

New! Magnet Mount Version (model MGW)

Surface Mount GPS Antenna (Pat.Pnd.)

MultiBand for 800 - 2500 MHz & GPS

- Mounts easily to roof, trunk or bulkhead
- MultiBand covers all popular worldwide frequency systems from 800 MHz - 2.5 GHz
- 3 Separate RF coax feeds, for Comm channel (800-2.4 GHz), 2.4+ GHz & GPS
- High performance GPS with 26 dB active amplifier

For the GPS interface, the antennas are typically outfitted with 15 feet of RG-174 cable (4.5 meters). The communications channel cables are 15 feet of low loss RF-195. All connectors are male unless requested otherwise. Please consult factory for special lengths or connectors.

GPS performance is 26 dB, with 5 dBi antenna gain. The GPS circuit has a low noise figure (2.0 dB max) with excellent filter characteristics.

The antennas are enclosed in a 4.2"D x 2.4"H weather-proof polycarbonate radome (107 mm x 61 mm), and supplied with all mounting hardware and sealing gasket. The radome color is white.

For maximum communications capability and ultimate versatility, this is the antenna of choice. This Wide Band antenna provides high performance operation on all cellular bands, all PCS bands and 2.4 GHz 802.11 bands along with GPS. Three separate RF feeds allow communication with the voice/data channel, the 2.4 radio, as well as GPS. The surface mount style antennas can be mounted to any vehicle, cargo container or trailer.

The design uses a 3/4" feed thru (19 mm) for securing to the vehicle. Access to the underside of the body surface is required to complete the installation. Note, for best performance, the antenna should be mounted on a metal surface/groundplane.

Antenna Model Configurator	SMW-UMB-	example - SMW-UMB-3A3A2C
800 MHz -2.4 GHz Cable & Connec	ctor 2.4-2.5 GHz Cable & Connector	r GPS Cable & Connector
Code Description	<u>Code</u> <u>Description</u>	Code Description
3A RF-195 & TNC	3A RF-195 & TNC	2C RG-174 & SMA
3B RF-195 & MiniUHF	3C RF-195 & SMA	2D RG-174 & SMB
3C RF-195 & SMA	3J RF-195 & Rev Pol SMA	2E RG-174 & MCX
3H RF-195 & Fakra	3K RF-195 & Rev Pol TNC	; 2F RG-174 & MMCX
3L RF-195 & SMC		2H RG-174 & Fakra
Note for Magnet mount version,	2L RG-174 & SMC	

Specifications			
Frequency:		Maximum Power:	_
GPS	1575.42 +/- 2 MHz	800 - 1900 MHz	20 Watts
Comm #1	800 - 2400 MHz	1900 - 2500 MHz	10 Watts
Comm #2	2400 - 2485 MHz	Current:	20 mA max, 10 mA typical
Comm Channel Gain:		Cable:	**
800-1GHz	2 dBi	GPS	RG-174, 15 ft (4.5 meters)
1700-2400	5 dBi (peak)	Comm #1 & #2	Separate RF-195 Cables,
2.4 - 2.5 GHz	5 dBi (peak)		15 ft (4.5 meters)
GPS Gain:	26 dB, 5 dBi Antenna	Case:	4.2"D x 2.4"H (107 mm x 61 mm)
VSWR:	2:1 max over range	Case Material:	White Polycarbonate
Noise Figure:	2.0 dB max, 1.7 dB typical	Mounting:	3/4" dia.x 1/2" long(19 mm x13 mm)
Operating Temp:	-30° to +80° C	_	for 3/16" thick (4.7 mm) metal
Nominal Impedance:	50 ohms	Hardware:	Nut, lockwasher and gasket
Amplifier Bias:	3.3 or 5 VDC +/- 10%		included