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Atcall 6K Signal Booster (SFZN005)

Atcall Cell Phone Signal Booster for Home Multiroom

INSTRUCTION MANUAL

1. Introduction

Thank you for choosing the Atcall Cell Phone Signal Booster. This device is designed to enhance cellular signal strength within your home or office, providing improved voice quality, faster data speeds, and reduced dropped calls. It supports 3G, 4G LTE, and 5G networks across all major U.S. carriers. Please read this manual carefully before installation and operation to ensure optimal performance and safety.

2. Safety Information

- This device is FCC approved (FCC ID: 2A34B-SFZN005) and meets all safety standards.
- 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.
- Maintain a minimum separation distance of 20 cm (8 inches) between the indoor antenna and any person.
- Do not operate the booster in areas with extreme temperatures or high humidity.
- Use only the power supply provided with the unit.
- Ensure all cable connections are secure and properly insulated for outdoor components.

3. Package Contents

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

- 1 x 6K Signal Booster
- 1 x Outdoor Directional Antenna
- 2 x Indoor Panel Antennas
- 3 x 30ft Cables

- 1 x Power Supply
- Mounting Kits (Booster Wall Mount Bracket, Roof/Pole Mount Bracket)

AtCall

Package Contents

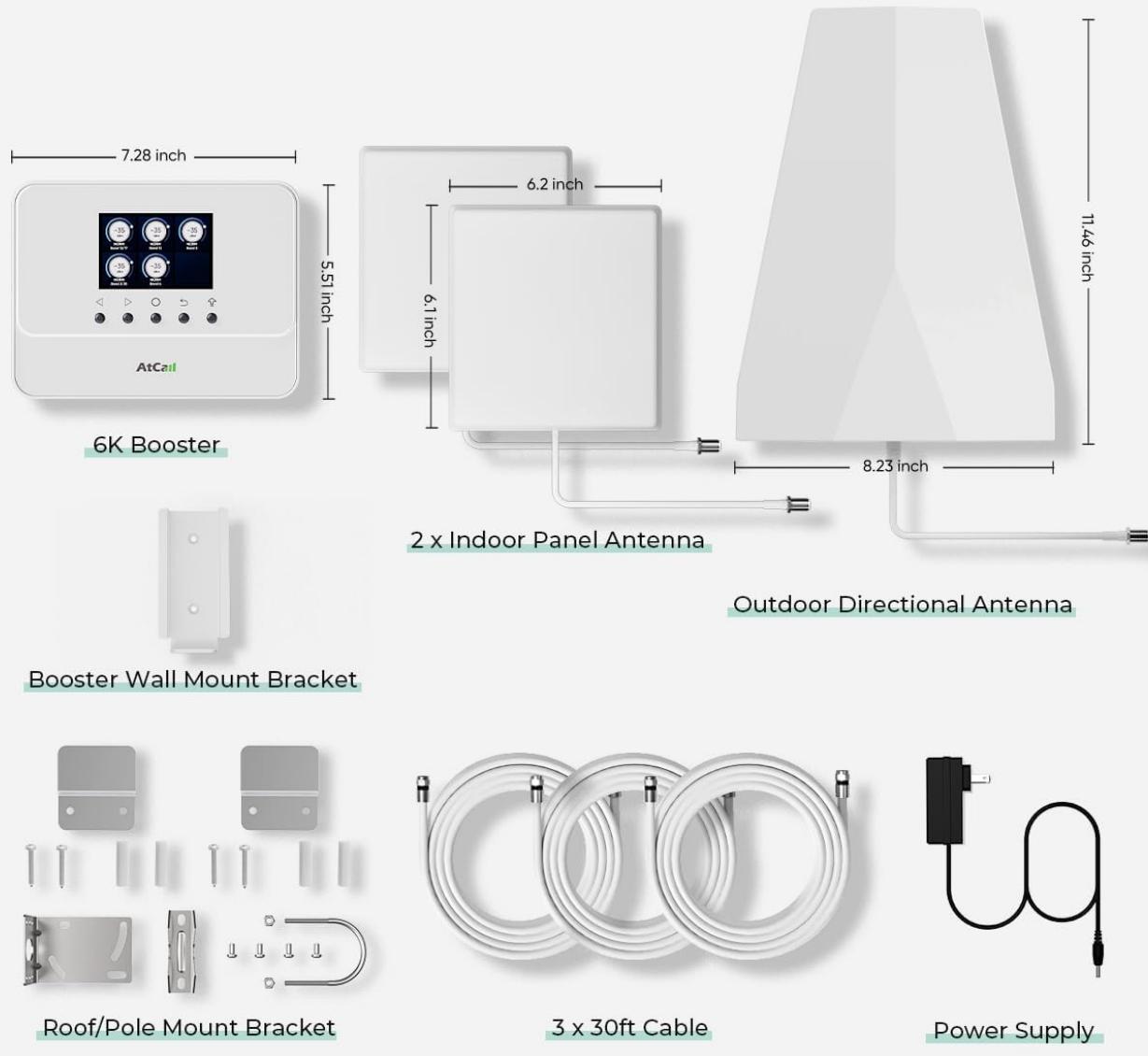


Figure 3.1: Package Contents Overview

4. Product Overview

The Atcall 6K Cell Phone Signal Booster is a five-band signal booster designed for multi-room coverage. It features an intelligent LCD monitor for real-time status updates and is equipped with a high-performance smart chip (AGC) for stable operation.



Figure 4.1: Atcall Cell Phone Signal Booster System

4.1 Key Features

- **Five-Band Support:** Works on band 12/17, band 13, band 5, band 2/25, and band 4/66, covering all U.S. carriers (AT&T, Verizon, T-Mobile, Straight Talk, U.S. Cellular, etc.).
- **Extensive Coverage:** Dual indoor panel antennas boost weak signals up to 100x, covering up to 8,000 sq. ft for 5-6 rooms, suitable for large homes or multi-story houses.
- **LCD Screen Monitor:** Color HD LCD screen provides real-time monitoring of booster status and signal strength, simplifying installation and troubleshooting.
- **Smart Chip AGC:** Equipped with Automatic Gain Control (AGC) for stable performance and durability.
- **Improved Connectivity:** Reduces dropped calls, improves voice quality, and enhances data signal for better talk, text, and streaming.

HD LCD Display

A clear view of signal strength, making installation and troubleshooting easier



Figure 4.2: HD LCD Display Interface

AtCall

Compatible with All U.S. Carriers

Work for Band 12/17/13/5/25/4/66



AT&T



Sprint

verizon[✓]

T-Mobile

Straight
Talk



Figure 4.3: Carrier Compatibility

Installation Instruction

For the best performance of the booster, please keep at least the following distance between outdoor antenna and indoor antenna.

