

## LINOVISION ANT-4GCOMBO3

# LINOVISION ANT-4GCOMBO3 4G LTE MIMO and WiFi 3-in-1 Combo Antenna User Manual

Model: ANT-4GCOMBO3 | Brand: LINOVISION

## 1. PRODUCT OVERVIEW

The LINOVISION ANT-4GCOMBO3 is a versatile 3-in-1 combo antenna designed to enhance cellular signals and extend Wi-Fi coverage. It integrates two 4G LTE MIMO antennas and one dual-band Wi-Fi antenna into a single, robust unit.

- **3-in-1 Combo Design:** Combines 2x 4G LTE MIMO and 1x Dual-Band Wi-Fi (2.4GHz & 5GHz) for comprehensive connectivity. Each RG174 cable is 40cm (15.75 inches) in length.
- **Global 4G LTE Coverage:** Supports frequency ranges from 698~960MHz and 1710~2690MHz, compatible with most global 4G LTE networks. Features two 4G LTE antennas with SMA Male Connectors.
- **Dual-Band Wi-Fi:** Operates on 2400~2483.5MHz and 4900~5825MHz frequencies. Includes one Wi-Fi antenna with an RP-SMA Male Connector.
- **IP67 Waterproof Rating:** Engineered for reliable performance in harsh outdoor environments, with an operating temperature range of -40°C to +85°C.
- **Wide Compatibility:** Works with various 4G LTE cellular routers that have 2 or 3 antenna interfaces, including LINOVISION IOT-R32, Inhand IR302, Teltonika RUT241, and RUT240.
- **Diverse Applications:** Suitable for RVs, marine vehicles, remote IoT devices, surveillance systems, and industrial settings.

## 2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x LINOVISION ANT-4GCOMBO3 4G LTE MIMO and WiFi 3-in-1 Combo Antenna
- 1 x User Manual (this document)

