

## Features

- Functions as a standard GSM/GPRS modem.
- Panic button and over speed detection to alert remote host.
- Reset with KEY-ON function.
- Car alarm remote control.
- Memory capacity of up to 5000 standard reports.
- Cell ID report for location tracking when GPS signal is weak.
- Communication protocols: GSM (SMS), or GPRS (TCP/UDP) connection.
- Configurable up to 10 SMS number lists, 10 GPRS profiles, 10 TCP/IP addresses, 10 UDP/IP addresses and programmable device ID.
- 20 geographical fences, 20 pre-programmable text messages and 20 event definitions.
- Firmware upgrade Over-The-Air (OTA) via TFTP (GPRS).
- Configuration and send data Over-The-Air (OTA) via SMS (GSM) and TCP/UDP (GPRS).
- Network ping operation and Keep-Alive heartbeat message.
- Voice call and silent call (local and remote auto-switchable).
- USB On-The-Go (OTG) ready.
- Supports loud speaker, internal and external MIC for voice call.
- Allows switch over between two SIM cards for border crossing.
- SMS center number and password protection.
- Mileage counters for distance notification.
- 12 programmable digital/analog input/output ports.
- External watchdog timer to prevent firmware lockup.
- Low power detection for battery and external power source.
- Programmable accelerometer setting for motion detection and power saving.
- Tamper sensing of antenna to alert remote host.
- Internal and external GSM, GPS antenna.
- GPS with Dead Reckoning.
- Configure the MTD2000 via MTD Configuration Software.

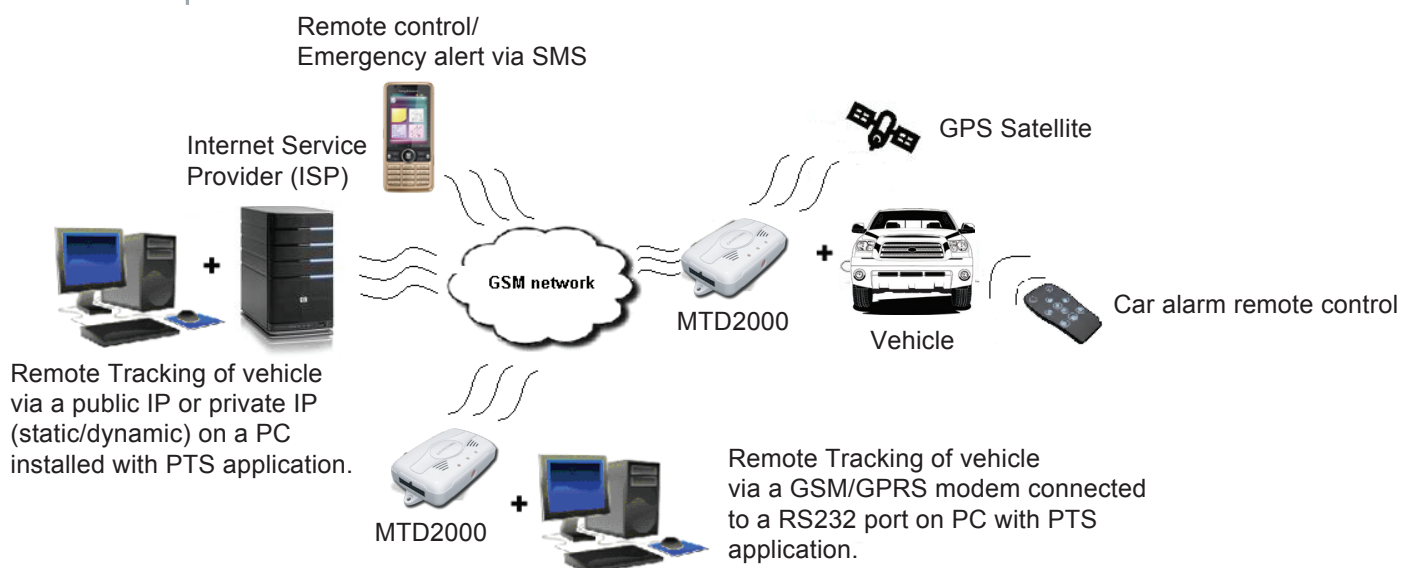
## GSM / GPS / GPRS Mobile Tracking Device



## Applications

- Vehicle tracking device.
- Anti-theft (with motion detection).
- Location Tracking via Personal Tracking System (PTS) integrated with Google Earth Software.
- Personal emergency alert with panic button.
- 2-way wireless communication.
- Tracking without GPS signals. (Tunnels, underground parking lots, etc, with Dead Reckoning tracking.)

## System Setup



\* Specifications subject to change without notice.

