



The SMW-304 Series Antennas is configured with three different cables. The first element covers 2.4-2.5 GHz, the second element covers 2.4 & 4.9-6.0 GHz and the third covers GPS at 1575 MHz.

This design accommodates two WiFi connections, the first at 2.4 GHZ and the second at dual-band 2.5 & 5 GHz. Alternatively, the second element could accommodate Public Safety 4.9 GHz or DSRC 5.9 GHz.

The SMW-304 antennas provide 5 dBi gain on both of the data cables and a ground plane is not required.

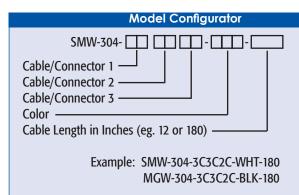
The antenna can be configured for either surface mount or magmount and will handle 10 watts of power.

The surface mount models use a 3/4-inch feed thru (19 mm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation of the SMW Series.

Both the surface mount and mag-mount antennas are configured with 15 feet (4.5 meters) of cable. The communications channels use RF-195 cable and the GPS channel uses RG-174.

SMW-304 multiband, 3-cable WiFi, Public Safety 4.9 & GPS

- 3 antennas in 1 antenna housing
- Covers GPS, WiFi, Public Safety 4.9 & DSRC 5.9
- Saves time and money by reducing the number of installations
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)



Specify "SMWG" or "MGWG" instead of "SMW" or "MGW" for GPS/Glonass combination antenna.

Cable Options:		Connector Options:		Color Options:	
<u>Code</u>	<u>Cable</u>	<u>Code</u>	Connector	<u>Code</u>	Color
1	RG-58	Α	TNC	WHT	White
2	RG-174	В	Mini UHF	BLK	Black
3	RF-195	C	SMA		
		D	SMB		

(Other Configurations available.)

Specifications Frequency & Gain (peak): Case Material: White or Black UV resistant ASA Cable 1 2400-2485 MHz, 5 dBi Cable: Cable 2 2.4-2.5 & 4.9-6.0 GHz, 5 dBi Cable 1 & 2 Separate RF-195,15 ft (4.5 meters) Cable 3 (GPS) 1575.42 +/- 2 MHz, LNA 26dB Cable 3 (GPS) RG-174, 15 ft (4.5 meters) 5 dBi nominal RHCP, Antenna Connectors: SMA Plug (Male) standard Data Modem: **VSWR** 2:1 max over range Mounting: Threaded metal stud **Nominal Inpedance** 50 ohms 3/4" dia. x 1/2" long Power 10 Watts (19 mm x 13 mm) for GPS: 1/4" (6 mm) thick metal; Noise Figure 2.0 dB max, 1.7 dB typical supplied with gasket and nut **Amplifier Bias** 2.7 to 5 VDC **Amplifier Current** 20 mA, 10 mA typical Operating Temp: -40° to +80° C GPS & Glonass Option: 1575 MHz & 1612 MHz Shock & Vibration: IEEE1478, EN 61373, MIL-810G, TIA 329.2-C Case: 4.2"D x 3.2"H (107 mm x 81 mm) **Dust/Water Ingress:** IP67 add 1/2" (13 mm) for mag base