



SM1575
Surface/Hole Mount GPS Only



IW-1575 On-Window 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 a traditional mag mount. With proper positioning in or on a vehicle, they enhance the performance of the GPS modem.

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 on the interior of the window only.

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 SM-1575 radomes are available in white or black.

| Model # | Description |
|--------------------------------------------------------------------------|-------------------|
| SM-1575-2C-WHT-180 | Surface mount GPS |
| <u>Color options available for the SM-1575</u> WHT-White or BLK-Black | |
| IW-1575-2C-BLK-180 | On-Window GPS |
| <u>Color Option available for the IW-1575</u> Black Only | |
| Standard connector is a SMA Plug (Male), other configurations available. | |

Specifications

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|--------------------|----------------------------------------------------------|--------------------|-----------------------------------------------------------|
| Frequency: | 1575.42 +/- 2 MHz | SM-1575 Case: | White or black ASA |
| GPS Gain: | 26 dB LNA 5 dBi nominal RHCP Antenna | SM-1575 Size: | 2.5" dia. x .75" H (64 mm x 19 mm) |
| VSWR: | 2:1 max over range | Stud Mounting: | 5/8" diameter, 3/4" long shaft (16 mm dia, 19 mm long) |
| Nominal Impedance: | 50 ohms | Hardware: | Nut, lockwasher and gasket included |
| Noise Figure: | 2.0 dB max, 1.7 dB typical | Connector (Both): | SMA Plug (Male) |
| Amplifier Bias: | 2.7 to 5 VDC | Shock & Vibration: | SM-1575 EN 61373, IEEE 1478, Mil-810G TIA-329.2-C |
| Current: | 20 mA max, 10 mA typical | Water Ingress: | SM-1575 IPx5 |
| Cable: | 15 ft (4.5 meters) RG-174 | | |
| IW-1575 Case: | ABS 1 5/8"H x 1 5/8" W x 7/8"D (41 mm x 41 mm x 22mm) | | |
| IW-1575 Mounting: | Double sided 3M VHB tape | | |
| Operating Temp: | -40° to +80° C | | |