



TRIPLE-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. The V560 antenna provides enhanced Inmarsat interference rejection, which allows tracking of GNSS signals in the presence of high powered Inmarsat transmitters which can be 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 is capable of receiving 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 a durable, waterproof housing and meets IEC60945 specification 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 the V560 Marine antenna can be used in system designs for years to come.

BENEFITS

- Multi-Frequency and Multi-Constellation antenna to allow reception of all available GNSS signals required for robust positioning
- Reception of correction from Marine Radio Beacon network removing the need for 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
- Triple-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, L2, L5
GLONASS	L1, L2, L3
Galileo	E1, E5, E5a/b, E6
BeiDou	B1, B2, B3
QZSS	L1, L2, LEX

SPECIFICATION

Polarization Right Hand Circular (RHP)

Axial Ratio 3dB Max @ Boresight

Radiation Coverage

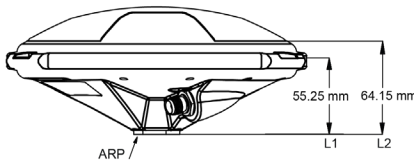
6.0 dBic	0° = 0°
-2.0 dBic	0° < θ < 75°
-3.0 dBic	75° ≤ θ < 80°
-4.0 dBic	80° ≤ θ < 85°
-5.0 dBic	HORIZON

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 2.78 mm	East 1.27 mm	Up 55.25 mm
L2	North 0.82 mm	East 1.09 mm	Up 64.15 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 Ploymer Plastic

RF Input Connector TNC Female

Antenna Mounting 5/8in-11 UNC-2B Adapter

ENVIRONMENTAL

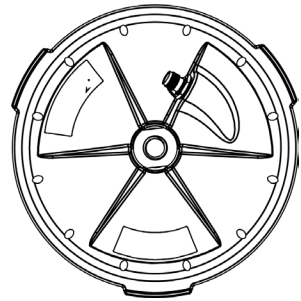
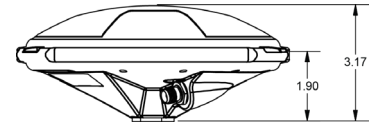
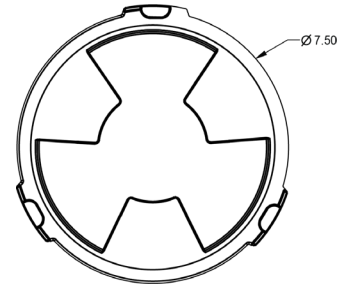
Temperature

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

IP Rating IP67

COMPLIANCE

- CE
- FCC
- RoHS3
- WEEE
- EN 60945 (Exposed Equipment)



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 VERIPOS is a global technology leader, pioneering end-to-end solutions for assured positioning for the offshore marine oil and gas industry. VERIPOS is part of Hexagon's Positioning Intelligence division. Learn more at veripos.com

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