on and off.

Measuring Booster Performance

How To Get Signal Strength As A Number

iPhone® Dial *3001#12345#* then press Call.

1. Hold down power button until you see 'Slide to Power Off'.
2. Then release the power button.
3. Hold the Home button until your main screen appears.

If you want to check 3G/1x but your iPhone is picking up 4G/LTE signal, go to Settings>Cellular>Cellular Data Options>En_x0002_able .LTE>Select Off. After you system is set up, you can go back to the dots signal by once again dialing *3001#12345#* then pressing call. When the menu comes back up, tap "phone" in the top left corner

of your phone.

- **iPhone® iOS 11 – current** iOS 11 and later no longer displays the decibel (dBm) reading in 'Field Test Mode'.
Tip: Using the dot signal strength indicator on your cell phone can assist you in finding the strongest signal direction as well as placing calls in different locations.
- **Android™** Settings > About Phone > Status or Network > Signal Strength or Network Type and Strength (exact options/wording depends on phone model). Android: download third part APP-LTE Discovery iPhone is a registered trademark of Apple Inc. Android is a trademark of Google Inc.

How To Confirm That Your Installation Is Correct And Effective?

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

(MEASURING BOOSTER PERFORMANCE cont.)

Signal strength at 6 feet from the booster with built-in indoor antenna

- **Note here:** dBm

Signal strength at 6 feet from outdoor antenna

Note here: dBm

Compare Results If the signal strength in decibels (dBm) at 6 feet from the indoor antenna is 15-20dB higher than the signal strength at 6 feet from the outdoor antenna, then your system has achieved the optimum results. Note: Since it is a negative number, the smaller the number, the greater the signal strength. DID YOU KNOW a signal increase of just 3dB is 2 times the power and signal amplification!

How to solve the problem of oscillation:

1. Keep enough distance between booster with built-in indoor antenna and outside antenna Minimum Required Separation Distance Between Booster and Outside Antenna: Straight line distance over 30 feet(9 meters) or 20 feet (6 meters) horizontal distance 20 feet (6 meters) vertical distance (as far as possible).
2. The front of the outdoor antenna is NOT facing towards the booster with built-in indoor antenna.
3. You may need to undo and redo the connection completely. Un-plug and re-plug in power supply.

FIXING DC POWER INDICATOR OFF ISSUES

- Please verify your power supply has power;
- Please verify the power cord is tightened;
- Contact with us by email or call for replacement.

Safety Guidelines

To uphold compliance with network protection standards, all active cellular devices must maintain at least six feet of separation distance from inside unit antenna and outside unit antenna and at least four feet of separation distance from inside unit. Use only the power supply provided in this package. Use of a non-Atcall product 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.

This is a CONSUMER device

BEFORE USE, you MUST REGISTER THIS DEVICE with your wireless provider and have your provider's consent. Most wireless provider 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 ISED CPC-2-1-05. You MUST operate this device with a CpprooveNd aSnteUnnaM anEd cRab leds eas vsipecciefied by the manufacturer. Antennas MUST be installed at least 20cm (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 a 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.

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

- Sprint: http://www.sprint.com/legal/fcc_boosters.html
- T-Mobile/MetroPCS: <https://support.t-mobile.com/docs/DOC-9827>
- Verizon Wireless: <http://www.verizonwireless.com/wcms/consumer/register-signal-booster.html>
- AT&T: <https://securec45.securewebsession.com/attsignalbooster.com/>
- U.S. Cellular: <http://www.uscellular.com/uscellular/support/fcc-booster-registration.jsp>

Specifications

Model Number	SF005A				
Connectors	F-Female on the Inside Antenna / F-Female on the Outside Antenna				
Noise figure	5 dB nominal				
Antenna Impedance	75 Ohms /75 Ohms				
Weight	0.83Kg				
Frequency	698-716MHz,776-787MHz,824-849MHz,1850-1915MHz,1710-1755MHz 728-746MHz,746-757MHz,869-894MHz,1930-1995MHz,2110-2155MHz				
Power output for single cell phone (Uplink)dBm	700A-MHz Band12 62	700MHz Band13 62	800MHz Band5 62	1900MHz Band2 65	1700MHz Band4 65
Power output for single cell phone (Downlink)dBm	700A-MHz Band12 64	700MHz Band13 64	800MHz Band5 65	1900MHz Band2 68	2100MHz Band4 68
EIRP	1W Max				
Operating temperature	5°F to 140°F (-15°C~60 °C)				
Isolation	>110 dB				
Power Requirements	AC / DC 12V,1.5A, w/1.35X3.5mm Jack				

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 Atcall could void the authority to operate this equipment.

