

## Atcall SF-Truck

# Atcall SF-Truck Cell Phone Booster User Manual

Model: SF-Truck

Brand: Atcall

## 1. INTRODUCTION

The Atcall SF-Truck Cell Phone Booster is designed to enhance 5G and 4G LTE cellular signals for all major U.S. carriers within trucks and semi-trucks. Featuring an intuitive LCD monitor, this device provides real-time signal strength information and simplifies installation and troubleshooting. It is engineered for robust performance in various environments, ensuring reliable communication on the road.

## 2. KEY FEATURES

- **Designed for Trucks, Smart LCD Monitor:** HD LCD display shows real-time signal strength changes and working status, aiding quick installation and troubleshooting.
- **Truck Cell Booster for All U.S. Carriers:** Supports Band 12/17, Band 13, Band 5, Band 2/25, and Band 4/66. Compatible with Verizon, AT&T, T-Mobile, U.S. Cellular, and more.
- **Stronger Cell Service Booster:** Offers 50dB max gain for truck size, reducing dropped calls, improving voice quality, and increasing data speeds for streaming in remote areas.
- **Rugged Outside Antenna:** Newly upgraded high-gain omnidirectional antenna receives signals from distant cell towers. It is waterproof, shockproof, and rustproof.
- **Efficient DIY Installation:** Omnidirectional antenna eliminates the need to locate a specific signal tower. Comes with all necessary accessories for typical installation in under an hour.
- **FCC Approved:** FCC ID: 2A34B-SFZN007. No APP or subscription required, ensuring privacy and safety.

### 3. PACKAGE CONTENTS

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The Atcall SF-Truck Cell Phone Booster package includes the following components:

- 1 x SF-T Booster (Main Unit)
- 1 x Outside Antenna
- 1 x Inside Antenna
- 2 x Booster Mounting Brackets
- 1 x Power Adapter
- Cables (1 x 15ft 3D-FB Cable + 2 x 5ft LMR100)
- Mounting Kits (including screws and suction cup mount)



Figure 3.1: All components included in the Atcall SF-Truck Cell Phone Booster package.

### 4. SETUP AND INSTALLATION

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Follow these steps for optimal installation of your Atcall SF-Truck Cell Phone Booster. For a visual guide, refer to the installation video below.

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Video 4.1: Quick video steps guide for installing the Atcall SF-Truck Signal Booster.

#### 4.1 Outside Antenna Installation

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The rugged omnidirectional outside antenna should be mounted vertically on the exterior of your truck, ideally on a mirror arm or similar sturdy structure, to receive signals from all directions. Ensure it has a clear line of sight to the sky and is free from obstructions.

# Stream More with a **Stronger** Signal



Fewer Dropped Calls



Faster Network Speeds



Improved Audio / Data Streaming

Figure 4.1.1: Proper placement of the rugged exterior antenna on a truck.

## 4.2 Booster and Inside Antenna Installation

The main booster unit with its intuitive LCD monitor can be mounted in the center console using one of the two provided mounting brackets (suction cup or adhesive pad). The inside antenna should be placed within the cabin, typically on the seat or dashboard, to rebroadcast the amplified signal.



## Two Mounting Brackets, **Portable** and **Interactive**



Figure 4.2.1: Booster unit mounted in the truck cabin using different bracket options.



Figure 4.2.2: Recommended placement for the inside antenna.

### 4.3 Antenna Separation

Crucial for preventing signal oscillation and ensuring optimal performance, maintain a minimum separation of **4 feet horizontally** and **4 feet vertically** between the outside antenna and the inside antenna. The inside antenna and outside antenna cannot be installed on the same side of the truck.



