



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 (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 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:		Connec or Options:		Color Options:	
Code	Cable	Code	Connector	Code	Color
2	RG-174	A	TNC	WHT	White
3	RF-195	C	SMA	BLK	Black
		J	RP SMA		

(Other Configurations available.)

Specifications

Frequency & Gain*:	
Cable 1	694-960 MHz, 3 dBi 1710-3700 MHz, 4 dBi
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP, Antenna
Data Modem:	
VSWR*	2:1 max over range
Nominal Impedance	50 Ohm
Power	10 Watts
GPS:	
Noise Figure	2.0 dB max, 1.7 dB typical
Amplifier Bias	2.7 to 5 VDC
Amplifier Current	20 mA, 10 mA typical
GPS & Glonass Option:	1575 MHz & 1602 MHz
Operating Temp:	-40° to +80° C

Case:	4.2"D x 3.2"H (10.7 cm x 8.1 cm) add ½" (1.3 cm) for mag base
Case Material:	White or Black UV resistant ASA
Cable:	
Cable 1 & 2	Separate RF-195, 15 ft (4.5 m)
Cable 3 (GPS)	RG-174, 15 ft (4.5 m)
Connectors:	SMA Plug (Male)
MGW Mounting:	Magnet Mount
SMW Mounting:	Threaded metal stud 3/4" dia. x 1/2" long (1.9 cm x 1.3 cm) for 1/4" (6mm) thick metal; supplied with gasket & nut; other stud lengths available
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G TIA 329.2-C
Dust/Water Ingress:	IP67