



SM & SMG Series  
 Surface/Hole Mount



IW & IWG Series On-Window

## GPS and GPS/GLONASS Surface & Glass Mount

- Choice of GPS-only or combined GPS & GLONASS
- 2.7 to 5 VDC with low current (10 ma typical)
- Window Mount version uses VHB double sided tape

These GPS-only or combined GPS/Glonass antennas offer an alternative and secure installation to a traditional mag mount. With proper positioning in or on a vehicle, they enhance the performance of the receiver.

Antenna performance is 26 dB, with 5 dBi antenna gain for both the GPS-only and the combined GPS/Glonass antennas. The antenna 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 antenna.

The IW (GPS-only) and IWG (GPS & Glonass) Glass Mount antenna places the antenna 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 antenna is designed to be mounted on the interior of the window only.

The SM (GPS-only) and SMG (GPS & Glonass) Surface Mount

antenna uses a 5/8" feed thru (1.6 cm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation. These antennas are enclosed in a weatherproof ASA radome measuring 2.5" (6.4 cm) in diameter.

Model #	Description
SM-1575-2C-WHT-180	Surface mount GPS
SMG-1575-2C-WHT-180	Surface mount GPS & Glonass
IW-1575-2C-BLK-180	On-Window GPS
IWG-1575-2C-BLK-180	On-Window GPS & Glonass

Color Options  
 SM Series: WHT - white or BLK - black  
 IW Series: BLK - black only

Standard connector is a SMA Plug (Male)

### Specifications

Frequency:		SM & SMG	
GPS	1575 MHz	Case:	White or black ASA
GLONASS	1602 MHz	Size:	2.5" dia. x .75" H (6.4 cm x 1.9 cm)
GNSS	1561 MHz	Mounting:	5/8" diameter, 3/4" long shaft (1.6 cm dia, 1.9 cm long)
Gain:	26 dB LNA 5 dBi nominal RHCP Antenna	Hardware:	Nut, lockwasher and gasket included
VSWR:	2:1 max over range	Cable:	15 ft (4.5 m) RG-174
Nominal Impedance:	50 Ohm	Connector:	SMA Plug (Male)
Noise Figure:	2.0 dB max, 1.7 dB typical	Operating Temp:	-40° to +80° C
Amplifier Bias:	2.7 to 5 VDC	SM & SMG	
Current:	20 mA max, 10 mA typical	Shock & Vibration:	EN 61373, IEEE 1478, Mil-801-G, TIA-329.2-C
IW & IWG		Water Ingress:	IPx5
Case:	Black ABS		
Size	1 5/8" H x 1 5/8" W x 7/8" D (4.1 cm x 4.1 cm x 2.2cm)		
Mounting:	Double sided 3M VHB tape		