



3-Cable
Multiband

Black Case

Mag-Mount

SMW-311 multiband, 3-cable Global Cellular/LTE, WiFi & GPS

- 3 antennas in 1 antenna housing
- Covers all Cellular/LTE frequencies worldwide, WiFi at 2.4/5 GHz & GPS
- Available in either Surface-mount (SMW Series or Mag-mount (MGW Series)

The SMW-311 Series antennas features 3 antenna elements in one radome. The unique feature of this model is that the cellular element (Cable 1) is extremely widebanded and can cover the traditional GSM/CDMA frequencies, 700 MHz LTE, 1.7 & 2.1 GHz AWS/UMTS bands and LTE/WiMAX at 2.5 or 3.7 GHz, all on a single board.

This antenna is truly ready for any 4G or 5G rollout but is also compatible with earlier generation such as GPRS. See the spec table below for exact frequencies covered on each cable.

In addition to covering all Cellular & LTE bands worldwide on the first antenna element, the antenna also covers 2.4/5 GHz dual-band WiFi on the second antenna element. Alternatively, the second element can be used for other specialized applications such as: Public Safety coverage at 4.9 GHz, Military at 4.4 GHz or DSRC at 5.9 GHz.

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 radome is available in either black or white.

The antenna is available in either surface mount (SMW Series) or mag mount (MGW Series). The antennas can also be built with a combined GPS & Glonass antenna.

Model Configurator

SMW-311-----

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-311-3C3C2C-WHT-180
 MGW-311-3C3C2C-BLK-180

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 | C | SMA | BLK | Black |
| 3 | LL-195 | D | SMB | | |
| | | J | RP SMA | | |

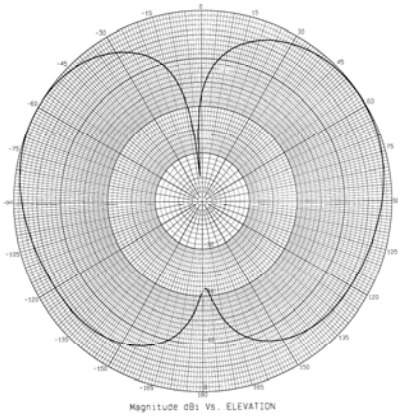
(Other Configurations available.)

| Specifications | |
|---|---|
| <p>Frequency & Gain*:</p> <p>Cable 1 694-960 MHz, 3 dBi 1710-3700 MHz, 4 dBi</p> <p>Cable 2 2.4-2.5 & 4.9-6.0 GHz, 5 dBi</p> <p>Cable 3 (GPS) 1575.42 +/- 2 MHz, LNA 26dB 5 dBi nominal RHCP, Antenna</p> <p>Data Modem:</p> <p>VSWR* 2:1 max over range</p> <p>Nominal Impedance 50 ohms</p> <p>Power 10 Watts</p> <p>GPS:</p> <p>Noise Figure 2.0 dB max, 1.7 dB typical</p> <p>Amplifier Bias 2.7 to 5 VDC</p> <p>Amplifier Current 20 mA, 10 mA typical</p> <p>GPS & Glonass Option: 1575 MHz & 1612 MHz</p> <p>Operating Temp: -40° to +80° C</p> | <p>Case: 4.2"D x 3.2"H (107 mm x 81 mm) add ½" (13 mm) for mag base</p> <p>Case Material: White or Black UV resistant ASA</p> <p>Cable:</p> <p>Cable 1 & 2 Separate LL-195, 15 ft (4.5 meters)</p> <p>Cable 3 (GPS) RG-174, 15 ft (4.5 meters)</p> <p>Connectors: SMA Plug (Male)</p> <p>MGW Mounting: Magnet Mount</p> <p>SMW Mounting: Threaded metal stud ¾" dia. x ½" long (19 mm x 13mm) for ¼" (6mm) thick metal; supplied with gasket & nut; other stud lengths available</p> <p>Shock & Vibration: IEEE1478, EN 61373, MIL-810G TIA 329.2-C</p> <p>Dust/Water Ingress: IP67</p> <p style="text-align: right; font-size: small;">*Measured on 1'(30cm) ground with 1'(30cm)</p> |

