



Surface Mount Multiband GSM/CDMA or WiMax, WiFi & GPS

- Model SMW-301: 3 cable feed multiband
- Covers GPS, Cellular, AWS, WiFi, WiMAX, Public Safety 4.9 & DSRC 5.9 GHz
- 3 antennas in 1 radome
- Saves time and money by reducing the number of installations

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-120	
Specify "SMWG" or "MGWG" instead of "SMW" or "MGW" for GPS/Glonass combination antenna.	
Cable Options:	Connector Options:
Code Cable	Code Connector
1 RG-58	A TNC
2 RG-174	B Mini UHF
3 RF-195	C SMA
	D SMB
	E MCX
Color Options:	
Code Color	
WHT White	
BLK Black	
(Other Configurations available.)	

Specifications

Frequency & Gain:	
Cable 1	800-1250 MHz, 3 dBi 1650-2000 MHz, 5 dBi 2100-2700 MHz, 3 dBi
Cable 2	2.4-2.5 GHz, 5 dBi 4.9-6.0 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 ohms
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 & 1612 MHz

Case:	4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (1.3 cm) for mag base
Case Material:	White or Black UV resistant ASA
Cable:	
Cable 1 & 2	Separate RF-195, 15 ft (4.5 meters)
Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)
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
Operating Temp:	-40 to +85° C
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G TIA 329.2-C
Dust/Water Ingress:	IP67