



The SMW-302 Series Antenna has three separate RF cable feeds and will cover GSM/CDMA systems, WiMAX 2.5 or Diversity GSM.

The first cellular element is the broadband element found in other SMW antennas and covers 800-1250 & 1650-2700 MHz. The second element covers 1.7-2.7 GHz and 1575 MHZ for GPS on the third element.

The Cellular and WiMAX cables are 15 feet of low-loss RF-195 (4.5 meters). GPS cable is 15 feet of RF-174. All connectors are male unless otherwise requested.

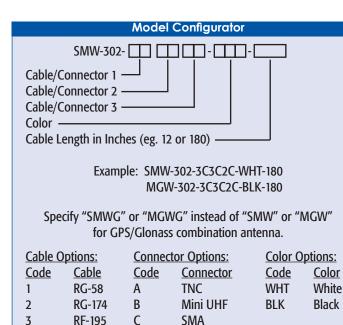
This surface mount multiband antenna mounts easily to a roof, trunk or bulkhead. The stud mount design uses a 3/4" feed thru (19mm) for securing to the vehicle.

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 (107 mm x 81 mm) 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.

SMW-302 multiband, 3-cable Cellular, AWS/UMTS & GPS

- 3 antennas in 1 antenna housing
- Covers GPS, GSM/CDMA systems, WiMAX 2.5 or Diversity GSM
- Saves time and money by reducing the number of installations
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)



D

E

SMB

MCX

(Other Configurations available.)

Specifications			
Frequency & Gain (peak): Cable 1	800-1250 MHz, 3 dBi 1650-2700 MHz, 5 dBi	Case Material: Cable: Cable 1 & 2	White or Black UV resistant ASA
Cable 2	1700-2700 MHz, 5 dBi	Cable 1 & 2	Separate RF-195,15 ft (4.5 meters)
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB	Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)
Data Madama	5 dBi nominal RHCP, Antenna	Connectors:	SMA Plug (Male) standard
Data Modem: VSWR	2:1 max over range	Mounting	Threaded metal stud
Nominal Inpedance	50 ohms	Mounting:	³ / ₄ " dia. x ½" long
Power	10 Watts		(19 mm x 13 mm) for
GPS:	2.0 dP may 1.7 dP typical		1/4" (6 mm) thick metal;
Noise Figure Amplifier Bias	2.0 dB max, 1.7 dB typical 2.7 to 5 VDC	Operating Tomps	supplied with gasket and nut -40 to +85° C
Amplifier Current	20 mA, 10 mA typical	Operating Temp:	-40 t0 +65 C
GPS & Glonass Option:	1575 MHz & 1612 MHz	Shock & Vibration:	IEEE1478, EN 61373,
Case:	4.2"D x 3.2"H (107 mm x 81 mm)		MIL-810G, TIA 329.2-C
	add 1/2" (13 mm) for mag base	Dust/Water Ingress:	IP67