

Atcall SF002

Atcall Cell Phone Signal Booster User Manual

Model: SF002

1. PRODUCT OVERVIEW

The Atcall Cell Phone Signal Booster is designed to enhance cellular signal strength within your home, office, or rural area, covering up to 5000 sq. ft. It supports 5G and 4G LTE networks for all major Canadian carriers, including Bell, TELUS, Rogers, MTS, and SaskTel, across multiple frequency bands (12/17/13/5/2/25/4/66). This system aims to eliminate dropped calls, improve data speeds, and provide a more reliable cellular connection for multiple users and devices simultaneously.



The Atcall Cell Phone Signal Booster system, showing the main booster unit, indoor panel antenna, and outdoor log-periodic antenna.

2. PACKAGE CONTENTS

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

- 1 x Atcall Cell Phone Signal Booster (Main Unit)
- 1 x Outdoor Log-Periodic Antenna
- 1 x Indoor Panel Antenna
- 2 x 30 ft (9.1m) 3D-FB Coaxial Cables
- 1 x Power Supply

Ideal for Multi-Location



House



Office



Cottage



Basement

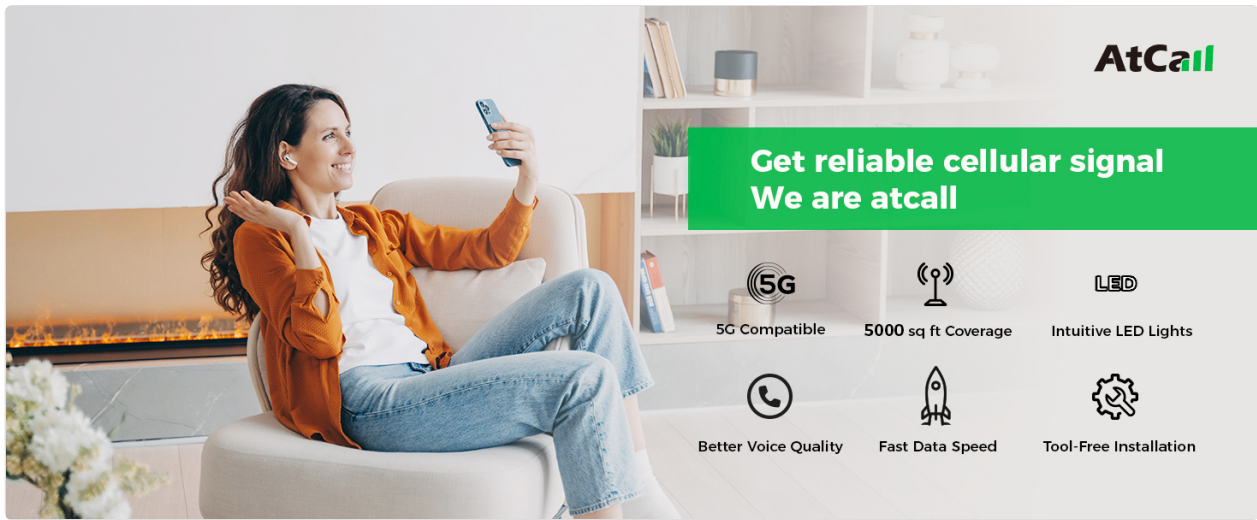
All components included in the Atcall Cell Phone Signal Booster package.

3. INSTALLATION GUIDE

Proper installation is crucial for optimal performance. Follow these steps carefully:

1. **Outdoor Antenna Placement:** Mount the outdoor log-periodic antenna in a location where it can receive the strongest possible signal from the nearest cell tower. This is typically on the roof or an exterior wall, facing the tower. Ensure it is securely fastened and has a clear line of sight.
2. **Indoor Antenna Placement:** Position the indoor panel antenna in the central area where you need improved signal coverage. It should be mounted on a wall or ceiling, facing towards the area of desired coverage.
3. **Antenna Separation:** Maintain sufficient distance between the outdoor and indoor antennas to prevent oscillation and ensure proper signal amplification.
 - **Horizontal Distance:** At least 30 ft (9m)
 - **Vertical Distance:** At least 20 ft (6m)
 - **Straight Line Distance:** At least 40 ft (12m)
4. **Connect Cables:** Connect one 30 ft coaxial cable from the outdoor antenna to the 'Outdoor' port on the booster unit. Connect the second 30 ft coaxial cable from the indoor antenna to the 'Indoor' port on the booster unit. Ensure all connections are finger-tight.
5. **Power On:** Connect the power supply to the booster unit and then plug it into a power outlet. The LED indicators on the booster will light up.

