



Advanced Diagnostic Device For Vehicles & Trucks

Product Description:

The i-Watcher™ 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 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.

i-Watcher™ 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

- Enable to locate your vehicle in real time on On-Line Map.
- