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The SMW-303 Series Antenna provides multiband coverage on WiFi at 2.4 & 5 GHz, Public Safety at 4.9 GHz, Military at 4.4 GHz, DSRC at 5.9 GHz and GPS. The antenna is configured with 3 cables: one for GPS and the other two for the modems.

This surface mount multiband antenna mounts easily to a roof, trunk or bulkhead. The stud mount design uses a ³/₄" diameter feed thru (1.9 cm) for securing to the vehicle.

The data cables are 15 feet of Low Loss -195 (4.5 m). GPS cable is 15 feet of RF-174 (4.5m). All connectors are male unless otherwise requested.

For best performance, the antenna should be mounted on a metal surface or ground plane. A Mag-mount version is available with the same performance specs.

The antennas are enclosed in a 4.2"D x 3.2"H weatherproof ASA radome (10.7 cm x 8.1 cm) and supplied with all mounting hardware and a sealing gasket. The SMW Series is extremely weather resistant and rated IP67 for Dust and Water Ingress. The antennas have also passed industrial and military shock and vibration testing.

SMW-303 multiband, 3-cable DSRC or WiFi MIMO & GPS

- Popular choice for DSRC trials
- Covers GPS, WiFi, Public Safety 4.9 & Military 4.4 GHz
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)

Model Configurator						
SMW-303- Cable/Connector 1 Cable/Connector 2 Cable/Connector 3 Cab						
Color Cable Length in Inches (eg. 12 or 180)						

Example: SMW-303-3C3C2C-WHT-180 (surface mount) MGW-303-3C3C2C-BLK-180 (mag mount)

Specify "SMWG" or "MGWG" instead of "SMW" or "MGW" for GPS/Glonass combination antenna.

Cable Options:		<u>Connec</u>	tor 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	С	SMA		

(Other Configurations available.)

Specifications			
Frequency & Gain (peak):		Cable:	
Cable 1	2.4-2.5 & 4.9-6.0 GHz, 5 dBi	Cable 1 & 2	Separate Low Loss-195,15 ft
Cable 2	2.1-2.5 & 4.4-6.0 GHz, 5 dBi		(4.5 m)
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB	Cable 3 (GPS)	RG-174, 15 ft (4.5 m)
	5 dBi nominal RHCP, Antenna		
GPS & Glonass Option:	1575 MHz & 1602 MHz	Connectors:	SMA Plug (Male)
Data Modem:		Surface Mounting:	Threaded metal stud
VSWR	2:1 max over range		³ /4" dia. x ¹ /2" long
Nominal Inpedance	50 Ohm		(1.9 cm x 1.3 cm) for
Power	10 Watts		1/4" (6 mm) thick metal;
GPS:			supplied with gasket and nut
Noise Figure	2.0 dB max, 1.7 dB typica	MGW Mounting:	Magnet
Amplifier Bias	2.7 to 5 VDC	Operating Temp:	-40° to +80° C
Amplifier Current	20 mA, 10 mA typical		
Case Dimensions:	4.2"D x 3.2"H (10.7 cm x 8.1 cm)	Shock & Vibration:	IEEE1478, EN 61373,
	add 1/2" (1.3 cm) for mag base		MIL-810G, TIA 329.2-C
		Dust/Water Ingress:	IP67
Case Material:	White or Black UV resistant ASA	*Measure	ed on 1'(30cm) ground with 1'(30cm) cable