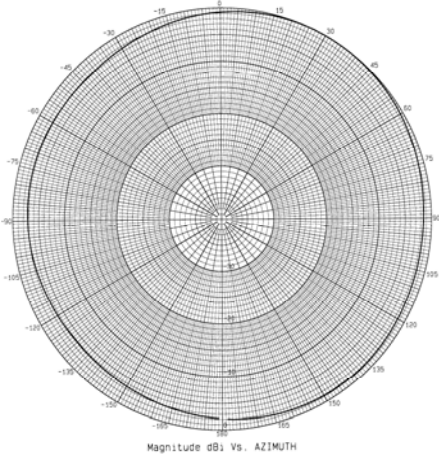
SMW-311 Series Antennas (page 1 of 2)

Surface Mount Multi-Band Antenna with GPS (1575 MHz)

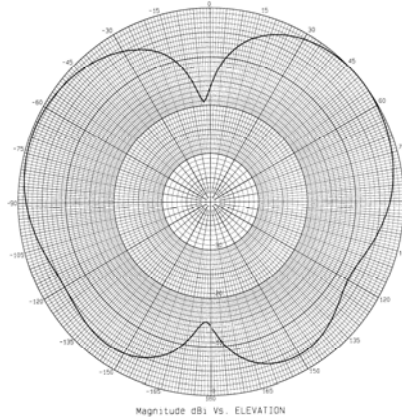
695 MHz – Elevation



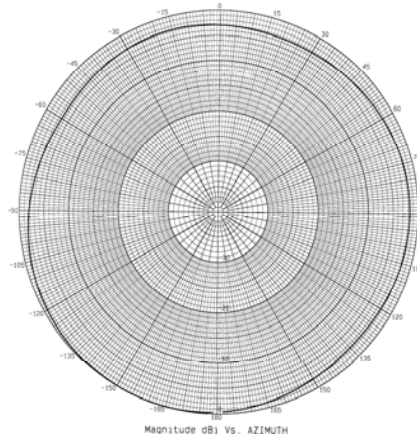
695 MHz – Azimuth



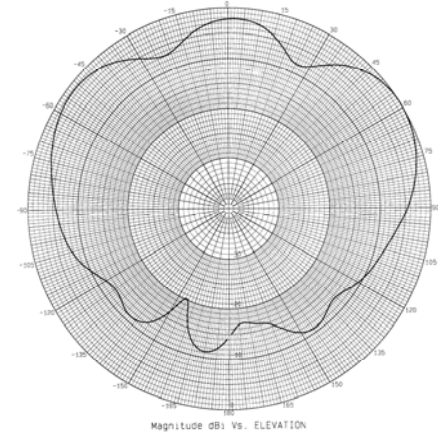
925 MHz – Elevation



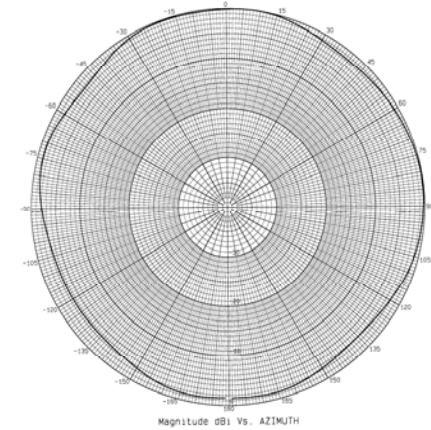
925 MHz – Azimuth



1850 MHz – Elevation



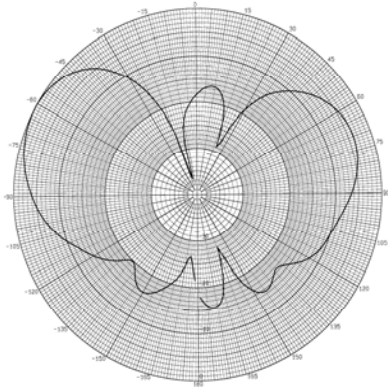
1850 MHz – Azimuth



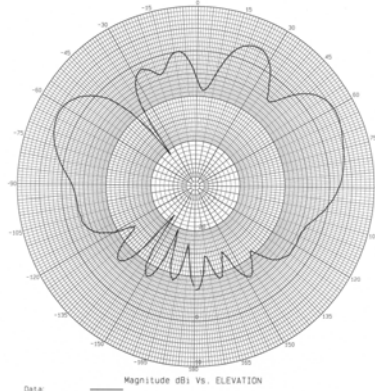