Important Note: The booster requires at least 1 bar of outdoor signal to function effectively. The stronger the signal received by the outdoor antenna, the better the indoor signal will be. It is recommended to test your outdoor signal strength before installation.



Recommended antenna separation distances for effective booster operation.

4. OPERATING INSTRUCTIONS

LED Indicators

The Atcall booster is equipped with intuitive LED indicators that show the working status of each supported frequency band. Observe the colors to understand the booster's operation:

- **Green Light:** Indicates the band is working correctly and amplifying the signal.
- **Orange Light:** Indicates self-test mode or potential signal interference. The booster is adjusting itself.
- **Red Light:** Indicates a need for adjustment, often due to oscillation or insufficient antenna separation. Refer to the troubleshooting section.



Understanding the Smart LED Indicators on your booster.

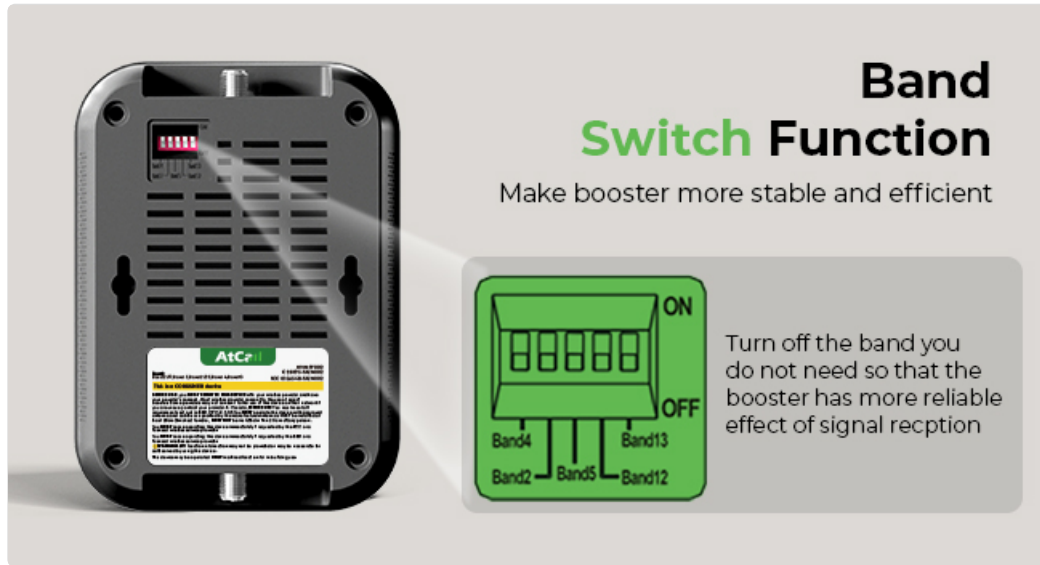
Band Switch Function

The booster features a unique band switch function on the back, allowing you to selectively turn off specific frequency bands. This can help optimize performance and prevent interference, ensuring the booster focuses on the most relevant bands for your area.

- Locate the small switches on the back of the booster unit.
- Each switch corresponds to a specific frequency band (e.g., Band 4, Band 2, Band 5, Band 12, Band

13).

- To turn off a band, flip its corresponding switch to the 'OFF' position. This can be useful if a particular band is causing interference or is not needed in your location.



The band switch function on the back of the booster allows for selective band activation.

5. TROUBLESHOOTING

Common Issues and Solutions:

- **No Signal Improvement / Red LED:**

This often indicates oscillation or insufficient separation between the indoor and outdoor antennas. Increase the distance between the antennas, ensuring they meet the minimum separation requirements (30ft horizontal, 20ft vertical, 40ft straight line). Reorient the outdoor antenna slightly to find a stronger, cleaner signal.

- **Weak Signal Improvement / Orange LED:**

The outdoor antenna might not be optimally positioned or facing the strongest signal source. Try adjusting the direction of the outdoor antenna. Ensure there are no obstructions between the outdoor antenna and the cell tower. Verify all cable connections are secure.

