EffiCube

The universal telematics platform

Why EffiCube?

EffiCube is the **new connected device for all heavy vehicles and machinery** in waste and municipal management: dump trucks, tipper trucks, snow removal machines, buses, sweepers and cleaners, compactors, agricultural machinery, public works equipment, etc.

EffiCube **enables the collection of all vehicle data at all times** in order to give you tangible information relevant for any type of application: **preventive maintenance, eco-driving, accident prevention, driving time, route management (waste collection, sweeping),** etc.

Efficube is an **open system accessible by APIs on the cloud or by WiFi,** that evolves to accomodate new data sources and regulations.

The advantages:

EffiCube has been **specifically designed to facilitate connectivity in vehicles.**

- **Compatible with all brands and types of vehicles and all CAN connections**
- **Easy to maintain plug-and-play model** (1DIN format and standard connections)
- Being an open system thanks to its APIs and broad data collection, **EffiCube provides all applications with high-quality information**
- **Constantly evolving** thanks to its new fuctions and remote CAN communication

Effitrax
Unlocking smart data

EffiCube is the **only universal telematics platform: compatible with all heavy vehicles,** it uploads all collected data and makes sure you are ready for **any present and future connected services**

EffiTrax is a **Belgian company** created in 2017 by **Belgian and French experts in transport, heavy vehicles and telematics.** The idea emerged out of an observation: the current telematics systems are too complex, closed, not scalable and not adapted to the accelerating technical changes.

EffiTrax's mission is to simplify the lives of fleetowners, OEMs and other Telematics users by offering them a **universal vehicle connectivity platform.**

Choosing EffiTrax is choosing a **guaranteed permanent access to data from all your vehicles and the benefit of a connected fleet.**

Unlocking smart data

EffiCube

Standard Features:

- Real-time acquisition of all sensor and CAN data with message interpretation thanks to the Vehicle Bus Interface (VBI), which can be fully configured
- Vehicle positioning via GPS
- Configurable vehicle status detection (on/off)
- Detection of vehicle activity according to its equipment
- API allowing data frames to be sent to the cloud either on user request or pre-programmed during system configuration
- Wifi connectivity as an access point or to an API for on-board real-time data access
- Diagnostic mode via an Android app
- Remote software update (OTA)

Advanced Features:

- Automatic emptying of the tachograph
- Black box-Function with possibility of accident reconstruction
- open for integration of cameras with on-board AI
- Eco-driving to reduce fuel consumption, accidents and CO_2 emissions
- Preventive maintenance
- Business management with collected data (rounds, activities, etc.)

Technical aspects:

- ARM CORTEX A8 processor at 800Mhz, powerful and scalable
- 3 CANBus interfaces :
  - CAN chassis type 1939 (FMS compatible),
  - CAN equipment type 1939 (tipper,TPMS or other),
  - CAN evolution (tachograph)
- 1 K-Line interface (I-Button)
- 4 configurable Analog inputs pressure, volume, temperature, etc.)
- 6 digital inputs (motion capture, reverse)
- One accelerometer and gyroscope for motion detection
- RS 485 and RS 232 ports (RFID reader or other serial equipment)
- GPS/GLONASS/GALILEO receiver
- Wireless connectivity :
  - LTE (2G/4G)
  - WiFi 802-11 a/b/g/n/ac (operating in accesspoint mode)
  - BLE type BT 4.2 (wireless sensors)
- 1 DIN size for easy installation and maintenance
- Integrated WiFi and BT antennas, external GPS antenna
- Standard connectors
- 9 to 48 Vdc power supply with battery backup
- Operating temperature -40°C to +85°C

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België :
HQ - Brugsesteenweg 253 B 0011, 8500 Kortrijk, België
Belgique :
A6K, Square des Martyrs, 6000 Charleroi, Belgique
France :
Euratechnologie, 165 Avenue de Bretagne, 59000 Lille, France
www.effitrax.com — info@effitrax.com — +32 56 29 65 31 — +33 9 70 26 56 18