

V560 Marine Antenna

Multi-frequency GNSS, L-band and MF combined antenna, with Inmarsat rejection filter for marine applications.

Multi-constellation GNSS reception for maximum performance

The V560 marine antenna receives all GNSS constellations and frequencies, providing increased flexibility for the user. Enhanced Inmarsat interference rejection technology allows for robust GNSS signal tracking in the presence of high-powered Inmarsat transmitters often found on marine vessels.

Reception of correction services from multiple sources

The V560 also supports L-band from 1525 to 1560 MHz which supports all VERIPOS correction services, including differential and Precise Point Positioning (PPP), providing robust and reliable positioning. Additionally, the antenna can receive corrections broadcast via the Marine Radio Beacon network (285 - 323 MHz), removing the need for a separate antenna.

Durable, future-proof design made for harsh marine environments

This rugged antenna is enclosed in durable, waterproof housing and meets IEC60945 specifications for marine applications. Meeting the European Union's directive for Restriction of Hazardous Substances (RoHS) and capable of tracking all GNSS signals, users can be confident in using the V560 Marine antenna in system designs for years to come.



V560 Marine Antenna

Benefits:

- Multi-frequency and multi-constellation antenna to allow reception of all available GNSS signals required for robust positioning
- Reception of corrections from Marine Radio Beacon network, removing the need for a separate antenna
- High-quality measurements for precision applications
- GNSS and L-band reception, even in the presence of Inmarsat interference
- Marine-certified antenna for use in all marine applications

Features:

- GPS+GLONASS+Beidou+Galileo+QZSS signal reception
- Multi-frequency GNSS signal tracking
- VERIPOS correction service L-band reception
- MSK Beacon (MF) signal reception
- Increased Inmarsat Rejection
- Excellent Multipath Rejection

Frequency

Passbands

Upper Band	1525 - 1610 MHz
Lower Band	1160 - 1290 MHz
MSK Beacon (MF)	285 - 323 MHz
Inmarsat Rejection Filter	

Satellite Signals

GPS	L1 C/A, L1C, L2C, L2P, L5
GLONASS	L1 C/A, L2 C/A, L2P, L3, L5
BeiDou	B1I, B1C, B2I, B2a, B3I
Galileo	E1, E5 AltBOC, E5a, E5b, E6
SBAS	L1, L5
QZSS	L1 C/A, L1C, L2C, L5, L6

Specification

Polarization Right Hand Circular (RHP)

Axial Ratio 3dB Max @ Boresight

Radiation Coverage

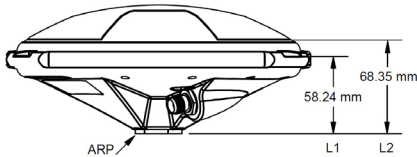
6.0 dBic	0° = 0°
-2.0 dBic	0° < θ < 75°
-3.0 dBic	75° ≤ θ < 80°
-4.0 dBic	80° ≤ θ < 85°
-5.0 dBic	HORIZON

Low-Noise Amplifier (LNA)

Gain	45 dB (±2 dB)
Noise Figure	2.6 dB (Max)
Impedance	50 Ω
Voltage Standing Wave Ratio	≤ 2.0 : 1

Antenna Phase Centre

L1 North -0.34 mm East -0.53 mm Up 58.24 mm
 L2 North 0.11mm East -0.76 mm Up 68.35 mm



Physical and electrical

Dimensions

7.50 in (19.05 cm) x 3.17 in (8.05 cm)

Weight

730 g

LNA DC Voltage Input

Input voltage +3 to +15 VDC
 Power consumption 105 mA

Enclosure Material

Weatherable Polymer
 Plastic

RF Input Connector

TNC Female

Antenna Mounting

5/8in-11 UNC-2B Adapter

Environmental Temperature

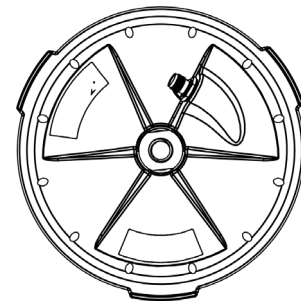
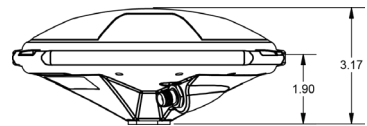
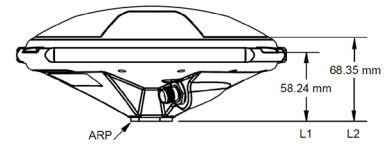
Operating -40°C to +70°C
 Storage -50°C to +85°C

IP Rating

IP67

Compliance

CE
 FCC
 RoHS3
 UKCA
 WEEE
 EN 60945 (Exposed Equipment)



Contact Hexagon | VERIPOS

sales.ver.ap@hexagon.com +44 1224 965800
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