SMW-311 Series Antennas (page 2 of 2)

Surface Mount Multi-Band Antenna with GPS (1575 MHz) Cable#3

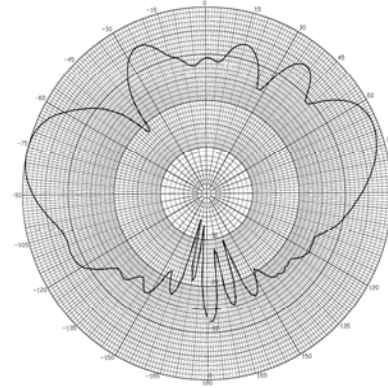
2450 MHz – Elevation



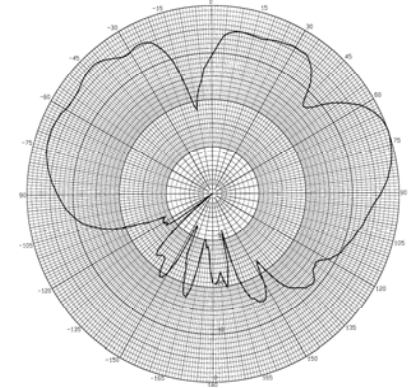
3700 MHz – Elevation



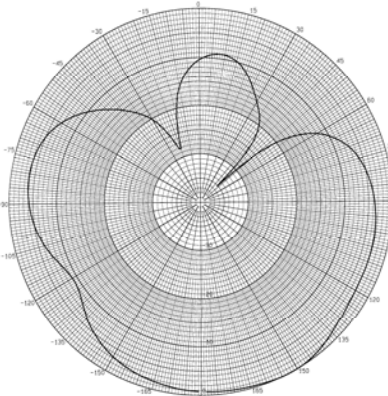
4900 MHz – Elevation



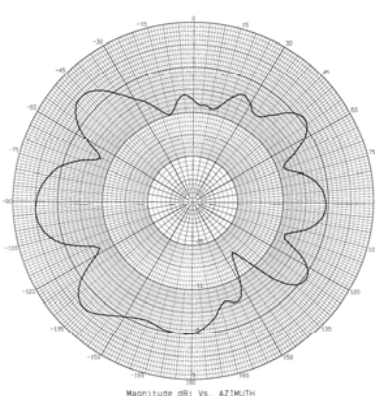
5950 MHz – Elevation



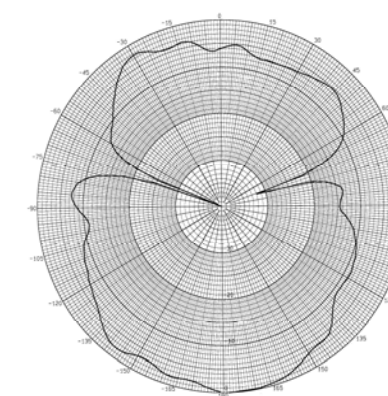
2450 MHz – Azimuth



3700 MHz – Azimuth



4900 MHz – Azimuth



5950 MHz – Azimuth

