



The SMW-411 Series Antennas features 4-elements in one antenna radome. This antenna covers an extremely wide range of applications including Diversity on the 850/1900 Cellular bands, WiFi, WiMAX, AWS, Military 4.4 GHz, DSRC and GPS. The unique feature of this SMW model is that the antenna offers two elements covering US Cellular frequencies. (See the spec table below for exact frequencies covered on each cable.)

The SMW Series antennas have passed multiple Industry and Military Shock & Vibration standards, and have also achieved a Dust and Water Ingress rating of IP67.

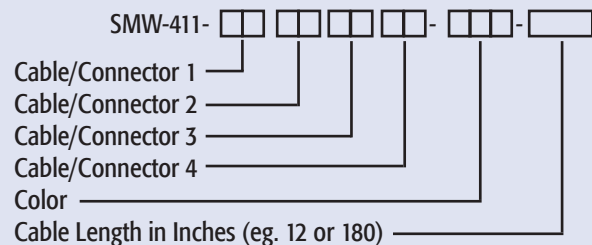
The SMW surface mount mounts easily to a roof, truck or bulkhead. The stud mount design uses a 3/4-inch feed thru (19 mm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation. For best results, the antenna should be mounted on a metal surface or ground plane.

The antenna is also available as a mag-mount and can be identified as the MGW Series.

Surface Mount Multiband Diversity Cellular, WiFi & GPS

- Model SMW-411: 4 cable feed multiband
- Covers GPS, Diversity Cellular, AWS, WiFi, 2.5 GHz WiMAX & Public Safety
- 4 antennas in 1 radome; saves time and money by reducing the number of installations

Model Configurator



Example: SMW-411-3C3C3C2C-WHT-180
MGW-411-3C3C3C2C-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
Cable 2	1650-2700 MHz, 5 dBi
Cable 3	824-894 MHz, 0 dBi Peak
Cable 4 (GPS)	1850-1990 MHz, 3 dBi Peak
	2.1-2.5 & 4.4-6.0 GHz, 5 dBi
	1575.42 +/- 2 MHz, LNA: 26dB
	5 dBi nominal RHC
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:	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:	
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
	-40° to +85° C
Operating Temp:	
Shock & Vibration:	IEEE1478, EN 61373,
	MIL-810G, TIA 329.2-C
Dust/Water Ingress:	IP67