



# MULTI-FREQUENCY, MULTI-GNSS UAV ANTENNA



#### 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 @ f0±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

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.

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