



# 9-IN-1 MOUNTABLE ANTENNA KIT

Product Manual

# BUILT FOR THE ROAD. READY FOR EVERY SIGNAL.

Thank you for choosing the 9-in-1 Dome Antenna Kit from Lind Electronics, a compact, high-performance communication solution engineered for today’s connected vehicles. Whether used in public safety fleets, industrial equipment, utilities, or transportation, this antenna brings together Cellular, WiFi, and GNSS capabilities in one clean, low-profile package.

Designed to meet the demands of modern automotive environments, the ANT09 series delivers powerful multi-band performance, reliable positioning, and a factory-installed look — all with single-hole mounting for fast, frustration-free installation.

This product manual will guide you through kit contents, specifications, installation, and best practices to help you get the most out of your new antenna.

## KIT OVERVIEW

Each ANTKIT09 includes everything needed for a complete antenna install, including the dome antenna, extension cables, and foam adapters for ribbed or uneven vehicle roofs.



### Each kit contains:

- 1× 9-in-1 Dome Antenna (Black or White depending on configuration)
- 1× Foam Ribbed Roof Adapter (MTMSC-00052)
- 2× Cellular, 1× WiFi, and 1× GPS Extension Cables (SMA or TNC versions available)
- Cable labels and connectors as specified

## KIT CONFIGURATIONS

| PART NUMBER   | KIT CONTENTS                                                                               |
|---------------|--------------------------------------------------------------------------------------------|
| ANTKIT09-5752 | White antenna, Ribbed Roof Foam Adapter, 1 Wifi cable, 1 GPS cable, 2 Cellular cables, SMA |
| ANTKIT09-5760 | Black antenna, Ribbed Roof Foam Adapter, 1 Wifi cable, 1 GPS cable, 2 Cellular cables, SMA |
| ANTKIT09-5799 | Black antenna, Ribbed Roof Foam Adapter, 1 Wifi cable, 1 GPS cable, 2 Cellular cables, TNC |
| ANTKIT09-5800 | White antenna, Ribbed Roof Foam Adapter, 1 Wifi cable, 1 GPS cable, 2 Cellular cables, TNC |

# BUILT TO EXTEND PERFORMANCE

Extension cables are color-coded and heat-shrink labeled for intuitive routing and identification. All cables are made from low-loss Flexible RG316 material for consistent RF performance.

## EXTENSION CABLE SPECIFICATIONS

| SKU                 | USE      | ANTENNA END | DEVICE END | LABEL COLOR AND TEXT |                                                                                       |
|---------------------|----------|-------------|------------|----------------------|---------------------------------------------------------------------------------------|
| <b>CBLMS-F01240</b> | GPS      | FME-M       | SMA-M      | White — “SMA GPS”    |  |
| <b>CBLMS-F01241</b> | GPS      | FME-M       | TNC-M      | White — “TNC GPS”    |  |
| <b>CBLMS-F01230</b> | WiFi     | SMA-F       | SMA-M      | Red — “SMA WIFI”     |  |
| <b>CBLMS-F01231</b> | WiFi     | SMA-F       | TNC-M      | Red — “TNC WIFI”     |  |
| <b>CBLMS-F01250</b> | Cellular | SMA-M       | SMA-M      | Yellow — “SMA CELL”  |  |
| <b>CBLMS-F01251</b> | Cellular | SMA-M       | TNC-M      | Yellow — “TNC CELL”  |  |

■ **Material:** Low Loss RG316

■ **Length:** 192 in (approx. 16 feet or 5 meters)

## PIGTAIL CONNECTIONS:

(Black RG316, 22 inches/550mm length, with heat-shrink color coding, coming from antenna)

■ **Cellular (A/B/C/D):** SMA-Male – Yellow

■ **WIFI (1/2/3/4):** SMA-Female – Red

■ **GPS/GNSS:** FME-Female – White

# NINE SIGNALS. ZERO COMPROMISE.

The Lind ANT09 Dome Antenna combines nine separate RF elements into a single low-profile housing, creating a clean, professional, and highly durable solution for connected vehicles. This allows a single, discreet module to support fleet connectivity, vehicle routers, telemetry systems, public safety networks, and navigation and tracking.

## BUILT-IN ANTENNA ELEMENTS

**4X****CELLULAR CABLES**  
(5G/4G/3G/2G support)**4X****WIFI CABLES**  
(2.4 GHz + 4.9–6 GHz)**1X****ACTIVE GNSS CABLE**  
(GPS/GLONASS/Galileo/  
Beidou) with 28 dB LNA