# Antenna Interface

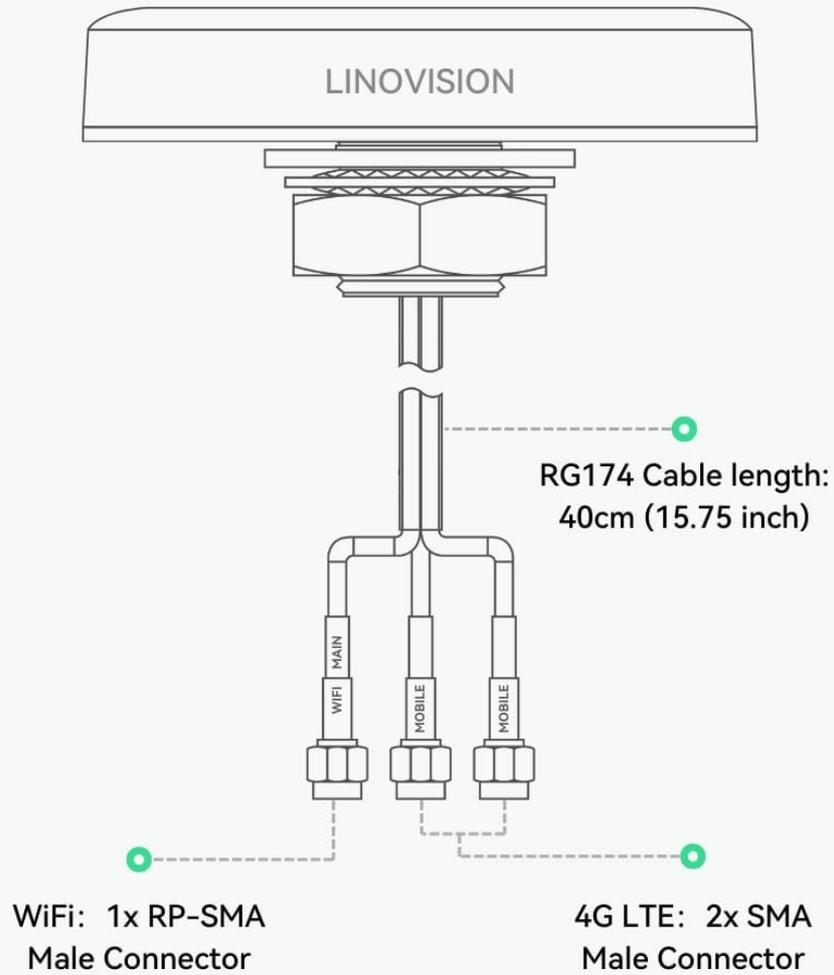


Image: LINOVISION ANT-4GCOMBO3 antenna and included user manual.

## 3. SPECIFICATIONS

Feature	Specification
Model Number	ANT-4GCOMBO3
Antenna Type	4G LTE MIMO (2x), Dual-Band Wi-Fi (1x)

Feature	Specification
4G LTE Frequency Range	698~960MHz / 1710~2690MHz
Wi-Fi Frequency Range	2400~2483.5MHz / 4900~5825MHz
4G LTE Connector Type	SMA Male
Wi-Fi Connector Type	RP-SMA Male
Cable Length	40cm (15.75 inches) RG174
Ingress Protection (IP) Rating	IP67
Operating Temperature	-40°C to +85°C (-40°F to 185°F)
Relative Humidity	Up to 95%
Impedance	50 Ohms
Maximum Range	100 Meters (approx. 328 feet)
Product Dimensions (L x W x H)	4.72" x 3.94" x 0.98" (120mm x 100mm x 25mm)
Item Weight	4.6 ounces (130g)

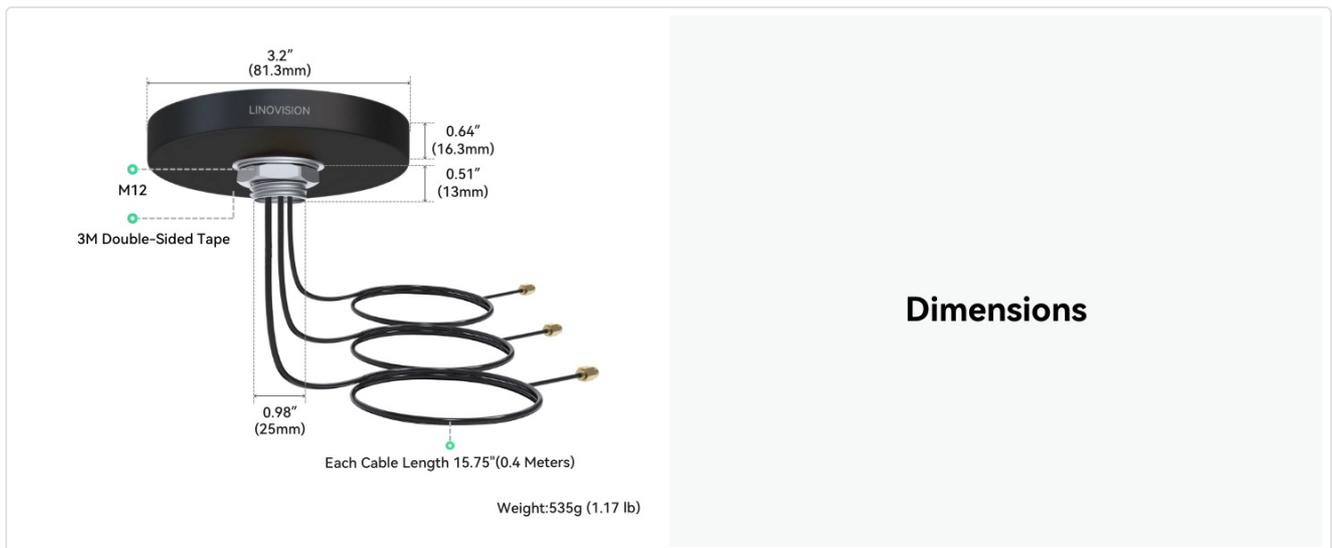


Image: Detailed dimensions of the ANT-4GCOMBO3 antenna.

