



3-Cable Multiband  
Antenna

## Surface Mount Multiband UHF, WiFi, Public Safety 4.9 & GPS

- Model SMW-310: 3 cable feed multiband covers UHF, WiFi, Public Safety 4.9 & GPS
- 3 antennas in 1 radome; saves time and money by reducing the number of installations
- True omni-directional pattern; provides exceptional performance

The SMW-310 Series Antenna has three separate RF cable feeds and will most typically be used for UHF, WiFi & GPS. Bandwidth coverage is 450-470 MHz on the first cable, 2400-2485 MHz & 4.9-6.0 GHz on the second cable and 1575 MHz for GPS on the third cable.

The ideal application for this product is public safety vehicles, such as police cars. This combination of frequencies is standard on most police cars in-service today. The SMW Series is a lower cost solution by reducing the number of installations and by reducing the downtime for those installations. Also, having three elements in one radome significantly reduces the overall footprint.

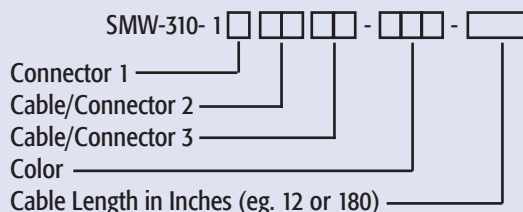
The antennas can be mounted to any vehicle, cargo container or trailer. The stud mount design uses a 3/4" feed thru (19mm) for securing to the vehicle. For best performance, the antenna should be mounted on a metal surface or ground plane.

For the GPS interface, the antennas are typically outfitted with 15 feet of RG-174 cable (4.5 meters). The UHF interface cable is 15 feet of RG-58 and the WiFi interface has 15 feet of low loss RF-195. All connectors are male unless requested otherwise.

The antennas are enclosed in a 4.2"D x 3.2"H weather-proof radome (107 mm x 81 mm). The SMW series of antennas are fully weather

resistant with a Dust and Water Ingress rating of IP67. The radome color is white or black UV resistant ASA.

### Model Configurator



Example: SMW-310-1C3C2C-WHT-180

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

Cable Options:		Connector Options:		Color Options:	
Code	Cable	Code	Connector	Code	Color
1	RG-58	A	TNC	WHT	White
2	RG-174	B	Mini UHF	BLK	Black
3	RF-195	C	SMA		

(Other Configurations available.)

### Specifications

Frequency & Gain:		Case:	4.2"D x 3.2"H (107 mm x 81 mm) add ½" (1.3 cm) for mag base	
Cable 1	450-470 MHz, 2 dBi	Case Material:	White or Black UV resistant ASA	
Cable 2	2.4 & 4.9-6.0 GHz, 5 dBi	Cable:		
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB	Cable 1	RG-58 cable,15 ft (4.5 meters)	
VSWR:	5 dBi nominal RHCP, Antenna 2:1 max over range	Cable 2	RF-195 cable,15 ft (4.5 meters)	
		Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)	
Nominal Impedance:		Connectors:	SMA Plug (Male)	
Power:		Mounting:	Threaded metal stud ¾" dia. x ½" long (19 mm x 13 mm) for 1/4" (6 mm) thick metal; supplied with gasket and nut	
UHF	30 Watts	Operating Temp:	-40 to +85 °C	
WiFi	10 Watts	Shock & Vibration:	IEEE1478, EN 61373, MIL-810G TIA 329.2-C	
GPS:		Dust/Water Ingress:	IP67	
Noise Figure	2.0 dB max, 1.7 dB typical			
Amplifier Bias	2.7 to 5 VDC			
Amplifier Current	20 mA, 10 mA typical			
GPS & Glonass Option:	1575 MHz & 1612 MHz			