# 9-IN-1 ANTENNA: TECHNICAL SPECIFICATIONS

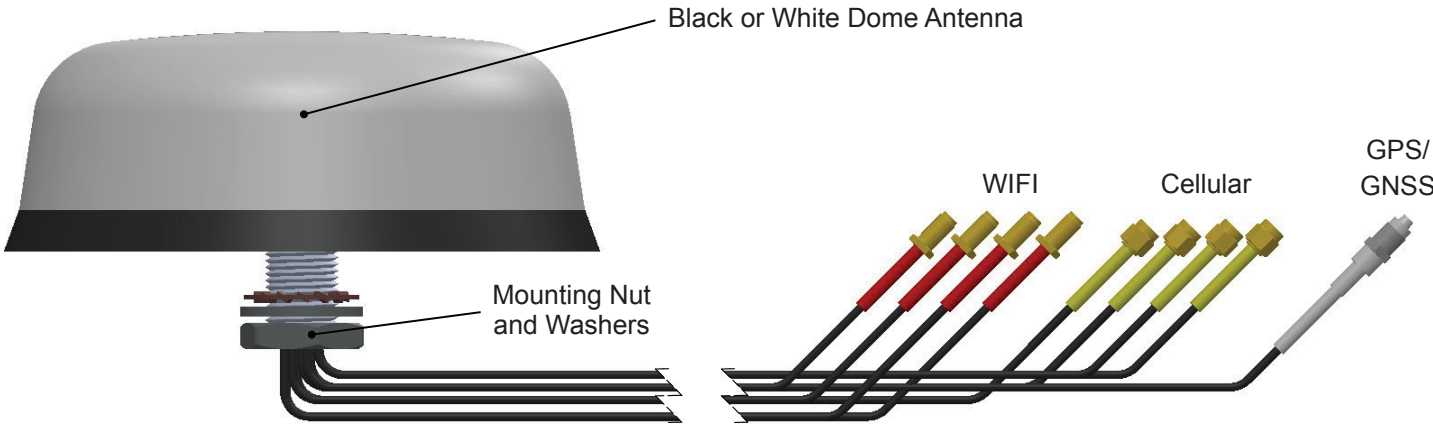
The following technical specifications provide a detailed look at the performance capabilities of the Lind 9-in-1 Dome Antenna. Designed to support reliable cellular, WiFi, and GPS/GNSS connectivity in demanding environments, these specifications outline the antenna’s operating frequencies, gain, polarization, and electrical characteristics to help ensure proper system compatibility and optimal performance.

| CELLULAR                                                                                                                                                                                                                                                                                                                                      | WIFI                                                                                                                                                                                                                                                                        | GPS/GNSS                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frequencies:</b> <ul style="list-style-type: none"> <li>698–960 MHz</li> <li>1710–2690 MHz</li> <li>3300–4200 MHz</li> </ul> <b>Peak Gain:</b> <ul style="list-style-type: none"> <li>2 dBi (698–960 MHz)</li> <li>4 dBi (1710–2690 MHz)</li> <li>4 dBi (3300–4200 MHz)</li> </ul> <b>Isolation:</b> >10 dB typical <b>Impedance:</b> 50 Ω | <b>Frequencies:</b> <ul style="list-style-type: none"> <li>2.4–2.5 GHz</li> <li>4.9–5.875 GHz</li> </ul> <b>Peak Gain:</b> <ul style="list-style-type: none"> <li>2 dBi (2.4 GHz)</li> <li>4 dBi (5 GHz)</li> </ul> <b>Isolation:</b> >25 dB typical <b>Impedance:</b> 50 Ω | <b>Frequencies:</b> <ul style="list-style-type: none"> <li>L1 (1164–1189 MHz)</li> <li>L5 (1559–1610 MHz)</li> </ul> <b>DC Voltage:</b> 3–5 V <sup>1</sup> <b>Current Draw:</b> 20 ± 5 mA <i>Note: This is an active GPS antenna</i> |

<sup>1</sup>For use with a PS1 Power Supply

# 9-IN-1 ANTENNA: MECHANICAL SPECIFICATIONS

| SPECIFICATION         | VALUE                                  |
|-----------------------|----------------------------------------|
| Dimensions            | 180.7 mm × 66.8 mm (D x H)             |
| Weight                | 663 g                                  |
| Housing Material      | UV-resistant ASA                       |
| Operating Temperature | –30°C to +70°C                         |
| Ingress Protection    | IP69K                                  |
| Mount                 | Single-hole, M22×2.0 (31.75 mm length) |
| Required Hole Size    | 22 mm (7/8")                           |



# 9-IN-1 DOME ANTENNA INSTALLATION MADE EASY

Follow these 5 simple steps to get your Lind 9-in-1 Dome Antenna installed without a hitch

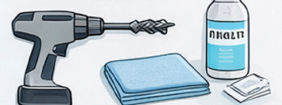
## 1 GRAB YOUR GEAR



- 34 mm wrench (flat-to-flat)



- Torque wrench



- Hole saw for 22 mm (7/8") hole
- Cleaning rag or alcohol wipes

## 3 DRILL & PREP



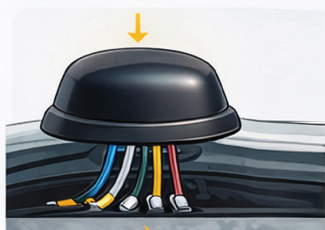
- Drill a 22 mm (7/8") mounting hole
- Deburr and clean the surface
- Wipe with Isopropyl alcohol

