



MULTI-FREQUENCY, MULTI-GNSS UAV ANTENNA



The multi-GNSS, multi-frequency HA32 is a high-performance UAV GNSS antenna designed to receive GPS, BeiDou, GLONASS, Galileo, QZSS, SBAS, and Atlas L-band signals. The antenna, with its small form-factor, is designed specifically for UAV, GIS, and RTK applications. The HA32 is built on a proprietary 4-helix technology that provides superior filtering and anti-jamming performance. The antenna is equipped with an O-ring and three mounting screws for easy installation and offers an IP67 enclosure rating.

GNSS Sensor

Signals Received: GPS L1/L2, BeiDou B1/B2, GLONASS G1/G2, Galileo E1/E5b, QZSS L1/L2, SBAS, Atlas L-band

GNSS Frequency: 1200 - 1250 MHz, 1539 - 1609 MHz

Polarization: Right hand circular

Axial Ratio: 1 dBn max @ Axis

Passive Peak

Gain: 3 dBn, typical

LNA Gain: 30 dBn, typical

LNA Noise: 2.0 dBn, typical

Out-of-Band Rejection: >50 dBc @ $f_0 \pm 200$ MHz

Power

Input Voltage: 3.3 to 6 VDC

Input Current: 25 mA, typical

Phase Center Variation

Less than 5 mm at GPS L1/L2 for elevations above 30 degrees

Mechanical

Dimensions: 7.5 H x 4.1 D (cm)

Weight: .04 kg (.09 lbs)

Mount: .45 mm thread pitch

6 mm maximum thread length

RF Connector: SMA plug connector

Environmental

Storage

Temperature: -40° C to +85° C (-40°F to +185°F)

Operating

Temperature: -40° C to +70° C (-40°F to +158°F)

Enclosure Rating: IP67

Shock:

RTCA-DO-160G Section 7, Helicopter-Type

Vibration:

RTCA-DO-160G Section 8, Helicopter-Type

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