

MOBILE HUB SERIES : MHUB 701



The MHub 701 is a Telematics unit, primarily suited to the retail and insurance markets. The device provides comprehensive vehicle activity information designed to assist insurance companies in managing the vehicle's risk profile while offering safety features to the consumer. The MHub 701 forms part of the MHub Fleet Telematics series designed to address many of the operational challenges prevalent amongst the insurance, leasing and commercial fleets. These include basic activity monitoring, passenger safety, reduction of the operating costs and enhancing the management of the Supply Chain. The MHub unit has been deployed around the globe across a variety of industries including logistics, utilities, insurance, telecoms, public transport, emergency vehicles.



FEATURES

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. The summary includes the following: total driving hours, hours spent driving at night, odometer reading, number of speeding events, hours spent in high-risk areas, number of trips.

Vehicle Recovery

On detection of a vehicle theft, an active vehicle recovery profile can be activated. The profile will automatically trigger a high frequency interval position reporting, and activation of user-defined outputs such as hazard lights, vehicle horn, etc. Immobilisation can be triggered to disable the vehicle.

Accident Reconstruction

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

Speed Trap Alerts

Location of the speed traps relevant to the driver's geographical area can be downloaded to the device. On approaching a speed trap location, the MHub unit monitors any speeding instance, and notifies the driver of the speed trap by means of a buzzer.

Geofence Management

Entry and exit of user-defined geographical areas can be monitored and notified by means of text message to a mobile phone or to a web application.

Safe Mode

A safe mode profile can be triggered on the MHub using a scotch call. The safe mode enables the monitoring of safety related features and text message notification of any breaches to a user-defined mobile number. Safety features include the following: speeding, accident notification and entry to high-risk areas.

Tow Detection

Unauthorised movement of the vehicle while ignition is off is notified by means of a text message to a user-defined mobile number.

Business Trip Log

All business related trips can be easily identified by the user and provided in a monthly report.

Power Modes

Using the latest technologies, the MHub has the ability to intelligently switch between various power modes subject to its detected ignition status. The device can reduce its power consumption to levels well below industry standards, allowing a vehicle to be utilized for weeks, while not excessively draining the vehicle battery.

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 the home network.

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.

Output Control

Outputs such as door unlock can be controlled by an approved user's mobile phone.

Onboard Navigation Assistance

Real time (GPS) data can be channelled to 3rd party navigation systems.

TECHNICAL SPECIFICATIONS

Physical Characteristics	
Dimensions:	Length: 78 mm Width: 129 mm Height: 26 mm
Enclosure:	plastic
Weight:	164g
Inputs / Outputs	
Digital Inputs:	5
Frequency inputs:	2
Digital Outputs:	4
Power	
Power Input:	9V – 40V DC
Power Consumption	
Full Power Mode:	50ma
Deep Sleep Mode:	<7ma
Rechargeable battery:	900mah
Environment	
Operating Temperature:	-30°C to +70°C
Humidity:	90% non-condensing
Communications	
Cellular Platform:	GSM/GPRS 850/900/1800/1900 MHz
Serial ports:	2
Usb:	slave
Lin interface:	1

