

# 3D Choke Ring GNSS Tripleband + L-band antenna (IP67)

Includes:

- 3D Choke Ring GNSS Tripleband + L-band antenna (IP67)
- 1.5m pigtail cable with TNC to SMA connector
- 2.5m pigtail cable with TNC to TNC connector



More info about the product!

3D Choke Ring GNSS Tripleband + L-band antenna (IP67) SKU is: AS-ANT3B-CHO-L1256-SMATNC-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

Calibrated by NGS Survey Quadband (L1/L2/L5/L6) 3D Choke Ring GNSS antenna. Water & dust-proof for permanent outdoor installations. Sub-millimeter phase center repeatability.

Ideal for reference stations (CORS), base station, geodetic survey, deformation monitoring, earthquake forecast, but also for fixed installations supporting L-band.

Good to know:

- Compatible with all [simpleRTK3B](#) boards as well as any other multiband GNSS receiver in the market
- Bulk pricing starting 50 units
- This product is a cheaper alternative to Trimble Ti-V2, Novatel GNSS-750 or Leica AR20 Choke Ring antennas

## Specifications

### 3D Choke Ring 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: 7dBi
- Axial Ratio @ zenith: <3dB
- Azimuth Coverage: 360 degrees
- Impedance: 50 ohm
- Phase center error:  $\pm 1$ mm
- Calibration file available

#### Electrical

- Supply voltage: 3-12V
- Typical supply current @ 3V: 60mA
- Average LNA gain: 40dB
- Maximum Noise Figure: 1.5dB
- Maximum VSWR: 1.5

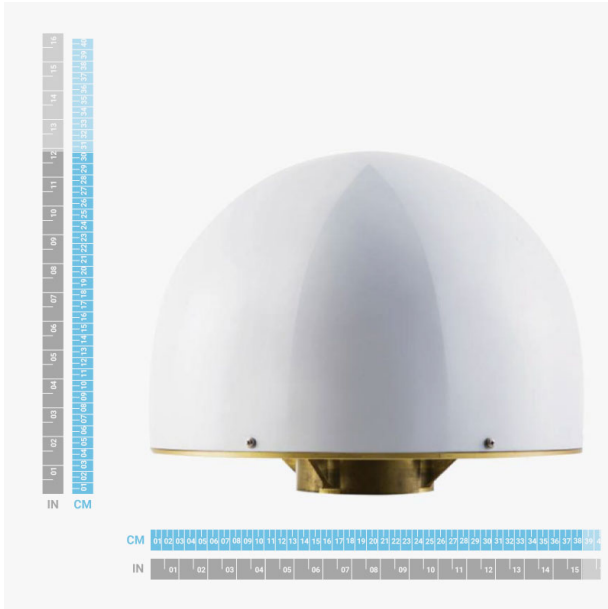
#### Mechanical

- Maximum length: 380mm
- Weight: 10kg
- Mounting style: 5/8" x 11TPI thread
- Connector: TNC female
- Cable length:
  - Includes 1.5 meter cable terminated in SMA male
  - Includes 2.5 meter cable terminated in TNC male

#### Environmental

- Operating Temperature: -40 to +85°C
- Storage Temperature: -40 to +85°C
- IP Rating: IP67 (excluding air vent in screw hole, which can be sealed when installed)
- 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-ANT3B-CHO-L1256-SMATNC-00.STEP">https://www.ardusimple.com/wp-content/uploads/3D_CAD/AS-ANT3B-CHO-L1256-SMATNC-00.STEP</a>

3D Choke Ring 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.