GSM/GPS BASED VEHICLE TRACKING SYSTEM



FEATURES

- 32 Bit Cortex M3 Microcontroller
- External Flash for storage of data when GPRS is not available
- Multi Slot Class 12 GSM / GPRS Module
- 48 Channel GPS Receiver with -161 dBm gain
- Local and Over The Air (OTA)* Software Download
- Local and Over The Air (OTA) Configuration
- Secured Over The Air (OTA) Configuration
- Supports SMS; TCP; UDP and HTTP Communication Protocols
- Built in Geo-Fence Feature (10 Zones)
- Configurable Geo-Fence zones locally and Over The Air (OTA)
- GPS Odometer
- Wide DC Input Operating Voltage (9V to 36V)
- Main Power Reverse connection protection
- Main Power Over Voltage protection
- Built-In 7.4V / 900 mA Li-Ion Battery.

- Alert for low internal battery
- On demand vehicle location on GPRS enabled phones
- Remote device status monitoring
- Alert for GPS Antenna Tampering
- Alert for Main Power tampering
- Alerts for Over Speed, Harsh Acceleration* & Harsh Breaking*
- Alert for Ignition and Engine On & Off *
- · Alerts for IO Ports status
- GPS Odometer
- SOS Switch supporting configurable message and 3 numbers
- Buzzer indication for SOS switch*
- Buzzer indication for over speed*
- Default IOs: 2 Digital Inputs; 1 Digital Output & 1 Analog Input
- RS232 Serial Port
- Configurable GSM & GPS intervals for Main Power, Internal Battery and Roaming
- Dynamic Data Sending Mode
- Configurable history data sending methods
- User Configurable Alerts (SMS / GPRS)
- LED Indication for Main Power; Internal Battery; GSM & GPS Status
- Provision for 2 server IPs and Ports
- Provision for 2 server mobile numbers

TECHNICAL SPECIFICATIONS

Operating Voltage

- 9 to 36V DC
- 7.4V / 900 mA Li-Ion Internal Battery

MCU & Memory

- ARM Cortex-M3; 32 Bit; 64K SRAM; 256K Flash
- External Data Flash Storage

GSM / GPRS Communication

Dual Band GSM 900 / 1800 MHz

- Sensitivity: -107 dBm
- GPRS Class 12 (Max. 85.6 kbps Uplink & Downlink)
- Protocols: TCP/ UDP/ HTTP
- SMS: Point to Point MO & MT; Text & PDU Mode

GPS Communication

- L1 Frequency; 1575.42 MHz
- 48 Channels
- -160 dBm gain
- Horizontal Position Accuracy of <2.5 meters

LED Indications

- LED for Main Power
- LED for Internal battery
- LED for GSM Network
- LED for GPS Network

External Interfaces

- Power Cable with IOs
- RS-232 Serial Port
- SOS Switch

Mechanical

- IP65 ABS Plastic Enclosure
- Dimensions: 99 x 70 x 32 mm
- Wall / Table Mounting

Environmental

- Operating Temperature: -20° to +65° C
- Storage Temperature: -25° to +75° C
- Humidity: 95% ROH Non Condensing

BENEFITS

- Provides real time vehicle location
- Improves response time
- Information about status of various parameters like Ignition, Engine, AC, Over Speed... etc
- Better control on fleet Efficiency, which reduces the fleet operating cost
- Improve Vehicle routing and make it more efficient and productive
- Avoids unauthorized use of Vehicle
- Monitors vehicle driving conditions which helps to control fuel costs
- Extends fleet life
- Prevent loss of goods and services
- Avoidance of fraudulent claims
- Theft recovery
- Monitor the health of Vehicle battery
- Integration Of third party accessories like RF Readers, Temperature sensors and Fuel level sensors
- GPS Odometer to cross check vehicle odometer