



## Active GPS Antenna

### MODEL: RV-76

GPS antenna featuring high gain & low power consumption, coming with cutting-edge low-noise amplifier and anti-theft locking nut



**The RV-76** is the integration of a high performance GPS 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 +5.5 VDC antenna power, it provides excellent signal amplification and out-band-rejection for that receiver.

The small size and ruggedness of this antenna is a prerequisite for an antenna in the high demand of vehicle locating and car navigation GPS antenna that will sustain harsh environment.

Last but not least, the design of a double lock (or an anti-theft locking nut) provides sound security for the product.

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

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## SPECIFICATIONS

Physical Constructions:	
Constructions:	Polycarbonate radome, detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof
Dimensions:	60mm in diameter x 38mm in height (excluding the thread)
Weight:	125grams (w/o cable & connector).
Color:	Standard in ivory white, other colours available upon request.

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Mounting:	Bulkhead mount with 0.8 inch threaded wing nut( standard accessory ).
<b>Cable &amp; Connector:</b>	
RF cable: 5	5 meter RG174/U (standard) other length (optional)
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector available:	BNC,TNC,GT5,MCX(OSX),SMA,SMB or SMC. Straight or right angle.
Optional:	Universal Connector Adapter (FME to TNC/BNC/SMA/SMB/MCX)
<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 @ 10o Elevation:	-1 dBi typical.
Axial Ratio:	3 dB max.
Output VSWR:	1.5:1 max.
Output Impedance:	50 Ω
<b>Low Noise Amplifier:</b>	
Center Frequency:	1575.42 Mhz +/- 1.023 Mhz
Power Gain:	30 dB typically
Bandwidth:	2 MHz min.
Noise Figure:	1.8 min.
Outer Band Attenuation:	20 db min. @ Fo +/- 50 Mhz
Supply Voltages:	+2.5 ~ 5.5V DC
Current Consumption:	12mA +/- 2mA
VSWR:	2.0max
Output Impedance:	50 Ω
<b>Overall Performance: (antenna element, LNA &amp; coax cable)</b>	
Center Frequency: 1575	1575.42 Mhz.
Gain:	26 dB min.
Noise Figure:	2.0 dB max.
Axial Ratio:	3 dB max.
Bandwidth:	2MHz min.
VSWR:	2.0 max.
Output Impedance:	50Ω
<b>Enviromental Condition:</b>	
Operating Temperature:	-40°C~ +85°C.
Storage Temperature:	-40°C~ +85°C.
Relative Humidity:	95% non-condensing.
Water Resistance:	100% waterproof.

This specification is subject to change without prior notice...

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