



## SMW-301 multiband, 3-cable Cellular, WiFi & GPS

- Available with combination GPS/Glonass
- Covers GPS, Cellular, AWS, WiFi, WiMAX, Public Safety 4.9 & DSRC 5.9 GHz
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)

Mobile Mark's SMW-301 antennas are three-cable multiband antennas providing coverage for three different wireless devices. The antennas are used for Cellular, WiFi and GPS combinations.

The broadband "cellular" element covers all wireless applications from 800-2700 MHz, including US and European Cellular channels, AWS, UMTS, WiFi and WiMAX.

The second element in the SMW-301 provides dual coverage on both 2.4-2.5 GHz and 4.9-6.0 GHz so it can be used on 802.11 a/b/g/n systems. The SMW-301 could also be used for Public Safety 4.9 GHz or for DSRC 5.9 GHz.

This surface mount multiband antenna mounts easily to a roof, trunk or bulkhead. The stud mount design uses a 3/4" diam. feed thru (1.9 cm) for securing to the vehicle. It is extremely weather resistant and rated IP67 for water ingress.

For best performance, the antenna should be mounted on a metal surface or ground plane.

The antenna is also available in a mag-mount configuration (MGW).

**Model Configurator**

SMW-301-    -  -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-301-3C3C2C-WHT-180 (surface mount)  
 MGW-301-3C3C2C-BLK-180 (mag mount)

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	LL-195	C	SMA		

(Other Configurations available.)

Specifications	
Frequency & Gain (peak):	
Cable 1	800-1250 MHz, 3 dBi 1650-2700 MHz, 5 dBi
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP, Antenna
GPS & Glonass Option:	1575 MHz & 1602 MHz
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
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 & 2	Separate LL-195, 15 ft (4.5 m)
Cable 3 (GPS)	RG-174, 15 ft (4.5 m)
Connectors:	SMA Plug (Male)
SMW 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; supplied with gasket and nut
Mag Mounting:	Magnet
Operating Temp:	-40° to +80° C
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G TIA 329.2-C
Dust/Water Ingress:	IP67

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