

## Atcall 3K

# Atcall 3K Cell Phone Signal Booster User Manual

Model: 3K

## 1. INTRODUCTION

The Atcall 3K Cell Phone Signal Booster is designed to enhance cellular signal strength within your home or office, covering an area of up to 3,000 sq. ft. This device improves 4G LTE and 5G voice and data connectivity for all major Canadian carriers, including Bell, MTS, SaskTel, TELUS, Fido, and Rogers. It is ISED approved, ensuring compliance with Canadian regulatory standards.



The complete Atcall 3K Cell Phone Signal Booster kit, including the booster unit with LCD screen, outdoor directional antenna, indoor whip antenna, and connecting cable.

## 2. PRODUCT OVERVIEW

### 2.1. Package Contents

- 1 x Atcall 3K Signal Booster
- 1 x 60ft Coaxial Cable
- 1 x Indoor Whip Antenna
- 1 x Outdoor Directional Antenna
- 1 x Power Supply
- 1 x Booster Wall Mount Bracket
- 1 x Roof/Pole Mount Bracket



An exploded view diagram detailing all components included in the Atcall 3K Cell Phone Signal Booster package, along with their approximate dimensions.

### 2.2. Key Features

- **Five-Band Support:** Operates on bands 12/17, 13, 5, 2/25, and 4, covering a wide range of cellular frequencies.
- **Extended Coverage:** Boosts signal up to 3,000 sq. ft. with 68dB high gain.
- **Universal Canadian Carrier Compatibility:** Works with Bell, MTS, SasKTel, TELUS, Fido, Rogers, and other Canadian service providers.
- **Real-Time LCD Monitor:** Displays signal strength and working status, aiding in installation and troubleshooting.
- **Directional Outdoor Antenna:** Designed to receive signals from distant base stations with higher gain.
- **ISED Approved:** Certified with HVIN:SF005B and IC ID: 28093-SFZN005.

## 3. BEFORE INSTALLATION

### 3.1. Signal Testing

Before installing the booster, it is crucial to verify your outdoor signal strength and identify the frequency bands used by your carrier. Ensure you have at least 1-2 bars of stable outdoor signal for the booster to function effectively.

The Atcall 3K booster supports Band 12/17, Band 13, Band 5, Band 2/25, and Band 4.

## What's in the Box



A visual guide demonstrating how to check the frequency band information on both iPhone (using dialer codes) and Android devices (using a third-party app).

### For iPhone:

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

### For Android Phone:

1. Download a network cell info app (e.g., "Network Cell Info Lite").
2. Choose 'GAUGE'.
3. Check 'BAND'.

### 3.2. ISED Approval

This Atcall cell phone signal booster is approved by ISED Certification, with HVIN:SF005B and IC ID: 28093-SFZN005. This ensures the product meets all necessary Canadian regulatory requirements for wireless devices.

# ISED Approved

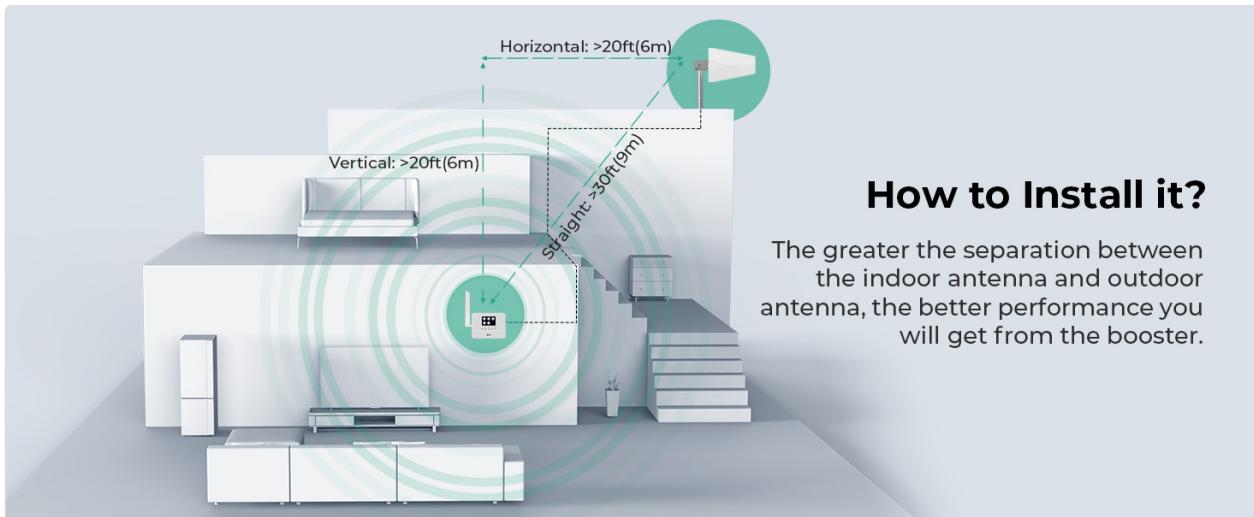
Compliant with all the requirements of FCC&IC Certification



The back panel of the AtCall 3K booster, showing the ISED certification labels (HVIN:SF005B, IC ID: 28093-SFZN005) confirming regulatory compliance.