## 4. SETUP AND INSTALLATION

Follow these steps for proper installation of your LINOVISION ANT-4GCOMBO3 antenna:

### 4.1 Antenna Interface

The antenna features three cables: two for 4G LTE (SMA Male connectors) and one for Wi-Fi (RP-SMA Male connector). Ensure correct connection to your router.

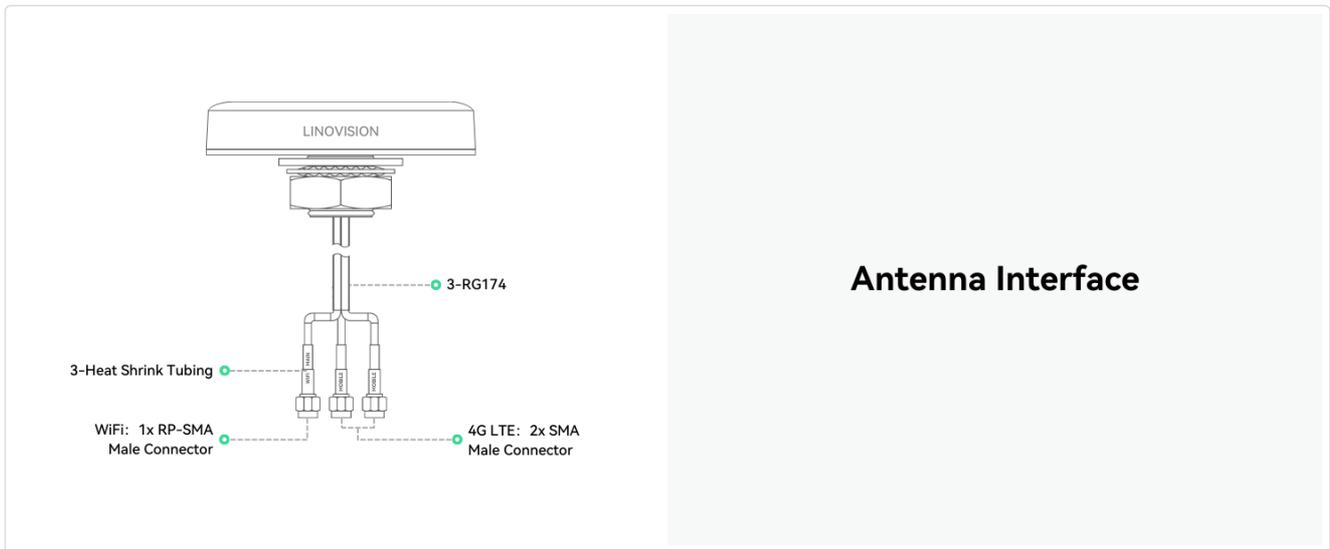


Image: Diagram illustrating the antenna's cable interfaces (2x 4G LTE SMA, 1x Wi-Fi RP-SMA).

## 4.2 Mounting Instructions

The antenna is designed for outdoor roof mounting. It requires a hole for cable routing and a secure fastening mechanism.

1. **Prepare Mounting Surface:** Choose a flat, stable surface on your vehicle or structure for mounting.
2. **Drill Hole:** Drill a hole with a diameter of 0.98 inches (25mm) at the chosen location.
3. **Attach Adhesive:** If not pre-applied, attach the 3M double-sided tape to the base of the antenna for initial positioning and sealing.
4. **Insert Antenna:** Pass the antenna's threaded shaft and cables through the drilled hole.
5. **Secure Antenna:** From the underside of the mounting surface, thread and tighten the included nut onto the antenna's shaft until secure. Ensure a tight seal to maintain IP67 rating.

