



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.

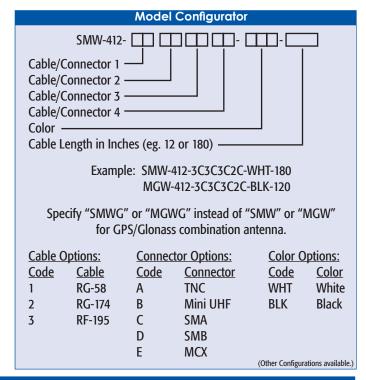
In additional to covering all of the cellular bands on Cable 1, the antenna also covers 2.4/5 dual-band WiFi on Cables 2 & 3. Other specialized applications are possible, e.g. Public Safety coverage at 700 MHz & 4.9 GHz, Military at 4.4 GHz or DSRC at 5.9 GHz.

The antenna is enclosed in a 4.2"D x 3.2"H (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.

## Surface Mount Multi-band LTE 700 MHz, AWS, WiFi & GPS

- Model SMW-412: 4 cable feed multiband
- Covers GPS, 700 MHz LTE, AWS, WiFi, & Public Safety 4.9 GHz
- 4 antennas in 1 radome; saves time and money by reducing the number of installations
- Available in either surface mount (SMW Series) or mag mount (MGW Series).



Specifications			
Frequency & Gain:		Cable:	
Cable 1	694-894 MHz, 3 dBi & 1.7-2.7 GHz, 5 dBi	Cables 1 - 3 Cable 4	Separate RF-195 15 ft (4.5 meters) RG-174, 15 ft (4.5 meters)
Cable 2	2.4 GHz 5 dBi; 4.9-6.0 GHz, 5 dBi	Connector:	SMA Plug (Male)
Cable 3	2.1-2.5 GHz, 5 dBi; 4.4-6.0 GHz, 5 dBi	Case Material: MGW Mounting:	White or Black UV resistant ASA Magnet Mount
Cable 4 (GPS)	1575.42 +/- 2 MHz, LNA: 26dB 5 dBi nominal RHCP	SMW Mounting:	Threaded metal stud
VSWR: Noise Figure: Nominal Impedance: Amplifier Bias: Maximum Power:	2:1 max over range 2.0 dB max, 1.7 dB typical 50 ohms 2.7 to 5 VDC 20 Watts (max)		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
Current: Case:	20 mA max, 10 mA typical 4.2"D x 3.2"H (107 mm x 81 mm) add ½" (1.3 cm) to height for mag base	Operating Temp: Shock &Vibration:  Dust/Water Ingress:	-40° to +85° C IEEE1478, EN 61373, MIL-810G TIA 329.2-C SMW:IP67, MGW:IPx5