



Active GPS/GLONASS Marine Antenna

Model: RV-76G

WI-RD-D-038 V1.0



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Introduction:

The antenna system RV-76G is the integration of a high performance GPS/GLONASS patch antenna and a state-of-the-art low noise amplifier into a very low-profile, extremely compact and fully waterproof antenna-signal enclosure. When connected to a GPS receiver with +2.5 to 5 VDC antenna power, it provides excellent signal amplification and out band-rejection for that receiver.

Features:

- Low Noise Figure/ Fully Weatherproof/ Ultra-high Sensitivity
- Compact Construction/ Excellent Temperature Stability.

Applications:

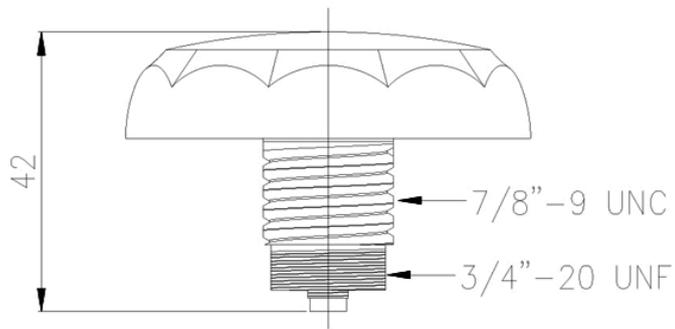
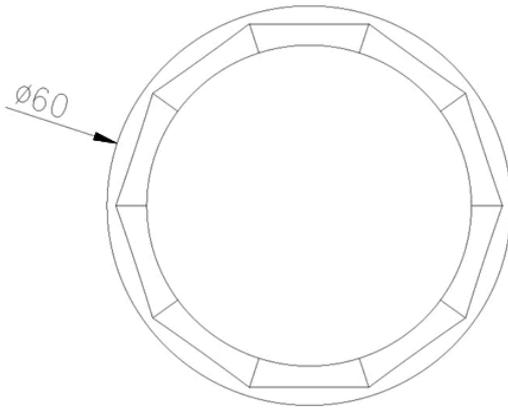
- Marine GPS/GLONASS.
- GIS / Land Surveyor / Mobile GPS/GLONASS / Fleet Management / Vehicle Tracker.

Specification:

Physical Condition	
Construction:	Polycarbonate radome detachable cable/connector for easy mount, rubber-O-rign between top radome and screw base for waterproof.
Dimension:	60 mm in diameter x 38mm in height.
Weight:	125 grams (w/o cable & connector)
Color	Standard in ivory with 0.8 inch threaded wing nut (standard accessory).
Mounting:	Bulkhead mount with 0.8 inch threaded wing nut(standard accessory)
Cable & Connector	
RF Cable:	5 meters RG174/U (standard) cable & length (optional)
Pulling Strength:	6 Kg @ 5 sec.
Connector Available:	BNC, TNC, GT5, MCX(OSX), SMA, SMB or SMC. Straight or right angle.
Optional Adapters:	Universal Connector Adapter (FME to TNC/BNC/SMA/SMB/MCX)
Antenna Element	
Polarization:	R.H.C.P. (Right Hand Circular Polarization)
Gain at Zenith:	+1.5 dBic typical Mounted on the 70mm x 70mm square ground plane
Axial Ratio:	3 dB max. Mounted on the 70mm x 70mm square ground plane
Low Noise Amplifier	
Gain:	27 dB @ 3V typically
Band Width:	43 MHz min. @ S11≤-10 dB
Noise Figure:	1.5 Typical.
Supply Voltage:	2.5~5V DC
Current Consumption:	3V DC : 10.6 mA Typical 5.0V DC : 21 mA Typical
OVERALL PERFORMANCE (Antenna Element, LNA & Cable)	
Center Frequency:	1575.42 MHz \pm 10 MHz & 1602 \pm 8 MHz
Gain:	At 90° 27 \pm 3dB (Cable loss) note: 1. Mounted on the 70mm x 70mm square ground plane
VSWR:	2.0 max.
Output Impedance:	50 ohm
Environmental conditions	
Operating Temperature:	-40°C ~ +85°C
Storage Temperature:	-40°C ~ +90°C
Relative Humidity:	95% non-condensing

Note: 1: Cable loss-(-1.2dB/m)

Mechanical Diagram:



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