

BINGFU BFN00493

Bingfu 4G LTE MIMO Magnetic Base Antenna (Model BFN00493) User Manual

Model: BFN00493 | Brand: BINGFU

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Bingfu 4G LTE MIMO Magnetic Base Antenna, Model BFN00493. This antenna is designed to enhance 4G LTE signal reception for compatible devices, improving connectivity and data transfer speeds.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Compatible Carrier Networks:** Verizon, AT&T, T-Mobile, Sprint, and others.
- **Antenna Type:** 4G LTE Cellular MIMO Antenna with Magnetic Base Mounting.
- **Gain:** 6dBi.
- **Frequency Range:** 698-960 MHz, 1710-2170 MHz, 2300-2700 MHz.
- **VSWR:** < 2.0.
- **Polarization:** Linear Vertical.
- **Impedance:** 50 Ohm.
- **Direction:** Omni-directional.
- **Connector:** Dual SMA Male Connector.
- **Cable:** 2 meters (6.5 feet) in length.
- **Antenna Height:** 22 cm.
- **Weight:** 256g.
- **Compatibility:** Designed for 4G LTE Mobile Hotspot MiFi, Wireless CPE Routers, Mobile Broadband Modems, USB Modem Dongle Adapters, Industrial 4G LTE Routers, and Cellular IoT Gateways.

2.2 Package Contents

- 1 x Bingfu 4G LTE MIMO Magnetic Base Antenna (Model BFN00493)
- (Optional: TS9 Adapters may be included or required for certain devices, check your device's port type.)

3. SPECIFICATIONS

Brand	BINGFU
Model Number	BFN00493
Antenna Type	4G LTE MIMO Magnetic Base
Gain	6dBi
Frequency Range	698-960 MHz, 1710-2170 MHz, 2300-2700 MHz
VSWR	< 2.0
Polarization	Linear Vertical
Impedance	50 Ohm
Connector Type	Dual SMA Male
Cable Length	2 meters (6.5 feet)
Antenna Height	22 cm (8.66 inches)
Base Dimensions (L x W x H)	8 cm x 7.5 cm x 4 cm (approx.)
Color	Black
Net Weight	256g



Image: Detailed dimensions of the antenna, including total height, mast height, and base measurements.

4. SETUP INSTRUCTIONS

Follow these steps to properly set up your Bingfu 4G LTE MIMO Magnetic Base Antenna:

4.1 Connecting the Antenna

1. **Identify Ports:** Locate the external antenna ports on your 4G LTE device (e.g., router, hotspot, modem). These are typically labeled "ANT1" and "ANT2" or similar. Ensure your device uses SMA Female connectors. If your device uses TS9 connectors, you will need appropriate TS9 adapters (sold separately or included with some packages).

2. **Connect SMA Male Connectors:** Carefully screw the dual SMA Male connectors from the antenna cable into the corresponding SMA Female ports on your 4G LTE device. Ensure they are finger-tight to establish a secure connection. Do not overtighten.
3. **(Optional) Using TS9 Adapters:** If your device has TS9 ports, first attach the TS9 adapters to the SMA Male connectors of the antenna cable, then connect the TS9 adapters to your device's ports.



Image: Close-up view of the dual SMA Male connectors and optional TS9 adapters. Ensure correct connector type for your device.



Image: Illustration of the antenna connected to a mobile hotspot, demonstrating the use of a TS9 adapter for compatibility.

4.2 Positioning the Antenna

Optimal antenna placement is crucial for maximizing signal reception. The magnetic base offers flexible mounting options:

- **Magnetic Mounting:** Place the antenna on any flat, ferrous metal surface, such as a desktop, metal shelf, or filing cabinet. The magnetic base will secure it in place.
- **Vertical Orientation:** For best results, position the antenna masts vertically. This orientation generally provides better signal reception.
- **Elevated Position:** Placing the antenna in a higher location, such as near a window or on an elevated surface, can often improve signal strength by reducing obstructions.
- **Avoid Obstructions:** Keep the antenna away from large metal objects, thick walls, or other potential signal blockers.



Magnetic base

Image: The antenna positioned on a metal shelf, highlighting its magnetic base for easy placement.

Easy To Install

- Hanging Mount
- Magnetic Mount



Magnetic Mount

Hanging Mount

Image: Demonstrates both magnetic and hanging mount options for flexible antenna placement.

5. OPERATING INSTRUCTIONS

Once the antenna is connected and positioned, operate your 4G LTE device as usual. The antenna works passively to improve signal reception.

1. **Power On Device:** Turn on your 4G LTE router, hotspot, or modem.
2. **Monitor Signal Strength:** Check the signal strength indicator on your device. You should observe an improvement in signal bars or reported signal quality compared to using the device's internal antennas.
3. **Adjust Position (if needed):** If signal improvement is not satisfactory, try adjusting the antenna's position slightly. Small changes in orientation or location can sometimes yield significant improvements.



Image: A visual comparison showing potential signal improvement on a laptop screen after connecting the external antenna.

6. MAINTENANCE

The Bingfu 4G LTE MIMO Magnetic Base Antenna requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Periodically wipe the antenna and its base with a soft, dry cloth to remove dust and dirt. Do not use harsh chemicals or abrasive cleaners.
- **Connection Check:** Ensure the SMA connectors remain securely fastened to your device. Loose connections can degrade signal quality.
- **Environmental Protection:** While the antenna is designed for indoor use, avoid exposing it to extreme temperatures, direct sunlight for prolonged periods, or high humidity, which could affect its lifespan.

7. TROUBLESHOOTING

If you experience issues with your antenna, refer to the following troubleshooting tips:

Problem	Solution
No signal improvement or worse signal.	<ul style="list-style-type: none">◦ Check Connections: Ensure both SMA connectors are securely attached to your 4G LTE device.◦ Verify Adapter: If using TS9 adapters, ensure they are correctly installed and compatible with your device.◦ Reposition Antenna: Try moving the antenna to a different location, especially higher up or closer to a window. Experiment with slight rotations.◦ Check Device Settings: Some devices require external antennas to be enabled in their settings. Consult your device's user manual.◦ Test Without Antenna: Temporarily disconnect the antenna and check your device's signal with its internal antennas to compare.
Antenna does not stay in place.	<ul style="list-style-type: none">◦ Magnetic Surface: Ensure the surface you are placing the antenna on is made of ferrous metal and is flat.◦ Clean Surface: Clean the magnetic base and the mounting surface to ensure good contact.

8. WARRANTY INFORMATION

Bingfu provides a warranty for its products. For specific details regarding the warranty period, coverage, and claims process for your Model BFN00493 antenna, please refer to the documentation included with your purchase or contact Bingfu customer support directly. Proof of purchase may be required for warranty service.

9. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need further support regarding your Bingfu 4G LTE MIMO Magnetic Base Antenna, please contact Bingfu customer service through their official website or the retailer from whom you purchased the product. Please have your model number (BFN00493) and purchase information ready when contacting support.

For more information, you may visit the [BINGFU Store on Amazon](#).

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