SMW-303 multiband, 3-cable DSRC or WiFi MIMO & GPS

- Popular choice for DSRC trials
- Covers GPS, WiFi, Public Safety 4.9 & Military 4.4 GHz
- Available in either Surface-mount (SMW Series) or Mag-mount (MGW Series)

The SMW-303 Series Antenna provides multiband coverage on WiFi at 2.4 & 5 GHz, Public Safety at 4.9 GHz, Military at 4.4 GHz, DSRC at 5.9 GHz and GPS. The antenna is configured with 3 cables: one for GPS and the other two for the modems.

This surface mount multiband antenna mounts easily to a roof, trunk or bulkhead. The stud mount design uses a ¾" diameter feed thru (1.9 cm) for securing to the vehicle.

The data cables are 15 feet of Low Loss -195 (4.5 m). GPS cable is 15 feet of RF-174 (4.5m). All connectors are male unless otherwise requested.

For best performance, the antenna should be mounted on a metal surface or ground plane. A Mag-mount version is available with the same performance specs.

The antennas are enclosed in a 4.2"D x 3.2"H weatherproof ASA radome (10.7 cm x 8.1 cm) and supplied with all mounting hardware and a sealing gasket. The SMW Series are extremely weather resistant and rated IP67 for Dust and Water Ingress. The antennas have also passed industrial and military shock and vibration testing.

Specifications

- **Frequency & Gain (peak):**
  - Cable 1: 2.4-2.5 & 4.9-6.0 GHz, 5 dBi
  - Cable 2: 2.1-2.5 & 4.4-6.0 GHz, 5 dBi
  - Cable 3 (GPS): 1575.42 +/- 2 MHz, LNA 26dB, 5 dBi nominal RHCP, Antenna 1575 MHz & 1602 MHz

- **GPS & Glonass Option:**
  - Data Modem: VSWR
  - Nominal Impedance: 50 Ohm
  - Power: 10 Watts
  - Noise Figure: 2.0 dB max, 1.7 dB typical
  - Amplifier Bias: 2.7 to 5 VDC
  - Amplifier Current: 20 mA, 10 mA typical

- **Case Dimensions:**
  - 4.2"D x 3.2"H (10.7 cm x 8.1 cm)
  - Add ½" (1.3 cm) for mag base

- **Case Material:** White or Black UV resistant ASA

Model Configurator

- **Cable/Connector 1:**
  - Code: RG-58
  - Connector: TNC
  - Color: WHT

- **Cable/Connector 2:**
  - Code: RG-174
  - Connector: Mini UHF
  - Color: BLK

- **Cable/Connector 3:**
  - Code: LL-195
  - Connector: SMA

- **Color Options:**
  - WHT: White
  - BLK: Black

- **GPS & Glonass Option:**
  - 1575 MHz & 1602 MHz

- **Data Modem:**
  - VSWR: 2:1 max over range
  - Nominal Impedance: 50 Ohm
  - Power: 10 Watts

- **Noise Figure:**
  - 2.0 dB max, 1.7 dB typical

- **Amplifier Bias:**
  - 2.7 to 5 VDC

- **Amplifier Current:**
  - 20 mA, 10 mA typical

- **Case Dimensions:**
  - 4.2"D x 3.2"H (10.7 cm x 8.1 cm)
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Specifications subject to change without notice (9/2018)