



SMW-312 Super Wideband, 3-cable Cellular/LTE, WiFi & GPS

- 3 antennas in 1 antenna housing
- Covers 694-960 MHz & 1710-6000 MHz, 2.4 & 4.9-6.0 GHz, and GPS
- Available in either Surface-mount or Mag-mount

The SMW-312 Series antenna features 3 antenna elements in one radome. The unique feature of this model is that Cable 1 is extremely widebanded and can cover 694-960 & 1710-6000 MHz all on a single connection.

See the spec table below for exact frequencies covered on each cable.

In addition to covering all Cellular & LTE bands worldwide on the first antenna element, the antenna also covers 2.4/5 GHz dual-band WiFi on the second antenna element. Alternatively, the second element can be used for other specialized applications such as: Public Safety coverage at 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.

The antenna is available in either surface mount (SMW Series) or mag mount (MGW Series). The antennas can also be built with combined GPS & Glonass.

Model Configurator

SMW-312- [] [] [] - [] [] [] - []

Cable/Connector 1 []
 Cable/Connector 2 []
 Cable/Connector 3 []
 Color []
 Cable Length in Inches (eg. 12 or 180) []

Example: SMW-312-3C3C2C-WHT-180
 MGW-312-3C3C2C-BLK-180

Specify "SMWGW" or "MGWGW" 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	C	SMA	BLK	Black
3	RF-195	D	SMB		
		J	RP SMA		

(Other Configurations available.)

Specifications	
Frequency & Gain:	
Cable 1	694-960 MHz, 3 dBi 1710-6000 MHz, 5 dBi
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi
Cable 3 (GPS)	1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP, Antenna
Data Modem:	
VSWR	<2:1 max over range
Nominal Impedance	50 ohms
Power	10 Watts
GPS:	
Gain	26 dB, 5 dBi antenna
Voltage	3.3/5 VDC
Amplifier Current	20 mA, 10 mA typical
GPS Option:	1575.42 MHz +/- 2 MHz
Operating Temp:	-30° to +80° C
Case:	4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (13 mm) for mag base
Case Material:	White or Black UV resistant ASA
Cable:	
Cable 1 & 2	Separate RF-195, 15 ft (4.5 meters)
Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)
Connectors:	SMA Plug (Male)
MGW Mounting:	Magnet Mount
SMW Mounting:	Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13mm) for 1/4" (6mm) thick metal; supplied with gasket & nut; other stud lengths available
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G, TIA 329.2-C
Dust/Water Ingress:	IP67