



IW-1575  
On-Window  
GPS Only



SM-1575  
Surface/Hole Mount  
GPS Only

## GPS Antennas (Patented)

Hole Mount & Glass Mount, GPS only

- High performance with 26 dB active GPS gain
- Dual 3.3/5 V with low current (10 ma typical)
- Hole Mount version supplied with sealing gasket and nut
- Window Mount version uses 3M VHB double sided tape

These GPS antennas offer an alternative and secure installation to traditional mag mount. With proper positioning in or on a vehicle, they can even provide enhanced performance

GPS performance is 26 dB, with 5 dBi antenna gain. The GPS circuitry has a low 2.0 dB max noise figure with excellent filter characteristics. Power (3.3 or 5 VDC) and signal is applied through the same cabling directly to the GPS antenna.

The IW-1575 Glass Mount GPS antenna places the GPS element directly against the glass of the vehicle, oriented up towards the satellites. The cable exits near the top side allowing direct entry into a vehicle headliner. The IW-1575 is designed to be mounted to the interior only. This model can be used for other mounting applications, such as hidden for covert use.

The SM-1575 hole mount antenna uses a 5/8" feed thru (16 mm) for securing to the vehicle. Access to the underside of the body surface is required to complete the

installation. The antennas are enclosed in a weatherproof polycarbonate radome, and supplied with all hardware and sealing gasket. The SM-1575 radome is 2.5" in diameter (64 mm) and very low profile. The radomes are white, but can be special ordered in black or grey.

Both the IW-1575 and the SM-1575 antennas are outfitted with 15 feet (4.5 meters) of RG-174 cable. Typical connectors are SMB or SMA. Other connectors can be provided upon request, please consult factory for details.

### Model Numbers

Model	Description
SM-1575	Surface mount GPS with amplifier
IW-1575	On-Window GPS with amplifier

Please specify GPS at time of order. All models are dual voltage 3.3/5 VDC. Consult factory for other configurations.

### Specifications

<b>Frequency:</b>	1575.42 +/- 2 MHz
<b>GPS Gain:</b>	26 dB Amplifier, 5 dBic Antenna
<b>VSWR:</b>	2:1 max over range
<b>Noise Figure:</b>	2.0 dB max, 1.7 dB typical
<b>Operating Temp:</b>	-40° to +85° C
<b>Nominal Impedance:</b>	50 ohms
<b>Amplifier Bias:</b>	Dual 3.3/5 VDC +/- 10%
<b>Current:</b>	20 mA max, 10 mA typical
<b>Cable:</b>	15 ft (4.5 meters) RG-174
<b>IW-1575 Case:</b>	ABS 1 5/8"H x1 5/8" W x 7/8"D (41 mm x 41 mm x 22mm)

<b>IW-1575 Mounting:</b>	Double sided 3M VHB tape
<b>Cable Attachment:</b>	Integral to box, top side exit
<b>IW -1575 Connector:</b>	Specify at time of order

<b>SM-1575 Case:</b>	White Polycarbonate (standard) black optional
<b>SM-1575 Size:</b>	2.5" dia. x .75" H (64 mm x 19 mm)
<b>Stud Mounting:</b>	5/8" diameter, 3/4" long shaft (16 mm dia, 19 mm long)
<b>Hardware:</b>	Nut, lockwasher and gasket included