





# Geo-Trax MICRO

## Multi-Functional MICRO GPS Tracking Device



-  **Water Resistant**
-  **Full Power Management**
-  **Over 200 Days Standby Time with External Battery (Pro Version)**
-  **Wireless GPS Tracking in 150+ Countries for Only \$19.95/month! (One SIM)**

The Geo-TraxMICRO is a powerful multi-functional device designed for a myriad of GPS fleet tracking and asset tracking applications. From personal, pet, and vehicle tracking to monitoring of remote non-powered assets, the Geo-TraxMICRO does it all. With superior receiver sensitivity, fast TTFF (Time to First Fix) and Quad band GSM frequencies 850/900/1800/1900MHz, its location can be tracked in near real-time or periodically monitored and reported to the Enlightrak backend server. User's can ping the device on-demand, self-reboot the device, and change the tracking interval O.T.A. All this and more is at the fingertips of Enlightrak clients. A truly flexible and customizable wireless MICRO GPS tracking device. Event violation alerts and reports including - motion start/stop, geo-fence, low battery, speed violation, and more. Can also deploy with an integrated panic button.



### Advantages:

- **Water resistant**
- **Quad band GSM/GPRS frequencies 850/900/1800/1900MHz**
- **Full-featured flexible tracking protocol**
- **Built in uBlox GPS chipset with -162dBm tracking sensitivity, -148dBm autonomous sensitivity for fast TTFF and accuracy**
- **Internal GSM and GPS Antennas**
- **MMCX type RF connector for external GPS antenna**
- **Low power consumption, over 200 days of operation with external battery pack (Pro Version).**
- **3-axis accelerometer for battery life and motion detection**
- **Full power mgmt: can be connected to external DC power source or battery.**



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#### GSM Specifications

|                        |  |
|------------------------|--|
| Frequency              | Quad band: 850/900/1800/1900MHz<br>Compliant to GSM phase 2/2+<br>-Class 4 (2W @ 850/900MHz)<br>-Class 1 (1W @ 1800/1900MHz) |
| GPRS                   | GPRS multi-slot class 12<br>GPRS mobile station class B  |
| RMS Phase Error        | 5 deg  |
| Max Out RF Power       | 33.0dBm±2dBm   |
| Dynamic Input Range    | -15~-108dBm  |
| Receiving Sensitivity  | Class II RBER2%(-107dBm)   |
| Stability Of Frequency | <2.5ppm  |
| Max Frequency Error    | ±0.1ppm  |

#### GPS Specifications

|                   |  |
|-------------------|--|
| GPS Chipset       | 72 Channel uBlox All-In-One GPS receiver sensitive. Fast and accurate sensitivity. |
| Sensitivity       | Autonomous: -147dBm<br>Hot start: -155dBm<br>Tracking: -162dBm                     |
| Position Accuracy | Autonomous: <2.5m<br>SBAS: <2.0m   |
| TTF (Open Sky)    | Cold start: 30s average<br>Warm start: <28s<br>Hot star: <1s                       |

#### Interfaces

|                    |  |
|--------------------|--|
| Digital Inputs     | Two digital inputs<br>One positive trigger for ignition detection<br>One negative trigger input for normal use |
| Digital Output     | One digital output, open drain, 150mA drive current max  |
| Power Button       | For power on and power off, can be disabled by the air interface protocol                                      |
| Function Button    | For SOS alarm or quick setting of Geo-Fence  |
| Mini USB Interface | For external power and configuration   |
| MMCX RF Connector  | For external GPS antenna   |
| Indicator LED      | GSM, GPS and battery status  |

#### General Specifications

|                          |  |
|--------------------------|--|
| Dimensions               | 2.69 x 1.52 x .93"<br>5.06"L x 3.95"W x 2.43"H (device and case)<br>2.11oz. device/2.4lbs. enclosure |
| Weight                   | Li-Polymer 1300mAh Internal Battery  |
| Battery                  | 3.7V 13,200mAh rechargeable li-polymer   |
| External Standby Time    | Without reporting: 400 Hours<br>5 minute reporting: 130 Hours<br>10 minute reporting: 150 Hours      |
| Water Resistance         | IPX5 Compliant   |
| Charge Voltage           | 5V DC  |
| External Battery Voltage | 3.5V to 4.5V DC  |
| Operating Temperature    | -20°C ~ +55°C  |

#### Air Interface Protocol

|                         |   |
|-------------------------|---|
| Transmit Protocol       | TCP, UDP, SMS   |
| Scheduled Timing Report | Report position follow the pre-set fix interval and report interval |
| Geo-Fence               | 5 Geo-Fence regions can be defined                                  |
| Low Power Alarm         | Alarm when internal battery is low                                  |
| Power On Report         | Report when the device is powered on                                |
| Power Off Report        | Report when the device is powered off                               |
| Non-Movement Detection  | Movement alarm based on built in 3-axis accelerometer               |
| SOS/Emergency Alarm     | SOS alarm when function key is pressed                              |

**All specifications are typical and subject to change without notice**

#### About Enlightrak:

A proven leader in wireless tracking solutions, Enlightrak deploys devices that enable clients to optimize their operations by collecting, monitoring, and efficiently reporting business critical data and desired intelligence from high-value remote vehicles, assets, and individuals.