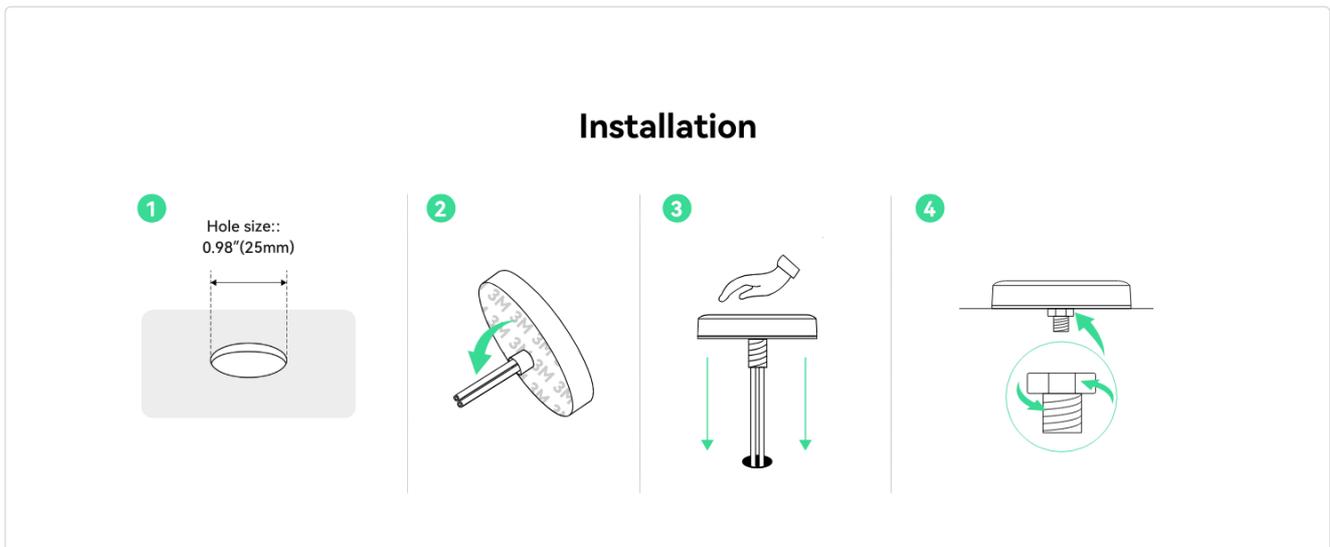


Image: Step-by-step visual guide for antenna installation.

## Outdoor Roof SMA Antenna

IP67 Waterproof, water and dust-resistant for ultimate outdoor reliability.



Image: The ANT-4GCOMBO3 antenna installed on a roof, demonstrating its outdoor suitability and IP67 waterproof design.

## 5. OPERATION

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Once installed, connect the antenna cables to the corresponding ports on your compatible 4G LTE cellular router. The antenna will then begin to enhance cellular signal reception and extend Wi-Fi coverage for your connected devices.

### 5.1 Compatible Routers

This antenna is designed to work seamlessly with routers such as:

- LINOVISION IOT-R32
- Inhand IR302
- Teltonika RUT241
- Teltonika RUT240

### 5.2 Typical Applications

The robust design and multi-functionality make this antenna suitable for a variety of demanding environments:

- **Recreational Vehicles (RVs):** Provides stable internet connectivity on the go.
- **Marine Vehicles:** Ensures reliable communication for boats and ships.
- **Remote IoT Devices:** Ideal for connecting devices in areas with weak signal.
- **Surveillance Systems:** Enhances connectivity for remote camera setups.
- **Industrial Environments:** Supports robust network access in challenging industrial settings.



Image: Examples of diverse applications for the ANT-4GCOMBO3 antenna, including RVs, transportation, marine, and construction.

## 6. MAINTENANCE

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The LINOVISION ANT-4GCOMBO3 antenna is designed for minimal maintenance due to its durable construction and IP67 waterproof rating.

- **Regular Inspection:** Periodically check the antenna for any physical damage or loose connections, especially

after severe weather conditions.

