



Surface Mount Multiband WiFi, Public Safety 4.9 & GPS

- Model SMW-304: 3 cable feed multiband
- Covers GPS, WiFi, Public Safety 4.9 & DSRC 5.9
- 3 antennas in 1 radome; saves time and money by reducing the number of installations

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 mag-mount 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.

Model Configurator

SMW-304- - -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-304-3C3C2C-WHT-180
MGW-304-3C3C2C-BLK-120

Specify "SMWG" or "MGWG" instead of "SMW" or "MGW" 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		
		D	SMB		
		E	MCX		

(Other Configurations available.)

Specifications

Frequency & Gain:		Case Material:	White or Black UV resistant ASA
Cable 1	2400-2485 MHz, 5 dBi (peak)	Cable:	
Cable 2	2.4 & 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 5 dBi nominal RHCP, Antenna	Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)
Data Modem:		Connectors:	SMA Plug (Male)
VSWR	2:1 max over range	Mounting:	
Nominal Impedance	50 ohms	Threaded metal stud	
Power	10 Watts	3/4" dia. x 1/2" long	
GPS:		(19 mm x 13 mm) for	
Noise Figure	2.0 dB max, 1.7 dB typical	1/4" (6 mm) thick metal;	
Amplifier Bias	2.7 to 5 VDC	supplied with gasket and nut	
Amplifier Current	20 mA, 10 mA typical	Operating Temp:	-40 to +85° 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) add 1/2" (1.3 cm) for mag base	Dust/Water Ingress:	IP67