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## BINGFU 4G LTE RP SMA Cellular Antenna

# Bingfu 4G LTE RP SMA Cellular Antenna Instruction Manual

Model: 4G LTE RP SMA Cellular Antenna

## 1. INTRODUCTION AND OVERVIEW

The Bingfu 4G LTE RP SMA Cellular Antenna is designed to enhance cellular signal reception for a wide range of devices, including 4G LTE mobile routers, hotspots, CPE routers, cellular gateways, trail cameras, game cameras, outdoor security cameras, and vehicle 4G LTE trackers. This omni-directional antenna provides a 7dBi gain, improving connectivity and data transmission speeds in areas with weak signal strength. Its robust design allows for fixed wall or thru-hole mounting, making it suitable for both indoor and outdoor applications.

## 2. PACKAGE CONTENTS

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

- 2 x 4G LTE RP-SMA Male Antennas (with integrated 3m/10 feet cable)
- 2 x RP-SMA Female to SMA Male Adapters
- 2 x Wall Mount Fixed Brackets
- 8 x Self-tapping Screws



Figure 2.1: Complete package contents including antennas, cables, brackets, adapters, and screws.

### 3. SPECIFICATIONS

Feature	Specification
Frequency Range	698-960 MHz, 1710-2170 MHz, 2300-2700 MHz
Gain	7dBi
Direction	Omni-directional
Waterproof Rating	Rainproof
Mounting Type	Fixed Wall Mount; Thru Hole Mount
Antenna Mounting Screws Diameter	M12 (11.76mm-11.95mm)
Cable Length	3m / 10 feet

Connector	RP-SMA Male (with SMA Male Adapter included)
Impedance	50 Ohm
Product Dimensions (L x W x H)	16.14 x 3.94 x 0.79 inches (Antenna length approx. 37cm / 14.5 inches)
Item Weight	7.8 ounces



Figure 3.1: Antenna dimensions.

#### 4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. Follow these steps to set up your Bingfu 4G LTE RP SMA Cellular Antenna:

#### 4.1 Choosing an Installation Location

Select a location that offers the best possible cellular signal reception. This typically means a high point with a clear line of sight to the nearest cellular tower, free from obstructions like large buildings, dense foliage, or metal structures. For outdoor use, consider mounting on a pole, wall, or tree. For indoor use, a window sill or a high shelf can be effective.



Figure 4.1: Examples of outdoor and indoor antenna installation scenarios.

#### 4.2 Mounting the Antenna

The antenna can be mounted using the provided wall mount fixed bracket. The antenna base features an M12 (11.76mm-11.95mm) thru-hole for secure attachment.

1. Attach the black metal mounting bracket to the antenna base using the integrated nut.
2. Position the bracket at your chosen installation location.
3. Use the provided self-tapping screws to securely fasten the bracket to the surface (e.g., wall, wood, pole).  
Ensure the mounting is stable and can withstand environmental conditions.



Figure 4.2: Antenna with mounting bracket and screws.



Figure 4.3: Detailed view of the antenna base and mounting.

#### 4.3 Connecting the Antenna

The antenna comes with an RP-SMA Male connector. If your device requires an SMA Male connection, use the included adapter.

1. Identify the antenna port on your device (e.g., cellular router, trail camera).
2. If your device has an RP-SMA Female port, directly connect the antenna's RP-SMA Male connector to it.
3. If your device has an SMA Female port, first attach the RP-SMA Female to SMA Male adapter to the antenna's connector, then connect the adapter to your device's port.
4. Ensure all connections are finger-tight to prevent signal loss. Do not overtighten.



Figure 4.4: RP-SMA Female to SMA Male Adapter.

## 5. OPERATING INSTRUCTIONS

The Bingfu 4G LTE RP SMA Cellular Antenna is a passive device that does not require active operation once installed. Its function is to receive and transmit cellular signals more effectively, thereby improving the performance of your connected device.