- **Cleaning:** If necessary, gently clean the antenna surface with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Environmental Resilience:** The antenna is built to withstand extreme temperatures from -40°F to 185°F and high humidity up to 95%.

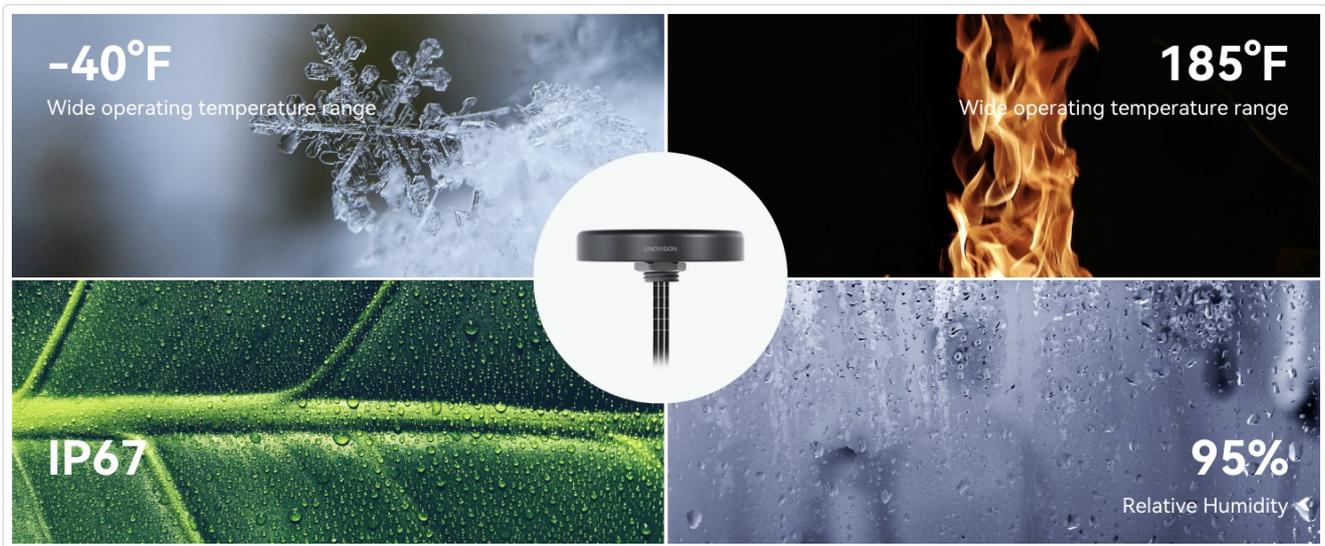


Image: Visual representation of the antenna's rugged design, highlighting its wide operating temperature range and IP67 rating.

## 7. TROUBLESHOOTING

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If you encounter issues with your antenna, consider the following troubleshooting steps:

- **No Signal or Weak Signal:**
  - Ensure all antenna connectors (SMA for 4G LTE, RP-SMA for Wi-Fi) are securely fastened to the correct ports on your router.
  - Verify that the antenna is mounted in an optimal location, free from obstructions that could block signals.
  - Check your router's settings to confirm that external antennas are enabled, if applicable.
  - Test with another compatible router or antenna if possible, to isolate the issue.
- **Intermittent Connectivity:**
  - Inspect cables for any signs of damage or wear.
  - Ensure the mounting is stable and the antenna is not moving, which could affect signal consistency.
  - Check for potential sources of interference near the antenna or router.
- **Physical Damage:**
  - If the antenna or cables are physically damaged, contact LINOVISION support for assistance.

## 8. WARRANTY AND SUPPORT

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LINOVISION is committed to providing reliable products and customer support.

- **Spare Part Availability:** EU spare parts are available for a duration of 6 years.
- **Technical Support:** 24/7 US local and global technical support is available.
- **Warranty and Replacement:** Warranty services and replacements are handled from Texas, USA.

For further assistance, please visit the official LINOVISION website or contact their customer support team.