



AT312

Geodetic GNSS Antenna

The AT312 is a versatile geodetic GNSS antenna designed to match the requirements of any land surveying, construction and engineering applications. With advanced filtering and robust signal tracking capabilities, the AT312 provides survey-grade GNSS signal to enhance your position accuracy performances.

Key Features

Multi-constellation Tracking

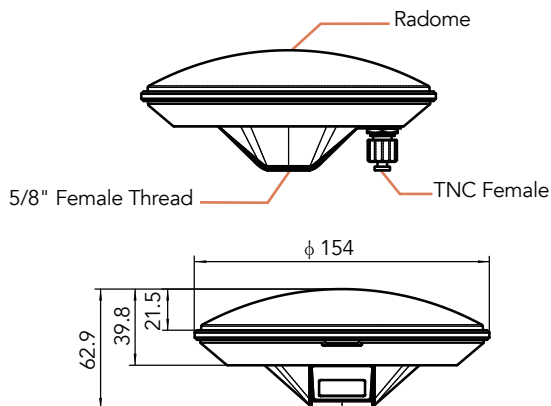
The AT312 supports all current and upcoming GNSS signals including GPS, GLONASS, BeiDou, Galileo, QZSS, IRNSS, SBAS and L-Band.

Advanced Multipath Mitigation

The AT312 advanced LNA and optimized ground plane technology significantly reduces multipaths' impact on the measurement accuracy.

Superior Performance

The IP67 industrial design of the AT312 makes it safe to use in harsh conditions within wide operating temperature range. The AT312 features 40-dB signal gain and a low elevation GNSS signal tracking capability even in challenging surroundings.



Specifications

Signal Tracking ⁽¹⁾	
GPS	L1, L2, L5
GLONASS	L1, L2, L3
BeiDou	B1, B2, B3
Galileo	E1, E5A, E5B, E6
QZSS	L1, L2, L5
IRNSS	L5
SBAS	L1, L5
L-Band	
Performance	
Polarization	RHCP
Axial Ratio	≤ 2 dB
Nominal Impedance	50 Ohm
VSWR	≤ 1.5
Gain at Zenith (90°)	1164-1300 MHz: 5.5 dBi (minimum) 1520-1615 MHz: 5 dBi (minimum)
Phase Center Accuracy	± 2 mm
LNA Gain	40 ± 2 dB
Noise Figure	≤ 2.0 dB
Passband Ripple	± 1 dB
Input Voltage	3.3~12V DC
Input Current	≤ 55 mA
Differential Propagation Delay	≤ 5 ns
Mechanical	
Dimensions	154 mm x 63 mm (6.1 in x 2.5 in)
Weight	≤ 450 g (15.9 oz)
Connector	TNC Female
Mounting	5/8" - 11 Female Thread
Environmental	
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Humidity	95% non-condensing
Vibration	MIL-STD-810 G, 514.7
Calibration	NGS
Water/Dust Rating	IP67 waterproof and dustproof
Drop Test	Survive a 2m (6.56ft) drop onto concrete

*Specifications are subject to change without notice.

© 2019 Shanghai Huace Navigation Technology Ltd. All rights reserved. The CHC and CHC logo are trademarks of Shanghai Huace Navigation Technology Limited. All other trademarks are the property of their respective owners.

– Revision June 2019

Shanghai Huace Navigation Technology Ltd.

599 Gaojing Road, Building D
Shanghai, 201702, China

+86 21 54260273 WWW.CHCNAV.COM

