Hemisphere®

HA32 UAV GNSS Antenna

MULTI-FREQUENCY, MULTI-GNSS UAV ANTENNA

atlas®

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 @ 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

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