

## GNSS+ Combination Antennas with High Rejection Technology



The Max-Matics™ GNSS+ High Rejection combination 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 GNSS antenna with the flexibility to add virtually any PCTEL permanent mount compatible mobile antenna, the GNSS+ 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.



GNSSPSM-S1-S1

### Features

- Combination GNSS/mobile antenna design provides GPS/QZSS/GALILEO/GLONASS tracking coverage and voice/data wireless coverage capabilities for fleet monitoring or fleet tracking applications
- UV-stable housing features attractive industrial design
- Proprietary filtering design allows wideband coverage while achieving superior out-of-band rejection for all GNSS frequencies
- Various connector options are available for both the GNSS antenna and the mobile antenna’s permanent mount

### STANDARD CONFIGURATION

Model	Cable	Connector*	Mount	Mobile Antenna Mount Interface
GNSSPSM-S1-S1	17' RG-174 (GNSS antenna side) 17' RG-58/U (mobile antenna side)	SMA Plug (GNSS) SMA Plug (Mobile)	3/4-inch hole permanent stud	1-1/8"-18 thread mount

### ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Band	LNA Gain	Element Gain	Polarization	Out of Band Rejection
1565-1610 MHz	@ 3.0VDC: 26dB (typical)	3 dBic @ 90° -2 dBic @ 20°	Right hand circular	f0 = 1586 MHz f0 +/- 50MHz : ≥ 60dBc f0 +/- 60MHz : ≥ 70dBc

### ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

Current Draw	DC Voltage	Noise Figure	VSWR	Nominal Impedance
< 25 mA (typical)	2.8-6.0 V (operating) ≤ 12.0 V (survivability)	< 2.0 dB (typical)	2.0:1 (maximum)	50 ohms

### MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	Housing Material	Storage Temperature Range	Operating Temperature Range	Burn-out Protection
2.25W x 4.25 L x 1.25 H in (57 x 107 x 31.75 mm)	Black UV-Stable Polycarbonate	-40°C to +85°C	-40°C to +85°C	Protected from damage by RF signals when the power received by the antenna is no greater than +17 dBm, maximum

\* Consult Customer Service for other connector options.