

## Active marine GPS Antenna, GA-88P



### Description:

The GA-88P is an external, active GPS L1 antenna with high yield and low electricity consumption, fitting for many GPS receiver. It's made of a high-performance patch antenna connected with a preamplifier, cased in a marine case, made for applications near water. The current for the preamplifier comes from the receiver through the RF line and should yield 2,5V to 5,5V.

- Robust construction
- IP69 weatherproof for marine uses
- Rod mounting; Stand included
- Excellent temperature stability
- Low noise level

### Application

- Marine GPS
- AVL
- Fleet management systems
- Vehicle navigation
- Surveillance systems

## Specifications

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<b>Mechanical</b>	Construction	Polycarbonate above; Rubber seal between
	Dimensions	80mm diameter x 72mm Height
<b>Cable/Plug</b>	RF Cable	RG174/U 5m standard, TNC(m) optional other lengths/Plugs
	Drawing power	12Kg / 5sec
	Available plugs	Optional BNC, TNC, FME, MCX, OSX, SMA, SMB, SMC Straight or 90°
<b>Antenna element</b>	Medium Frequency	1575,42 MHz +/- 1,023 MHz
	Polarization	RHCP (Right Hand Circular Polarisation)
	Absolute yield in Zenit	5 dBi typical
	Yield at 10° hight	(-1) dBi typical
	Axial ratio	3 dB max
	Output Impedance	50 ohm
<b>Low Noise Amplifier(LNA)</b>	Medium Frequency	1575,42 MHz +/- 1,023 MHz
	Yield	LNA 28 dB +/-4,5 dB typical
	Bandwidth	2 MHz minimum
	Noise level	1,5 maximum
	Belt damping	20 dB min. @F0 +/- 50 MHz
	Supply voltage	2,5 ~ 5,5 VDC
	Electricity consumption	13 mA 3VDC, 18mA@ 5VDC
	Output Impedance	50 ohm
<b>Overall Performance (Antenna element + LNA + Kabel)</b>	Medium Frequency	1575,42 MHz +/- 1,023 MHz
	Yield	30 dB +/- 4,5 dB typical
	Bandwidth	2 MHz min
	Noise level	2,0 max
	VSWR	1,5 max
	Axial ratio	3 dB max
	Output Impedance	50 ohm
<b>Environmental Conditions</b>	Operating temperature	(-30)°C ~ +80°C
	Storage temperature	(-40)°C ~ +100°C
	Relative Humidity	95% not condensing
	Watertightness	IP69 Waterproof