

MOBILE HUB SERIES MHub837



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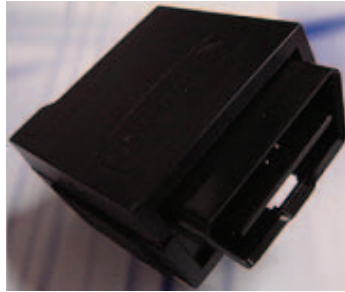


MHUB837

The MHub837 is a new generation vehicle activity monitoring and tracking device specifically tailored for the PAYD insurance market initiative. The primary purpose of the device is to provide vehicle and driver activity information which can be utilized to assess the risk levels associated with any given driver or vehicle.

The information includes a wide variety of usage information including mileage, daily activity summary, driver behaviour (i.e. speeding, harsh braking, curves at high speed, etc.), accident notification and reconstruction data, and a variety of consumer added value services.

The unit can be either self installed via a connection to the vehicle's OBD II port, or alternatively as a normal wired installation to power, ignition etc., via a certified installer.



FEATURES

Automatic Vehicle Location [AVL]

Using its onboard Global Positioning System (GPS) receiver the MHub provides accurate location information. Additional information includes trip data, driver identification, input status, output control, speeding and odometer.

Driver Management

Active monitoring of abusive driver behaviour. Monitored parameters include excessive idle, harsh braking, excessive acceleration, speeding, over-revving and free wheeling. The analysed information provides the operator with a valuable tool to minimize fuel and maintenance costs while maximizing safety.

Zone Management

Monitoring of entry and exit of user defined geofences. Geofences downloaded to the MHub can be categorised (i.e. customers, fuel stations, depots, etc.) and linked to user defined actions. An example would be the unlocking of the cargo doors on entering a customer location.

Insurance

PAYD based policies use online and historical data to improve risk assessment as well as enhance client based loyalty and revenue and the ability to cater for profile based advertising.

Accident Reconstruction

The MHub logs relevant vehicle data including location, speed, direction and harsh braking on a second-by-second basis. After detecting an impact, the device automatically transmits the accident log to a centralised platform. This provides the operator with an accident notification and full reconstruction of the events leading to the accident.

Power Modes

Using the latest technologies, the MHub has the ability to intelligently switch between various power modes while maintaining full functional ability. The device can reduce its power consumption to levels well below industry standards, allowing a vehicle to stand for weeks without being driven, while not excessively draining the vehicle battery.

Daily Activity Summary

The vehicle's daily activity summary is sent to the insurance company back office systems. The information provides the insurers with advanced tools enabling the management of the risk profile associated with any given vehicle policy. Some of the information included in the summary : total driving hours, hours spent driving at night, odometer reading, number of speeding events, hours spent in high-risk areas and number of trips.

Least Cost Routing

Utilising a proprietary intelligent messaging engine, the MHub selects the least cost data transmission based on user defined parameters of location (i.e. roaming status), data priority and availability of communication bearers. An example would be the switching of the communication method from GPRS to SMS for high priority events when roaming while storing all the low priority unsent data and resuming transmission via GPRS of the low priority data when returning to home network.

In Vehicle Networks

Interface to the standard OBD-II vehicle networks. The vehicle data provided includes essential information such as Speed, RPM, VIN Number, Coolant, Engine Load, Throttle Position, MAF, MIL, Fuel Level, Air intake, Start Time.

PDA Interface

Communication and data file transfers (i.e. invoices, routes, EPOD files, etc.) between the PDA and back office platforms are facilitated via the MHub, ensuring a reliable means of data synchronisation. Interface between the PDA and the MHub is provided via an easily integrated API.

Dynamic Trigger Configuration (DTC)

Utilising an intelligent proprietary Dynamic Trigger Configuration (DTC) engine, any user defined event and an associated action can be configured and applied to the MHub unit over the air, providing an easily adaptable platform to dynamically changing requirements. navigation systems.

Digital Tachograph Interface

The provision of realtime information tachograph information relating to the working state, drive time, vehicle speed and driver cards, etc.

Onboard Navigation Assistance

Real time GPS data is channelled to 3rd party navigation systems.

Accessories

- PDA/PND Device
- Driver ID Tag

TECHNICAL SPECIFICATIONS

Physical Characteristics	
Dimensions:	57mm x 48mm x 25mm Including OBD-II Connector
Enclosure:	Plastic
Weight:	65g
Ports	
OBD-II Protocols:	ISO-9141, ISO-14230, VPW, PWM, CAN
Serial Ports:	1
USB:	Host and Device
Driver ID Ports:	1
Power	
Power Input:	6V – 20V DC
Power Consumption	
Full Power Mode:	60mA
Deep Sleep Mode:	2mA
Rechargeable Battery:	900mAh
Battery Backup:	4 Hours
Environment	
Operating Temperature:	-30°C to +70°C
Humidity:	90% non-condensing
Communications	
Cellular Platform:	Quad-band EGSM/GPRS 850/900/1800/1900 MHz
GPRS:	Class 10
Antenna:	Internal
GPS Receiver	
Accuracy:	2.5m
Antenna:	Internal

BENEFITS

- Enhanced Security and Safety of Assets
- Improved Operating Efficiencies
- Cost Control
- Maximization of Asset Utilisation
- Increased Customer Satisfaction
- Efficient Asset Recovery
- Reduced Equipment Inventories
- Elimination of Unauthorised Usage of Mobile Assets
- Integration With Other Enterprise Wide Applications / Systems to Improve Overall Resource Management