



SMW-UMB multiband, 3-cable GSM/CDMA or WiMAX, WiFi & GPS

- 3 antennas in 1 antenna housing
- Covers GPS, Cellular, AWS, UMTS & WiFi
- 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-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-180

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

<p><u>Cable Options:</u></p> <table border="0"> <tr> <th>Code</th> <th>Cable</th> </tr> <tr> <td>1</td> <td>RG-58</td> </tr> <tr> <td>2</td> <td>RG-174</td> </tr> <tr> <td>3</td> <td>RF-195</td> </tr> </table>	Code	Cable	1	RG-58	2	RG-174	3	RF-195	<p><u>Connector Options:</u></p> <table border="0"> <tr> <th>Code</th> <th>Connector</th> </tr> <tr> <td>A</td> <td>TNC</td> </tr> <tr> <td>B</td> <td>Mini UHF</td> </tr> <tr> <td>C</td> <td>SMA</td> </tr> <tr> <td>D</td> <td>SMB</td> </tr> <tr> <td>E</td> <td>MCX</td> </tr> </table>	Code	Connector	A	TNC	B	Mini UHF	C	SMA	D	SMB	E	MCX	<p><u>Color Options:</u></p> <table border="0"> <tr> <th>Code</th> <th>Color</th> </tr> <tr> <td>WHT</td> <td>White</td> </tr> <tr> <td>BLK</td> <td>Black</td> </tr> </table>	Code	Color	WHT	White	BLK	Black
Code	Cable																											
1	RG-58																											
2	RG-174																											
3	RF-195																											
Code	Connector																											
A	TNC																											
B	Mini UHF																											
C	SMA																											
D	SMB																											
E	MCX																											
Code	Color																											
WHT	White																											
BLK	Black																											

(Other Configurations available.)

Specifications

Frequency & Gain (peak):

Cable 1	800-1250 MHz, 3 dBi 1650-2700 MHz, 5 dBi
Cable 2	2400-2485 MHz, 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" (13 mm) for mag base

Case Material:

White or Black UV resistant ASA

Cable:

Cable 1 & 2
Cable 3 (GPS)

Separate RF-195, 15 ft (4.5 meters)
RG-174, 15 ft (4.5 meters)
SMA Plug (Male)

Connectors:

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:

Shock & Vibration:

-40° to +80° C
IEEE1478, EN 61373, MIL-810G
TIA 329.2-C

Dust/Water Ingress:

IP67