

Advanced Diagnostic Device for Vehicles & Trucks

The iWatcher CAN Is a fleet management solution that supports full FMS protocol for trucks and OBD protocol for private cars as well as capabilities in real-time detection, driver behavior and diagnostics.

Utilizes the Global Positioning System (GPS) to lock on vehicles coordinates and use the GSM cellular network for controlling and monitoring of the vehicle status by SMS and GPRS communication channels. The unit also incorporates flexible I/O signal.

Provide a built-in CANBUS interface that enables accessibility to the CAN data of a vehicle for diagnostic and fleet management include tracking and retrieval of stolen vehicles.

Designed to meet strict automotive standards for durability, power consumption and working temperatures.

iWatcher CAN supports a wide variety of reports including emergency, geo-fence, tilt, tow, low battery, battery cut-off, Ignition status (on/off), Vehicle status (driving, parking), scheduled GPS position and addition data from the vehicle, such as: speed, RPM, fuel level, temperature, and more.

Benefits

- Real time vehicle tracking
- Offers fleet management and control application (MABAT online)
- Provide wide range of available service data from the vehicle (CAN), such as: speed, RPM, fuel level, temperature
- Provides alerts on driver behavior speeding, towing, tilt, low battery and battery cut-off
- Prevent ignition back in case of theft attempt (by control center request)
- Characterized by low power consumption, long standby time with internal battery
- Incorporates multiple I/O interfaces for monitoring and control
- Alerts sent to 3 cellular phones
- FOTA (Firmware Over The Air) update



Technical Specifications

GSM

- 2G USA version: bands 850 / 1900 MHz
- 2G EUR version: bands 900 / 1800 MHz
- 3G USA version: bands 850 / 1900 MHz
- 3G EUR version: bands 900 / 1800 MHz
- GPRS multi-slot Class 10/8
- Internal antenna - 50 Ohm onboard
- Integrated sim card holder

GNSS

- Internal GPS Module based on 56-channel (U-Blox) Max 7 Engine
- GPS/QZSS L1 C/A, GLONASS L1 FDMA
- SBAS: WAAS, EGNOS, MSAS
- Accuracy GPS / GLONASS Position 2.5 m CEP / 4.0 m
- SBAS 2.0 m CEP
- Tracking: -162 dBm / -158 dBm
- GPS-GLONASS external antenna

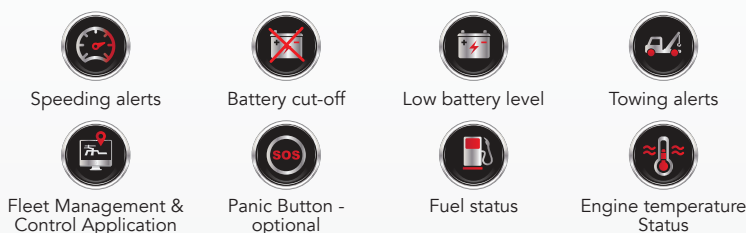
Protocols

- FMS - j 1939
- OBD - ISO J15765-4 and SAE J 2284

Interfaces

- CAN Bus connection through 2 wire I/O connector
Basic data collection by CAN Bus (depend on vehicle type): speed, RPM, fuel level, Engine temperature
- 4 digital inputs – ignition on/off, panic button, Alarm siren / doors - optional, alarm lights - optional
- 2 digital outputs – buzzer, engine cut-off
RS232 communication for programming and accessories
- 2.4 GHz wireless communication – optional

Features



Electrical characteristics

- Operating voltage 12 – 24 V DC
- Backup battery - Li-ion 3.7 v/1000 mAh

Communication Modes

- SMS /GPRS/RS232 (on stand-by or full operation mode)
- TCP/IP

Communication redundancy

- SMS backup
- Data logger backup

Miscellaneous

- Onboard status led
- Built in 3D G sensor – tow and tilt
- Jamming detection
- Over speed, vehicle battery cut-off and low power level

Operating temperature

- (-30°C to +85°C)

Dimensions

- Length 83 mm | Width 71 mm | Height 29 mm
- Weight 95 gr (without cable)

Enclosure

- Nonflammable PC-ABS

Accessories - Optional

- RFID Proximity card for driver identification
- Panic button



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