



Surface Mount Multiband WiFi, WiFi Diversity & Public Safety & GPS

- Model SMW-303: 3 cable feed multiband
- Covers GPS, WiFi, Public Safety 4.9 & Military 4.4 GHz
- 3 antennas in 1 radome; saves time and money by reducing the number of installations

The SMW-303 Series Antenna provides multiband coverage on WiFi at 2.4 & 5 GHz, Public Safety at 4.9 GHz, Military at 4.4 GHz and GPS. It can also cover the UMTS band at 2.1 GHz or WiMAX at 2.3 GHz. The antenna is configured with 3 cables: one for GPS and the other two for the modems.

This surface mount multiband antenna mounts easily to a roof, trunk or bulkhead. The stud mount design uses a 3/4" feed thru (19mm) for securing to the vehicle.

The WiFi cables are 15 feet of low-loss RF-195 (4.5 meters). GPS cable is 15 feet of RF-174. All connectors are male unless otherwise requested.

For best performance, the antenna should be mounted on a metal surface or ground plane. A Mag-mount version is available with the same performance specs.

The antennas are enclosed in a 4.2"D x 3.2"H weatherproof ASA radome (107 mm x 81 mm) and supplied with all mounting hardware and a sealing gasket. The SMW Series is extremely weather resistant and rated IP67 for Dust and Water Ingress. The antennas have also passed industrial and military shock and vibration testing.

| Model Configurator | |
|---|------------------------------|
| SMW-303- | <input type="text"/> |
| Cable/Connector 1 | <input type="text"/> |
| Cable/Connector 2 | <input type="text"/> |
| Cable/Connector 3 | <input type="text"/> |
| Color | <input type="text"/> |
| Cable Length in Inches (eg. 12 or 180) | <input type="text"/> |
| Example: SMW-303-3C3C2C-WHT-180 MGW-303-3C3C2C-BLK-120 | |
| Specify "SMWG" or "MGWG" instead of "SMW" or "MGW" for GPS/Glonass combination antenna. | |
| Cable Options: | Connector Options: |
| <u>Code</u> <u>Cable</u> | <u>Code</u> <u>Connector</u> |
| 1 RG-58 | A TNC |
| 2 RG-174 | B Mini UHF |
| 3 RF-195 | C SMA |
| Color Options: | |
| <u>Code</u> <u>Color</u> | |
| WHT White | |
| BLK Black | |
| (Other Configurations available.) | |

Specifications

Frequency & Gain:

| | |
|---------------|--|
| Cable 1 | 2.4 & 4.9-6.0 GHz 5 dBi |
| Cable 2 | 2.1-2.5 & 4.4-6.0 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 typica |
| 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" (1.3 cm) 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)

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 +85° C

Shock & Vibration:

IEEE1478, EN 61373,
MIL-810G, TIA 329.2-C
IP67

Dust/Water Ingress:

IP67