



The SMW-403 Series Antenna is a 4-cable model and combines Orbcomm satellite coverage with worldwide GSM/CDMA, 802.11b/g WiFi and GPS. The Orbcomm efficiency is rated at 85% yet needs only a fraction of the foot print and height of traditional Orbcomm designs. With WiFi and Broadband also included, a variety of fleet services can be provided for drivers and fleet administrators.

The SMW-403 antenna is different from other models in the SMW family in that it includes an external whip mounted directly onto the antenna base.

The whip is used for Orbcomm applications at 137-150 MHz and measures only 15" (38 cm) in height. The base of this SMW antenna model measures 5.5 inches (140 mm) in diameter.

The remaining elements, including GPS, are housed in a standard SMW radome. This weatherproof antenna is supplied with all mounting hardware and sealing gasket. The design uses a 3/4-inch feed thru (19 mm) for securing to the vehicle. For best performance, the antenna should be mounted on a metal surface or ground plane.

## Surface Mount Multiband GSM/CDMA, WiFi, Orbcomm & GPS

- Model SMW-403: 4 cable feed multiband
- Covers GPS, Cellular GSM/CDMA, WiFi & Orbcomm
- 4 antennas in 1 radome; saves time and money by reducing the number of installations

**Model Configurator**



Cable/Connector 1

Cable/Connector 2

Connector 3

Cable/Connector 4

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMW-403-3C3C1C2C-WHT-12  
MGW-403-3C3C1C2C-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		
4	RG-188	D	SMB		
7	LMR-100	E	MCX		

(Other Configurations available.)

Specifications	
Frequency & Gain:	
Cable 1	800-1250 MHz, 3 dBi
	1650-2700 MHz, 5 dBi
Cable 2	2400-2485 MHz, 5 dBi
Cable 3	Orbcomm (137-138/148-150), 2 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
Radome:	4.2"D x 3.2"H (107 mm x 81 mm)
Base:	5.5 " (140 mm) Diameter
Cable:	Separate RF-195 15 ft (4.5 meters) RG-58 15 ft (4.5 meters)
Cable 1 & 2	RG-174, 15 ft (4.5 meters)
Cable 3 (Orbcomm)	SMA Plug (Male)
Cable 4	15" H (381 mm), 17-7 Stainless Steel
Connector:	White UV resistant ASA
Orbcomm Whip:	Threaded metal stud
Case Material:	3/4" dia. x 1/2" long (19 mm x 13mm) for
SMW Mounting:	1/4" (6mm) thick metal; supplied with gasket and nut
Operating Temp:	Other length studs available -40° to +85° C