### 5.1 Compatible Devices

This antenna is widely compatible with devices requiring 4G LTE cellular connectivity, including but not limited to:

- 4G LTE Mobile Routers, Mobile Broadband Modem Hotspots, CPE Routers, Cellular Gateways
- 4G LTE Cellular Trail Cameras (e.g., SPYPOINT Link S/DARK/MICRO LTE TWIN/S LTE/EVO/VZN Version/Solar/WM-V/W, SPYPOINT CELL LINK)
- Game Cameras, Hunting Cameras
- Outdoor Security Cameras, Cellular Surveillance Cameras
- Vehicle 4G LTE Trackers, Real Time Monitors, Mobile Vehicle Car DVR MDVR Video Recorders
- Industrial 4G LTE Routers, Cellular IoT Gateways, 4G LTE M2M RTU DTU Terminals

Once connected, your device should automatically utilize the external antenna for improved signal reception.

Monitor your device's signal strength indicator to confirm improved performance.

## 6. TROUBLESHOOTING

If you experience poor signal or connectivity issues after installation, consider the following troubleshooting steps:

### 6.1 No Signal or Weak Signal

- **Check Connections:** Ensure the antenna cable is securely connected to your device's antenna port. If using the adapter, ensure both ends of the adapter are tightly connected.
- **Verify Compatibility:** Confirm that your device's antenna port type (RP-SMA Female or SMA Female) matches the antenna's connector or the adapter being used.
- **Relocate Antenna:** Signal strength can vary significantly even over short distances. Try repositioning the antenna to a different spot, preferably higher up or with fewer obstructions. Experiment with different orientations.
- **Inspect Cable:** Check the antenna cable for any kinks, cuts, or damage that could impede signal transmission.
- **Test Signal Strength:** Many devices have a built-in signal strength indicator. Use this to find the optimal antenna placement.

