

# Micro Tracker

# maestro



empowering wireless

## Maestro GPRS/GPS Micro Tracker

Maestro Micro Tracker combines GSM/GPRS and GPS technologies in an industrial, compact grade design. Its exceptionally small footprint featuring embedded antennas and a single port connector make it easy to fit into any vehicle. Maestro Micro Tracker provides key features for fleet management applications including reporting of position, speed, mileage and ignition of the vehicle. Empowered by the latest generation of cellular technologies Maestro Micro Tracker also provides intelligent device management functionality like remote firmware and software upgrade and diagnostics. It can be easily integrated into your back-end application server.

### Key Features :



- Light, compact, industrial grade design
- Embedded antennas
- Single port 10 pins connector
- GPRS/GPS LED status indicator
- Optional battery back-up
- Intelligent device management over the air
- Automotive grade certification

### 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 code featuring tracking, monitoring and geofencing capabilities. Accelerating testing phase and time to market Maestro embedding code will let you get revenues faster than ever.



# Micro Tracker

## Technical information

### GENERAL FEATURES

- Temperature range:
- Operational: -20°C to +55°C (ETSI compliant)
- 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

### GSM / GPRS

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

### GPS

- GPS engine : branded / part number - CompactRide emD1000k (eRide Inc.)
- Positioning Accuracy : 7m outdoors (CEP 95%) and <20m indoors
- High sensitivity down to -155.5dBm for both acquisition and tracking
- TTFF typically 3s when hot and <40s from cold (outdoors)
- Built-in antenna

### Distributor's Contact

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### COMMUNICATION WITH BACKEND

- 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

### 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 Certification
- PTCRB Certification
- RoHS

### ACCESSORIES

- Optional external battery
- OBD2 wire harness
- Plastic blister for protection and mounting

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