



3-Cable Multiband Antenna

SMW-310 multiband, 3-cable UHF, WiFi or Public Safety 4.9 &

- 3 antennas in 1 antenna housing
- Covers UHF, WiFi 2.4/5 GHz, or Public Safety 4.9 GHz & GPS
- 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 (1.9 cm) 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 m). The UHF interface cable is 15 feet of RG-58 (4.5m) and the WiFi interface has 15 feet (4.5m) of low loss-195. All connectors are male unless requested otherwise.

The antennas are enclosed in a 4.2"D x 3.2"H weather-proof radome (10.7 cm x 8.1 cm), 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.

Not available in a mag mount.

Model Configurator

SMW-310- 1 - -

Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

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	LL-195	C	SMA		

(Other Configurations available.)

Specifications	
Frequency & Gain (peak)*:	
Cable 1	450-470 MHz, 2 dBi
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB
GPS & Glonass Option:	5 dBi nominal RHCP, Antenna 1575 MHz & 1602 MHz
VSWR*:	2:1 max over range
Nominal Impedance:	50 Ohm
Power:	
UHF	30 Watts
WiFi	10 Watts
GPS:	
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:	4.2"D x 3.2"H (10.7 cm x 8.1 cm) add 1/2" (1.3 cm) for mag base
Case Material:	White or Black UV resistant ASA
Cable:	
Cable 1	RG-58 cable, 15 ft (4.5 m)
Cable 2	LL-195 cable, 15 ft (4.5 m)
Cable 3 (GPS)	RG-174, 15 ft (4.5 m)
Connectors:	SMA Plug (Male) standard
Mounting:	Threaded metal stud 3/4" dia. x 1/2" long (1.9 cm x 1.3 cm) for 1/4" (6 mm) thick metal
Operating Temp:	-40° to +80° C
Shock & Vibration:	IEEEE1478, EN 61373, MIL-810G TIA 329.2-C
Dust/Water Ingress:	IP67

*Measured on 1'(30cm) ground with 1'(30cm) cable