

## Highly precise active GNSS antenna, GL-111



### Description

- The **GL-111** antenna is suitable for land surveying and supports GPS, GLONASS, Galileo and Beidou systems
- Das Polycarbonate housing is IP67 waterproof and weatherproof
- The TNC-Plug as well as the 1" internal thread fit together perfectly with the typical marine bracket and broaden the range of the **GL-111**-Applications.
- TNC-Plug available **either** sideways (how it's depicted in the pictures and drawings) or concentric.
- The Multi-frequency design allows a fast initialization because of the high amount of available satellites
- Excellent Multipath reduction.
- The (optional) stainless steel mast bracket allows the sealing of the cables and protects them from environmental damage.

## Specifications

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<b>Physical Properties</b>	Dimensions	11,5 cm diameter x 7,4 cm height
	Weight	279 g
<b>Patch Antenna</b>	GNSS Frequency	1559 bis 1610 MHz
	GNSS Reception	GPS L1, GLONASS G1, BeiDou B1, Galileo E1, SBAS, und L-band
	Polarization	R.H.C.P. (Right Hand Circular Polarization)
	Absolute reinforcement at Zenith	(+4) dBic typical A8
	Axial Ratio	3,0 dB typical
	Exit VSWR	1,5 dB typical
	Bandwidth @ ReturnLoss $\leq -10$ dB	$\geq 51$ MHz
<b>LNA (Low noise Amplifier)</b>	Frequency	1,559 bis 1,610GHz
	LNA Gain	31 dB typical
	Noise level	2,4 dB Max.
	Supply voltage	3 ~ 5 V DC
	Electricity consumption	6,9 mA typical
	Exit VSWR	2,0 Max.
	Output Impedance	50 ohm
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	VSWR	2,0 Max.
	<b>Cables and Plugs</b>	Cable suggestion
Connection		TNC (Straight, Female) Side or Center
Assembly		1"-14 tpi Internal thread
Case		PC(2807)+ PBT(B4520) UL
<b>Environmental Conditions</b>	Operating Temperature	(-40°)C ~ +85°C
	Storage Temperature	(-40°)C ~ +85°C
	Relative humidity	(+40)±2 oC, 90 ~ 95%R.H B28
	Protection	IP67

### Ordering Details

Part number antenna (TNC center):

**GL-111**

Part Number Antenna (TNC Sideways):

**GL-111-SIDE**

Part Number Stainless Stand:

**STANDMON**

# Datasheet GL-111

## Technical Drawing

