



Scope
Technologies

MHub

Define your own path to mobile solutions



MHub

The **Mobile Hub** (MHub) is a *powerful integrated mobile platform* designed to facilitate a variety of vehicle and distribution management functions.

MHub has been designed to help organisations reduce fleet maintenance and operational costs by proactively monitoring vehicles and increasing fleet utilisation and productivity.



The modular software structure enables customisation of the system's functionality through selection of specific services that suit each user's requirements. Additional functions can therefore be added as requirements change, thereby protecting each user's investment.

Location

Using its onboard Global Positioning System (GPS), the MHub can pinpoint each vehicle's real time location as well as provide historical trip data. This information can be used to improve real time resource allocation, analyse productivity and alert to security related events such as vehicle theft or misuse.

Driver Performance

Active monitoring of parameters such as speeding, harsh braking or over-revving assists fleet operators in evaluating driver performance and the impact of driver abuse on maintenance and operational costs.

In-Vehicle Networks

Using the MHub's powerful interface to a vehicle's "in-vehicle network", a wide range of engineering data can be monitored and reported. This can include information such as engine malfunction, fuel consumption, overheating, brake usage and air filter status. This information can be used for a number of purposes such as preventative maintenance, operational analysis, and the setting of vehicle terrain parameters.

No-Go Zone

Up to 2000 no-go zones can be configured and downloaded into the MHub unit via various means of communication available such as GSM, GPRS, etc. Any entry to and exit from these no-go zones will generate a high priority alert to the fleet operator to take appropriate action.

Distribution Manager

The MHub distribution manager is a powerful management tool for downloading optimised daily distribution schedules to the MHub unit, and thereafter the monitoring by the MHub of actual vehicle movements versus planned movements. Utilising this module, the operations centre receiving the data can adopt a real time proactive approach to any deviations from a plan, thus optimising future schedules based on an analysis of historical schedules.

Accident Reconstruction

The MHub logs all vehicle events on a second-by-second basis. In the event of an accident, data pertaining to the last 60 seconds prior to the accident can be utilised to reconstruct the vehicle's behaviour prior to and including the moment of impact.

Accessories

- § Intelligent Driver Key – All details relating to the driver usage profile such as the driver's ID, allowed driving times, authorized driving area, etc., are configured in the key. Any vehicle usage is enabled through driver authentication.
- § Hands Free Kit – Utilizing advanced noise filtering embedded technology, the hands free kit provides safer usage of voice calls. Outbound dialing is limited to 4 pre-defined numbers identified by the Fleet Operator, thus reducing communication costs.



Specification

Physical Characteristics

Dimensions: Length: 89 mm Width: 121 mm Height: 35 mm

Weight: 330g

Inputs / Outputs

Digital Inputs: 5

Frequency inputs: 2

1-Wire Bus: 1

Analogue Inputs (Optional): 2

Open Collector Outputs: 4

Power

Power Input: 10V – 36V DC

Average Power: 80mA

Battery Backup (Clock & Memory): 10 years

Operational Battery Backup: Up to 24 Hours

Environment

Operating Temperature: 60C

Humidity: 90% non-condensing

Communications

Cellular Platform: GSM/GPRS 900/1800/1900 MHz

Serial Interface: 3 x RS232 Ports
1 x Driver Key Port

Regulatory

Vehicle Device Directive 95/54/EC. E-Mark Approved

