



Surface Mount Multiband GSM/CDMA Dual WiFi, Public Safety & GPS

- Model SMW-404: 4 cable feed multiband
- Covers GPS, Cellular, AWS, Military 4.4, WiFi & WiMAX
- 4 antennas in 1 radome; saves time and money by reducing the number of installations

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 (19 mm) 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 meters) of cable. The communications channels use RF-195 cable and the GPS channel uses RG-174.

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-120

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 RF-195	C SMA	
	D SMB	
	E MCX	

(Other Configurations available.)

Specifications

Frequency & Gain:		Operating Temp:	-40° to +85° C
Cable 1	800-1250 MHz, 3 dBi	Cable:	
Cable 2	1650-2700 MHz, 5 dBi	Cables 1 - 3	Separate RF-195 15 ft (4.5 meters)
Cable 3	2.4 & 4.9-6.0 GHz, 5 dBi (peak)	Cable 4	RG-174, 15 ft (4.5 meters)
Cable 4 (GPS)	2.1-2.5 & 4.4-6.0 GHz, 5 dBi (peak)	Connector:	SMA Plug (Male)
	1575.42 +/- 2 MHz, LNA: 26dB	Case Material:	White or Black UV resistant ASA
	5 dBi nominal RHCP	MGW Mounting:	Magnet Mount
VSWR:	2:1 max over range	SMW Mounting:	Threaded metal stud
Nominal Impedance:	50 ohms		3/4" dia. x 1/2" long
Maximum Power:	20 Watts (max)		(19 mm x 13mm) for
GPS			1/4" (6mm) thick metal;
Amplifier Bias:	2.7 to 5 VDC		supplied with gasket and nut
Noise Figure:	2.0 dB max, 1.7 dB typical		Other length studs available
Current:	20 mA max, 10 mA typical		
GPS & Glonass Option:	1575 MHz & 1612 MHz	Shock &Vibration:	IEEE1478, EN 61373,
Case:	4.2"D x 3.2"H (107 mm x 81 mm)		MIL-810G, TIA 329.2-C
	add 1/2" (1.3 cm) for mag base	Dust/Water Ingress:	IP67