



# GPS Antenna

## MODEL: GA-88

GPS Marine Antenna with DC 2.5~5.5V Input Voltage



- Full waterproof
- Low noise amplifier
- Voltage: 2.5 ~5.5 V DC
- Storage temperature:  
-40°C to +100°C
- High performance GPS patch antenna

**GA-88** is designed for the Marine Vessels mast or tall buildings that require long extra cables without signal constraint to the GPS receivers. It is the integration of the high performance GPS patch antenna and a low noise amplifier into an extremely fully waterproof enclosure and when connected to a GPS receiver with 2.5~5.5VDC antenna power, it can provide excellent antenna signal amplification and out-band filtering with rejection for that receiver at 3V DC or 5V DC input Voltage.

### SPECIFICATIONS:

Specification	
<b>Antenna Element</b>	
Center Frequency	1575.42 MHz +/-1.023 MHz
Polarization	R.H.C.P. (Right Handed Circular Polarization)
Absolute Gain @ Zenith	+5 dBi typical
Gain @ 10° Elevation	-1 dBi typical
Axial Ratio	3 dB max
Output VSWR	1.5:1 max
Output Impedance	50 ohm



<b>Low Noise Amplifier</b>	
Center Frequency	1575.42 MHz +/- 1.023 MHz
Power Gain	28 +/-4.5dB
Bandwidth	2 MHz min
Noise Figure	1.5 max
Outer Band Attenuation	20 dB min. @ Fo +/-50 MHz
Supply Voltages	2.5 to 5.5V DC
Current Consumption	13mA@ 3.0V DC,18mA@ 5.0V DC
VSWR	1.5 max
Output Impedance	50 ohm
<b>Overall Performance: (antenna element, LNA &amp; coax cable)</b>	
Center Frequency	1575.42 MHz
Gain	30 +/-4.5dB
Noise Figure	2.0 max
Bandwidth	2 MHz min
Axial Ratio	3 dB max
VSWR	1.5 max
Output Impedance	50 ohm
<b>Environmental Conditions</b>	
Operating Temperature	-30°C to +80°C
Storage Temperature	-40°C to +100°C
Relative Humidity	40% to 95% non-condensing
Water Resistance	100% waterproof
<b>Physical Constructions</b>	
Constructions	Enclosure Center feeds TNC connector for antenna output
Dimensions	3.15" in diameter & 2.33" in height
Weight	110 grams (without cable)
Standard Mounting	External flagpole mount, an optional accessory kit
Optional mounting plate	1. Cabin roof-mount with stainless steel base & shaft
	2. Rail side mount with stainless rod
<b>Cable &amp; Connector</b>	
RF	10 meter RG58 A/U connectors are hermetically molded plastics for waterproof and stain relief
Cable Pulling strength	12Kg for 5sec
Connector available	BNC (standard), other types (optional)

(This specification is subject to change without prior notice)