

GPS+ Combination Antennas

The Max-Matics™ GPS+ antennas have been designed to provide maximum performance and versatility for telematics applications, including fleet monitoring and asset tracking.

By combining the high performance of a GPS antenna with the flexibility to add virtually any PCTEL permanent mount compatible mobile antenna, the GPS+ provides reliable, real-time wireless voice and data coverage for fleet monitoring applications. This antenna is designed to facilitate installation. It includes all necessary hardware for “blind” installations when removal of the vehicle’s headliner is not desired.

Its precise performance and ease of installation provides outstanding value and flexibility for the most demanding wireless mobile applications.

Features

- Combination GPS/mobile antenna design provides GPS tracking coverage and voice/data wireless coverage capabilities for fleet monitoring or fleet tracking applications.
- UV-stable housing features attractive industrial design that is available in off-white or black textured finishes.
- 3 or 5 Vdc operating voltage supply enables operation with most GPS systems on the market.
- Several models are available, including trunk lid mount, permanent stud mount, mirror mount or magnet mount versions. The variety of mounts provides flexibility and versatility to end users.
- Various connector options are available for both the GPS antenna and the mobile antenna’s permanent mount.



Magnet Mount Model



Permanent Stud Mount Model

Low Noise Amplifier Specifications

Frequency Band: 1575.42 MHz
Amplifier Gain: 26 dB +/- 3
Polarization: Right hand circular
Nominal Impedance: 50 ohms
Output VSWR: 1.5:1, typical
DC Current: 20 mA Nominal; <30 mA @ -40° C to +85° C
DC Voltage: 3-5.5V (internal regulated)
Axial Ratio: < 3.0 dB @ boresight
Noise Figure: 1.8 typical
Filtering: Hybrid (including pre-selector)
Out-of-band Rejection: >40 dB @ +/- 50 MHz



For other connector options, please refer to GPS Multi-Band Mobile Antenna Configurator Part Number Guide.

Mechanical Specifications

Housing Material	Housing Dimensions	Mobile Antenna Mount Interface	Cable	Cable Pull Force	Mounting Options
Black or off-white, UV-stable polycarbonate	2.25" W x 4.25" L x 1.25" H	1-1/8"-18 thread mount	17' RG-174 (GPS antenna side) 17' RG-58/U (mobile antenna side)	5 kgf, minimum (magnetic mount models)	Stud, mirror, trunk or magnet

Environmental Specifications

Burn-out Protection	Operating Temperature Range	Storage Temperature Range
Protected from damage by RF signals when the power received by the antenna is no greater than +17 dBm, maximum	-40° C to +85° C	-40° C to +100° C

To order, please follow the following part number configuration:

Color*	Mount type	GPS Connector	Mobile Antenna Connector
	<i>Add the appropriate suffix (choose from the list below) to indicate your choice of mount:</i>	<i>Specify your GPS connector of choice by adding the connector abbreviation from the list below to the part number.</i>	<i>Choose among any of the connector options available below for the BM mounts with RG-58 cable:</i>
Black	GPSPMM (for magnet mount)	Male TNC (MC), Male SMA (MSMA), Male SMC (MSMC)	Male SMA (MSMA), Male N (NM), TNC (C), Reverse Polarity SMA (MSMARP)
	GPSPSM (for stud mount)	Male TNC (MC), Male SMA (MSMA), MCX, Right angle MMCX plug (RAMMCX), Right angle SMB plug (RASBP)	Reverse Polarity SMA (MSMARP) Mini-UHF (PL) BNC (BN) TNC (C) Male N (NM) Male SMA (MSMA) Right Angle Male SMA (RAMSMA)
	GPSPMR(for mirror mount)	Male TNC (MC)	Male N (NM)
	GPSPTM (for trunk mount)	Right angle SMB plug (RASBP)	N/C

*White radome is a special order item. Contact Customer Service for details.

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