

uTrac *MobileTracker-G1*

Automatic Vehicle Locating System

The System that provides for the monitoring & Management of vehicles.



The AVLS **uTrac** MobileTracker-G1 is a second generation Mobile Control Unit that is installed in a vehicle to acquire its location, as well as data related to pre-determined events or incidents. It is a component of the **uTrac (Universal Tracker)** System that provides for the monitoring and management of vehicles deployed within a fleet. The data acquired by the **uTrac** MobileTracker-G1 are communicated to a Central Monitoring Station located at the management office of the user that logs and process the incoming data from the Mobile Control Unit with the **uTrac** base station application software installed on a Personal Computer system or a Local Area Network system. The processed data are then displayed on the PC display or LAN terminals, with position data displayed on maps or charts.

The product incorporates an intelligent controller board with a built-in 12 parallel-channel GPS engine that acquires the position data of the vehicle from the satellite constellation of the Global Positioning System. Several product variants are available for use with different communication platforms for the transceiving of data from the MobileTracker-G1 to the Central Monitoring Station and vice versa.

The functions of the MobileTracker-G1 include transmission of position reports after being polled by, or according to the time intervals, distance traveling defined from the Central Monitoring Station. Vehicle related events monitored through configurable I/O ports of the unit can also be transmitted to the Central Monitoring Station. The position reporting and I/O configurations of the MobileTracker-G1 can be changed or modified at any time by the Central Monitoring Station off the air, via any of the selected GSM communication network.

An optional enhancement for the MobileTracker-G1 is the interfacing of a Mobile Data Terminal (MDT) to the unit. The MDT will enable two-way text messaging between the Central Monitoring Station and the Mobile Control Unit.

Support Tri-band GSM
900/1800/1900

Built-in Global Positioning System module (12 parallel channels) with accuracy of 5-10m.

Hands-free Voice Communication

Standard configurable I/O (Analog/Digital)

AVLS

Universal Tracker

Product Data



Features

- Ignition On / Off detection
- Analogue / Digital Configurable I/O
- Hands-free voice communications (with microphone and hands-free kit)
- Mobile Data Terminal (two-way text messaging) - Optional
- Main power supply "cut" alert with an optional back-up battery.
- Provides automatic switch-over to back-up battery in the event of external supply disconnection (Optional).
- Transmits position of vehicle according to time interval or distance set by base station.
- Transmits position of vehicle when requested by base station.
- Transmits position of vehicle and event (activates based on sensor's setting)
- MCU's setting configurable by base station off-the-air (via SMS/GPRS).
- Position reporting rate of as fast as 10 seconds per report via SMS.
- Position reporting rate of as fast as 1-2 seconds per report via GPRS.
- Automatic mileage calculation upon leaving and entering the base polygon (by trip)
- Very fast polling speed for vehicle position report.
- Allows for the real-time monitoring of vehicles entering/leaving pre-defined zones. Alert advisory is sent by MCU intelligently to the AVLS base station when it enters and leaves the pre-defined zones.

Specifications

GSM Module

- Tri-Band GSM 900 / GSM 1800 / GSM 1900
- Power RF output 2 watts at EGSM 900 (Class 4)
1 watt at GSM1800 & GSM1900 (Class 1)
- SIM-card reader interface 3V SIM-cards
- GPRS multi slot class 10 / mobile station class B PPP-STACK
- GPRS Data downlink transfer Max. 85.6 kbps
- GPRS Data uplink transfer Max. 42.8 kbps

GPS Module

- Chipset Version SiRF STAR III
- Frequency 1575.42 MHz
- Channels 12 parallel-channels
- Accuracy 5-10m
- Position update 1 second
- Dynamics 6G acceleration

Environmental

Dimensions of housing 95(L) x 77(W) x 30(H) mm

Housing Material Aluminium, metal-finished

Power Supply (Input) Universal switching power supply
10 - 40Vdc with reversed polarity protection

Power Consumption (Max.) Max:350mA (with GSM full power, tracking GPS satellite)

Standby Power Consumption 105 mA
(with only GSM & GPS on)

Operating Temperature -20°C to +55°C

DISTRIBUTOR