



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

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.

Model Configurator

SMW-306- - -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-306-3C3C2C-WHT-180
 MGW-306-3C3C2C-BLK-180

Specify "SMWG" or "MGWG" instead of "SMW" or "MGW" for GPS/Glonass combination antenna.

<p><u>Cable Options:</u></p> <table border="0"> <tr> <th>Code</th> <th>Cable</th> </tr> <tr> <td>1</td> <td>RG-58</td> </tr> <tr> <td>2</td> <td>RG-174</td> </tr> <tr> <td>3</td> <td>RF-195</td> </tr> </table>	Code	Cable	1	RG-58	2	RG-174	3	RF-195	<p><u>Connector Options:</u></p> <table border="0"> <tr> <th>Code</th> <th>Connector</th> </tr> <tr> <td>A</td> <td>TNC</td> </tr> <tr> <td>B</td> <td>Mini UHF</td> </tr> <tr> <td>C</td> <td>SMA</td> </tr> <tr> <td>E</td> <td>MCX</td> </tr> </table>	Code	Connector	A	TNC	B	Mini UHF	C	SMA	E	MCX	<p><u>Color Options:</u></p> <table border="0"> <tr> <th>Code</th> <th>Color</th> </tr> <tr> <td>WHT</td> <td>White</td> </tr> <tr> <td>BLK</td> <td>Black</td> </tr> </table>	Code	Color	WHT	White	BLK	Black
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(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	Separate RF-195, 15 ft (4.5 meters)
Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)
Connectors:	SMA Plug (Male) standard
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 and nut
Operating Temp:	-40° to +80° C
Shock & Vibration:	IEEE1478, EN 61373, MIL-810G, TIA 329.2-C
Dust/Water Ingress:	IP67