



SMW-411 multiband, 4-cable Diversity Cellular, WiFi & GPS

- 4 antennas in 1 antenna housing
- Covers GPS, Diversity Cellular, AWS, WiFi, 2.5 GHz WiMAX & 4.9 GHz Public Safety
- Saves time and money by reducing the number of installations
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)

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 are available in a mag-mount option and can be identified as the MGW Series. The antennas can also be configured for combined GPS & Glonass use.

Model Configurator

SMW-411- - -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-411-3C3C3C2C-WHT-180
MGW-411-3C3C3C2C-BLK-180

Specify "SMWG" or "MGWG" 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		
		J	RP SMA		

(Other Configurations available.)

Specifications

Frequency & Gain (peak):	800-1250 MHz, 3 dBi & 1650-2700 MHz, 5 dBi	Case Material:	White or Black UV resistant ASA
Cable 1	824-894 MHz, 0 dBi Peak	Cable:	Cables 1 - 3: Separate RF-195 15 ft (4.5 meters)
Cable 2	1850-1990 MHz, 3 dBi Peak	Cable 4	RG-174, 15 ft (4.5 meters)
Cable 3	2.1-2.5 & 4.4-6.0 GHz, 5 dBi	Connector:	SMA Plug (Male) standard
Cable 4 (GPS)	1575.42 +/- 2 MHz, LNA: 26dB	MGW Mounting:	Magnet Mount
VSWR:	5 dBi nominal RHC	SMW Mounting:	Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13mm) for 1/4" (6 mm) thick metal; supplied with gasket & nut; other stud lengths available
Nominal Impedance:	2:1 max over range	Operating Temp:	-40° to +80° C
Maximum Power:	50 ohms	Shock & Vibration:	IEEE1478, EN 61373, MIL-810G, TIA 329.2-C
GPS	10 Watts	Dust/Water Ingress:	IP67
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" (13 mm) for mag base		