



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.

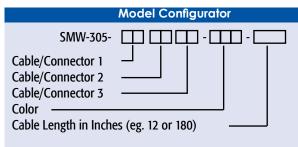
In additional to covering all of the cellular bands on the first antenna element, the antenna also covers 2.4/5 dual-band WiFi on the second antenna element. Alternatively, the second element can be used for other specialized applications such as: Public Safety coverage at 4.9 GHz, or DSRC at 5.9 GHz.

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).

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)



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:	
<u>Code</u>	<u>Cable</u>	<u>Code</u>	Connector	<u>Code</u>	<u>Color</u>
1	RG-58	Α	TNC	WHT	White
2	RG-174	В	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
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
GPS & Glonass Option:	1575 MHz & 1602 MHz
Data Modem:	
VSWR*	2:1 max over range
Nominal Inpedance	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
Case:	4.2"D x 3.2"H (10.7 cm x 8.1 cn

Case Material: Cable:	White or Black UV resistant ASA
Cable 1 & 2	Separate Low Loss-195,15 ft (4.5 m)
Cable 3 (GPS)	RG-174, 15 ft (4.5 m)
Connectors:	SMA Plug (Male)
Surface Mounting:	Threaded metal stud
	¾" dia. x ½" long
	(1.9 cm x 1.3 cm) for 1/4" (6 mm)
	thick metal; supplied with
	gasket and nut
MGW Mounting:	Magnet
Operating Temp:	-40° to +80° C
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G
	TIA 329.2-C
Dust/Water Ingress:	IP67

add 1/2" (1.3 cm) for mag base