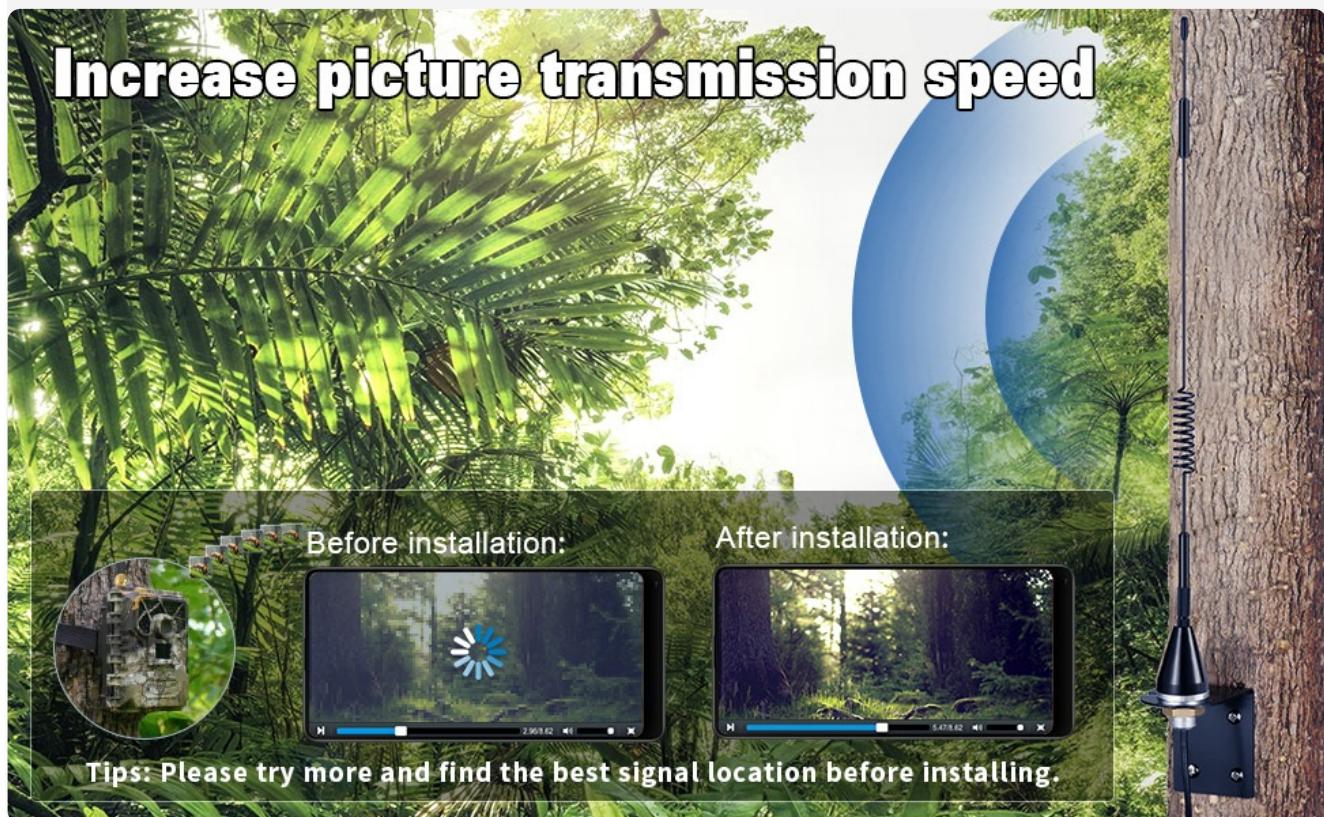


Figure 6.1: Visual representation of signal improvement after antenna installation.

## 7. MAINTENANCE

The Bingfu 4G LTE RP SMA Cellular Antenna requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the antenna and cable with a soft, damp cloth to remove dust, dirt, or debris. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly inspect the antenna, cable, and mounting bracket for any signs of physical damage, corrosion, or loose connections. Ensure the mounting screws remain tight, especially after exposure to strong winds or extreme weather.

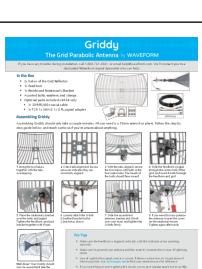
- **Weather Protection:** While the antenna is designed to be rainproof, prolonged exposure to extreme weather conditions (e.g., heavy snow, ice, direct lightning strikes) should be minimized where possible.

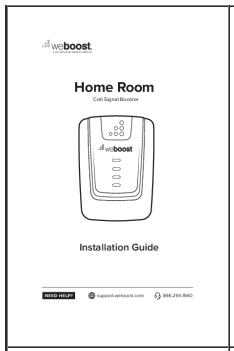
## 8. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts, please contact Bingfu customer service directly. Refer to your purchase documentation or the Bingfu official website for contact details.

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### Related Documents - 4G LTE RP SMA Cellular Antenna

 <p><b>4x4 MIMO External Antennas</b> By WAVEFORM</p> <p><b>PLEASE READ THIS FIRST:</b> We know, reading manuals isn't always fun. But we promise it's worth it. We've helped thousands of customers improve signal to their cellular routers. This manual will help you do the same. It's a quick read and will help you get the best performance out of your 4x4 MIMO External Antennas.</p> <p><b>About Waveform:</b> Waveform is a leading provider of cellular signal boosters and antennas. Our products are designed to help you get the best signal possible, no matter where you are.</p>	<p><a href="#">Waveform 4x4 MIMO External Antennas: Installation and Optimization Guide</a></p> <p>Step-by-step instructions from Waveform for installing 4x4 MIMO External Antennas to boost cellular signal. Covers setup, positioning, testing, and optimization for cellular routers and hotspots.</p>
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 <p>The image shows a screenshot of the weBoost Home Room Cell Signal Booster Installation Guide. It features the weBoost logo at the top, followed by a diagram of the device with labels for 'Home Room' and 'Cell Signal Booster'. Below the diagram is a section titled 'Installation Guide'. At the bottom of the page are links for 'NEED HELP?', 'support.weboost.com', and '888.294.8880'.</p>	<p><b><u><a href="#">weBoost Home Room Cell Signal Booster Installation Guide</a></u></b></p> <p>Comprehensive installation guide for the weBoost Home Room Cell Signal Booster, covering setup, optimization, troubleshooting, and specifications for improving cellular reception.</p>
 <p>The image shows a screenshot of 'The Basic Guide to Cell Phone Signal: Understanding and Improving Coverage with WilsonPro'. It features a photo of a man looking at his phone, followed by the title 'THE BASIC GUIDE TO Cell Phone Signal'. At the bottom is a dark blue footer bar with the 'WILSONPRO' logo and 'wilsonpro.com'.</p>	<p><b><u><a href="#">The Basic Guide to Cell Phone Signal: Understanding and Improving Coverage with WilsonPro</a></u></b></p> <p>Learn how cell phone signals work, what causes poor reception, and how WilsonPro's cell signal boosters can improve coverage in your home or business. This guide explains signal measurement, field test modes, and DAS technology.</p>