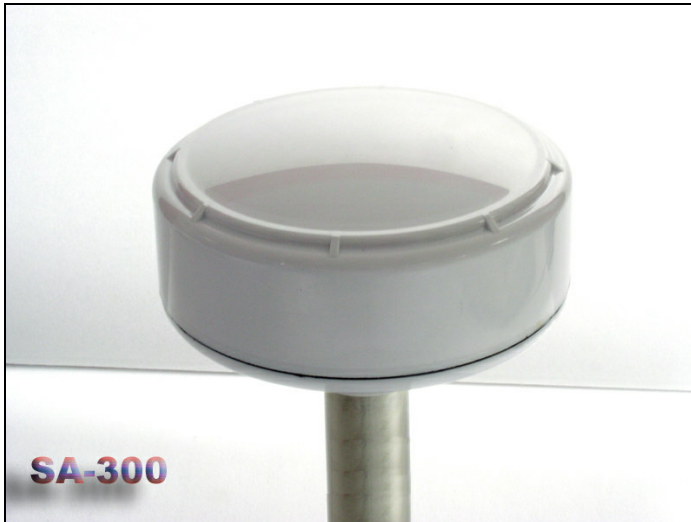


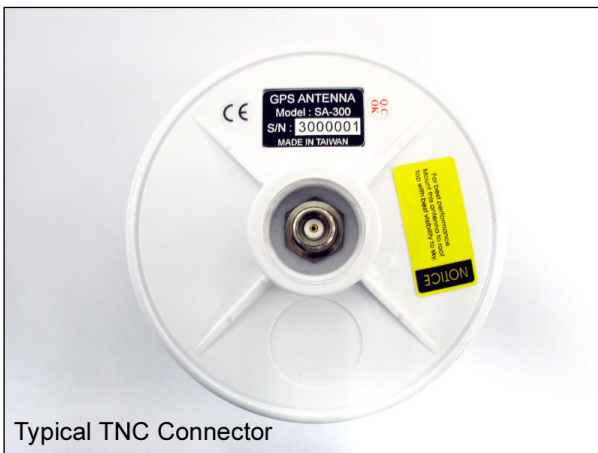
GPS Antenna for Timing & Stationary Application

Model SA-300



Combining the most innovative concept with precision manufacture, we release this latest GPS antenna—SA-300.

With the compact polycarbonate radome enclosure and the waterproof/weatherproof physical construction, SA-300 is deliberately designed for both navigators and researchers who often need to use GPS in harsh environments, such as strong shock or vibration, fierce wind, and even continuous exposure to water and sunlight.



Additionally, SA-300's stainless pole mount not only enables antenna to receive GPS signals steadfastly, but also enables the cable to be threaded, protecting itself from environmental damage. Both of the industrial standard TNC connector & 1"-14 straight thread perfectly fit the typical marine mount, enhancing

the multifunction and application for SA-300. Furthermore, through the inventive integration of dual amplifiers & dual filters (saw filter + bandpass filter),

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SA-300 provides excellent resistance to RF signal interference without compromising its gain, which helps ensure stable performance even in RF signal-jamming environment.

SA-300 is an active GPS antenna with high gain of 27 dB & low current of 27mA, supporting RG-58 A/U cable as long as 50m.

Given the aforementioned features, we believe SA-300 to be your most reliable companion for timing and stationary application



Stainless Pole Mount

Please visit our website for more specifications of SA-300, surf our full line GPS products and on-line introduction with ordering information at <http://www.sanav.com>

Specification

General Description	GPS Antenna for Timing & Stationary Application
Physical Construction	Construction: Polycarbonate radome enclosure, sealed with weatherproof rubber O-ring in-between. Center fed with TNC connector for antenna output
	Antenna Dimensions: 4.5" in diameter & 2.9" in height
	Cable Length: 10 m RG58 A/U with 15-40 m optional. Cable connectors hermetically molded plastics for waterproof and stain relief
	Cable Pulling Strength: 12 kg for 5 sec.
	Connector Available: TNC (standard), other types (optional)
	Weight: 220 grams w/o cable
	Standard Mounting: External flagpole type mast mount 1"-14 threaded mast
	Optional Mounting 1. Cabin roof-mount with stainless steel base & shaft 2. Rail side mount with stainless rod
Color: White	
Antenna Characteristics	Polarization: R.H.C.P. (Right Hand Circular Polarization)
	Absolute Gain @ Zenith: +5 dBi typically
	Azimuth Coverage: 360 degrees
	Gain @ 10° Elevation: -1 dBi typically
	Azimuth Coverage: 360 degree
	Axial Ratio: 3 dB max.
Amplifier Element	Output VSWR: 1.5:1 max.
	General: L1 frequency, 1575.42 MHz +/-1.023 MHz
	LNA Gain: 30 dB typically
	Bandwidth: 2 MHz min.
	Noise Figure: 1.8 max.
	Out of Band Attenuation: 60 dB min. @ Fo +/- 50Mhz
Overall Performance	Current Consumption: 27mA +/- 3mA
	Center Frequency: 1575.42 MHz
	Gain: 27 dB typ.
	Noise Figure: 1.8 max.
	Axial Ratio: 3dB max.
	VSWR: 1.8 max.
Electrical Characteristics	Output Impedance: 50 ohm
	Supply Voltage: 4.5-5.5V DC
Environmental Characteristics	Power Consumption: 27mA @ 4.5 volts, 0.12 watts typ. <0.2 watts max.
	Operating Temperature: -30° to +85° C
	Storage Temperature: -40° to +90° C
	Operating Humidity: 95% RH, non-condensing
	Waterproof: 100% waterproof at the rating of IP66

(*PS: The specification is subject to change without prior notice)