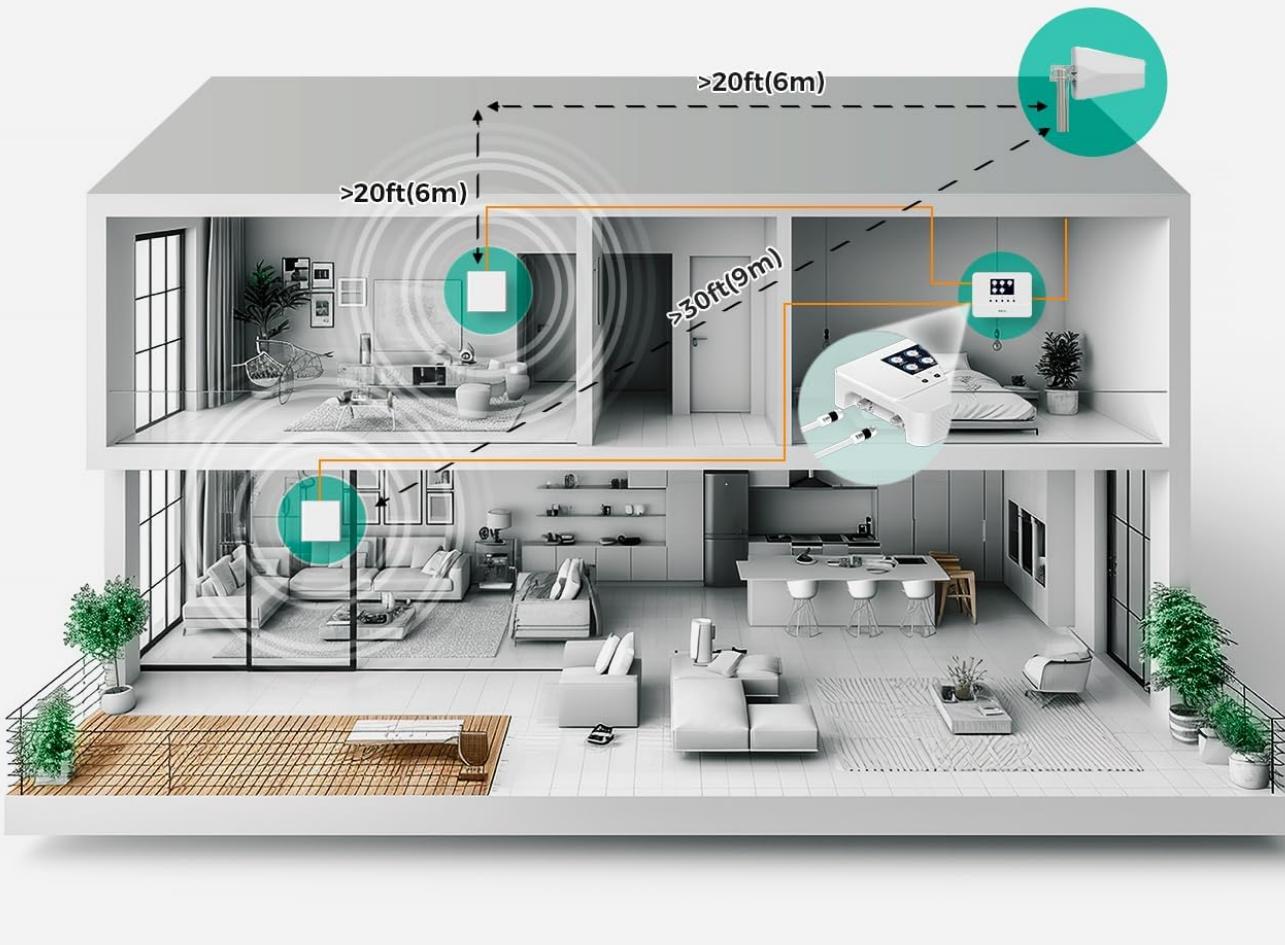


Figure 4.4: Dual Indoor Antenna Coverage

5. Setup and Installation

Proper installation is crucial for the best performance of your signal booster. Follow these steps carefully:

5.1 Pre-Installation Check

- Test your cell phone band and check your outdoor signal strength (at least 1-2 bars) before installation.
- Identify the location with the strongest outdoor signal for the outdoor antenna. This is typically on the roof or an exterior wall facing the nearest cell tower.

5.2 Installation Steps

- 1. Mount the Outdoor Antenna:** Install the outdoor directional antenna in the location with the strongest signal. Ensure it is securely mounted using the provided mounting kits. Point it towards the nearest cell tower.
- 2. Run Cables:** Connect one end of a 30ft cable to the outdoor antenna and route the other end into your home to the location where the booster unit will be placed. Repeat for the indoor antennas.
- 3. Mount Indoor Antennas:** Install the two indoor panel antennas in the areas where you need improved signal. Ensure they are positioned to cover the desired rooms.
- 4. Connect Booster Unit:** Connect the cable from the outdoor antenna to the designated port on the booster unit (usually labeled 'Outdoor' or 'BTS'). Connect the cables from the indoor antennas to their respective ports (usually labeled 'Indoor' or 'Mobile').
- 5. Power On:** Connect the power supply to the booster unit and plug it into a power outlet. The LCD screen will light up.

5.3 Antenna Separation Guidelines

For optimal performance and to prevent oscillation (feedback), maintain the following minimum distances:

- At least 20 feet (6 meters) vertical separation between the outdoor antenna and any indoor antenna.
- At least 30 feet (9 meters) horizontal separation between the outdoor antenna and any indoor antenna.

Dual Indoor Antennas

