



## 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
- Saves time and money by reducing the number of installations
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)

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 addition 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 (107 mm x 81 mm) 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 combined GPS & Glonass antenna.

**Model Configurator**

SMW-311- [ ] [ ] [ ] - [ ] [ ] - [ ]

Cable/Connector 1  
Cable/Connector 2  
Cable/Connector 3  
Color  
Cable Length in Inches (eg. 12 or 180)

Example: SMW-311-3C3C2C-WHT-180  
MGW-311-3C3C2C-BLK-180

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	C	SMA	BLK	Black
3	RF-195	D	SMB		
		J	RP SMA		

(Other Configurations available.)

### Specifications

<b>Frequency &amp; Gain*:</b>		<b>Case:</b>	4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (13 mm) for mag base
Cable 1	694-960 MHz, 3 dBi 1710-3700 MHz, 4 dBi	<b>Case Material:</b>	White or Black UV resistant ASA
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi	<b>Cable:</b>	Cable 1 & 2 Separate RF-195, 15 ft (4.5 meters)
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP, Antenna	Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)
<b>Data Modem:</b>		<b>Connectors:</b>	SMA Plug (Male)
VSWR*	2:1 max over range	<b>MGW Mounting:</b>	Magnet Mount
Nominal Impedance	50 ohms	<b>SMW Mounting:</b>	Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13mm) for 1/4" (6mm) thick metal; supplied with gasket & nut; other stud lengths available
Power	10 Watts	<b>Shock &amp; Vibration:</b>	IEEE1478, EN 61373, MIL-810G TIA 329.2-C
<b>GPS:</b>		<b>Dust/Water Ingress:</b>	IP67
Noise Figure	2.0 dB max, 1.7 dB typical		*Measured on 1' ground with 1' cable
Amplifier Bias	2.7 to 5 VDC		
Amplifier Current	20 mA, 10 mA typical		
<b>GPS &amp; Glonass Option:</b>	1575 MHz & 1612 MHz		
<b>Operating Temp:</b>	-40° to +80° C		