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## Specifications

- Product Size : 128(L) x 71(W) x 38(H)mm
- Weight : 120 grams (including battery)

### Environment Specification

- Standard operating temperature range:
  - -20 to 60°C (with internal battery)
- Extended operating temperature range:
  - -40 to +80°C (reduced specification, without internal battery)
- Storage temperature range:
  - -20 to +60°C

### Electrical Specification

- RS232 communication port (RS232 or TTL)
- 12 Programmable Digital/Analog Input/Output ports:
  - 11 Programmable Input Ports (30V)
  - 4 Programmable sink/source output ports (30V / 1.2A)
  - 1 Programmable sink/source Fail-safe output port (30V / 1.2A)
  - 1 Programmable analog input (balance)
  - 1 Programmable analog output (30V / 10mA)
- Operating Voltage: 8 ~ 30V
- LED indicator: 1 X for GSM signal, 1 X for charging status, 1 X GPS fix

## GSM / GPS / GPRS Mobile Tracking Device



### GSM Module Specifications

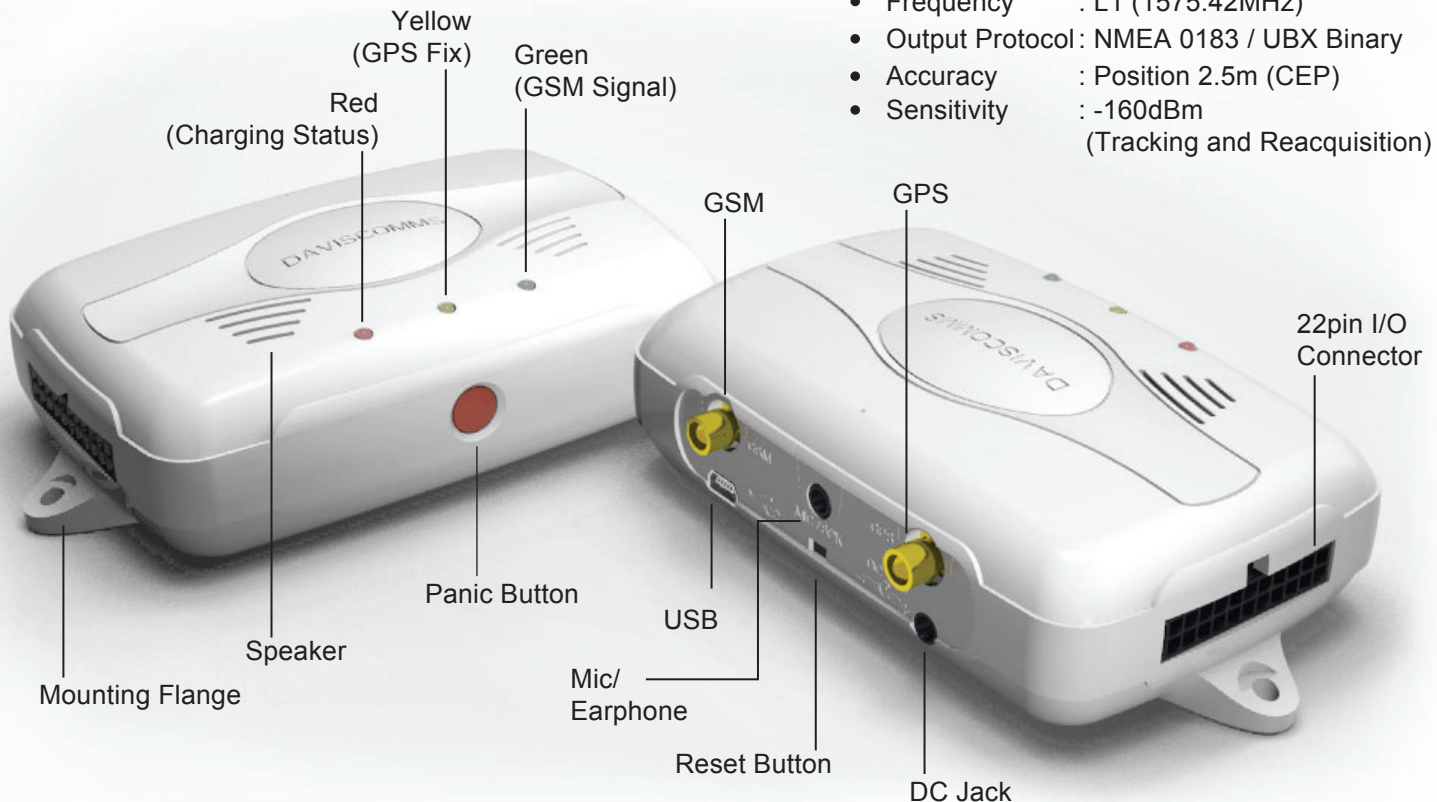
( Siemens MC55i )

- Quad Band : GSM (850/900/1800/1900)
- GPRS : Multi-slot Class 10
- SIM Card : Supports 1.8V and 3V SIM Card

### GPS Module Specifications

( Ublox LEA-5M / 4R )

- Frequency : L1 (1575.42MHz)
- Output Protocol: NMEA 0183 / UBX Binary
- Accuracy : Position 2.5m (CEP)
- Sensitivity : -160dBm (Tracking and Reacquisition)



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