



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

- Model SMW-401: 4 cable feed multiband
- Covers GPS, Cellular, AWS, WiFi, WiMAX 2.5 & Public Safety 4.9
- 4 antennas in 1 radome; saves time and money by reducing the number of installations

Mobile Mark's SMW-401 four-cable multiband antenna provides coverage for four different wireless devices. The antennas can be used for GPS, Cellular, AWS, UMTS, WiFi, WiMAX 2.5 or Public Safety 4.9.

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. The SMW Series is extremely weather resistant and rated IP67 for Dust and Water Ingress.

For best performance, the antenna should be mounted on a metal surface.

The Cellular and WiFi cables are 15 feet of low-loss RF-195 (4.5 meters). GPS cable is 15 feet of RF-174. All connectors are male unless otherwise requested.

The antennas are enclosed in a 4.2"D x 3.2"H weatherproof ASA radome (107 mm x 81 mm) and supplied with all mounting hardware and a sealing gasket.

The antenna is available in either surface mount (SMW Series) or mag mount (MGW Series).

**Model Configurator**

SMW-401-     -   -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-401-3C3C3C2C-WHT-180  
MGW-401-3C3C3C2C-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 1650-2700 MHz, 5 dBi
Cable 2	2400-2485 MHz, 5 dBi
Cable 3	1700-2700 MHz, 5 dBi
Cable 4 (GPS)	1575.42 +/- 2 MHz, LNA: 26dB 5 dBi nominal RHCP
VSWR:	2:1 max over range
Nominal Impedance:	50 ohms
Maximum Power:	20 Watts (max)
GPS	
Amplifier Bias:	2.7 to 5 VDC
Noise Figure:	2.0 dB max, 1.7 dB typical
Current:	20 mA max, 10 mA typical
GPS & Glonass Option:	1575 MHz & 1612 MHz
Case Material:	White or Black UV resistant ASA

Case:	4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (1.3 cm) for mag base
Cable:	
Cables 1 - 3	Separate RF-195 15 ft (4.5 meters)
Cable 4	RG-174, 15 ft (4.5 meters)
Connector:	SMA Plug (Male)
MGW Mounting:	Magnet Mount
SMW Mounting:	Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13mm) for 1/4" (6mm) thick metal; supplied with gasket and nut Other length studs available
Operating Temp:	-40° to +85° C
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G, TIA 329.2-C
Dust/Water Ingress:	IP67