



Surface Mount Multiband GSM/CDMA WiFi, Public Safety & GPS

- Model SMW-402: 4 cable feed multiband
- Covers GPS, Cellular, WiFi & Public Safety 4.9
- 4 antennas in 1 radome; saves time and money by reducing the number of installations

The SMW-402 Series Antenna covers a wide range of applications including all Cellular bands worldwide, WiFi at 2.4 & 5 GHz, AWS at 1.7 & 2.1 GHz, Public Safety at 4.9 GHz, DSRC at 5.9 GHz or GPS. The four cables accommodate four different uses in one installation.

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. The antennas have also passed industrial and military shock and vibration testing.

Model Configurator

SMW-402- -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-402-3C3C3C2C-WHT-180
MGW-402-3C3C3C2C-BLK-120

Specify "SMWG" or "MGWG" 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		

(Other Configurations available.)

Specifications

Frequency & Gain:	
Cable 1	800-1250 MHz, 3 dBi
Cable 2	1650-2700 MHz, 5 dBi
Cable 3	2.4 GHz, 5 dBi
Cable 4 (GPS)	2.4 & 4.9-6.0 GHz, 5 dBi
VSWR:	1575.42 +/- 2 MHz, LNA: 26dB
Nominal Impedance:	5 dBi nominal RHCP
Maximum Power:	20 Watts (max)
GPS	2:1 max over range
Noise Figure:	50 ohms
Amplifier Bias:	20 Watts (max)
Current:	2.0 dB max, 1.7 dB typical
GPS & Glonass Option:	2.7 to 5 VDC
Case:	20 mA max, 10 mA typical
	1575 MHz & 1612 MHz
	4.2"D x 3.2"H (107 mm x 81 mm)
	add 1/2" (1.3 cm) for mag base

Cable:	
Cables 1 - 3	Separate RF-195 15 ft (4.5 meters)
Cable 4	RG-174, 15 ft (4.5 meters)
Connector:	SMA Plug (Male)
Case Material:	White or Black UV resistant ASA
MGW Mounting:	Magnet Mount
SMW Mounting:	Threaded metal stud
	3/4" dia. x 1/2" long
	(19 mm x 13mm) for
	1/4" (6mm) thick metal;
	supplied with gasket and nut
	Other length studs available
Operating Temp:	-40° to +85° C
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G
	TIA 329.2-C
Dust/Water Ingress:	IP67