



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
- Available in either Surface-mount (SMW Series) or Mag-mount (MGW Series)

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 "SMWGC" or "MGWGC" 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		
		J	Rev Pol SMA		

(Other Configurations available.)

Specifications

Frequency & Gain*:	
Cable 1	694-960 MHz, 3 dBi 1710-3700 MHz, 4 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 ohms
Maximum Power:	10 Watts (max)
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 & 1612 MHz
Case:	4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (13 mm) for mag base

Cable:	
Cables 1 - 3	Separate RF-195 15 ft (4.5 meters)
Cable 4	RG-174, 15 ft (4.5 meters)
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 (19 mm x 13 mm) for 1/4" (6 mm) thick metal; supplied with gasket & nut; other length studs available
Operating Temp:	-40° to +80° C
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G TIA 329.2-C
Dust/Water Ingress:	IP67

*Measured on 1' ground with 1' cable