# How a SF-T Signal Booster Work

- ① **Outside antenna** receive signal from cell tower
- ② **SF-Truck booster** amplifies signal
- ③ **Inside antenna** re-broadcasts signal

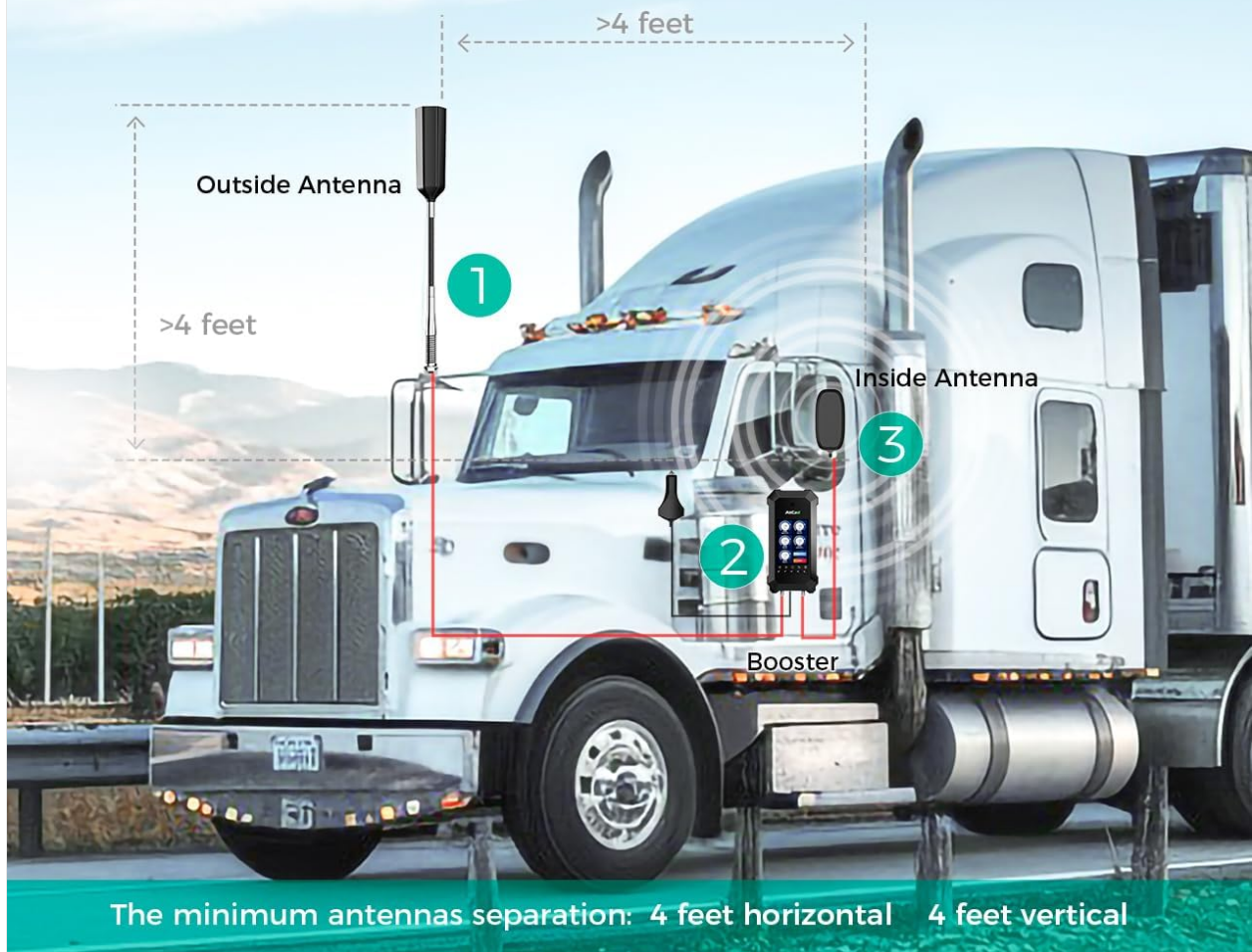


Figure 4.3.1: Diagram showing proper antenna separation for optimal booster performance.

