

# uTrac

## MobileTracker: uH-5i

Dual Communication Channel Vessel Tracking Unit For Vessel Tracking & Monitoring System

*The mobile hardware unit that provides for the monitoring & management of vehicle/vessel fleets.*



The **uTrac** Satellite GSM/Iridium Hybrid MobileTracker - *uH-5i* is a revolutionary hybrid device for tracking, monitoring & surveillance of vessel for low investments and modest air-time running cost as well as can use for vehicle land tracking.

The position data acquired by the *uH-5i* are communicated via the both GSM (GPRS/SMS) & Iridium satellite networks to a Central Monitoring Station located at the management office of the user that logs and process the incoming position data to display on the monitoring software.

The product incorporates an intelligent controller-charger board with a back-up battery, a GSM terminal and an Iridium transceiver with a built-in 55 channels GPS receiver that acquires the position data of the vessel from the satellite constellation of the Global Positioning System.

*uH-5i* utilizes a combination of Iridium and GSM networks as the data communication platform for the transceiving of data which reduced communication transmission costs.

### Mobile Tracker: uH-5i

The functions of *uH-5i* include transmission of position reports after being polled by, or according to the time intervals, or distance travelled as defined by the Central Monitoring Station. Vessel related events monitored through configurable I/O ports of the unit can also be transmitted to the Central Monitoring Station. The position reporting interval of the *uH-5i* can be changed or modified at any time by the Central Monitoring Station off the air (OTA).



Without dependency on cellular, radio or any other ground to air networks, *uH-5i* works anywhere in the world. This makes it the most ideal terminal for use in mobile marine, air or remote land applications. *uH-5i* has a sleek IP-66 waterproof standard housing and features multiple inputs/outputs for connection with sensors and detectors to fully optimize *uH-5i*'s capability. Its robust durability design is for use in extreme environment conditions. *uH-5i* is the ideal solution for customers looking for a satellite tracker with world coverage tracking, an advanced tracker, a vehicle tracker, and a container, vessel or cargo tracker for fleet management.

All hardware components fully compliant with EU RoHS Directive

Automatic switch between GSM and satellite networks depending on the signal to output real time data

Worldwide coverage. GSM network operates as primary & Iridium as secondary to save cost

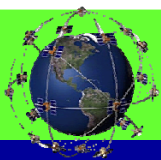
SOS, ignition alerts, fuel level sensor, temperature sensor, 2-way Audio line and many more

# VTMS

## Universal Tracker

Product Data

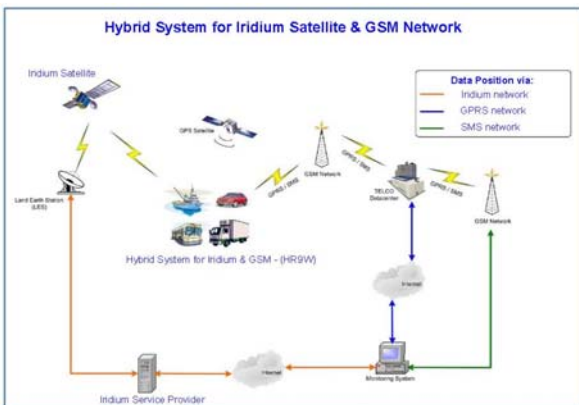
Model *uTrac* MobileTracker - *uH-5i*



# uTrac Mobile Tracker - uH-5i

## Features

- Transmits position of vessel according to time interval or distance set by base station via off the air (OTA).
- Transmits position of vessel when requested by base station.
- Both analogue and digital I/O are available for interface with various sensors.
- Automatic switch to Iridium network when outside GSM network coverage.
- Ignition On/Off detection.
- Main power supply cut/resume alert with a back-up battery.
- Distress button pressed alert.
- Tamper with/reset alert
- Back-up battery level low alert
- Intelligent controller/charger unit
- Automatic save and resend messages up to 1000 positions log.
- An exceptional 72 hours of operating autonomy with backup battery when main power supply disconnected.
- 6 Digital Input and 4 Digital Output
- 3 Analog Input
- I-Wire Interface
- Audio Interface



## AT5 GSM Module

### Physical Characteristics

- Dimensions: 100 x 65 x 26 mm
- Weight: 155g
- Housing: Waterproof Casing (IP-66)
- Operating Temperature: -30°C ~ +80°C

### Electrical Characteristics

- Power Supply: +8V ~ 40V DC (+/-20%)
- Current Consumption: Operating: 80mA@12V  
Deep Sleep Mode: 4mA@12V
- Backup Battery: Internal 3.7V 900mAh rechargeable Li-ion battery

### GSM Communication

- Quad-Band: 850 / 900 / 1800 / 1900 MHz
- Cellular Antenna: External

### GPS/GLONASS

- Frequency: GPS L1/1575.42MHz  
GLONASS L1/1598.0625~1605.375MHz
- Sensitivity Channels: GPS: 22; GLONASS: 33
- Accuracy: 3.0m CEP 50
- GPS Antenna: External GPS active antenna

## Iridium Satellite 9602W Module

### Physical Characteristics

- Dimensions: 71 x 48 x 26 mm
- Weight: 141g
- Housing: Waterproof Casing (IP-66)
- Operating Temperature: -30°C ~ +85°C

### Electrical Characteristics

- Power Supply: +4.5V ~ 32V DC
- Current Consumption: Operating: 1.5A@5V  
Standby: 45mA@5V

### RF Communication

- Frequency: 1616 to 1626MHz
- Iridium Antenna: External

## Maritime Communications Sdn. Bhd.

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