



The SMW-406 Series Antennas covers an extremely wide range of applications including most Cellular bands worldwide, WiFi at 2.4 & 5 GHz, WiMAX at 2.5 GHz, AWS at 1.7-2.1 GHz, Public Safety at 4.9 GHz, Military at 4.4 GHz, DSRC at 5.9 GHz and GPS.

The specification table below calls out the exact frequencies covered on each cable. While a broad range of coverage means a variety of applications can be covered, there is also some overlap among the elements such that WiFi at 2.4 GHz could be covered on all three elements.

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

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 radome.

Surface Mount Multiband Cellular, AWS, WiFi, WiMAX, Public Safety & GPS

- Model SMW-406: 4 cable feed multiband
- Covers GPS, Cellular, AWS, WiFi, WiMAX & Public Safety 4.9
- 4 antennas in 1 radome; saves time and money by reducing the number of installations

Model Configurator

SMW-406- -

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-406-3C3C3C2C-WHT-180
MGW-406-3C3C3C2C-BLK-120

Specify "SMWG" or "MGWG" 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 | | |
| | | D | SMB | | |
| | | E | MCX | | |

(Other Configurations available.)

Specifications

Frequency & Gain:

| | |
|-----------------------|--|
| Cable 1 | 800-1250 MHz, 3 dBi |
| Cable 2 | 1650-2700 MHz, 5 dBi |
| Cable 3 | 1.7-2.7 GHz, 5 dBi |
| Cable 4 (GPS) | 2.1-2.5 & 4.4-6.0 GHz 5 dBi |
| | 1575.42 +/- 2 MHz, LNA: 26dB |
| | 5 dBi nominal RHCP |
| VSWR: | 2:1 max over range |
| Nominal Impedance: | 50 ohms |
| Maximum Power: | 20 Watts (max) |
| GPS | |
| Amplifier Bias: | 2.7 to 5 VDC |
| Noise Figure: | 2.0 dB max, 1.7 dB typical |
| 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" (1.3 cm) 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 13mm) for 1/4" (6mm) thick metal; supplied with gasket and nut |
| Operating Temp: | Other length studs available -40° to +85° C |
| Shock & Vibration: | IEEE1478, EN 61373, MIL-810G, TIA 329.2-C |
| Dust/Water Ingress: | IP67 |