

# Lightweight helical antenna for multiband GNSS (IP67)

Includes:

- RTK dualband external helical GNSS antenna with SMA connector



More info about the product!



Lightweight helical antenna for multiband GNSS (IP67) SKU is: AS-ANT2B-HEL-L1L2-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 dual band L1/L2/E5b/B2I active helical GNSS antenna, with a weight below 18 grams, ideal for lightweight applications like drones.

Good to know:

- Compatible with all [simpleRTK2B](#) 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](#)
- Bulk pricing starting 50 units
- **Be aware that if you plan to use the Pixhawk connector in the simpleRTK2B board, the helical antenna will block it, so you will need a cable extender.**

AS-ANT2B-HEL-L1L2-SMA-00 ASB-ANT2B-HEL-L1L2-SMA-00

## Specifications

### 2B Helical antenna

#### Antenna element

- Supported positioning signal bands:
  - GPS: L1, L2
  - GLONASS: G1, G2
  - BeiDou: B1, B2
  - Galileo: E1, E5b
  - QZSS: L1, L2
  - 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: 35mA
- Average LNA gain: 33dB
- Maximum Noise Figure: 1.5dB
- Maximum VSWR: 2

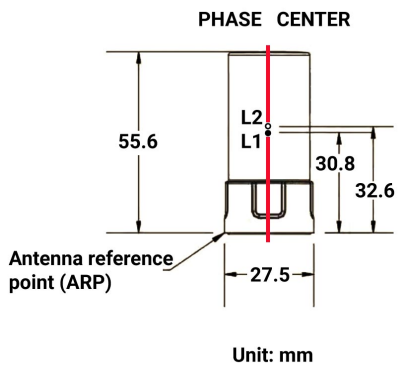
#### Mechanical

- Maximum length: 56mm
- Weight: 18g
- Mounting style: direct on SMA connector
- 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://www.ardusimple.com/gps-gnss-antenna-installation-guide/">https://www.ardusimple.com/gps-gnss-antenna-installation-guide/</a>
Download CAD model	<a href="https://www.ardusimple.com/wp-content/uploads/3D_CAD/AS-ANT2B-HEL-L1L2-SMA-00-R00.STEP">https://www.ardusimple.com/wp-content/uploads/3D_CAD/AS-ANT2B-HEL-L1L2-SMA-00-R00.STEP</a>

Lightweight helical antenna for multiband GNSS (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.