

Atcall V5 Signal Booster

Atcall Cell Phone Booster User Manual

Model: V5 Signal Booster

1. PRODUCT OVERVIEW

The Atcall V5 Cell Phone Booster is designed to significantly enhance cellular signal strength for RVs, trucks, trailers, campers, and travel vehicles. It supports 5G and 4G LTE signals across all major U.S. carriers, including Verizon, AT&T, T-Mobile, and Sprint. This booster provides improved voice quality, faster data speeds, and reduces dropped calls, ensuring reliable connectivity on the go.



Image: The Atcall V5 Cell Phone Booster system, showing the main booster unit, the omnidirectional outdoor antenna, and coiled cables.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- V5 Signal Booster Unit
- Outside Omnidirectional Antenna
- Inside Patch Antenna
- 2 x 10ft 3D-FB Coaxial Cables
- Power Extension Cable
- AC/DC Power Adapter
- Mounting Kits

Package Contents



Booster



Outside Antenna



Inside Antenna



Mounting Kit



2*10ft 3D-FB Cable



Power Extension Cable



AC/DC Power Supply

Image: A visual representation of all components included in the package, such as the booster, antennas, cables, and power adapters.

3. SETUP AND INSTALLATION

Follow these steps for proper installation of your Atcall V5 Cell Phone Booster. No technical experience or app is required for setup.

1. **Mount the Outside Omnidirectional Antenna:** Install the omnidirectional antenna on the exterior of your RV or truck, preferably on the roof or a high point, ensuring it has a clear line of sight to cell towers. Use the provided mounting kits for secure attachment. This antenna receives signals from all directions.

Never Miss a Signal

Effectively solve your cell phone
signal problems.



