MobileMark
antenna solutions

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Surface Mount Multiband Cellular, Diversity WiMAX & GPS

Black Case

4-Cable
Multiband

Mag-Mount

- Model SMW-408: 4 cable feed multiband
- Covers GPS, MIMO 2.5 GHz WiMAX, Cellular & AWS
- 4 antennas in 1 radome; saves time and money by reducing the number of installations

The SMW-408 Series Antennas features 4 elements in one antenna radome. The unique feature of this model is that it offers two identical high gain elements covering WiMAX 2.5-2.7 GHz, each fed with a separate cable and each cable attaching to a separate modem.

Of the remaining two elements in the SMW-408, one is used for GPS at 1575 MHz and the other can be used for applications that fall in the 800 MHz-2.7 GHz range such as Cellular, WiFi at 2.4 GHz, WiMAX at 2.5 GHz and AWS at 1.7 & 2.1 GHz.

The SMW mounts easily to a roof, truck or bulkhead. The stud mount design uses a ¾-inch feed thru (19 mm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation.

The antennas are enclosed in a 4.2"D x 3.2"H weatherproof radome (107 mm x 81 MM), and supplied with all mounting hardware and a sealing gasket.

For best electrical performance, the antenna should be mounted on a metal surface or ground plane.

Model Configurator

SMW-408-☐☐☐☐☐☐-☐☐☐-☐☐☐

- Cable/Connector 1
- Cable/Connector 2
- Cable/Connector 3
- Cable/Connector 4
- Color
- Cable Length in Inches (eg. 12 or 180)

Example: SMW-408-3C3C3C2C-WHT-180
MGW-408-3C3C3C2C-BLK-120

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	B	Mini UHF	BLK	Black
3	RF-195	C	SMA		
		D	SMB		
		E	MCX		

(Other Configurations available.)

Specifications

Frequency & Gain:	
Cable 1	800-1250 MHz, 3 dBi 1650-2700 MHz, 5 dBi
Cable 2	2.5-2.7 GHz, 5 dBi
Cable 3	2.5-2.7 GHz, 5 dBi
Cable 4 (GPS)	1575.42 +/- 2 MHz, LNA: 26dB 5 dBi nominal RHCP
VSWR:	2:1 max over range
Nominal Impedance:	50 ohms
Maximum Power:	20 Watts (max)
GPS	
Amplifier Bias:	2.7 to 5 VDC
Noise Figure:	2.0 dB max, 1.7 dB typical
Current:	20 mA max, 10 mA typical
GPS & Glonass Option:	1575 MHz & 1612 MHz
Case:	4.2"D x 3.2"H (107 mm x 81 mm) add ½" (1.3 cm) for mag base

Cable:	
Cables 1 - 3	Separate RF-195 15 ft (4.5 meters)
Cable 4	RG-174, 15 ft (4.5 meters)
Connector:	SMA Plug (Male)
Case Material:	White or Black UV resistant ASA
MGW Mounting:	Magnet Mount
SMW Mounting:	Threaded metal stud 3/4" dia. x 1/2" long (19 mm x 13mm) for 1/4" (6mm) thick metal; supplied with gasket and nut Other length studs available
Operating Temp:	-40° to +85° C
Shock &Vibration:	IEEE1478, EN 61373, MIL-810G, TIA 329.2-C
Dust/Water Ingress:	IP67