



## Surface Mount Multiband Cellular, LTE 700 MHz, WiFi & GPS

- Model SMW-305: 3 cable feed multiband
- Covers GPS, Cellular/LTE/AWS, WiFi Public Safety 4.9 & DSRC 5.9 GHz
- 3 antennas in 1 radome; saves time and money by reducing the number of installations
- 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.

This antenna is truly ready for any 4G 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 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, 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).

**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  
MGW-305-3C3A2C-BLK-120

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	B	Mini UHF	BLK	Black
3	RF-195	C	SMA		
		D	SMB		
		E	MCX		

(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" (1.3 cm) for mag base
Cable 1	694-894 MHz, 2 dBi 1650-2700 MHz, 5 dBi	<b>Case Material:</b>	White or Black UV resistant ASA
Cable 2	2.4 & 4.9-6.0 GHz, 5 dBi	<b>Cable:</b>	
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP, Antenna	Cable 1 & 2	Separate RF-195, 15 ft (4.5 meters)
<b>Data Modem:</b>		Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)
VSWR	2:1 max over range	<b>Connectors:</b>	SMA Plug (Male)
Nominal Impedance	50 ohms	<b>Mounting:</b>	Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13 mm) for 1/4" (6 mm) thick metal; supplied with gasket and nut
Power	700 MHz: 30 Watts, 800-6.0: 10 Watts	<b>Operating Temp:</b>	-40 to +85 ° C
<b>GPS:</b>		<b>Shock &amp; Vibration:</b>	IEEE1478, EN 61373, MIL-810G TIA 329.2-C
Noise Figure	2.0 dB max, 1.7 dB typical	<b>Dust/Water Ingress:</b>	IP67
Amplifier Bias	2.7 to 5 VDC		
Amplifier Current	20 mA, 10 mA typical		
<b>GPS &amp; Glonass Option:</b>	1575 MHz & 1612 MHz		