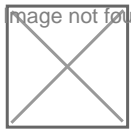


# Lightweight helical GNSS Tripleband + L-band antenna (IP67)

Includes:

- RTK tripleband + L-band external helical GNSS antenna with SMA connector

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More info about the product!



Lightweight helical GNSS Tripleband + L-band antenna (IP67) SKU is: AS-ANT3B-HEL-L1256-SMA-00

Get a discounted bulk price on this product for orders of 50 units or more. Contact us at [info@ardusimple.com](mailto:info@ardusimple.com) to get a quote.

## Description

External tripleband L1/L2/L5 + L-band helical GNSS antenna, with a weight below 35 grams, ideal for lightweight applications like drones or portable devices.

Good to know:

- Compatible with all [simpleRTK3B](#) boards as well as any other multiband GNSS receiver in the market
- Helical antennas are ideal for GNSS reception in strange attitudes (not always facing the sky)
- Integrates a SMA-male termination, no cable is needed although you can use our [cable extenders](#)
- Be aware that if you plan to use the Pixhawk connector in the simpleRTK3B board, the helical antenna will block it, so you will need a cable extender.

## Specifications

### 3B Helical antenna

#### Antenna element

- Supported positioning signal bands:
  - GPS: L1, L2, L5
  - GLONASS: G1, G2, G3
  - BeiDou: B1, B2, B3
  - Galileo: E1, E5, E6
  - QZSS: L1, L2, L5, L6
  - Navic: L5
  - L-band: L6
  - SBAS: WAAS, EGNOS, MSAS and GAGAN
- Polarization: RHCP
- Peak gain: 2dBi
- Axial Ratio @ zenith: <3dB
- Azimuth Coverage: 360 degrees
- Impedance: 50 ohm

#### Electrical

- Supply voltage: 3-16V
- Typical supply current @ 3V: 45mA
- Average LNA gain: 33dB
- Maximum Noise Figure: 1.5dB
- Maximum VSWR: 2

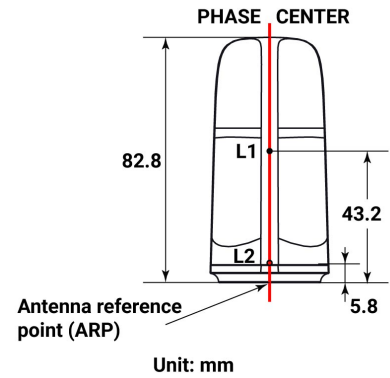
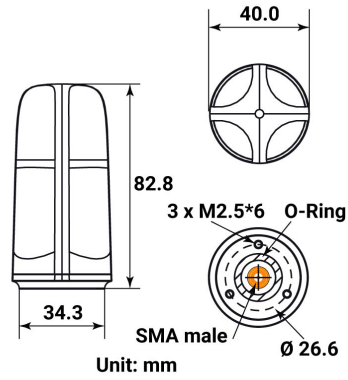
#### Mechanical

- Maximum length: 83mm
- Weight: 25g
- Mounting style: direct on SMA connector + 3x M2.5\*6
- Connector: SMA male

#### Environmental

- Operating Temperature: -40 to +85°C
- Storage Temperature: -40 to +85°C
- IP Rating: IP67
- RoHS: Yes

## Image Gallery



## Documentation

User Guide	<a href="https://staging.ardusimple.com/gps-gnss-antenna-installation-guide/">https://staging.ardusimple.com/gps-gnss-antenna-installation-guide/</a>
Download CAD model	<a href="https://staging.ardusimple.com/wp-content/uploads/3D_CAD/AS-ANT3B-HEL-L1256-SMA-00-R00.STEP">https://staging.ardusimple.com/wp-content/uploads/3D_CAD/AS-ANT3B-HEL-L1256-SMA-00-R00.STEP</a>

Lightweight helical GNSS Tripleband + L-band antenna (IP67) includes free basic technical support. Contact [info@ardusimple.com](mailto:info@ardusimple.com) for more information. Data and descriptions in this document are subject to change without notice. Product photos and pictures are for illustration purposes only and may differ from the real product appearance.