- **Booster Not Powering On:**

Check the power supply connection to the booster and the wall outlet. Ensure the outlet is functional.

Testing Methods for Frequency Band:

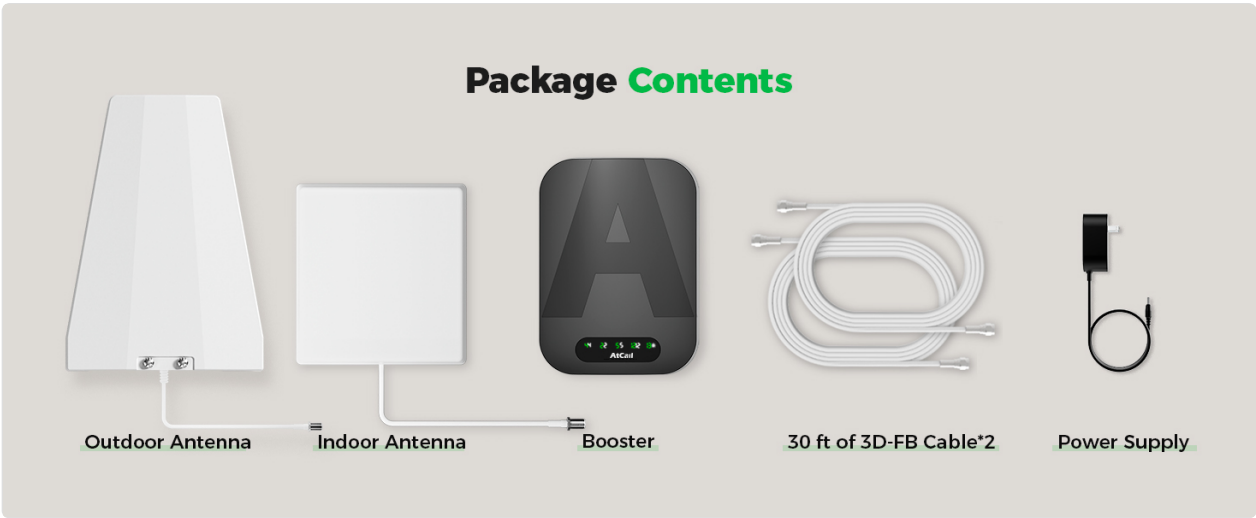
To identify which frequency bands are active or to troubleshoot, you can use the following methods:

- **For iPhone:**

- a. Dial *3001#12345#* then press the call button.
- b. Choose 'All Metrics', then click 'Serving Cell Info'.
- c. Check 'Band Info' to see the active frequency band.

- **For Android Phone:**

- a. Download a network cell info app (e.g., "Network Cell Info Lite") from your app store.
- b. Open the app and choose 'GAUGE'.
- c. Check 'BAND' to identify the active frequency band.



Methods to check your phone's connected frequency band.

6. SPECIFICATIONS

Feature	Specification
Model Number	SF002
Supported Bands	Band 12/17, Band 13, Band 5, Band 2/25, Band 4/66
Supported Technologies	5G, 4G LTE
Max Gain	65dB
Coverage Area	Up to 5000 sq. ft.
Special Features	Directional Antenna, LED Indicator, Automatic Gain Control, Oscillation Cancellation, Inactivity Mode
Dimensions	36.79 x 22.4 x 12.9 cm
Item Weight	2.15 kg
ISED Approval	HVIN: SF002, IC ID: 28093-SFZN002

7. WARRANTY AND SUPPORT

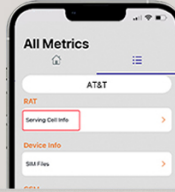
The Atcall Cell Phone Signal Booster is ISED Approved, ensuring compliance with Canadian regulatory standards. It comes with a 3-year warranty, providing peace of mind regarding its quality and performance.

Testing Methods of Frequency Band



For iPhone

1. Dial *3001#12345#* then press call button
2. Choose All Metrics, Click Serving Cell Info
3. Check Band Info



For Android phone

1. Download "Network Cell Info Lite"
2. Choose "GAUGE"
3. Check "BAND"



ISED Approval and 3-Year Warranty information.

For any questions, technical assistance, or warranty claims, please contact Atcall customer support. Our professional team is ready to assist you.

You can find contact information on the official Atcall website or through your purchase platform.