



Surface Mount Multiband MIMO WiFi, Public Safety 4.9 & GPS

- Model SMW-410: 4 cable feed multiband
- Covers GPS, MIMO WiFi, 2.4/5.0 GHz, Military 4.4 or Public Safety 4.9 GHz
- 4 antennas in 1 radome; saves time and money by reducing the number of installations

The SMW-410 Series Antennas features 4 elements in one antenna radome. The unique feature of this model is that it offers two identical high gain elements covering 2.4 GHz & 4.9-6.0 GHz. Of the remaining two elements in the SMW-410, one is used for GPS at 1575 MHz and the other covers 2.1-2.5 GHz & 4.4-6.0 GHz. All three elements offer an impressive 5 dBi gain.

This antenna is designed for applications that combine GPS with 2-cable or 3-cable MIMO WiFi, Public Safety at 4.9 GHz or Military at 4.4 GHz.

For the GPS interface, the antennas are outfitted with 15 feet (4.5 meters) of RF-174 cable. The remaining three elements are fed with 15 feet (4.5 meters) or low loss RF-195 cable.

The antenna is housed in an impact resistant radome made from ASA. It has been rated for shock and vibration as well as water ingress and will stand up to harsh weather or to rough treatment.

The antenna can be ordered as a surface mount antenna or as a mag-mount antenna.

Model Configurator

SMW-410- -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-410-3C3C3C2C-WHT-180
MGW-410-3C3C3C2C-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		
4	RG-188	D	SMB		
7	LMR-100	E	MCX		

(Other Configurations available.)

Specifications

Frequency & Gain:	
Cable 1	2.1-2.5 & 4.4-6.0 GHz, 5 dBi
Cable 2	2.4 & 4.9-6.0 GHz, 5 dBi
Cable 3	2.4 & 4.9-6.0 GHz, 5 dBi
Cable 4 (GPS)	1575.42 +/- 2 MHz, LNA: 26dB
	5 dBi nominal RHCP
VSWR:	2:1 max over range
Nominal Impedance:	50 ohms
Maximum Power:	20 Watts (max)
GPS	
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

Case Material:	White or Black UV resistant ASA
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)
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