



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 802.11a/b/g/n systems. The SMW-301 could also be used for Public Safety 4.9 GHz or for DSRC 5.9 GHz.

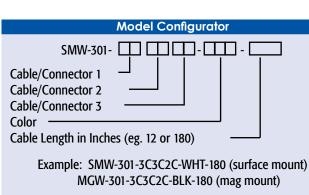
This surface mount multiband antenna mounts easily to a roof, trunk or bulkhead. The stud mount design uses a 3/4" diam. feed thru (1.9 cm) for securing to the vehicle. It is extremely weather resistant and rated IP67 for water ingress.

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).

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)



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

Cable Options:		Connector Options:		Color Options:	
<u>Code</u>	<u>Cable</u>	<u>Code</u>	Connector	<u>Code</u>	<u>Color</u>
1	RG-58	Α	TNC	WHT	White
2	RG-174	В	Mini UHF	BLK	Black
3	LL-195	C	SMA		

(Other Configurations available)

Specifications					
Frequency & Gain (peak):		Case Material:	White or Black UV resistant ASA		
Cable 1	800-1250 MHz, 3 dBi	Cable:			
	1650-2700 MHz, 5 dBi	Cable 1 & 2	Separate LL-195,15 ft (4.5 m)		
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi	Cable 3 (GPS)	RG-174, 15 ft (4.5 m)		
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB	Connectors:	SMA Plug (Male)		
	5 dBi nominal RHCP, Antenna	SMW Mounting:	Threaded metal stud		
GPS & Glonass Option:	1575 MHz & 1602 MHz	-	3/4" dia. x 1/2" long		
Data Modem:			(1.9 cm x 1.3 cm) for		
VSWR	2:1 max over range		1/4" (6 mm) thick metal;		
Nominal Inpedance	50 Ohm		supplied with gasket and nut		
Power	10 Watts	Mag Mounting:	Magnet		
GPS:		Operating Temp:	-40° to +80° C		
Noise Figure	2.0 dB max, 1.7 dB typical	Shock & Vibration:	IEEE1478, EN 61373, MIL-810G		
Amplifier Bias	2.7 to 5 VDC		TIA 329.2-C		
Amplifier Current	20 mA, 10 mA typical	Dust/Water Ingress:	IP67		
Case:	4.2"D x 3.2"H (10.7 cm x 8.1 cm)				
	add ½" (1.3 cm) for mag base	*Measured	*Measured on 1' (30cm) ground with 1' cable (30cm)		