



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.

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	RF-195	C	SMA		
		D	SMB		
		E	MCX		

(Other Configurations available.)

Specifications			
Frequency & Gain:			
Cable 1	800-1250 MHz, 3 dBi	Case Material:	
Cable 2	1650-2700 MHz, 5 dBi	White or Black UV resistant ASA	
Cable 3 (GPS)	2400-2485 MHz, 5 dBi	Cable:	
Data Modem:	1575.42 +/- 2 MHz, LNA 26dB	Cable 1 & 2	Separate RF-195, 15 ft (4.5 meters)
VSWR	5 dBi nominal RHCP, Antenna	Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)
Nominal Impedance		Connectors:	SMA Plug (Male)
Power		Mounting:	Threaded metal stud
GPS:		3/4" dia. x 1/2" long	(19 mm x 13 mm) for
Noise Figure	2.0 dB max, 1.7 dB typical	1/4" (6 mm) thick metal;	supplied with gasket and nut
Amplifier Bias	2.7 to 5 VDC	Operating Temp:	-40 to +85° C
Amplifier Current	20 mA, 10 mA typical	Shock & Vibration:	IEEE1478, EN 61373, MIL-810G
GPS & Glonass Option:	1575 MHz & 1612 MHz	Dust/Water Ingress:	TIA 329.2-C
Case:	4.2"D x 3.2"H (107 mm x 81 mm)		IP67
	add 1/2" (1.3 cm) for mag base		