## 4.4 Power Connection

Connect the provided power adapter to the booster unit and plug it into your truck's 12V power outlet. The booster will power on automatically.

## 5. OPERATING INSTRUCTIONS

Once installed and powered on, the Atcall SF-Truck booster will automatically begin to amplify signals. The intuitive LCD monitor provides real-time feedback on its operation.

## 5.1 Real-time Signal Monitoring

The HD LCD display on the booster unit shows the real-time signal strength changes and working status for each supported frequency band. This allows you to monitor performance and identify any issues quickly.



# Easily Install and Troubleshoot

## Get from LCD Display

- Band Test Methods and Q&A
- Step-by-Step Installation and Troubleshooting Instructions
- Real-time Outside Signal Detection
  - Detection Sensitivity Reaches< -100dBm
- Real-time Booster's Working Status Monitoring
  - Display the Gain and Power of All Frequency Bands



**BASIC OSCILLATION KNOWLEDGE**

**INSTALL BOOSTER**

**ABOUT BOOSTER**

**select the optimal mounting location for the booster:**

Mounts on top of your vehicle where you use your cell phone signal most of the time.

**See below for different base station options:**

**Option A:** Use the rubber stick the rubber stick horizontally and 4 feet vertically is the position on the glass surface.

**Option B:** Temporarily vacuum suction on the glass surface.

**increase the distance between inside and outside antennas. The installation distance of 4 feet horizontally and 4 feet vertically is the minimum requirement. Due to external environment or reflection of metal objects inside the vehicle, signal feedback between antennas can be caused. Therefore, it is necessary to increase the distance between antennas as much as possible or use objects block between the two antennas.**

**Every time the antenna position is adjusted, the booster needs to be powered on again.**

**NOTE:** Do not connect the system fully installed.

**Booster will about 15 dBm than the ambient temperature normal phenomenon.**

Figure 5.1.1: LCD display showing real-time signal strength and status.

## 5.2 Supported Carriers and Bands

The booster supports 5G and 4G LTE signals across various bands, ensuring compatibility with all major U.S. carriers including Verizon, AT&T, T-Mobile, Sprint, and U.S. Cellular.



# Support All U.S. Carriers

Band: 12✓ 17✓ 13✓ 5✓ 2✓ 4✓ 25✓ 66✓

5G



Figure 5.2.1: Atcall SF-Truck booster supports all major U.S. carriers.

## 5.3 Checking Frequency Bands

To verify which frequency band your phone is using, you can utilize specific methods for iPhone and Android devices:

- **For iPhone:** Dial \*3001#12345#\* then press the call button. Choose All Metrics, click Serving Cell Info, and check Band Info.
- **For Android Phone:** Download "Network Cell Info Lite" app. Choose "GAUGE" and check "BAND".