3 YEAR WARRANTY

The Booster is covered under a three-year product warranty for failures or defects that result from craftsmanship and/or materials. Dated proof of purchase should be retained for use in warranty cases. Contact the retailer/reseller directly with any warranty issues, or alternatively contact the manufacturer in cases where the reseller is no longer available to handle warranty claims. In cases where the reseller is unavailable, the product may be returned to the manufacturer at the consumer's expense, with a dated proof of purchase and a return

authorization letter which can be attained by contacting Atcall. This warranty does not apply to any signal booster components determined by Atcall to have been subjected to misuse, abuse, neglect, tampering, or mishandling that result in damages to the physical or electronic properties of the product. Refurbished products that have been recertified to conform to product specifications may be used for product replacements.

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

Notes

Booster transmitting in 1710-1755 MHz should be install/operate in one of two ways:

1. the antenna for the device must be installed to comply with the 10 meter above ground maximum antenna height limitation OR
2. the antenna for the device has a 10 meter above ground maximum antenna height limitation when the device is used with a handset that covers the 1710-1755 MHz band and that owners could be subject to potential FCC enforcement action for noncompliance.

NEED HELP ?

- sunford_after-sales@outlook.com

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following 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. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC Statement

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.

The term "IC: " before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.


Antenna Kitting Information

Component	Prod No. Description	Gain/Loss					Notes
		LTE-A	LTE-V	800MHz	1900MHz	1700MHz/2100MHz	
Outdoor Antenna	A-SF001	8dBi	8dBi	8dBi	10dBi	10dBi\10dBi	Log Periodic Antenna
	A-SF002	3dBi	3dBi	3dBi	5dBi	5dBi\5dBi	Omni Directional Antenna
Outdoor Cable	RG660Feet	4dB	4dB	4.3dB	6.5dB	6.5dB \7dB	60 feet
Outdoor Cable	3D-FB60Feet	4.5dB	4.5dB	5.4dB	8dB	8dB \9dB	60 feet
Outdoor Cable	3D-FB30Feet	2.1dB	2.1dB	2.5dB	3.6dB	3.6dB\ 4.1dB	30 Feet
Indoor Cable	3D-FB30Feet	2.1dB	2.1dB	2.5dB	3.6dB	3.6dB\ 4.1dB	30 Feet
Indoor Cable	RG630Feet	1.8dB	1.8dB	1.9dB	3.1dB	3.1dB \3.2dB	30 feet
Indoor Antenna	A-SF003	6.5dBi	6.5dBi	6.5dBi	9dBi	9dBi\9dBi	Panel Antenna
	Integrated Built-in Antenna	6.5dBi	6.5dBi	6.5dBi	9dBi	9dBi\9dBi	Panel Antenna
	A-SF004	2dBi	2dBi	2dBi	3dBi	3dBi\3dBi	Whip Antenna
*All equivalent antennas and cables are suitable for use with the xxx							

A cell booster specially created for the young

- sunford_after-sales@outlook.com
- 3-year manufacturer's warranty

Documents / Resources

	<p>Atcell SF005A SuperLink Cell Signal Booster [pdf] Installation Guide SFZN005, 2A34B-SFZN005, 2A34BSFZN005, SF005A SuperLink Cell Signal Booster, SuperLink Cell Signal Booster, Cell Signal Booster, Signal Booster, Booster</p>
---	--

References

- [CPC-2-1-05 — Zone Enhancers](#)
- [Legal / Regulatory & Consumer Resources](#)
- [FCC Booster Registration | UScellular](#)
- [AT&T Signal Booster](#)
- [Register a signal booster | T-Mobile Support](#)