Dual Coverage Up to **8,000** Sq. Ft



Figure 5.1: Installation Instruction and Antenna Separation

6. Operation

Once installed and powered on, the Atcall signal booster will automatically begin to amplify the cellular signal. The intelligent LCD monitor provides real-time feedback on its operation.

6.1 Monitoring with LCD Screen

The color HD LCD screen displays critical information:

- **Real-Time Downlink Signal Strength (dBm):** Indicates the strength of the signal received by the booster.
- **Working Status of Band:** Shows which frequency bands are actively being boosted.
- **Uplink Gain / Downlink Gain:** Displays the amplification level for both uplink (from phone to tower) and downlink (from tower to phone) signals.
- **Band Number:** Identifies the specific cellular band.
- **Band Switch:** Allows for manual control or adjustment of specific bands if needed (refer to advanced settings in the full manual if available).

Observe the signal strength readings on the LCD. Optimal performance is indicated by stable, strong readings. If you notice low or fluctuating readings, refer to the Troubleshooting section.

7. Maintenance

The Atcall Cell Phone Signal Booster requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the booster unit and antennas with a soft, dry cloth to remove dust. Do not use liquid cleaners or abrasive materials.
- **Cable Inspection:** Annually inspect all coaxial cables, especially outdoor connections, for any signs of wear, damage, or loose connections. Ensure outdoor connections are weatherproofed.
- **Antenna Position:** Verify that outdoor and indoor antennas remain securely mounted and in their optimal positions. Strong winds or other environmental factors may shift outdoor antennas.
- **Ventilation:** Ensure the booster unit has adequate ventilation and is not covered, as proper airflow prevents overheating.

