



IW-1575  
On-Window  
GPS Only



SM-1575  
Surface/Hole Mount  
GPS Only

## GPS-only Surface Mount & Glass Mount

- High performance with 26 dB active GPS gain
- 2.7 to 5 VDC 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 (2.7 to 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 ASA 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 connector is SMA Plug (Male). 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

Standard connector is a SMA Plug (Male), other options available. Consult your sales representative for other configurations.

### Specifications

<b>Frequency:</b>	1575.42 +/- 2 MHz	<b>Connector:</b>	SMA Plug (Male)
<b>GPS Gain:</b>	26 dB LNA	<b>SM-1575 Case:</b>	White ASA (standard) black optional
<b>VSWR:</b>	5 dBi nominal RHCP Antenna	<b>SM-1575 Size:</b>	2.5" dia. x .75" H (64 mm x 19 mm)
<b>Noise Figure:</b>	2:1 max over range	<b>Stud Mounting:</b>	5/8" diameter, 3/4" long shaft (16 mm dia, 19 mm long)
<b>Operating Temp:</b>	2.0 dB max, 1.7 dB typical	<b>Hardware:</b>	Nut, lockwasher and gasket included
<b>Nominal Impedance:</b>	-40° to +85° C	<b>Shock &amp; Vibration:</b>	
<b>Amplifier Bias:</b>	50 ohms	SM-1575	EN 61373, IEEE 1478, Mil-810G TIA-329.2-C
<b>Current:</b>	2.7 to 5 VDC	<b>Water Ingress:</b>	
<b>Cable:</b>	20 mA max, 10 mA typical	SM-1575	IPx5
<b>IW-1575 Case:</b>	15 ft (4.5 meters) RG-174		
<b>IW-1575 Mounting:</b>	ABS 1 5/8"H x1 5/8" W x 7/8"D (41 mm x 41 mm x 22mm)		
<b>Cable Attachment:</b>	Double sided 3M VHB tape		
	Integral to box, top side exit		