



The SMW-306 Series Antennas accommodates higher frequency applications. Bandwidth coverage is 2.4-2.5 GHz on the first element, 3.0-6.0 GHz on the second element and GPS on the third.

The SMW-306 antenna could be used for Public Safety applications with Wireless video at 2.4 GHz and Mesh Networking at 4.9 GHz. It could also be used for Smart Highway applications with WiFi at 2.4 GHz and DSRC at 5.9 GHz, or for Military applications that combine WiFi 2.4 GHz with the Military 4.4 GHz band.

The SMW Series antennas have passed Shock & Vibration standards as well as achieving a Dust and Water Ingress rating of IP67. The SMW surface mount mounts easily to roof, truck or bulkhead.

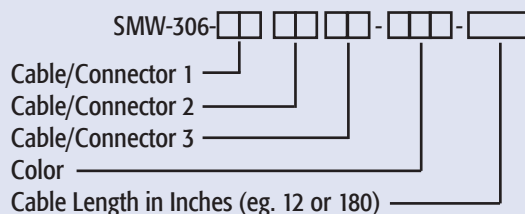
The antenna is enclosed in a 4.2"D x 3.2"H (107 mm x 81 mm) weatherproof radome, and supplied with all mounting hardware and a sealing gasket.

The antenna is also available as a mag-mount and can be identified as the MGW Series. Both the surface mount antennas and the mag mount antennas are available in either black or white.

## SMW-306 multiband, 3-cable WiFi, WiMAX & GPS

- 3 antennas in 1 antenna housing
- Covers GPS, WiFi 2.4, WiMAX 3.5, Military 4.4 & Public Safety 4.9 GHz
- Saves time and money by reducing the number of installations
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)

### Model Configurator



Example: SMW-306-3C3C2C-WHT-180  
MGW-306-3C3C2C-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	B	Mini UHF	BLK	Black
3	RF-195	C	SMA		
		E	MCX		

(Other Configurations available.)

### Specifications

#### Frequency & Gain (peak):

Cable 1	2.4-2.5 GHz, 5 dBi
Cable 2	3.0-6.0 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:

Noise Figure	2.0 dB max, 1.7 dB typical
Amplifier Bias	2.7 to 5 VDC
Amplifier Current	20 mA, 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

#### Case Material:

White or Black UV resistant ASA

#### Cable:

Cable 1 & 2  
Cable 3 (GPS)

#### Connectors:

#### Mounting:

#### Operating Temp:

#### Shock & Vibration:

#### Dust/Water Ingress:

Separate RF-195, 15 ft (4.5 meters)  
RG-174, 15 ft (4.5 meters)  
SMA Plug (Male) standard

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 and nut

-40° to +80° C  
IEEE1478, EN 61373,  
MIL-810G, TIA 329.2-C  
IP67