



SMW-404 multiband, 4-cable Cellular, Dual WiFi & GPS

- 4 antennas in 1 antenna housing
- Covers GPS, Cellular, AWS, Military 4.4, WiFi & WiMAX
- Available in either Surface-mount (SMW Series) or Mag-mount (MGW Series)

The SMW-404 Series Antennas are configured with four different cables. It provides high performance Cellular GSM/CDMA, AWS, UMTS, two separate 2.4/4.9-6.0 GHz elements (of which the second is broadbanded) and GPS. This combination is particularly useful for Public Safety Video and Mesh Networking applications can be used for diversity coverage or for two separate 2.4/4.9 devices.

The antenna uses a 3/4-inch feed thru (1.9 cm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation. For best performance, the antenna should be mounted to a metal surface or ground plane.

The antenna is also available as a mag-mount for temporary set-ups. The model prefix "MGW" should be used instead of "SMW" to specify a mag-mount antenna.

Both the surface mount and mag-mount antennas are configured with 15 feet (4.5 m) of cable. The communications channels use low loss-195 cable and the GPS channel uses RG-174.

The antennas can also be configured for combined GPS & Glonass use.

Model Configurator

SMW-404-

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-404-3C3C3C2C-WHT-180
 MGW-404-3C3C3C2C-BLK-180

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

<u>Cable Options:</u>	<u>Connector Options:</u>	<u>Color Options:</u>
<u>Code</u> <u>Cable</u>	<u>Code</u> <u>Connector</u>	<u>Code</u> <u>Color</u>
1 RG-58	A TNC	WHT White
2 RG-174	B Mini UHF	BLK Black
3 LL-195	C SMA	
	J RP SMA	

(Other Configurations available.)

Specifications			
Frequency & Gain (peak):		Operating Temp:	-40° to +80° C
Cable 1	800-1250 MHz, 3 dBi & 1650-2700 MHz, 5 dBi	Cable:	
Cable 2	2.4-2.5 & 4.9-6.0 GHz, 5 dBi	Cables 1 - 3	Separate LL-195 15 ft (4.5 m)
Cable 3	2.1-2.5 & 4.4-6.0 GHz, 5 dBi	Cable 4	RG-174, 15 ft (4.5 m)
Cable 4 (GPS)	1575.42 +/- 2 MHz, LNA: 26dB 5 dBi nominal RHCP	Connector:	SMA Plug (Male) standard
VSWR:	2:1 max over range	Case Material:	White or Black UV resistant ASA
Nominal Impedance:	50 Ohm	MGW Mounting:	Magnet Mount
Maximum Power:	10 Watts	SMW Mounting:	Threaded metal stud 3/4" dia. x 1/2" long (1.9 cm x 1.3 cm) for 1/4" (6mm) thick metal; supplied w/ gasket & nut; other stud lengths available
GPS		Shock & Vibration:	IEEE1478, EN 61373, MIL-810G, TIA 329.2-C
Amplifier Bias:	2.7 to 5 VDC	Dust/Water Ingress:	IP67
Noise Figure:	2.0 dB max, 1.7 dB typical		
Current:	20 mA max, 10 mA typical		
GPS & Glonass Option:	1575 MHz & 1602 MHz		
Case:	4.2"D x 3.2"H (10.7 cm x 8.1 cm) add 1/2" (1.3 cm) for mag base		