## 4. SETUP AND INSTALLATION

Proper installation is key to optimal performance. The most critical factor is maintaining sufficient separation between the outdoor and indoor antennas to prevent signal oscillation.



## How to Install it?

The greater the separation between the indoor antenna and outdoor antenna, the better performance you will get from the booster.

A diagram showing the recommended minimum separation distances (vertical, horizontal, and straight line) between the indoor and outdoor antennas for optimal performance and to prevent oscillation.

### 4.1. Outdoor Antenna Placement

1. Identify the location with the strongest outdoor signal using your cell phone.
2. Mount the outdoor directional antenna on a roof, pole, or other high point using the provided brackets.
3. Aim the antenna towards the nearest cell tower for the best signal reception.

# Get Reliable Cellular Signal



**3G/4G LTE/  
5G Compatible**



**Better Voice  
Quality**



**Faster Data  
Speed**

Illustration demonstrating the placement of the outdoor directional antenna and the indoor booster unit for optimal signal coverage.

## 4.2. Cable Connection

- Connect one end of the 60ft coaxial cable to the outdoor antenna.
- Route the cable indoors and connect the other end to the port labeled "Outdoor" on the Atcall 3K Signal Booster. Ensure connections are finger-tight.

## 4.3. Indoor Antenna and Booster Placement

1. Connect the indoor whip antenna directly to the port labeled "Indoor" on the Atcall 3K Signal Booster.
2. Place the booster unit and indoor antenna in a central location within the area where you desire improved signal. The unit can be placed on a table or mounted on a wall.
3. Maintain a minimum separation of **20 feet vertically or 20 feet horizontally** (ideally **30 feet straight**)

**line)** between the indoor and outdoor antennas to prevent signal feedback (oscillation).



The Atcall 3K booster unit mounted discreetly on a wall in a modern living room.



The Atcall 3K booster unit placed on a table in a living room.

# Indoor Whip Antenna

360° Improved Signal  
Coverage Up to 3,000 Sq Ft



An overhead view diagram of a house, illustrating how the indoor whip antenna distributes enhanced cellular signal throughout the living space.

## 4.4. Power Connection

- Connect the power supply to the booster unit.
- Plug the power supply into a standard electrical outlet. The booster will power on automatically.

## 5. OPERATION

### 5.1. LCD Monitor Display

The Atcall 3K booster features an intuitive LCD monitor that provides real-time information about the signal strength and operational status of each frequency band. This display is crucial for verifying proper installation and identifying potential issues.

# Compatible with All Canadian Carriers

Support multiple users&devices

**Bell**

**MTS**

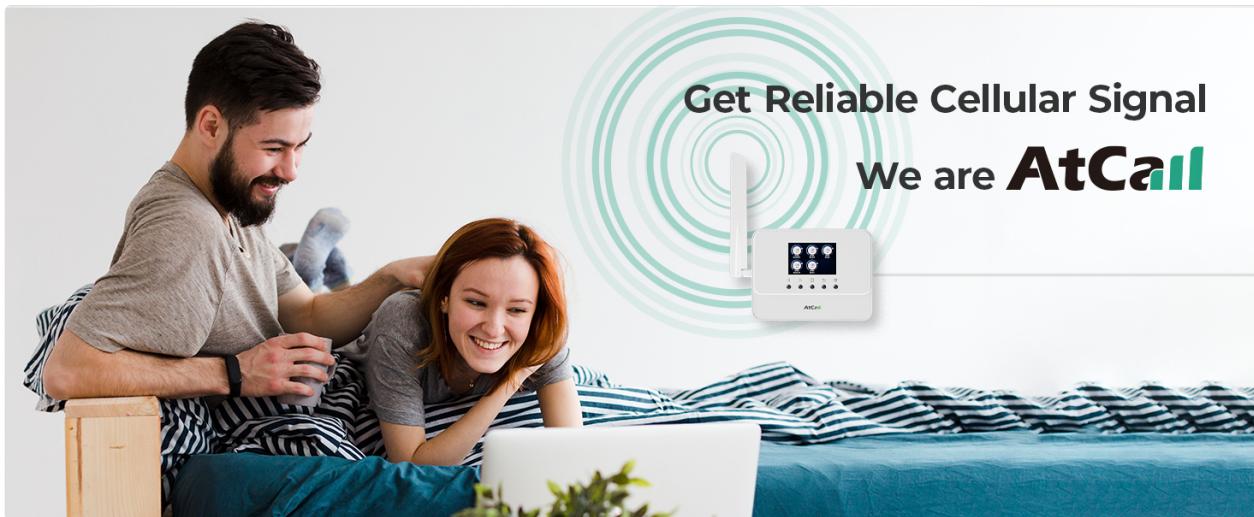
**SaskTel**

**TELUS**

**fido**



The booster features a smart LCD monitor that provides real-time information on signal strength and operational status for each supported frequency band.



A detailed graphic explaining the various indicators on the Atcall 3K booster's HD LCD display, including uplink/downlink signal strength, frequency band, and control buttons.

