

A45™ Antenna

key features

The A45™ GNSS Antenna has been designed to support millimeter accuracy on land and marine applications. The A45 GNSS antenna offers support for present and future GNSS signals, including GPS, GLONASS, BeiDou, and Galileo. A45 is a multi-GNSS precision antenna and is ideal for various applications including surveys, RTK positioning and navigation, precise guidance, and machine control. Use the A45 antenna in challenging environments (such as near buildings and foliage) as it has superior multipath mitigation, stable phase center, and strong SNR's, even at low elevations. The ruggedized housing utilized by both antennas is made of an aluminum base that has been pretreated for the marine environment and will withstand salt, fog, and spray. The antenna easily passes the two-meter pole drop test.



Multi - GNSS Antenna

GNSS Sensor

GNSS Reception:	GPS L1/L2/L5, GLONASS G1/G2, BeiDou B1/B2/B3, SBAS, L-band and Galileo E1/E5a and b
GNSS Frequency:	1.165 to 1.278 GHz
LNA Gain:	30 dB
LNA Noise:	2.0 dB, typical

L-Band Sensor

L-Band Frequency:	1.165 to 1.278 GHz 1.525 - 1.585 GHz
L-Band LNA Gain:	30 dB

Power Input

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:	TNC (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 and Vibration:	EP455

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



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