



# 6-IN-1 MOUNTABLE ANTENNA KIT

Product Manual

# BUILT FOR THE ROAD. READY FOR EVERY SIGNAL.

Thank you for choosing the 6-in-1 Sharkfin 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 ANT06 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 ANTKIT06 includes everything needed for a complete antenna install, including the sharkfin antenna, extension cables, and an optional whip antenna.

### Each kit contains:

- 1 × 6-in-1 Sharkfin Antenna
- 2 × Cellular, 1 × WiFi, and 1 × GPS Extension Cables (SMA or TNC versions available)



## KIT CONFIGURATIONS

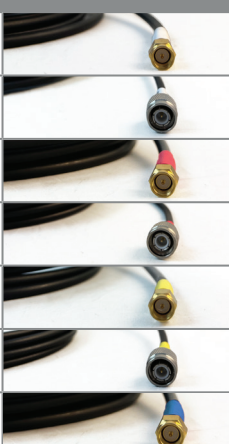
PART NUMBER	KIT CONTENTS
<b>ANTKIT06-5753</b>	Sharkfin antenna, 2 Cellular cables, 1 Wifi cable, 1 GPS cable, SMA
<b>ANTKIT06-5798</b>	Sharkfin antenna, 2 Cellular cables, 1 Wifi cable, 1 GPS cable, TNC



# 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	
CBLMS-F01240	GPS	FME-M	SMA-M	White — “SMA GPS”	
CBLMS-F01241	GPS	FME-M	TNC-M	White — “TNC GPS”	
CBLMS-F01230	WiFi	SMA-F	SMA-M	Red — “SMA WIFI”	
CBLMS-F01231	WiFi	SMA-F	TNC-M	Red — “TNC WIFI”	
CBLMS-F01250	Cellular	SMA-M	SMA-M	Yellow — “SMA CELL”	
CBLMS-F01251	Cellular	SMA-M	TNC-M	Yellow — “TNC CELL”	
CBLMS-F01270	External Whip	FME-F	SMA-M	Blue — “WHIP”	

- Material: Low Loss RG316
- Length: 192 in (approx. 16 feet or 5 meters)

## PIGTAIL CONNECTIONS:

(Black RG316, 21 inches/530mm length, with heat-shrink color coding):

- Cellular (A/B): SMA-Male – Yellow
- WiFi (1/2): SMA-Female – Red
- GPS/GNSS: FME-Female – White
- External Whip: FME-Male – Blue



# SIX SIGNALS. ZERO COMPROMISE.

The Lind ANT06 Sharkfin Antenna combines six separate elements into a single low-profile housing, creating a clean, professional, and highly durable solution for connected vehicles. This allows a single, discrete module to support fleet connectivity, vehicle routers, telemetry systems, public safety networks, and navigation and tracking.

## CABLES INCLUDED

- 2X** CELLULAR CABLES  
(5G/4G/3G/2G support)
- 1X** ACTIVE GNSS CABLE  
(GPS/GLONASS/Galileo/Beidou) with 28 dB LNA

- 1X** WIFI CABLES  
(2.4 GHz + 4.9–6 GHz)
- WHIP ANTENNA BOLT**  
Optional- Frequency range configurable for the end user

## CERTIFICATIONS

The ANT06 Sharkfin 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:

- 6-in-1 sharkfin antenna, pre-terminated cable pigtails and adhesive backing
- Mounting hardware
- Extension cables



## 6-IN-1 ANTENNA: TECHNICAL SPECIFICATIONS

The following technical specifications provide a detailed look at the performance capabilities of the Lind 6-in-1 Sharkfin 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

**Frequencies:**

- 698–960 MHz
- 1710–2690 MHz
- 3300–4200 MHz

**Peak Gain:**

- 2 dBi (698–960 MHz)
- 4 dBi (1710–2690 MHz)
- 4 dBi (3300–4200 MHz)

**Isolation:** >10 dB typical

**Impedance:** 50 Ω

### WIFI

**Frequencies:**

- 2.4–2.5 GHz
- 4.9–5.875 GHz

**Peak Gain:**

- 2 dBi (2.4 GHz)
- 4 dBi (5 GHz)

