



The SMW-402 Series Antenna covers a wide range of applications including all Cellular bands worldwide, WiFi at 2.4 & 5 GHz, AWS at 1.7 & 2.1 GHz, Public Safety at 4.9 GHz, DSRC at 5.9 GHz or GPS. The four cables accommodate four different uses in one installation.

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.

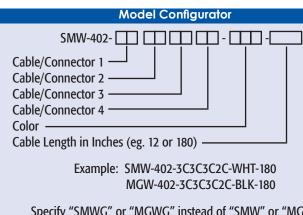
For best performance, the antenna should be mounted on a metal surface or ground plane. A Mag-mount version is available with the same performance specs.

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.

## SMW-402 multiband, 4-cable Cellular, two WiFi & GPS

- 4 antennas in 1 antenna housing
- Covers GPS, Cellular, WiFi & 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)



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

| Cable C     | Cable Options: |             | Connector Options: |                  | Color Options:     |  |
|-------------|----------------|-------------|--------------------|------------------|--------------------|--|
| <u>Code</u> | <u>Cable</u>   | <u>Code</u> | <u>Connector</u>   | <u>Code</u>      | <u>Color</u>       |  |
| 1           | RG-58          | Α           | TNC                | WHT              | White              |  |
| 2           | RG-174         | В           | Mini UHF           | BLK              | Black              |  |
| 3           | RF-195         | C           | SMA                |                  |                    |  |
|             |                | D           | SMB                |                  |                    |  |
|             |                |             |                    | (Other Configura | ations available.) |  |

| Specifications           |  |                     |   |  |  |  |
|--------------------------|--|---------------------|---|--|--|--|
| Frequency & Gain (peak): |  | Cable:              |   |  |  |  |
| Cable 1                  | 800-1250 MHz, 3 dBi<br>1650-2700 MHz, 5 dBi                | Cables 1 - 3        | Separate RF-195 15 ft (4.5 meters)      |  |  |  |
| C-bl- a                  |  | Cable 4             | RG-174, 15 ft (4.5 meters)              |  |  |  |
| Cable 2                  | 2.4-2.5 GHz, 5 dBi   | Connector:          | SMA Plug (Male) standard                |  |  |  |
| Cable 3                  | 2.4-2.5 & 4.9-6.0 GHz, 5 dBi                               | Case Material:      | White or Black UV resistant ASA         |  |  |  |
| Cable 4 (GPS)            | 1575.42 +/- 2 MHz, LNA: 26dB                               | MGW Mounting:       | Magnet Mount                            |  |  |  |
|                          | 5 dBi nominal RHCP   | SMW Mounting:       | Threaded metal stud                     |  |  |  |
| VSWR:                    | 2:1 max over range   | 0                   | 3/4" dia. x 1/2" long                   |  |  |  |
| Nominal Impedance:       | 50 ohms  |                     | (19 mm x 13mm) for                      |  |  |  |
| Maximum Power:           | 10 Watts   |                     | 1/4" (6mm) thick metal;                 |  |  |  |
| GPS                      |  |                     | , |  |  |  |
| Noise Figure:            | 2.0 dB max, 1.7 dB typical                                 |                     | supplied with gasket and nut            |  |  |  |
| Amplifier Bias:          | 2.7 to 5 VDC   |                     | Other length studs available            |  |  |  |
| Current:                 | 20 mA max, 10 mA typical                                   | Operating Temp:     | -40° to +80° C                          |  |  |  |
|                          | 7.1  | Shock &Vibration:   | IEEE1478, EN 61373, MIL-810G            |  |  |  |
| GPS & Glonass Option:    | 1575 MHz & 1612 MHz  |                     | TIA 329.2-C                             |  |  |  |
| Case:                    | 4.2"D x 3.2"H (107 mm x 81 mm) add ½" (13 mm) for mag base | Dust/Water Ingress: | IP67                                    |  |  |  |