

MicroTracker

maestro



empowering wireless

Low-profile, intelligent tracking device... out of the box

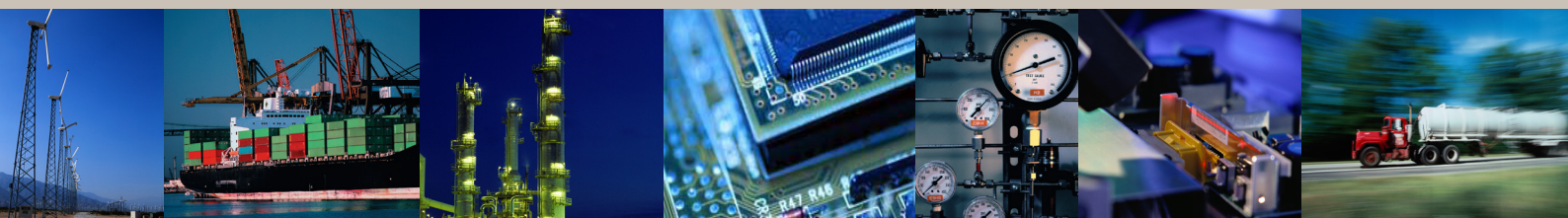
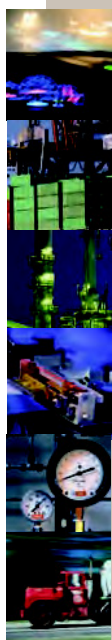
The Maestro Wireless Solutions MicroTracker combines GSM/GPRS and GPS technologies in an industrial, compact grade design. Its exceptionally small footprint featuring embedded antennas and a single port connector make it easy to fit into places where space is limited in vehicles. The Maestro MicroTracker interface and embedded application provides key connectivity and alert needed in a wide range of in-road, off-road fleet management and driver monitoring related application. The MicroTracker also provides intelligent device management features and functionality, including firmware and software upgrades as well as GPS and vehicle diagnostics.

Key Features :

- Easy to conceal, light, compact, industrial grade design
- Embedded GSM and GPS antenna
- Single 10-pin connector
- Embedded accelerometer
- Device generated alert to reduce operational cost
- A-GPS and Extended Ephemeris support
- GPRS & GPS LED status indicator for visual checking during installation and service
- Optional external battery back-up supporting harsh temperature
- Intelligent device management over the air

Save on operational cost

To provide a fully functional product out of the box and help its customers to quickly build the link from the tracking unit to their application server, all MicroTracker are shipped with a market proven application. Alerts are device generated and send through SMS, or UDP to reduce operational cost and achieve maximal ROI in a minimum time.





GENERAL FEATURES
- Model: MT-01 (rev.3)-A (with accelerometer)
- Temperature range:
- Functional: -30°C to +80°C
- Storage: -40°C to +85°C
- Functional with battery back up: -30°C to +75°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: 35mA - Typical at 12V DC
- Current consumption during transmission: 78mA - Typical at 12V DC
- Current consumption during power saving: 20mA - Typical at 12V DC

GSM / GPRS
- 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
- 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)

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 : max 12V

FUNCTION AND FEATURES
- Device Generated Alert: Wired or Virtual Ignition ON/OFF Direction change Speed Mileage Low battery - battery disconnect HeartBeat / Power up Tow
- Programmable alert for usage outside specified time / area
- Disable/Enable ignition - engine
- Configurable alert messages for overspeed, geofence, ignition, etc.
- Device generated rectangular/polygonal/circular geofences
- Software/Firmware upgrade over the air
- Device diagnostic status
- GPS engine status
- Power saving mode
- Initialize/set odometer
- I/O read - open/close - threshold alert set
- Embedded profile to connect to demo.maestro-wireless.com for demo and quick implementation

Ordering Information for model MT-01 (rev.3) - A

ex: MT-01(rev.3) - A (B)	
MicroTracker Item code	Bundle Selection:*
	B - Bundle
	⓪ - Leave blank for tracker only

* Bundle includes: MT-01 (rev.3) - A, battery back-up and complete cabling with relay

ACCESSORIES ORDERING INFORMATION
- MT-OTH01: Relay 12V normally closed to switch car engine
- MT-OTH02: Optional 700 mAh extended temperature Super Li-ion battery back-up. Operating Range : -40°C to +75°C Storage Temperature : -10°C to +35°C Certification : CE, MSDS, RoHS, EN62133
- MT-OTH03: developer serial port adapter for test, debug, upgrade
- MT-CA01: Cable: Molex connector 10 pin sheathed wire harness, with relay socket, ferrites, fuse, molex connector for battery backup., L=500mm
- MT-OTH006: 24V Load dump protection according to ISO 7637-2-2004 Pulse 5

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
- ISO 7637-2-2004 up to Pulse 4

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