Faster Data Speeds



Reliable Voice Quality

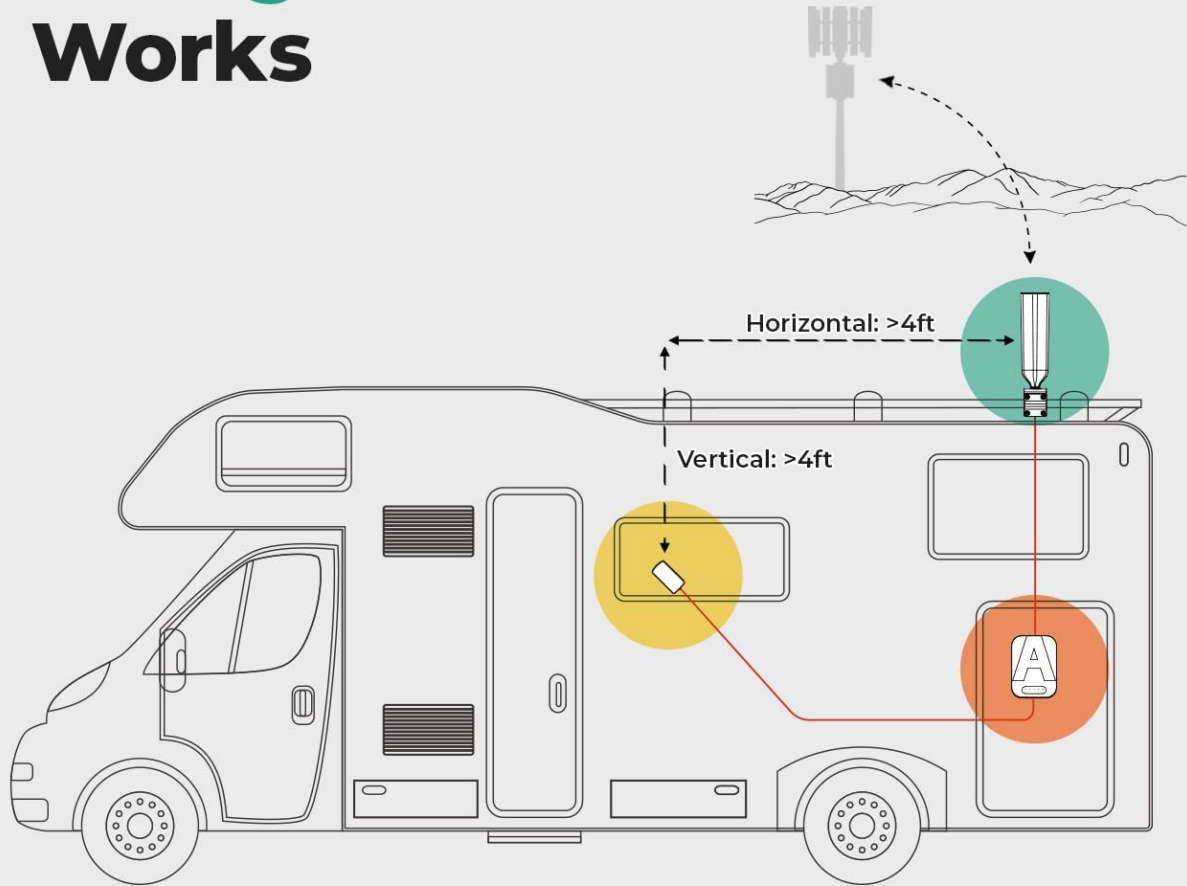


Improved Video Streaming

Image: An RV traveling on a road, with an illustration of how the external antenna receives signals from distant cell towers.

- 2. Install the Inside Patch Antenna:** Place the inside patch antenna within your vehicle where you need improved signal coverage, typically near your mobile devices. Ensure there is at least 4 feet vertical and 4 feet horizontal separation between the outside and inside antennas to prevent oscillation.
- 3. Connect the Cables:** Connect the outside omnidirectional antenna to the "OUTSIDE" port on the V5 Signal Booster unit using one of the 10ft coaxial cables. Connect the inside patch antenna to the "INSIDE" port on the V5 Signal Booster unit using the other 10ft coaxial cable.
- 4. Power On the Booster:** Connect the AC/DC Power Adapter to the V5 Signal Booster unit and then plug it into a power outlet in your RV or truck. The booster will power on, and the LED indicators will illuminate.

How V5 Signal Booster Works



Omnidirectional Antenna	V5 Booster	Patch Antenna
Communicates back and forth with cell tower	Amplifies any cell signal received from the outside antenna	Broadcasts these signals for use throughout your RV

Image: A schematic diagram showing the optimal placement of the omnidirectional antenna on the RV roof, the booster unit inside, and the patch antenna for signal distribution.

Important Note:

The signal booster cannot generate signals. It amplifies existing signals. Therefore, you must ensure that the outdoor signal strength is not less than 1-2 bars (-110dBm) for the booster to function effectively. Check your phone's band and outdoor signal strength before ordering or installing.

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Video: An animated explanation of how the RV cell signal booster works, from receiving external signals to distributing them inside the vehicle.

4. OPERATING THE BOOSTER

Once installed and powered on, the Atcall V5 Signal Booster operates automatically. It will detect and amplify available cellular signals.

LED Indicators:

The booster is equipped with intuitive LED indicators that display the operating status of each corresponding band. Refer to the table below for indicator meanings:

LED Color	Status	Description
Green	Functional	The band is operating correctly and boosting signal.
Orange	Self-Test and Signal Interference	Indicates the booster is performing a self-test or experiencing signal interference (oscillation). Adjust antenna separation if interference persists.
Red	Abnormal	Indicates an issue with the band. Refer to the Troubleshooting section.

Intuitive Band Indicator

LED band indicator light shows the working status of the corresponding band.

Please pay attention to the indicator status of the band you are using.



Image: A detailed view of the booster's LED panel, explaining the meaning of different light colors for each frequency band.

