



MULTI-FREQUENCY, MULTI-GNSS ANTENNA



The A46 GNSS antenna is designed to support millimeter-level accuracy for machine control applications. The A46 offers support for GPS, GLONASS, BeiDou, Galileo, and QZSS GNSS signals. A46 is a multi-GNSS precision antenna and is ideal for various applications including RTK positioning and navigation, precise guidance, and machine control. Use the A46 antenna in challenging environments (such as near buildings and foliage) for superior multipath mitigation, stable phase center, and strong SNR's, even at low elevations. The ruggedized housing is made of an aluminum base that has been pretreated for demanding machine control environments. The antenna easily passes the two-meter pole drop test.

GNSS Sensor

Signals Received: GPS L1/L2/L5, GLONASS G1/G2, BeiDou B1/B2/B3, SBAS, L-band, Galileo E1/E5a and b, and QZSS

GNSS Frequency: 1.165 to 1.278 GHz
1.525 to 1.615 GHz

LNA Gain: 30 dBn

LNA Noise: 2.0 dB, typical

L-Band Sensor

L-Band

Frequency: 1.525 - 1.585 GHz operation

L-Band LNA Gain: 30 dB

Power

Input Voltage: 3.3 to 15 VDC

Input Current: 25 mA, typical

Mechanical

Enclosure: Aluminum base with Lexan™ plastic cap

Dimensions: 4.7 H x 15.2 D (cm)

1.8 H x 6.0 D (in)

Weight: .50 kg (1.1 lbs)

Mount: 5/8 inch female thread

RF Connector: N-Type (straight)

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: IP69K

Shock/Vibration: EP455

Phase Center

Variation: Less than 2 mm at GPS L1, for elevations above 15 degrees

Hemisphere GNSS

8515 E. Anderson Drive
Scottsdale, AZ 85255, USA

Phone: +1 (480) 348-6380

Toll-Free: +1 (855) 203-1770

Fax: +1 (480) 270-5070

precision@hgns.com
www.hgns.com