## 2 PICK THE PERFECT LOCATION



- ✓ Choose a flat or gently contoured area of the roof or trunk
- ✓ Plan cable routing to your router
- ✓ Double-check interior clearance before drilling

## 4 INSTALL THE ANTENNA



## 4 Antenna Installation without Ribbed Roof Adapter *\*For Use With Smooth Roofs or Surfaces*

- Peel off the release liner on the bottom of the antenna
- Run the cables through the hole, and carefully place the antenna onto the surface
- Make sure that the adhesive makes full contact with the car body, and that the rubber skirt flares out from the antenna

## Antenna Installation with Ribbed Roof Adapter (MTMSC-00052)

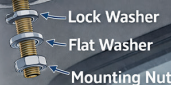
*\*For Use With Uneven Roofs or Surfaces*

- Remove release liners from the smaller EPDM foam piece
- Run the smaller foam piece up the pigtails and adhere it to the body of the antenna
- Remove the release liner from the antenna
- Run the larger foam piece up the cables and adhere it to the antenna
- Run the cables through the hole and place the antenna down

## 5 TIGHTEN THE ANTENNA

From inside the vehicle,

- Insert the **Lock Washer** onto the bolt
- Then the **Flat Washer**
- Lastly, insert the **Mounting Nut**
- **Tighten** mounting nut



## CERTIFICATIONS

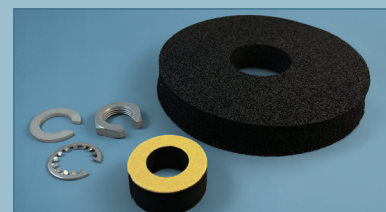
The ANT09 Dome Antenna meets or exceeds:

- RoHS 2.0
- IP69K Water & Dust Ingress
- Salt Fog (IEC 60068-2-11 / ASTM B117 / ISO 9227)
- UV Exposure (IEC 60068-2-5)
- Vibration (IEC 60068-2-6)
- Thermal Shock (IEEC60068-2-14)
- Constant Temperature (IEEC60068-2-1, 60068-2-78)
- Drop Test (IEC 60068-2-31)
- CE RED (EN 301 489-1, EN 301 489-17, EN 301 489-19, EN 301 489-52)
- CE-LVD (EN IEC 62368-1)

## WHAT'S IN THE BOX?

Confirm all kit part list components on hand before installation:

- 9-in-1 dome antenna, pre-terminated cable pigtails and adhesive backing
- Foam ribbed roof adapter (for use on uneven roofs)
- Mounting hardware
- Extension cables



## 9-IN-1 ANTENNA: TROUBLESHOOTING MADE SIMPLE

If you experience any issues after installing your 9-in-1 Dome Antenna, this section is here to help. The steps below address the most common installation and performance questions, with quick checks and practical solutions to get your system back up and running. In most cases, a minor adjustment is all that's needed—but if you need additional support, the Lind Electronics team is always ready to assist.

### TROUBLESHOOTING GUIDE

| ISSUE                   | POSSIBLE CAUSE                             | SOLUTION                                                          |
|-------------------------|--------------------------------------------|-------------------------------------------------------------------|
| Weak signal performance | Loose connector or incorrect cable routing | Verify correct, tightened cable connections and avoid tight bends |
| Water intrusion         | Improper surface contact                   | Ensure adhesive fully bonded; check foam adapter                  |

### BEFORE YOU CALL SUPPORT: QUICK CHECKLIST

A quick review of this checklist can often resolve common issues before you need to contact Support.

- ☒ Confirm all RF connectors are fully seated and correctly tightened (5 in-lb max)
- ☒ Verify correct cable connections (GPS / WiFi / Cellular)
- ☒ Check router configuration
- ☒ Ensure GPS antenna is powered (3–5V supplied)
- ☒ Inspect for pinched or sharply bent cables
- ☒ Confirm antenna has a clear sky view (no roof racks blocking)

### LIND SUPPORT: WE'RE HERE IF YOU NEED US!



**Phone:**  
(952) 927-6303



**Email:**  
info@lindelectronics.com



**Website:**  
LindElectronics.com

### LIMITED WARRANTY

\*Lind Electronics, LLC. (LIND) warrants the circuit assembly portion of products manufactured by it to be free of defects in material and workmanship for a period of 1 year from the date of purchase under normal use. During this warranty period, LIND will, at its option, repair or replace the product at no charge for parts or labor when the product is returned postage paid as a complete unit to LIND. Proof of purchase and a letter explaining the problem must accompany the returned unit.

This warranty does not apply if any part of the adapter, its cables or connection jacks have been altered, subjected to abuse, accident or misuse. This warranty excludes incidental or consequential damage resulting from the product or the use of the product. This warranty is in lieu of all other warranties expressed or implied and no person is authorized to assume for LIND any other liability in conjunction with this product. The warranty gives you, the purchaser, specific legal rights and you may have other rights which may vary from state to state and country to country.

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