



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 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 (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 commbined GPS & Glonass antenna.

ı	Model Configurator						
	Cable/G Cable/G Color -	J	-	g. 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 C	Color Options:	
	<u>Code</u>	<u>Cable</u>	<u>Code</u>	<u>Connector</u>	<u>Code</u>	<u>Color</u>	
	1	RG-58	Α	TNC	WHT	White	
	2	RG-174	C	SMA	BLK	Black	

SMB

RP SMA

(Other Configurations available.)

Specifications Frequency & Gain*: 4.2"D x 3.2"H (107 mm x 81 mm) Case: 694-960 MHz, 3 dBi Cable 1 add ½" (13 mm) 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 1 & 2 Separate LL-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) SMA Plug (Male) Data Modem: Connectors: VSWR* 2:1 max over range MGW Mounting: Magnet Mount Nominal Inpedance 50 ohms Threaded metal stud ¾" dia. x SMW Mounting: Power 10 Watts 1/2" long (19 mm x 13mm) 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 & 1612 MHz TIA 329.2-C **Dust/Water Ingress:** Operating Temp: -40° to +80° C *Measured on 1'(30cm) ground with 1'(30cm)

3

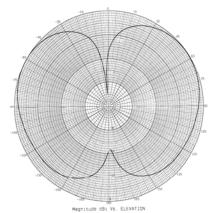
LL-195

D

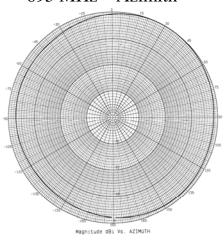




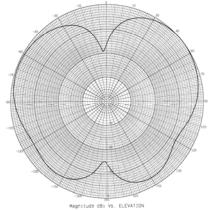
695 MHz – Elevation



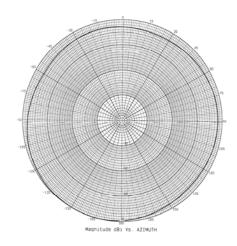
695 MHz – Azimith



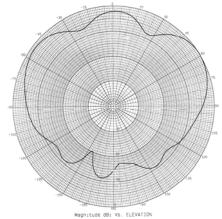
925 MHz – Elevation



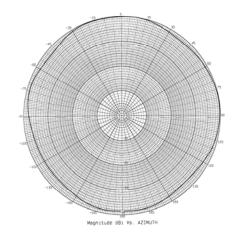
925 MHz – Azimith



1850 MHz – Elevation



1850 MHz – Azimith



SMW-311 Series Antennas (page 2 of 2) Surface Mount Multi-Band Antenna with GPS (1575 MHz) Cable#3

