



# Enlightrak

YOUR PREMIER SOURCE FOR AFFORDABLE TRACKING SOLUTIONS

spec  
sheet



## Geo-Trax<sup>IR</sup>

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## Features >

- 2-12 Hour Tracking Updates - \$14.95 per month (One SIM Global Coverage)
- Small – 3.125”L x 2.5”W x .875”H - ideal for fleet tracking or powered and tethered asset tracking (normally tethered but idle for extended periods).
- Rugged, water resistant housing, solid state circuit - quality throughout.
- Multiple alert notifications by email or text message (geo-fences, speed, and more)
- 100% web-based | no software to install | accessible from anywhere.
- Hassle free hardware installation - no batteries to replace.
- Ignition + 2 inputs and 1 output
- 3 wire installation (power, ground and ignition)



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## Asset Tracking

- **Monitoring Plans:** 2 to 12 hour tracking updates. Adjustable OTA. \$14.95 per month (One SIM Global Coverage)
- **Typical Power:** From 2 mA to 70mA current at 12 VDC.
- **GSM Channels:** 850/1900 (United States) 900/1800 (Europe, Australia, Asia and Middle East).
- **Antenna:** Internal dual-mode GSM/GPRS + GPS.
- **Notifications:** Motion detection, enter & exit perimeter, low battery, temp high & low and more, via text message or email.
- **Data Retention:** 180 days of historical data retention stored at server.
- **Event Reporting:** Heartbeat, main battery disconnect, vibration, motion, low battery, possible theft, and much more.
- **Backup Battery:** 1000mAh | 3 hour charge time.
- **Diagnostics:** Blinking LED diagnostic messages.
- **Shock and Vibration:** US Military Standards 202G and 810F, SAEJ1455.
- **Enclosure:** IP66 | Water-resistant.

# Specifications

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## GENERAL

Communication Modes	GPRS/EDGE/HSPA and CDMA 1xRTT packet data, UDP and SMS
Location Technology	50 channel GPS
Operating Voltage	12 and 24 volt vehicle systems

## GPS

Location Technology	50 channel GPS (with SBAS) SBAS: WAAS, EGNOS, MSAS, GAGAN
Location Accuracy	2.0 meter CEP (with SBAS)
Tracking Sensitivity	-162dBm
Acquisition Sensitivity	-147dBm
AGPS Capable	

## BATTERY PACK

Battery Capacity	1000 amp hour
Battery Operating Voltage	3.6 volts
Battery Technology	Lithium ion

## CELLULAR

Data Support	SMS, GPRS, CDMA 1xRTT or HSPA packet data
GSM/GPRS Quad-Band	850/900/1800/1900 MHz
GSM/GPRS Output Power	Class 4 (2 Watts) 850/900 bands
Power	Class 1 (1 Watt) 1800/1900 bands
CDMA Dual-Band	800/1900 MHz
CDMA Output Power	800: +24 dBm 1900: +24 dBm
HSPA/UMTS Dual-Band	900/2100 MHz (bands VIII,I) or 850/1900 MHz (bands V, II) 3GPP release 6 5.6 Mbps upload, 7.2 Mbps download
GSM/GPRS/EDGE Fallback	850/900/1800/1900 quad-band GPRS class 12, EDGE MCS1-MCS9

## COMPREHENSIVE I/O

Digital Inputs	2 fixed bias
Digital Outputs	1 open collector (150mA)
Status LEDs	GPS and cellular

## CERTIFICATIONS

Fully certified FCC, CE, IC, PTCRB, Applicable Carriers

## ENVIRONMENTAL

Temperature	-30° to +75° C (operating) -40° to +85° C (storage)
Humidity	95%RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B; Industry Canada
RoHS Compliant	

## ELECTRICAL

Operating Voltage	6-32 VDC
Power Consumption	2 mA @ 12V (deep sleep) 10 mA @ 12V (sleep on network) 70 mA @ 12V (active standby)

## PHYSICAL

Dimensions	3.125 x 2.5 x 0.875", (63.5 x 80 x 23mm)
Weight	3 oz. (85g)

## CONNECTORS, SIM ACCESS

SIM Access	Internal
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## MOUNTING

Standard tie-wrap or adhesive  
Screw mount bracket

## KEY FEATURES

- 2 months with single message cycle per day on fully charged battery pack
- 1000 mah lithium ion re-chargeable battery pack
- IP66 sealed enclosure
- Packet data (GPRS, CDMA 1xRTT, or HSPA) and SMS-based messaging GPRS
- Internal GSM and GPS Antennas
- Super sensitive GPS (-162 dBm tracking)
- Ultra-low power safe mode (<1mA)
- 3 axis accelerometer for motion-sensing
- 2 inputs and 1 output
- Voltage monitoring and low battery notification
- 2,000 buffered messages
- 10 Device Integrated Geo-fences

### 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.

All specifications are typical and subject to change without notice