



## SMW-412 multiband, 4-cable LTE 700 MHz, AWS, WiFi & GPS

- 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-412 Series Antennas features 4 elements in one antenna radome. The unique feature of this model is that the cellular element (Cable 1) is extremely widebanded and can cover: LTE at 700 MHz as well as the established 850/1900 GSM/CDMA bands, 1.7/2.1 AWS bands and WiMAX 2.5 all on a single board.

This antenna is truly ready for any 4G rollout but is also compatible with earlier generation such as GPRS. See the spec table below for exact frequencies covered on each cable.

In addition to covering all of the cellular bands on Cable 1, the antenna also covers 2.4/5 dual-band WiFi on Cables 2 & 3. Other specialized applications are possible, e.g. Public Safety coverage at 700 MHz & 4.9 GHz, Military at 4.4 GHz or DSRC at 5.9 GHz.

The antenna is enclosed in a 4.2"D x 3.2"H (10.7 cm x 8.1 cm) 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 models. The antennas can also be configured for combined GPS & Glonass use.

**Model Configurator**

SMW-412-     -   -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-412-3C3C3C2C-WHT-180  
 MGW-412-3C3C3C2C-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	LL-195	C	SMA		
		J	RP SMA		

(Other Configurations available.)

Specifications	
Frequency & Gain*: Cable 1	694-894 MHz, 3 dBi & 1.7-2.7 GHz, 5 dBi
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi
Cable 3	2.1-2.5 & 4.4-6.0 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 Ohm
Maximum Power:	10 Watts
GPS Amplifier Bias:	2.7 to 5 VDC
GPS Noise Figure:	2.0 dB max, 1.7 dB typical
GPS Current:	20 mA max, 10 mA typical
GPS & Glonass Option:	1575 MHz & 1602 MHz
Case:	4.2"D x 3.2"H (10.7 cm x 8.1 cm) add 1/2" (1.3 cm) for mag base
Cable:	Cables 1 - 3 Separate LL-195 15 ft (4.5 m) Cable 4 RG-174, 15 ft (4.5 m)
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 (1.9 cm x 1.3 cm) for 1/4" (6 mm) thick metal; supplied with gasket & nut; other stud lengths available
Operating Temp:	-40° to +80° C
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G TIA 329.2-C
Dust/Water Ingress:	IP67