



Surface Mount Multiband GSM/CDMA, WiMAX & Diversity & GPS

- Model SMW-302: 3 cable feed multiband
- Covers GPS, GSM/CDMA systems, WiMAX 2.5 or Diversity GSM
- 3 antennas in 1 radome; saves time and money by reducing the number of installations

The SMW-302 Series Antenna has three separate RF cable feeds and will cover GSM/CDMA systems, WiMAX 2.5 or Diversity GSM.

The first cellular element is the broadband element found in other SMW antennas and covers 800-1250 & 1650-2700 MHz. The second element covers 1.7-2.7 GHz and 1575 MHz for GPS on the third element.

The Cellular and WiMAX 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.

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.

For best performance, the antenna should be mounted on a metal surface or ground plane. A Mag-mount version is available with the same performance specs.

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

Model Configurator

SMW-302- - - - -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-302-3C3C2C-WHT-180
MGW-302-3C3C2C-BLK-120

Specify "SMWVG" or "MGWVG" 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	1700-2700 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" (1.3 cm) for mag base

Case Material:	White or Black UV resistant ASA
Cable:	
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