Hemisphere®

A65 Antenna







The A65 GNSS antenna is engineered to deliver millimeter level accuracy for both land and marine applications. It supports current and future GNSS signals, including GPS, GLONASS, BeiDou, and Galileo, ensuring long-term reliability.

As a multi-GNSS precision antenna, the A65 is ideal for surveys, RTK positioning and navigation, precise guidance, and machine control. Designed for challenging environments-such as near buildings and foliage-the A65 provides superior multipath mitigation, a stable phase center, and strong signal-to-noise ratios (SNR), even at low elevations. Built for durability, the ruggedized housing features an aluminum base designed to withstand salt, fog, and spray in marine environments. The antenna exceeds durability standards, passing the two-meter pole drop test with ease.

GNSS Receiver Specifications

Receiver Type:	GNSS Sensor
Signals Received:	GPS L1/L2/L5, GLONASS G1/G2, BeiDou B1/B2/B3, SBAS, L-band, and Galileo E1/E5a/E5b/E6
GNSS Frequency:	1.164 to 1.300 GHz 1.539 to 1.606 GHz
LNA Gain:	30 dBn
LNA Noise:	2.5 dB, typical

L-Band Sensor

L-Band Frequency:	1.539 - 1.559 GHz operation
L-Band LNA Gain:	30 dB

Power

Input Voltage:	2.5 to 15 VDC
Input Current:	17 mA, typical

Mechanical

Enclosure:	Aluminum base with Lexan™ plastic cap
Dimensions:	4.1 H x 15.7 D (cm) 1.6 H x 6.2 D (in)
Weight:	0.40 kg (0.88 lbs)
Mount:	5/8 inch female thread
RF Connector:	TNC (straight)

Environmental

Storage Temperature:	-40° C to +95° C (-40°F to +203°F)
Operating Temperature:	-40° C to +85° C (-40°F to +185°F)
Enclosure Rating:	IP69K
Shock/Vibration:	EP455