



SMW-314 multiband, 3-cable Global Cellular/LTE, DSRC & GPS

- 3 antennas in 1 antenna housing
- Popular Choice for DSRC Trials
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)

The SMW-314 Series Antenna is a 3 cable surface mount and provides multiband coverage on Global Cellular/LTE, DSRC at 5.9 GHz and GPS.

This 3 cable surface mount multiband antenna mounts easily to a roof, trunk or bulkhead. The stud mount design uses a 3/4" diameter feed thru (19mm) for securing to the vehicle. The data cables are 15 feet of Low Loss -195 (4.5 meters). GPS cable is 15 feet of RF-174. 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 (107 mm x 81 mm) and supplied with all mounting hardware and a sealing gasket. The SMW Series is extremely weather resistant and rated IP67 for Dust and Water Ingress. The antennas have also passed industrial and military shock and vibration testing.

Model Configurator

SMW-314- - -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-314-3C3C2C-WHT-180
 MGW-314-3C3C2C-BLK-180

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	C	SMA	BLK	Black
3	LL-195	J	RP SMA		

(Other Configurations available.)

Specifications	
Frequency & Gain*:	
Cable 1	694-960 MHz, 3 dBi 1710-3700 MHz, 4 dBi
Cable 2	5.8-6.0 GHz, 5 dBi
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP, Antenna
Data Modem:	
VSWR*	2:1 max over range
Nominal Impedance	50 Ohm
Power	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
GPS & Glonass Option:	1575 MHz & 1602 MHz
Operating Temp:	-40° to +80° C
Case:	4.2"D x 3.2"H (10.7 cm x 8.1 cm) add 1/2" (1.3 cm) for mag base White or Black UV resistant ASA
Case Material:	
Cable:	
Cable 1 & 2	Separate LL-195, 15 ft (4.5 m)
Cable 3 (GPS)	RG-174, 15 ft (4.5 m)
Connectors:	SMA Plug (Male)
MGW Mounting:	Magnet Mount
SMW Mounting:	Threaded metal stud 3/4" dia. x 1/2" long (1.9 cm x 1.3 cm) for 1/4" (6mm) thick metal; supplied with gasket & nut; other stud lengths available
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G TIA 329.2-C
Dust/Water Ingress:	IP67