

## Maestro GPRS/GPS MicroTracker

Maestro MicroTracker combines GSM/GPRS and GPS technologies in an industrial, compact grade design. Its exceptionally small footprint featuring embedded antennas, a single port connector make it easy to fit into most vehicles. Maestro MicroTracker provides key features for fleet management applications including reporting of position, speed mileage and ignition of the vehicle. Empowered by the latest Maestro GPS SiRF StarIV A2100-A modules, Maestro MicroTracker also provides intelligent device management functionality like remote firmware and software upgrade and diagnostics. It's well define parser make it easy to integrate into your back-end application server.

### Key Features :



- Light, compact, industrial grade design
- Easy to conceal
- Embedded GSM and GPS antenna
- Single 10 pins connector
- Cutting edge Maestro GPS SiRF Star IV
- GPRS & GPS LED status indicator
- Optional battery back-up
- Optional accelerometer and magnetometer
- Intelligent device management over the air
- Powered by Sierra Wireless M100 cellular module with OpenAT™

**Developer Kits  
and Product Available Now  
from Richardson RFPD!**

### Faster Time to Market

To help its customers to quickly build the link from the tracking unit to their application server, Maestro provides an embedded application featuring tracking, monitoring and geofencing capabilities. Accelerating testing phase and time to market Maestro embedding application will let you get revenues faster than ever.



### Ordering Information

Part number	Description	Frequency bands	Size (mm)	Approvals
MT-01/Rev.2	Microtracker, Cellular GPS tracking	850/900/1800/1900MHz	58.6x60x13	PTCRB/IC/FCC/CE
MT-01/Rev.2-B	Microtracker bundle w/harness & battery backup			

Your Global Source for  
RF, Wireless & Energy Technologies

 **RichardsonRFPD**  
An Arrow Company

[www.richardsonrfpd.com](http://www.richardsonrfpd.com) | 800.737.6937 | 630.208.2700

# Micro Tracker

## Technical information



### GENERAL FEATURES

- Temperature range:
- Functional: -30°C to +80°C
- Storage: -40°C to +85°C
- Casing: PC/ABS material UL94V-0 flammability
- Shock and Vibration : SAE J1211
- Dimensions: 58.6 x 60 x 13mm
- Weight: 45g

### ELECTRICAL CHARACTERISTICS

- Supply voltage range: 6-32V DC
- Current consumption during idle: 58mA Typical at 12V DC
- Current consumption during transmission: 104mA Typical at 12V DC
- Current consumption during power saving: 8mA Typical at 12V DC

### GSM / GPRS

- Wireless Microprocessor - WMP100 - approved module by AT&T; PTCRB Certified & FCC Certified - Sierra Wireless
- Frequency band: 850 / 900 / 1800 / 1900 MHz
- Built-in antenna
- SIM card interface 1.8/3.0V
- SIM card holder: Flip type; SIM card is accessible under the lid

### GPS

- GPS engine : SIRFstar IV - Maestro A-2100-A
- Positioning Accuracy : 2.5 m CEP - 2.0 m CEP SBAS
- A-GPS: Embedded Extended Ephemeris and Ephemeris Push support
- High sensitivity: -163dBm Tracking and -160dBm Navigation
- TTFF typically <1s when hot and <35s from cold (outdoors)
- Optional MEMS support

### COMMUNICATION WITH BACK-END

- Embedded software for faster time to market  
Or Customizable OpenAT application
- GSM / GPRS (TCP or UDP) or SMS communication channels

### STATUS INDICATORS

- One red color LED indicating GPS position fix
- One green color LED indicating GSM registration

### ELECTRICAL INTERFACE

- 10-pin connector
- Connection for :**
- Power supply
- Open collector output (able to drive external LED/relay 250mA) x2
- Digital input x2 : active between 6v to 32V DC
- Analog input x1
- Connecting cable :**
- 10 pin plug
- Wire harness
- 2A fuse on power
- Relay socket (for starter connection)

### FUNCTION AND FEATURE

- Immediate reporting of vehicle status (position, speed, mileage, ignition)
- Disable/Enable ignition - engine
- Configurable alert messages for overspeed, geofence, ignition, etc.
- Software/Firmware upgrade over the air
- Optional 540 mAh battery back-up
- Optional MEMS: accelerometer, magnetometer
- m2mgateway.net compatible for demo and quick implementation

### SERVICE PORT

- Accessible from outside after removing a plastic lid
- Serial port at logic 2.8V TTL level + other electrical test point
- Using external RS232 transceiver for connection to a PC, for diagnostic & software upgrade

### COMPLIANCE

- FCC Part 15B, 22H & 24E
- PTCRB
- CE
- A-tick
- RoHS

### ACCESSORIES

- OBD2 wire harness
- Plastic blister for protection and mounting

Your Global Source for  
RF, Wireless & Energy Technologies



www.richardsonrfpd.com | 800.737.6937 | 630.208.2700