



The SMW-308 Series Antenna features 3-elements in one antenna radome. The unique feature of this SMW model is that it offers two elements covering US Cellular frequencies. The first cellular element is the broadband element found in other SMW antennas and covers 800-1250 & 1650-2700 MHz. The second element, because it is shorter, covers 824-894 & 1850-1990 MHz.

The antenna was designed for US Cellular Diversity modems that require two separate cellular elements for optimum performance. But, the antenna can also be used for other applications.

For example, the first cable could be connected to a multiband modem that includes the AWS bands and the second cable could be connected to a GPRS modem covering traditional 850 & 1900 MHz bands.

The SMW antennas can be mounted to any vehicle, cargo container or trailer. Access to the underside of the body surface is required to complete the installation. For best performance the antenna should be mounted on a metal surface or ground plane.

The antenna is also available as a mag-mount; specify MGW instead of SMW to order the mag-mount version.

Surface Mount Multiband US Diversity Cellular & GPS

- Model SMW-308: 3 cable feed multiband
- Covers GPS, Cellular Diversity, or US Cellular and AWS
- 3 antennas in 1 radome; saves time and money by reducing the number of installations

Model Configurator

SMW-308-----

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-308-3C3C2C-WHT-180
MGW-308-3C3C2C-BLK-120

Specify "SMWGW" or "MGWGW" 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:		Case:	4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (1.3 cm) for mag base
Cable 1	800-1250 MHz, 3 dBi 1650-2700 MHz, 5 dBi	Case Material:	White or Black UV resistant ASA
Cable 2	824-894 MHz, 0 dBi peak 1850-1990 MHz, 3 dBi peak	Cable:	Separate RF-195, 15 ft (4.5 meters) RG-174, 15 ft (4.5 meters)
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP, Antenna	Connectors:	SMA Plug (Male)
Data Modem:		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
VSWR	2:1 max over range	Operating Temp:	-40 to +85 °C
Nominal Impedance	50 ohms	Shock & Vibration:	IEEE1478, EN 61373, MIL-810G, TIA 329.2-C
Power	10 Watts	Dust/Water Ingress	IP67
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		