



Mobile Mark's SMW-307 Series antenna is a three-cable multiband antenna providing coverage for three different wireless devices.

The broadband "cellular" element covers all wireless applications from 800-2700 MHz, including US and European Cellular channels, AWS, UMTS, WiFi and WiMAX.

The second element covers 3.0-6.0 GHz for applications such as WiMAX at 3.5 or 3.65 GHz, Military 4.4 GHz, Public Safety 4.9 GHz, WiFi 5 GHz or DSRC 5.9 GHz. The third element covers GPS at 1575 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 Dust and Water Ingress. For best performance, the antenna should be mounted on a metal surface or ground plane.

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.

Surface Mount Multiband Cellular, WiFi, WiMAX & GPS

- Model SMW-307: 3 cable feed multiband
- Covers GPS, Cellular, AWS, WiFi, WiMAX, Public Safety 4.9, DSRC 5.9 & Military 4.4
- 3 antennas in 1 radome; saves time and money by reducing the number of installations

Model Configurator

SMW-307- - -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-307-3A3A2C-WHT-180
MGW-307-3A3A2C-BLK-120

Specify "SMWGW" or "MGWGW" instead of "SMW" or "MGW" for GPS/Glonass combination antenna.

Cable Options:

Code	Cable
1	RG-58
2	RG-174
3	RF-195

Connector Options:

Code	Connector
A	TNC
B	Mini UHF
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
Cable 2	1650-2700 MHz, 5 dBi
Cable 3	3.0-6.0 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:

Cable:	White or Black UV resistant ASA
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