

trak5001

Primary 3 Dimensional Accelerometer $\pm 2g/\pm 4g/\pm 8g/\pm 16g$ (Motion/ Impact Sensing)

Secondary 3 Dimensional Accelerometer $\pm 2g/\pm 4g/\pm 8g$ (Motion/ Impact Sensing)

Secondary Processor for Acceleration Data and Buffering at 1500Hz

Internal GSM/GPS antennae

SirfStar III high Sensitivity GPS receiver

UDP Communication to Web Server

Integrated 2000 mA LiIon rechargeable Battery

Two wire Installation (GND and IGN)

Additional Sense Wire Input

NO current drain on the main battery when IGN off

I am alive /Wakeup Every 4 hours when IGN off.

Extensive Configuration Via SMS

Over the Air Software Upgrade Via FTP download.

Quad Band GSM/GPRS Modem

Cell ID Backup

Python™ Operating System with Python Script

Status LEDs – Power, GPS and GSM

Operating Temperature -20°C - $+55^{\circ}\text{C}$

Operating Voltage 9-32 Vdc .

Dimensions 125 x 88 x 33 mm.

Serial RS232 Command Port for Programming and Debugging.

Trak5001

Hardware

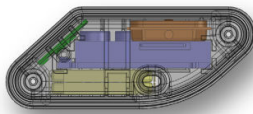
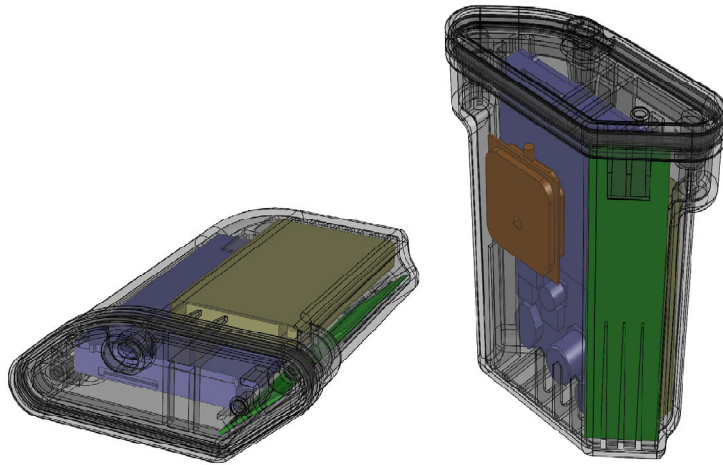
- 4 Layer PCB – With Ground and Power
- PCB design meets Component Manufactures Recommendations
- Two WIRE INSTALL
- Cable Cut Detection Using Sensed Input
- Proper Placements for GSM and GPS antennae
- Accessible SIM within the unit
- High Battery Capacity – 2000 mAH
- Custom Designed Injection Moulding Enclosure
- Zero Current Draw from the Vehicle Battery when in sleep mode
- Secondary High Speed Acceleration processor
- Operating Voltage (9 – 35 Vdc)

Software/Firmware

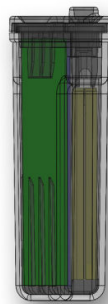
- Extensive Configurations Commands
- Modular Development
- Battery Management
- Extensive All In Once Communications Format
- Two way SMS functionality
- UDP GPRS Communication for Low GPRS Usage
- FTP GPRS Communications
- TCP/IP GPRS Communications
- EMAIL Direct Communications – eliminate the need for a gateway
- EMAIL Direct Altering
- Accident Recognition
- Mileage (Odometer) Memory
- High Accuracy GPS based Mileage Calculation
- Extensive Diagnostics
- Auto Erase of Log Data once uploaded to the Server.
- Multiplexed Command Port Facility for OEM integration
- Extensive Error Trapping to ensure Software Integrity
- Vanilla Software Strategy – eliminates the need for any user configuration

Trak generic functions summary

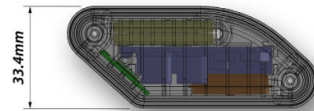
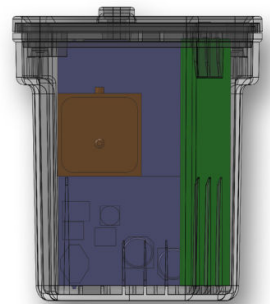
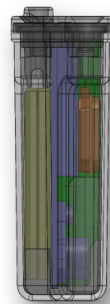
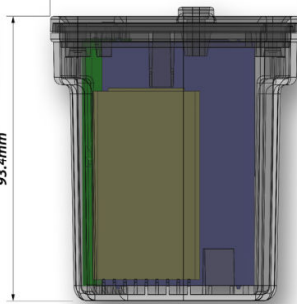
- 4 seconds Ignition on/off de-Bounce.
- 30 Seconds Average Speed Calculation- for Speeding Alerts above 90 mph.
- Wire Cut Detection
- Tow Away Detection.
- Tamper Detections using Accelerometer when Ignition Off.
- Tamper is classified to be any motion detections without the Ignition on within 20 seconds.
- Impact Detection (3 Dimensional Gforce measurement) when Ignition is on.
- Four Hour Wakeup (I am alive) after Ignition Off.
- Internal Rechargeable battery (approx 60 wakeup).
- Low Battery Alert at 50% Capacity- Internal Battery only.
- CellID backup to the GPS.
- Over the Air upgrade via FTP download.
- LiveTracking mode at 4 seconds Interval.
- Internal GPS Odometer with 1 seconds Resolution.
- On board Temperature sensor.
- Five Minutes update rate to the gateway
- 10 seconds Ignition On/ Off update to the gateway.
- UDP Data Transfer to the gateway
- Number of GPS Satellite In view
- Two or Three Dimensional Fix
- Cellular/GSM Network Name and Signal Strength
- Global Roaming Enabled.



73.0mm



93.4mm



33.4mm