



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

- 3 antennas in 1 antenna housing
- Covers GPS, Cellular, AWS, WiFi, WiMAX, Public Safety 4.9 & DSRC 5.9 GHz
- Saves time and money by reducing the number of installations
- 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 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" feed thru (19mm) 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
MGW-301-3C3C2C-BLK-180

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

<u>Cable Options:</u>	<u>Connector Options:</u>	<u>Color Options:</u>
<u>Code</u> <u>Cable</u>	<u>Code</u> <u>Connector</u>	<u>Code</u> <u>Color</u>
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 (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	Case: 4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (13 mm) for mag base White or Black UV resistant ASA
Data Modem: VSWR 2:1 max over range Nominal Impedance 50 ohms Power 10 Watts	Case Material: Cable: Cable 1 & 2 Separate RF-195,15 ft (4.5 meters) Cable 3 (GPS) RG-174, 15 ft (4.5 meters)
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	Connectors: SMA Plug (Male) Mounting: Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13 mm) for 1/4" (6 mm) thick metal; supplied with gasket and nut
GPS & Glonass Option: 1575 MHz & 1612 MHz	Operating Temp: -40° to +80° C Shock & Vibration: IEEE1478, EN 61373, MIL-810G TIA 329.2-C Dust/Water Ingress: IP67