



3-Cable  
Multiband

Black Case

Mag-Mount

## 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)

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 "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	C	SMA	BLK	Black
3	LL-195	D	SMB		
		J	RP SMA		

(Other Configurations available.)

Specifications	
<p><b>Frequency &amp; Gain*:</b></p> <p>Cable 1                    694-960 MHz, 3 dBi                      1710-3700 MHz, 4 dBi</p> <p>Cable 2                    2.4-2.5 &amp; 4.9-6.0 GHz, 5 dBi</p> <p>Cable 3 (GPS)            1575.42 +/- 2 MHz, LNA 26dB                      5 dBi nominal RHCP, Antenna</p> <p><b>Data Modem:</b></p> <p>VSWR*                    2:1 max over range</p> <p>Nominal Impedance    50 ohms</p> <p>Power                      10 Watts</p> <p><b>GPS:</b></p> <p>Noise Figure            2.0 dB max, 1.7 dB typical</p> <p>Amplifier Bias           2.7 to 5 VDC</p> <p>Amplifier Current       20 mA, 10 mA typical</p> <p>GPS &amp; Glonass Option: 1575 MHz &amp; 1612 MHz</p> <p><b>Operating Temp:</b>     -40° to +80° C</p>	<p><b>Case:</b>                    4.2"D x 3.2"H (107 mm x 81 mm)                      add ½" (13 mm) for mag base</p> <p><b>Case Material:</b>      White or Black UV resistant ASA</p> <p><b>Cable:</b></p> <p>Cable 1 &amp; 2              Separate LL-195, 15 ft (4.5 meters)</p> <p>Cable 3 (GPS)            RG-174, 15 ft (4.5 meters)</p> <p><b>Connectors:</b>           SMA Plug (Male)</p> <p><b>MGW Mounting:</b>      Magnet Mount</p> <p><b>SMW Mounting:</b>      Threaded metal stud ¾" dia. x                      ½" long (19 mm x 13mm) for ¼"                      (6mm) thick metal; supplied with                      gasket &amp; nut; other stud lengths                      available</p> <p><b>Shock &amp; Vibration:</b>    IEEE1478, EN 61373, MIL-810G                      TIA 329.2-C</p> <p><b>Dust/Water Ingress:</b>    IP67</p> <p style="text-align: right; font-size: small;">*Measured on 1'(30cm) ground with 1'(30cm)</p>