



Surface Mount Multiband Cellular GPS, AWS, WiFi & WiMAX

- Model SMW-405: 4 cable feed multiband
- Covers GPS, Cellular, AWS, WiFi & WiMAX
- 4 antennas in 1 radome; saves time and money by reducing the number of installations

The SMW-405 Series Antennas features 4 elements in one antenna radome. The unique feature of this model is that it offers two separate GPS elements, each fed with a separate cable and each cable attaching to a separate GPS modem.

One element in the SMW-405 is used for WiFi at 2.4 GHz and the other can be used for applications that fall in the 800 MHz-2.7 GHz range such as Cellular, WiFi at 2.4 GHz, WiMAX at 2.5 GHz and AWS at 1.7 & 2.1 GHz.

For the GPS interfaces, the antennas are typically outfitted with 15 feet of RG-174 cable (4.5 meters). The additional applications are fed with 15 feet of low loss RF-195. All connectors are plug (male) unless requested otherwise.

The antennas can be mounted through a 3/4-inch hole (19 mm) to any vehicle, cargo container or trailer. For best performance, the antenna should be mounted on a metal surface or ground plane. The antenna is also available as a mag-mount.

Model Configurator

SMW-405- -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-405-3C3C3C2C-WHT-180
MGW-405-3C3C3C2C-BLK-120

Specify "SMWVG" or "MGWVG" 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		
		E	MCX		

(Other Configurations available.)

Specifications

Frequency & Gain:	
Cable 1	800-1250, 3 dBi
Cable 2	1650-2700, 5 dBi
Cables 3 & 4 (GPS)	2.4-2.5 GHz, 5 dBi (peak)
	1575.42 +/- 2 MHz, LNA: 26dB
VSWR:	5 dBi nominal RHCP
Nominal Impedance:	2:1 max over range
Maximum Power:	50 ohms
GPS	20 Watts (max)
Amplifier Bias:	2.7 to 5 VDC
Noise Figure:	2.0 dB max, 1.7 dB typical
Current:	20 mA max, 10 mA typical
GPS & Glonass Option:	1575 MHz & 1612 MHz
Case:	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