



SMW-410 multiband, 4-cable MIMO WiFi, & GPS

- 4 antennas in 1 antenna housing
- Covers GPS, WiFi 2.4/5.0 GHz, Military 4.4 or Public Safety 4.9 GHz
- Three WiFi elements can be used for WiFi MIMO or for separate WiFi modems
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)

The SMW-410 Series Antennas features 4 elements in one antenna radome. The unique feature of this model is that it offers two identical high gain elements covering 2.4 GHz & 4.9-6.0 GHz. Of the remaining two elements in the SMW-410, one is used for GPS at 1575 MHz and the other covers 2.1-2.5 GHz & 4.4-6.0 GHz. All three elements offer an impressive 5 dBi gain.

This antenna is designed for applications that combine GPS with 2-cable or 3-cable MIMO WiFi, Public Safety at 4.9 GHz or Military at 4.4 GHz.

For the GPS interface, the antennas are outfitted with 15 feet (4.5 meters) of RF-174 cable. The remaining three elements are fed with 15 feet (4.5 meters) or low loss RF-195 cable.

The antenna is housed in an impact resistant radome made from ASA. It has been rated for shock and vibration as well as water ingress and will stand up to harsh weather or to rough treatment.

The antenna can be ordered as a surface mount antenna or as a mag-mount antenna.

Model Configurator

SMW-410- - -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-410-3C3C3C2C-WHT-180
MGW-410-3C3C3C2C-BLK-180

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

<p>Cable Options:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Cable</th> </tr> </thead> <tbody> <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> <tr><td>4</td><td>RG-188</td></tr> <tr><td>7</td><td>LMR-100</td></tr> </tbody> </table>	Code	Cable	1	RG-58	2	RG-174	3	RF-195	4	RG-188	7	LMR-100	<p>Connector Options:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Connector</th> </tr> </thead> <tbody> <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>D</td><td>SMB</td></tr> <tr><td>J</td><td>RP SMA</td></tr> </tbody> </table>	Code	Connector	A	TNC	B	Mini UHF	C	SMA	D	SMB	J	RP SMA	<p>Color Options:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Color</th> </tr> </thead> <tbody> <tr><td>WHT</td><td>White</td></tr> <tr><td>BLK</td><td>Black</td></tr> </tbody> </table>	Code	Color	WHT	White	BLK	Black
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(Other Configurations available.)

Specifications

<p>Frequency & Gain (peak):</p> <p>Cable 1: 2.1-2.5 & 4.4-6.0 GHz, 5 dBi</p> <p>Cable 2: 2.4-2.5 & 4.9-6.0 GHz, 5 dBi</p> <p>Cable 3: 2.4-2.5 & 4.9-6.0 GHz, 5 dBi</p> <p>Cable 4 (GPS): 1575.42 +/- 2 MHz, LNA: 26dB, 5 dBi nominal RHCP</p> <p>VSWR: 2:1 max over range</p> <p>Nominal Impedance: 50 ohms</p> <p>Maximum Power: 10 Watts</p> <p>GPS</p> <p>Amplifier Bias: 2.7 to 5 VDC</p> <p>Noise Figure: 2.0 dB max, 1.7 dB typical</p> <p>Current: 20 mA max, 10 mA typical</p> <p>GPS & Glonass Option: 1575 MHz & 1612 MHz</p> <p>Case: 4.2"D x 3.2"H (107 mm x 81 mm) add 1/2" (13 mm) for mag base</p>	<p>Case Material: White or Black UV resistant ASA</p> <p>Cable:</p> <p>Cables 1 - 3: Separate RF-195 15 ft (4.5 meters)</p> <p>Cable 4: RG-174, 15 ft (4.5 meters)</p> <p>Connector: SMA Plug (Male)</p> <p>MGW Mounting: Magnet Mount</p> <p>SMW Mounting: Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13mm) for 1/4" (6 mm) thick metal; supplied with gasket & nut; other stud lengths available</p> <p>Operating Temp: -40° to +80° C</p> <p>Shock & Vibration: IEEE1478, EN 61373, MIL-810G, TIA 329.2-C</p> <p>Dust/Water Ingress: IP67</p>	
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