



(MGW Series)



(Black optional)

The SMW-305 Series Antenna has three separate RF cable feeds and will most typically be used for GPS, Cellular/LTE/AWS (700/850/1700/1900/2100 MHz) and dual 2.4/5.0 WiFi. Bandwidth coverage is 694-894 MHz & 1.7-2.7 GHz on the first cable, 2.4 & 4.9-6.0 GHz on the second cable, and 1575 MHz for GPS on the third.

Other specialized applications are possible with this model. For example, this SMW-305 antenna could be used to provide Public Safety coverage at both 700 MHz and 4.9 GHz. Or, the antenna could be used for Smart Highway applications with DSRC at 5.9 GHz.

The antennas can be mounted to any vehicle, cargo container or trailer. The stud mount design uses a ¾" feed thru (19mm) for securing to the vehicle.

## Surface Mount Multiband Cellular/LTE, WiFi & GPS

- Multiband; covers GPS, Cellular/LTE/AWS, WiFi, Public Safety 4.9 & DSRC 5.9 GHz
- 3 separate cable feeds
- Mounts easily to roof, trunk or bulkhead
- GPS with 26 dB active amplifier

Access to the underside of the body surface is required to complete the installation. For best performance, the antenna should be mounted on a metal surface or ground-plane.

For the GPS interface, the antennas are typically outfitted with 15 feet of RG-174 cable (4.5 meters). The two communications cables are 15 feet of low loss RF-195. All connectors are male unless requested otherwise.

The antennas are enclosed in a 4.2"D x 3.2"H weather-proof radome (107 mm x 81 mm), and supplied with all mounting hardware and sealing gasket. The radome color is white with optional black.

This antenna is also available as a Magnet Mount, with all the same performance characteristics.

Antenna Model Configurator	SMW-000-00-0		MW-305-3A3A2C · MGW-305-3A3A2C
Combo Configuration			
<u>Code</u> <u>Description</u>	Cable #1	Cable #2	GPS Interface
SMW-305 Cable 1 = 694-894 MHz	Code Description	Code Description	Code Description
& 1.7-2.7 GHz	3A RF-195/TNC	3A RF-195/TNC	2C RG-174/SMA
Cable 2 = 2.4 & 4.9-6.0 GHz	3B RF-195/MiniUHF	3B RF-195/MiniUHF	2D RG-174/SMB
Cable 3 = GPS	3C RF-195/SMA	3C RF-195/SMA	2E RG-174/MCX
	3J RF-195/RevPol SMA	3J RF-195/RevPol SMA	2F RG-174/MMCX
Note: For Mag mount, substitute MGW	3K RF-195/RevPol TNC	3K RF-195/RevPol TNC	2H RG-174/Fakra
for SMW in model			2L RG-174/SMC

Cable 2 = Cable 3 = Note: For Mag mount, s		3B 3C 3J 3K	RF-195/MiniUHF RF-195/SMA RF-195/RevPol SMA RF-195/RevPol TNC	3B 3C 3J 3K	RF-195/MiniUHF RF-195/SMA RF-195/RevPol SMA RF-195/RevPol TNC	2D 2E 2F 2H 2L	RG-174/SMB RG-174/MCX RG-174/MMCX RG-174/Fakra RG-174/SMC
Specifications							
Frequency & Gain: Cable 1	694-894 MHz, 3 dBi 1.7-2.7 GHz, 5 dBi		Case:  Case Material:		4.2"D x 3.2"H (107 m add ½" (1.3 cm) heigh White ASA standard,	nt for m	nag base
Cable 2 Cable 3 (GPS)	2.4 & 4.9-6.0 GHz, 5 1575.42 +/- 2 MHz 26dB, LNA	5 dBi	SMW Mounting	j:	Threaded metal stud (19 mm x 13 mm) for metal; supplied with g	¾" dia ¼" (6 m	x ½" long nm) thick
Data Modem: VSWR Nominal Impedance Power GPS: Noise Figure Amplifier Bias	5 dBi nominal RHCF 2:1 max over range 50 ohms 20 Watts 2.0 dB max, 1.7 dB to 5 VDC		Cable 1 & 2  Cable 3 (GPS)  MGW Cable:  Operating Tem  Shock & Vibrat	p:	Separate RF-195 cab 15 ft (4.5 meters) RG-174, 15 ft (4.5 me Same as above, 10 ft -40 to +85 ° C IEEE1478, EN61373, TIA 329.2-C	eters) (3 met	
Amplifier Current	20 mA max, 10 mA	typical	Water Ingress:		SMW:IPx7, MGW:IPx	5	