



## SMW-415 multiband, 4-cable Cellular, WiFi & 2xGPS

- 4 antennas in 1 antenna housing
- Covers GPS, 700 MHz LTE, AWS, WiFi, & Public Safety 4.9 GHz
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)

The SMW-415 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.

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-195 cable (4.5 meters). All connectors are plug (male) unless requested otherwise.

In addition to covering the GPS or GPS/Glonass frequency on cables 3 & 4, the antenna covers 694-960 MHz & 1710-2700 MHz on Cable 1 and 2.4 & 4.9-6.0 GHz dual-band WiFi on Cable 2. Other specialized applications are possible, e.g. Public Safety coverage at 700 MHz & 4.9 GHz, or DSRC at 5.9 GHz.

The antenna is enclosed in a 4.2"D x 3.2"H (107 mm x 81 mm) weatherproof radome, and supplied with all mounting hardware and a sealing gasket.

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

**Model Configurator**

SMW-415-     -   -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-415-3C3C2C2C-WHT-180  
 MGW-415-3C3C2C2C-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
2	RG-174	A	TNC	WHT	White
3	LL-195	B	Mini UHF	BLK	Black
		C	SMA		
		D	SMB		

(Other Configurations available.)

Specifications		
Frequency & Gain*: Cable 1	694-960 MHz, 3 dBi & 1.7-2.7 GHz, 5 dBi	Cable:
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi	Cables 1 & 2
Cable 3 & 4 (GPS)	1575.42 +/- 2 MHz, LNA: 26dB 5 dBi nominal RHCP	Cables 3 & 4
GPS & Glonass Option:	1575 MHz & 1612 MHz	Connector:
VSWR*:	2:1 max over range	SMA Plug (Male)
Nominal Impedance:	50 ohms	Case Material:
Maximum Power:	10 Watts	White or Black UV resistant ASA
GPS Amplifier Bias:	2.7 to 5 VDC	MGW Mounting:
GPS Noise Figure:	2.0 dB max, 1.7 dB typical	Magnet Mount
GPS Current:	20 mA max, 10 mA typical	SMW Mounting:
Case:	4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (13 mm) to height for mag base	Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13mm) for 1/4" (6 mm) thick metal; supplied with gasket & nut; other stud lengths available
		Operating Temp:
		Shock & Vibration:
		Dust/Water Ingress:
		-40° to +80° C
		IEEE1478, EN 61373, MIL-810G
		TIA 329.2-C
		IP67
		*Measured on 1'(30cm) ground with 1'(30cm) cable