8. Troubleshooting

If you experience issues with your signal booster, consult the following common troubleshooting tips. The LCD screen is a valuable tool for diagnosing problems.

Problem	Possible Cause	Solution
No signal improvement	Insufficient outdoor signal; Antennas too close; Loose connections; Booster malfunction.	Verify outdoor signal strength (at least 1-2 bars). Increase separation between outdoor and indoor antennas. Check all cable connections. Ensure power is on.
LCD shows 'OSC' or oscillation warning	Outdoor and indoor antennas are too close, causing feedback.	Increase the physical separation (vertical and/or horizontal) between the outdoor and indoor antennas. Ensure they are not facing each other directly.
Booster unit not powering on	Power supply issue; Loose power connection.	Check if the power adapter is securely plugged into the booster and the wall outlet. Try a different power outlet.

Problem	Possible Cause	Solution
Signal fluctuates or drops intermittently	Weak outdoor signal; Antenna alignment issues; Interference.	Re-adjust the outdoor antenna direction to find the strongest signal. Check for new sources of interference.

If the problem persists after attempting these solutions, please contact Atcall customer support for assistance.

9. Specifications

Feature	Detail
Model	6K Signal Booster (SFZN005)
Supported Bands	Band 12/17, Band 13, Band 5, Band 2/25, Band 4/66
Coverage Area	Up to 8,000 sq. ft
Max Gain	68dB
Display	Color HD LCD Screen
Antennas	1 x Outdoor Directional Antenna, 2 x Indoor Panel Antennas
Cables	3 x 30ft Coaxial Cables
FCC ID	2A34B-SFZN005
Dimensions (Package)	14.57 x 9.92 x 7.17 inches
Item Weight	8.07 pounds

10. Warranty and Support

Atcall is committed to providing reliable products and excellent customer service.

10.1 FCC Approval

This cell signal booster is FCC approved and meets all safety standards. FCC ID: 2A34B-SFZN005.

FCC Approved

Compliant with all the requirements of FCC&IC Certification

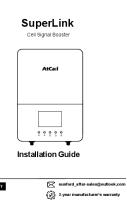


Figure 10.1: FCC Approved Label

10.2 Technical Support

We provide excellent lifetime technical support for your Atcall signal booster. If you have any questions, require assistance with installation, or encounter any issues, please do not hesitate to contact our professional tech-support team. Contact information can typically be found on our official website or product packaging.

Related Documents - 6K Signal Booster (SFZN005)

	<p><u>Atcall SuperLink Cell Signal Booster Installation Guide</u></p> <p>This guide provides comprehensive instructions for installing and optimizing the Atcall SuperLink Cell Signal Booster. It covers package contents, preparation, step-by-step installation, LCD display usage, performance measurement, safety guidelines, technical specifications, and warranty information.</p>
	<p><u>ANNTLENT Cell Phone Booster Installation Guide</u></p> <p>ANNTLENT N30-PY installation guide for cell phone boosters. Learn how to install your signal booster for improved 5G, 4G, and LTE reception for Verizon, AT&T, T-Mobile, and other carriers. Covers frequency band checks, antenna placement, and setup.</p>
	<p><u>Atcall SuperLink Cell Signal Booster Installation Guide</u></p> <p>This guide provides comprehensive instructions for installing and optimizing the Atcall SuperLink Cell Signal Booster. It covers package contents, preparation, step-by-step installation, LCD display usage, performance measurement, safety guidelines, technical specifications, and warranty information.</p>
	<p><u>APlusBoost Home MultiRoom Cell Phone Signal Booster Installation Guide</u></p> <p>Comprehensive installation guide for the APlusBoost Home MultiRoom Cell Phone Signal Booster, detailing package contents, preparation steps, antenna placement, routing, power-up procedures, performance measurement, troubleshooting, safety guidelines, specifications, and warranty information.</p>
	<p><u>Phonetone P20 & P50 Series User Manual: Cell Phone Signal Booster</u></p> <p>User manual for the Phonetone P20 & P50 Series cell phone signal boosters, providing comprehensive installation guides, optimization tips, troubleshooting, and performance measurement for improved cellular reception.</p>



[HiBoost Sidekick User Manual and Specification Sheet](#)

This document provides the user manual and technical specifications for the HiBoost Sidekick cell signal booster, designed for home and office use to enhance cellular reception for all carriers.