**Isolation:** >25 dB typical

**Impedance:** 50 Ω

### GPS/GNSS

**Frequencies:**

- L1 (1164–1189 MHz)
- L5 (1559–1610 MHz)

**DC Voltage:** 3–5 V<sup>1</sup>

**Current Draw:** 20 ± 5 mA

*Note: This is an active GPS antenna*

<sup>1</sup>For use with a PS1 power supply

## 6-IN-1 ANTENNA: MECHANICAL SPECIFICATIONS

### SPECIFICATION

### VALUE

**Dimensions**

- 239.6L × 67.5W × 79.1H

**Weight**

- 461 g

**Housing Material**

- UV-resistant ASA

**Operating Temperature**

- –30°C to +70°C

**Ingress Protection**

- IP69K

**Mount**

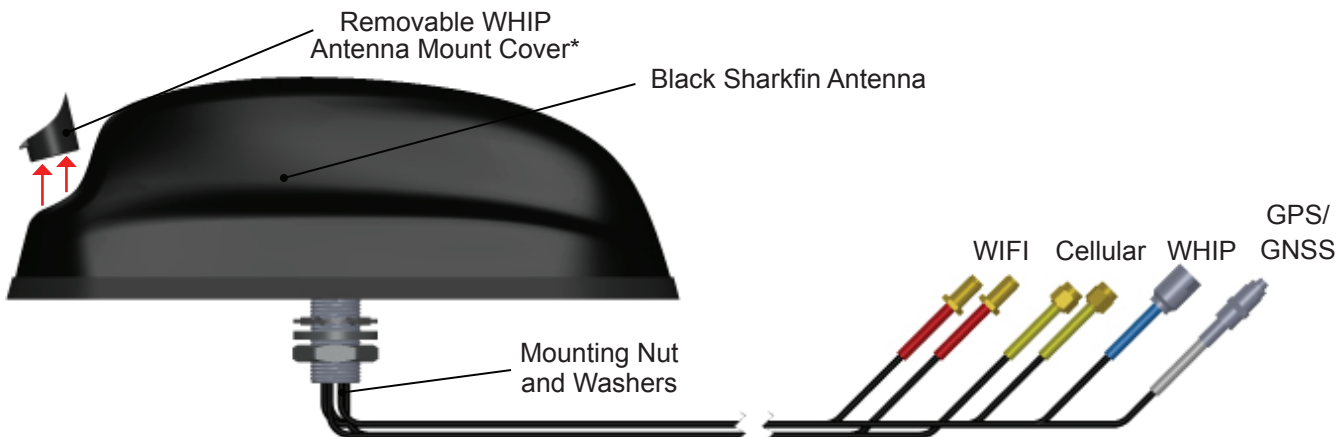
- Single-hole, M18 × 1.5 (31.75 mm length)

**Required Hole Size**

- 18 mm (7/8")

**Whip Antenna Mount**

- M6x0.75



\* Whip antenna needs to be sourced separately – choose one that is specified to fit the mounting bolt

# 6-IN-1 SHARKFIN ANTENNA INSTALLATION MADE EASY

Follow these 5 simple steps to get your Lind 6-in-1 Sharkfin Antenna installed without a hitch

## TOOLS REQUIRED:

- Wrench for mounting nut
- Cleaning rag with alcohol and/or alcohol wipes
- Torque wrench
- Hole saw for a M18 (3/4") hole



### 1 SELECT LOCATION & PREP

- **Choose** the antenna location and prepare drill hole
- **Check** that the bolt length will not interfere with the headboard, and there is enough space for the antenna
- **Measure** cable lengths needed to connect to the router



### 2 DRILL THE HOLE

- Drill a M18 (3/4") hole for the antenna



### 3 CLEAN INSTALLATION AREA

- **Debur the edges** of the drilled hole and clear the area of any debris
- **Wipe the roof surface** with isopropyl alcohol and give it a few seconds to dry



### 4 INSTALL THE ANTENNA

- **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.



Pigtails are 21" in length

NOTE: Make sure adhesive makes full contact with car body

### 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** the mounting nut



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

If you experience any issues after installing your 6-in-1 Sharkfin 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

### 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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