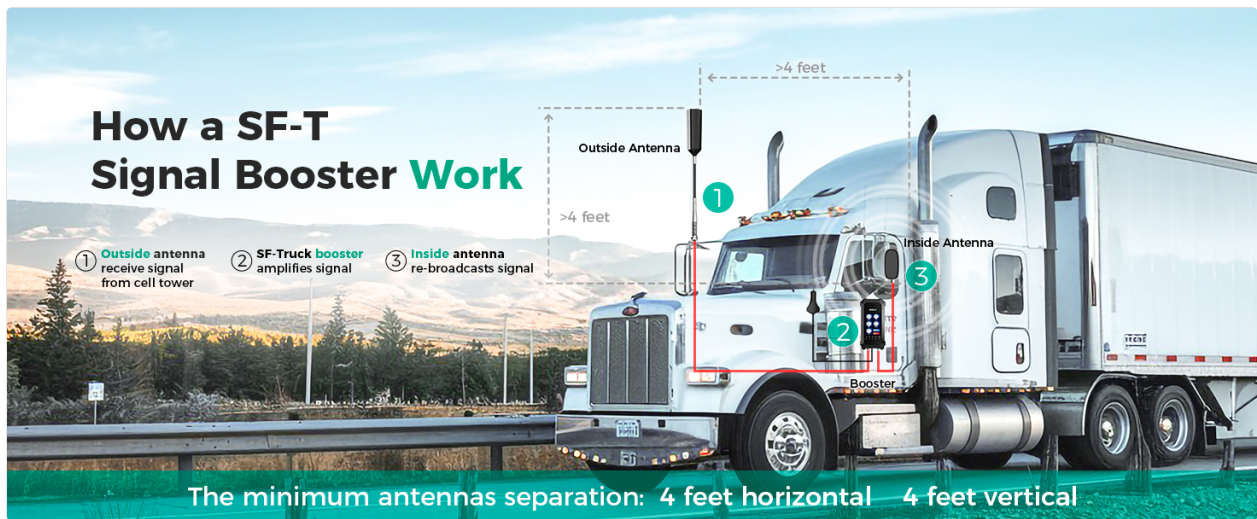


Figure 5.3.1: Methods for testing frequency bands on mobile devices.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your Atcall SF-Truck Cell Phone Booster, follow these simple maintenance guidelines:

- **Keep Clean:** Regularly wipe down the booster unit and antennas with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Check Connections:** Periodically inspect all cable connections to ensure they are secure and free from corrosion or damage. Loose connections can affect performance.
- **Antenna Inspection:** Check the outside antenna for any physical damage, especially after long trips or exposure to severe weather. Ensure it remains firmly mounted.
- **Cable Management:** Ensure cables are not pinched, kinked, or exposed to excessive heat or sharp edges, which can cause damage over time.

## 7. TROUBLESHOOTING

If you experience issues with your Atcall SF-Truck Cell Phone Booster, refer to the following common troubleshooting tips:

- **No Signal Boost:** Verify that the booster is powered on and the LCD screen is active. Check all cable connections between the antennas and the booster. Ensure proper antenna separation (at least 4 feet horizontally and vertically).
- **Oscillation Warning:** If the LCD displays an "OSCILLATION" warning, it indicates that the inside and outside antennas are too close or facing each other, causing feedback. Increase the distance between the antennas or adjust their orientation to ensure they are not directly in line.
- **Weak Signal Improvement:** Ensure the outside antenna is mounted in a location with the best possible signal reception, free from metal obstructions. Confirm that the booster is set to the correct frequency.

bands for your carrier.

- **Power Issues:** Check the power adapter connection and the vehicle's 12V outlet. Ensure the outlet is providing power.
- **After Moving Antenna:** If you adjust the position of either antenna, it is recommended to power off the booster and then power it back on to allow it to re-calibrate and optimize signal.

## 8. SPECIFICATIONS

Attribute	Value
Model	SF-Truck
Brand	Atcall
Package Dimensions	12.5 x 10.8 x 4.7 inches
Item Weight	5.95 pounds
Wireless Communication Standard	Radio Frequency
Connector Type	RJ45
Max Gain	50dB (for truck size)
Supported Bands	Band 12/17, Band 13, Band 5, Band 2/25, Band 4/66

## 9. FCC COMPLIANCE

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.

**FCC ID: 2A34B-SFZN007**

**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 20cm (8 inches) from any person. You **MUST** cease operating this device immediately if requested by the FCC 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.**



# FCC Approved



HVIN: SF007  
IC: 28093-SFZN007  
FCC ID: 2A34B-SFZN007

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IC: 28093-SFZN007  
FCC ID: 2A34B-SFZN007

**Band:**  
Band12/17, Band 5, Band 2/25, Band 4, Band 13

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

Figure 9.1: FCC compliance information on the booster unit.

## 10. WARRANTY AND SUPPORT

Atcall provides professional customer support for the SF-Truck Cell Phone Booster. If you encounter any problems or have questions regarding your device, please feel free to contact our support team for assistance. For support, please refer to the contact information provided with your product packaging or visit the official Atcall website.