- **Real-Time Downlink Signal Strength (dBm):** Indicates the strength of the signal received from the cell tower.
- **Uplink Signal Strength:** Shows the strength of the signal transmitted from your phone to the cell tower.
- **Frequency Band Operating Status:** Displays the status for each supported band (e.g., NORM for normal operation, OSC for oscillation).
- **Band Number:** Identifies the specific frequency band being boosted.
- **Uplink/Downlink Gain:** Shows the amplification level for each direction.

## 5.2. Automatic Gain Control (AGC)

The Atcall 3K booster is equipped with Automatic Gain Control (AGC), which automatically adjusts the booster's gain to prevent overload and maintain stable operation, even with fluctuating incoming signal levels.

## 6. MAINTENANCE

The Atcall 3K Cell Phone Signal Booster requires minimal maintenance. Follow these guidelines to ensure continued optimal performance:

- **Keep Antennas Clear:** Ensure both the outdoor and indoor antennas are free from obstructions (e.g., snow, debris, furniture).
- **Check Connections:** Periodically inspect all cable connections to ensure they are secure and free from damage.
- **Clean Unit:** If necessary, gently wipe the booster unit with a dry, soft cloth. Do not use liquid cleaners.

## 7. TROUBLESHOOTING

If you experience issues with your Atcall 3K Cell Phone Signal Booster, refer to the LCD monitor for diagnostic information and try the following solutions:

- **No Signal Improvement:**
  - Verify that the outdoor antenna is correctly aimed towards the nearest cell tower.
  - Check all cable connections to ensure they are secure.
  - Confirm that the outdoor signal strength is at least 1-2 bars before amplification.
  - Ensure your phone's frequency band is supported by the booster.

- **Oscillation (Feedback Loop) Indicated on LCD:**

- This occurs when the indoor and outdoor antennas are too close. Increase the physical separation between the indoor and outdoor antennas.
- Ensure there is adequate vertical and horizontal distance as recommended in the installation section.

- **LCD Display Not Working:**

- Check the power supply connection and ensure the outlet is functional.
- If the issue persists, contact Atcall technical support.

## 8. SPECIFICATIONS

<b>Brand</b>	Atcall
<b>Model</b>	3K
<b>Coverage Area</b>	Up to 3,000 sq. ft.
<b>Supported Bands</b>	Band 12/17, Band 13, Band 5, Band 2/25, Band 4
<b>Gain</b>	68dB
<b>Compatible Devices</b>	Cellular Devices, Smartphone
<b>Wireless Standard</b>	Radio Frequency
<b>Parcel Dimensions</b>	36.4 x 23.3 x 11.8 cm
<b>Parcel Weight</b>	2.61 kg
<b>ISED Certification</b>	HVIN:SF005B, IC ID: 28093-SFZN005

## 9. WARRANTY AND SUPPORT

Atcall provides professional technical support to assist with any questions or issues you may encounter. For specific warranty details, please refer to the official warranty policy provided with your product or contact Atcall customer service directly.

For assistance, please utilize the professional tech-support-online chat or contact us through the official Atcall channels.

 <b>Atcall SuperLink Cell Signal Booster</b> <b>Installation Guide</b>	<p><a href="#">Atcall SuperLink Cell Signal Booster Installation Guide</a></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>
 <b>TE PARI Loadbar plug wiring</b>	<p><a href="#">TE PARI Loadbar Plug Wiring Instructions and Compatibility Guide</a></p> <p>Provides essential wiring pinout details for TE PARI Loadbar plugs, including specific connections for EXC and SIGNAL lines, and instructions for using a <math>3.3\text{k}\Omega</math> resistor to ensure compatibility with various indicators.</p>
 <b>TP-Link Tapo</b> <b>Outdoor Pan/Tilt Security Wi-Fi Camera</b> <b>User Guide</b>	<p><a href="#">TP-Link Tapo Outdoor Pan/Tilt Security Wi-Fi Camera User Guide</a></p> <p>User guide for the TP-Link Tapo Outdoor Pan/Tilt Security Wi-Fi Camera, covering setup, features, and safety information. Learn about its 3K 5MP resolution, motion tracking, IP66 weatherproof rating, and more.</p>
 <b>SUN2000-(3K-6K)-LB0 Series</b> <b>User Manual</b>	<p><a href="#">SUN2000-(3K-6K)-LB0 Series User Manual</a></p> <p>This user manual provides comprehensive instructions for the SUN2000-(3K-6K)-LB0 Series inverters, covering safety precautions, product introduction, installation, electrical connections, power-on and commissioning, maintenance, and technical specifications. It is intended for installers and users.</p>
 <b>Lennox SNE Series Air Conditioner Operation, Service, and Installation Manual</b>	<p><a href="#">Lennox SNE Series Air Conditioner Operation, Service, and Installation Manual</a></p> <p>Comprehensive manual for Lennox SNE series air conditioners, covering general information, specifications, electrical connections, fan specifications, cooling capacity, water consumption, dimensions, installation, service, maintenance, and options.</p>