The booster supports multiple users and devices simultaneously, providing enhanced signal coverage for all your cellular needs while traveling.

Your browser does not support the video tag.

Video: A demonstration of the Atcall Cell Phone Booster in an RV setting, highlighting its benefits for staying connected.

5. MAINTENANCE

The Atcall V5 Signal Booster is designed for low maintenance. Follow these general guidelines to ensure optimal performance and longevity:

- **Keep Antennas Clear:** Ensure both the outdoor and indoor antennas are free from obstructions (e.g., dirt, snow, debris) that could impede signal transmission or reception.

- **Check Connections:** Periodically inspect all cable connections to ensure they are secure and free from damage. Loose connections can degrade performance.
- **Clean the Unit:** Wipe the booster unit and antennas with a soft, dry cloth as needed to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Environmental Protection:** The carbon fiber omnidirectional antenna is designed to be waterproof and shockproof. However, avoid exposing the main booster unit to extreme temperatures or direct moisture.

6. TROUBLESHOOTING

If you experience issues with your Atcall V5 Signal Booster, consult the following troubleshooting tips:

Problem	Possible Cause	Solution
No Signal Boost / Weak Signal	<ul style="list-style-type: none"> ◦ Insufficient outdoor signal. ◦ Antennas too close (oscillation). ◦ Loose cable connections. ◦ Antenna obstruction. 	<ul style="list-style-type: none"> ◦ Ensure outdoor signal is at least 1-2 bars (-110dBm). ◦ Increase separation between outdoor and indoor antennas (min. 4ft vertical/horizontal). ◦ Check all cable connections for tightness. ◦ Clear any obstructions from antennas.
Orange LED Indicator	Self-test or signal interference.	<ul style="list-style-type: none"> ◦ This may be temporary during startup. ◦ If persistent, it indicates oscillation. Increase separation between antennas.
Red LED Indicator	Abnormal operation on a specific band.	<ul style="list-style-type: none"> ◦ Power cycle the booster (unplug and replug). ◦ Verify all connections. ◦ If the issue persists, contact Atcall customer support.
No Power	Power adapter issue or outlet problem.	<ul style="list-style-type: none"> ◦ Check if the power adapter is securely plugged into both the booster and the power outlet. ◦ Test the power outlet with another device.

How to Check Your Phone's Frequency Band:

Understanding your phone's frequency band can help in diagnosing signal issues.

- **For iPhone:**
 - a. Dial *3001#12345#* then press the call button.
 - b. Choose "All Metrics," then "Serving Cell Info."
 - c. Check "Band Info."
- **For Android Phone:**

- a. Download "Network Cell Info Lite" app.
- b. Choose "GAUGE."
- c. Check "BAND."

7. SPECIFICATIONS

Feature	Detail
Model	V5 Signal Booster
Max Gain	50dB
Supported Bands	Band 12/17, Band 2/25, Band 5, Band 13, Band 4/66
Supported Carriers	All U.S. Carriers (AT&T, Verizon, T-Mobile, Sprint, U.S. Cellular, etc.)
Supported Technologies	5G, 4G LTE
FCC ID	2A34B-SFZN002
Package Dimensions	13.07 x 9.25 x 3.9 inches
Item Weight	4.49 pounds
Color	Black
Manufacturer	Atcall

FCC Approved

Reliable and Safe. Compliant with all the requirements of FCC&IC Certification.



Image: The rear view of the booster unit, displaying its FCC ID and indicating compliance with regulatory standards.

8. WARRANTY AND SUPPORT

Atcall provides a 3-year warranty for the V5 Signal Booster. This product is FCC Approved (FCC ID: 2A34B-SFZN002) and compliant with all applicable standards.

For professional technical support or any questions regarding your Atcall V5 Signal Booster, please feel free to contact us. Our team is ready to assist you.

Contact Information:

Please refer to the contact details provided on the product packaging or the official Atcall website for the most up-to-date support information.

