



## Surface Mount Multiband GSM/CDMA or WiMAX, WiFi & GPS

- Model SMW-UMB: 3 cable feed multiband
- Covers GPS, Cellular, AWS & WiFi
- 3 antennas in 1 radome; saves time and money by reducing the number of installations

Mobile Mark's SMW-UMB antennas are three-cable multiband antennas providing coverage for three different wireless devices. The antennas are typically 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 2.4 GHz and WiMAX 2.6 GHz.

The second element in the SMW-UMB covers 2.4-2.5 GHz and can be used for 802.11b/g systems.

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.

This antenna is available in a mag-mount configuration; the model family is MGW.

**Model Configurator**

SMW-UMB-    -   -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-UMB-3C3C2C-WHT-180  
MGW-UMB-3C3C2C-BLK-120

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:		Case Material:
Cable 1	800-1250 MHz, 3 dBi 1650-2700 MHz, 5 dBi	White or Black UV resistant ASA
Cable 2	2400-2485 MHz, 5 dBi	Cable:
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP, Antenna	Cable 1 & 2
Data Modem:		Cable 3 (GPS)
VSWR	2:1 max over range	Connectors:
Nominal Impedance	50 ohms	Mounting:
Power	10 Watts	Threaded metal stud
GPS:		3/4" dia. x 1/2" long
Noise Figure	2.0 dB max, 1.7 dB typical	(19 mm x 13 mm) for
Amplifier Bias	2.7 to 5 VDC	1/4" (6 mm) thick metal;
Amplifier Current	20 mA, 10 mA typical	supplied with gasket and nut
GPS & Glonass Option:	1575 MHz & 1612 MHz	Operating Temp:
Case:	4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (1.3 cm) for mag base	Shock & Vibration:
		Dust/Water Ingress:
		IEEE1478, EN 61373, MIL-810G TIA 329.2-C
		IP67