



GPSGSMMSMA

## GPS/GSM Multiband Through Hole Low Profile Antenna

The GPSGSMMSMA multiband GPS antenna provides omnidirectional coverage of GSM frequencies from 824-896 MHz and 1710-1990 MHz plus GPS L1 vehicle tracking support. This low profile antenna is designed for permanent roof top vehicular installations. It is ideal for mass transit applications requiring voice coverage and GPS tracking to improve operational dispatch and schedule maintenance efficiencies. The antenna's very low profile design minimizes its exposure to theft or vandalism.

### Features

- Extremely low profile housing for minimum visibility and maximum overhead clearance
- Multiband frequency coverage and GPS support minimize the number of antennas required on the vehicle for easier, more cost effective installations
- UV stability for long lasting outdoor operation
- Adhesive VHB tape layer supports permanent installation and provides added protection to the vehicle's surface
- White radome option available
- Protective cable sheath for easier installation

### Technical Data

<b>Maximum Power (GSM):</b> 8 Watts
<b>Polarization:</b> Right hand circular (GPS) Linear (GSM frequencies)
<b>Input Impedance:</b> 50 Ohms
<b>VSWR:</b> < 1.5:1 (GPS) < 2.5:1 (GSM)
<b>Radome:</b> UV stable plastic Black (part number GPSGSMMSMA) White (part number WGPSGSMMSMA)
<b>Cable:</b> 5 meters RG-174/U (GPS) 5 meters RG-174/U (GSM)
<b>Connector**:</b> Male SMA (GPS) Male SMA (GSM)
<b>Mount Method:</b> 1/2 inch through hole mount Mount assembly includes flat adapter shim for installations on existing larger hole diameters. Adhesive VHB tape layer included.

### GPS Antenna Electrical Specifications

Center Frequency	Current Draw	LNA Gain
L1: 1575.42 ± 3 MHz	< 15 mA @ 3-5V	25 ± 3 dB

### GSM Antenna Specifications

Operating Frequencies	Maximum Gain
824-896 MHz 1710-1990 MHz	2 dBi*

### Mechanical Specifications

Weight	Dimensions	Temperature Range
0.45 lbs (.204 kg)	3.1 x 0.59 in (8 x 1.5 cm)	-40°C to +85°C



\* Gain will vary depending on frequency and method of installation. Measured on a 9-inch ground plane, not including cable attenuation.

\*\* For other connector options, please refer to GPS Multiband Mobile Antenna Configurator Part Number Guide.