



SMW-414 multiband, 4-cable Global Cellular/LTE, WiFi & GPS

- 4 antennas in 1 antenna housing
- Covers GPS, all Cellular/LTE frequencies worldwide & two separate WiFi elements
- Combined GPS/Glonass antenna element available

The SMW-414 Series antennas features 4 antenna elements in one radome. The unique feature of this model is that the cellular element (Cable 1) is extremely widebanded and can cover the traditional GSM/CDMA frequencies, 700 MHz LTE, 1.7 & 2.1 GHz AWS/UMTS and LTE/WiMAX at 2.5 or 3.7 GHz, all on a single board.

This antenna is truly ready for any 4G or 5G 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 global cellular bands on Cable 1, the antenna also covers 2.4/5 dual-band WiFi on Cables 2 & 3. This can be used for two separate WiFi modems or for a WiFi MIMO modem.

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 models. The antennas can also be configured for combined GPS & Glonass use.

Model Configurator

SMW-414- - -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 120 or 180)

Example: SMW-414-3C3C3C2C-WHT-180
 MGW-414-3C3C3C2C-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	Rev Pol SMA		

(Other Configurations available.)

Specifications			
Frequency & Gain*:			
Cable 1	694-960 MHz, 3 dBi 1710-3700 MHz, 4 dBi	Cable:	
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi	Cables 1 - 3	Separate LL-195 15 ft (4.5 meters)
Cable 3	2.1-2.5 & 4.4-6.0 GHz, 5 dBi	Cable 4	RG-174, 15 ft (4.5 meters)
Cable 4 (GPS)	1575.42 +/- 2 MHz, LNA: 26dB 5 dBi nominal RHCP	Connector:	SMA Plug (Male)
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 (max)	SMW Mounting:	Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13 mm) for 1/4"(6 mm) thick metal; supplied with gasket & nut; other length studs available
GPS Amplifier Bias:	2.7 to 5 VDC	Operating Temp:	-40° to +80° C
GPS Noise Figure:	2.0 dB max, 1.7 dB typical	Shock &Vibration:	IEEE1478, EN 61373, MIL-810G TIA 329.2-C
GPS Current:	20 mA max, 10 mA typical	Dust/Water Ingress:	IP67
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		

*Measured on 1'(30cm) ground with 1'(30cm) cable