

Product Specifications



MultiBand with GPS
3 separate coaxes



New!
Magnet Mount
Version
(series MGW)

Surface Mount GPS Antenna GSM/CDMA, WiFi, WiMAX & GPS

(Pat.Pnd.)

- Mounts easily to roof, trunk or bulkhead
- MultiBand covers all popular worldwide frequency systems from 800 MHz - 6 GHz
- 3 Separate RF coax feeds, for radio comm channel (800-2.7 GHz), 2.4/5 GHz & GPS
- High performance GPS with 26 dB active amplifier

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. An optional version can operate dual band on 2.4 & 5 GHz for 802.11 a/b/g. Three separate RF feeds allow communication with the voice/data channel, the WiFi radio, as well as GPS. The antennas can be mounted to any vehicle, cargo container or trailer.

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.

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.

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 3.2"H ASA radome (107 mm x 81 mm), and supplied with all mounting hardware and sealing gasket. The SMW radome color is white standard, black optional. The MGW mag mount is also available in white or black.

Antenna Model Configurator

SMW- - - - example - SMW-UMB-3A3A2C
Mag Mount - MGW-UMB-3A3A2C

Combo Configuration

Code	Description	Cable #1	Cable #2	GPS Interface
SMW-UMB	Cable 1 = 800 - 2.7 GHz	3A RF-195/TNC	3A RF-195/TNC	2C RG-174/SMA
	Cable 2 = 2.4 GHz (WiFi)	3B RF-195/MiniUHF	3B RF-195/MiniUHF	2D RG-174/SMB
	Cable 3 = GPS	3C RF-195/SMA	3C RF-195/SMA	2E RG-174/MCX
SMW-301	Cable 1 = 800 - 2.7 GHz	3J RF-195/RevPol SMA	3J RF-195/RevPol SMA	2F RG-174/MMCX
	Cable 2 = 2.4 & 5+ GHz (WiFi)	3K RF-195/RevPol TNC	3K RF-195/RevPol TNC	2H RG-174/Fakra
	Cable 3 = GPS			2L RG-174/SMC

Note: For Mag mount, substitute MGW for SMW in model

Specifications

Frequency:	Amplifier Bias:	3.3 or 5 VDC +/- 10%
Cable #1	Maximum Power:	800 - 1900 MHz 20 Watts
Cable #2	1900 - 5800 MHz	10 Watts
GPS	Current:	20 mA max, 10 mA typical
Comm Channel Gain:	Cable:	GPS RG-174, 15 ft (4.5 meters)
800 - 1GHz	CABLE #1 & #2	Separate RF-195 Cables, 15 ft (4.5 meters)
1700 - 2700	Case:	4.2"D x 3.2"H (107 mm x 81 mm)
2.4 - 2.5 GHz	Case Material:	White ASA
5.2 - 5.8 GHz Band	Mounting:	3/4" dia. x 1/2" long (19 mm x 13 mm) for 3/16" thick (4.7 mm) metal
GPS Gain:	Hardware:	Nut and gasket included
26 dB, 5 dBi Antenna	Option:	Mag Mount MGW, 15 ft cables
VSWR:		
2:1 max over range		
Noise Figure:		
2.0 dB max, 1.7 dB typical		
Operating Temp:		
-40 ° to +85 ° C		
Nominal Impedance:		
50 ohms		

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