



## SMW-305 multiband, 3-cable Cellular/LTE 700 MHz, WiFi & GPS

- 3 antennas in 1 antenna housing
- Covers GPS, Cellular/LTE/AWS, WiFi Public Safety 4.9 & DSRC 5.9 GHz
- Available in either Surface-mount (SMW Series) or Mag-mount (MGW Series)

The SMW-305 Series Antennas features 3-elements in one antenna radome. The unique feature of this model is that the cellular element (Cable 1) is extremely widebanded and can cover: LTE at 700 MHz as well as the established 850/1900 GSM/CDMA bands, 1.7/2.1 AWS bands and WiMAX 2.5 all on a single board.

In addition to covering all of the cellular bands on the first antenna element, the antenna also covers 2.4/5 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, or DSRC at 5.9 GHz.

The antenna is enclosed in a 4.2"D x 3.2"H (10.7 cm x 8.1 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).

**Model Configurator**

SMW-305-    -   -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-305-3C3C2C-WHT-180 (surface mount)  
 MGW-305-3C3A2C-BLK-180 (mag mount)

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	B	Mini UHF	BLK	Black
3	LL-195	C	SMA		

(Other Configurations available.)

Specifications		
Frequency & Gain*:		
Cable 1	694-894 MHz, 2 dBi 1700-2700 MHz, 5 dBi	White or Black UV resistant ASA
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 1575 MHz & 1602 MHz	Separate Low Loss-195,15 ft (4.5 m)
GPS & Glonass Option:		RG-174, 15 ft (4.5 m)
Data Modem:		SMA Plug (Male)
VSWR*	2:1 max over range	Threaded metal stud 3/4" dia. x 1/2" long (1.9 cm x 1.3 cm) for 1/4" (6 mm) thick metal; supplied with gasket and nut
Nominal Impedance	50 Ohm	Magnet
Power	10 Watts	Operating Temp: -40° to +80° C
GPS:		Shock & Vibration: IEEE1478, EN 61373, MIL-810G TIA 329.2-C
Noise Figure	2.0 dB max, 1.7 dB typical	Dust/Water Ingress: IP67
Amplifier Bias	2.7 to 5 VDC	
Amplifier Current	20 mA, 10 mA typical	
Case:	4.2"D x 3.2"H (10.7 cm x 8.1 cm) add 1/2" (1.3 cm) for mag base	
Case Material:		
Cable:		
Cable 1 & 2		
Cable 3 (GPS)		
Connectors:		
Surface Mounting:		
MGW Mounting:		
Operating Temp:		
Shock & Vibration:		
Dust/Water Ingress:		