



SMW-406 multiband, 4-cable Cellular, AWS, WiFi, WiMAX, Public Safety & GPS

- 4 antennas in 1 antenna housing
- Covers GPS, Cellular, AWS, WiFi, WiMAX, Military 4.4 GHz & Public Safety 4.9 GHz
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series))

The SMW-406 Series Antennas covers an extremely wide range of applications including most Cellular bands worldwide, WiFi at 2.4 & 5 GHz, WiMAX at 2.5 GHz, AWS at 1.7-2.1 GHz, Public Safety at 4.9 GHz, Military at 4.4 GHz, DSRC at 5.9 GHz and GPS.

The specification table below calls out the exact frequencies covered on each cable. While a broad range of coverage means a variety of applications can be covered, there is also some overlap among the elements such that WiFi at 2.4 GHz could be covered on all three elements.

The SMW Series antennas have passed Shock & Vibration standards we well as achieving a Dust and Water Ingress rating of IP67. The SMW surface mount mounts easily to a roof, truck or bulkhead.

The antenna is also available as a mag-mount and can be identified as the MGW Series.

Both the surface mount antennas and the mag mount antennas are available in either black or white radome. The antennas can also be configured for combined GPS & Glonass use.

Model Configurator

SMW-406- - -

Cable/Connector 1			
Cable/Connector 2			
Cable/Connector 3			
Cable/Connector 4			
Color			
Cable Length in Inches (eg. 12 or 180)			

Example: SMW-406-3C3C3C2C-WHT-180
MGW-406-3C3C3C2C-BLK-180

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		
		E	MCX		

(Other Configurations available.)

Specifications			
Frequency & Gain (peak):			
Cable 1	800-1250 MHz, 3 dBi	Cable:	
Cable 2	1650-2700 MHz, 5 dBi	Cables 1 - 3	Separate RF-195 15 ft (4.5 meters)
Cable 3	1.7-2.7 GHz, 5 dBi	Cable 4	RG-174, 15 ft (4.5 meters)
Cable 4 (GPS)	2.1-2.5 & 4.4-6.0 GHz 5 dBi	Connector:	SMA Plug (Male) standard
VSWR:	2:1 max over range	Case Material:	White or Black UV resistant ASA
Nominal Impedance:	50 ohms	MGW Mounting:	Magnet Mount
Maximum Power:	10 Watts	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 & nut; other stud lengths available
GPS		Operating Temp:	-40° to +80° C
Amplifier Bias:	2.7 to 5 VDC	Shock & Vibration:	IEEE1478, EN 61373, MIL-810G, TIA 329.2-C
Noise Figure:	2.0 dB max, 1.7 dB typical	Dust/Water Ingress:	IP67
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" (13 mm) for mag base		