

## proTAC 8000 series Tactical Interference proof precision GNSS antennas

*Extremely robust active antennas for GNSS (GPS, Glonass, Galileo...) navigation receivers. They utilize innovative dual quadrature feed technology with up to two stage low noise amplifiers to maximize the rejection of sub-harmonics and L-Band signals.*



### Advantages

(compared to traditional antennas)

- truly circular response over the entire antenna bandwidth
- superior rejection of multipath and cross polarized signals
- maximum filtering against interfering signals
- mechanical design attenuates signals from low elevation (horizon)

### Models

proTAC 8001 is designed specially for use with proGPS series isolated GPS signal splitters. It's DC-grounding adds protection towards EMC, static charging and lightning strikes while proGPS fully isolated DC feed ensures trouble free use even in aluminum made vessels.

proTAC 8002 is designed to easily replace existing marine GPS antennas in high interference environments. It is DC-floating design enables the use with any GPS receiver and TNC connector fits to most existing antenna cables.

A-models have high quality low noise amplifiers and bandpass filtering in addition to mechanical filtering against low elevation (near horizon) signals like marine VHF, harmonics etc.

B-models have in addition to A-model features a special two stage low noise amplifier and band pass filtering design in order to further attenuate all unwanted signals.



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Electrical Specifications (TA=25°C)		
Specification	proTAC 8001 A/B	proTAC 8002 A/B
Type	Tactical Interference proof high precision GNSS antenna	
RF Specification	Active GNSS antenna A-model: 1 stage low noise amplifier and bandpass filter B-model: 2 stage low noise amplifiers and bandpass filters	
1dB Bandwidth	A – model: 1575-1606MHz B – model: 1574-1606MHz	
LNA gain	28dB typical (+/-2dB) noise figure 1dB typical	25dB typical (+/-2dB) noise figure <3.5dB typical
Out of band rejection	A – model: < 1500MHz: > 32dB < 1550MHz: > 25dB >1640MHz: > 35dB  B – model: < 1550MHz: > 50dB >1640MHz: > 70dB	
Axial Ratio	<1.5dB @zenith	
Connector	N-female	TNC-female
Grounding	DC-grounded	DC-floating
Power supply	2.5-16VDC, 15mA	
ESD circuit protection	15kV	
Mechanical	Radome height: 75mm, width 91 mm Mounting flange width: 140 mm	
Mounting	140mm flange mount (NATO mount) with 4 xM10 holes DCD115mm  Mounting options (AISI304): 140mm flange to 1 ½" -11TPI thread (ACCANT1001) 1 ½" -11TPI to 1"-14TPI "GPS thread" (ACCANT1002) 140mm flange to 50-75mm pipe/wall mount (ACCANT1003)	
Material	Mounting flange: anodized/painted aluminum radome: ASA plastic RAL5000	
Environment	-40 to +85°C IP 68	