



The SMW-311 Series antennas features 3 antenna elements in one radome. The unique feature of this model is that the cellular element (Cable 1) is extremely widebanded and can cover the traditional GSM/CDMA frequencies, 700 MHz LTE, 1.7 & 2.1 GHz AWS/UMTS bands and LTE/WiMAX at 2.5 or 3.7 GHz, all on a single board.

This antenna is truly ready for any 4G or 5G rollout but is also compatible with earlier generation such as GPRS. See the spec table below for exact frequencies covered on each cable.

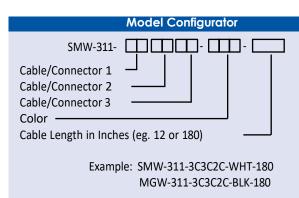
In additional to covering all Cellular & LTE bands worldwide on the first antenna element, the antenna also covers 2.4/5 GHz dual-band WiFi on the second antenna element. Alternatively, the second element can be used for other specialized applications such as: Public Safety coverage at 4.9 GHz, Military at 4.4 GHz or DSRC at 5.9 GHz.

The antenna is enclosed in a 4.2"D x 3.2"H (10.7 cm x 81 cm) weatherproof radome, and supplied with all mounting hardware and a sealing gasket. The radome is available in either black or white.

The antenna is available in either surface mount (SMW Series) or mag mount (MGW Series). The antennas can also be built with a commbined GPS & Glonass antenna.

SMW-311 multiband, 3-cable Global Cellular/LTE, WiFi & GPS

- 3 antennas in 1 antenna housing
- Covers all Cellular/LTE frequencies worldwide, WiFi at 2.4/5 GHz & GPS
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)



Specify "SMWG" or "MGWG" instead of "SMW" or "MGW" for GPS/Glonass combination antenna.

Cable Options:		Conned or Options:		Color Options:	
<u>Code</u>	<u>Cable</u>	<u>Code</u>	Connector	<u>Code</u>	<u>Color</u>
2	RG-174	Α	TNC	WHT	White
3	RF-195	С	SMA	BLK	Black
		J	RP SMA		
				(Other Configurations available.)	

Specifications			
Frequency & Gain*:		Case:	4.2"D x 3.2"H (10.7 cm x 8.1 cm)
Cable 1	694-960 MHz, 3 dBi		add ½" (1.3 cm) for mag base
	1710-3700 MHz, 4 dBi	Case Material:	White or Black UV resistant ASA
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi	Cable:	
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB	Cable 1 & 2	Separate RF-195,15 ft (4.5 m)
	5 dBi nominal RHCP, Antenna	Cable 3 (GPS)	RG-174, 15 ft (4.5 m)
Data Modem:		Connectors:	SMA Plug (Male)
VSWR*	2:1 max over range	MGW Mounting:	Magnet Mount
Nominal Inpedance	50 Ohm	SMW Mounting:	Threaded metal stud 3/4" dia. x
Power	10 Watts		1/2" long (1.9 cm x 1.3 cm) for 1/4"
GPS:			(6mm) thick metal; supplied with
Noise Figure	2.0 dB max, 1.7 dB typical		gasket & nut; other stud lengths
Amplifier Bias	2.7 to 5 VDC		available
Amplifier Current	20 mA, 10 mA typical	Shock & Vibration:	IEEE1478, EN 61373, MIL-810G
GPS & Glonass Option:	1575 MHz & 1602 MHz		TIA 329.2-C
		Dust/Water Ingress:	IP67
Operating Temp:	-40° to +80° C		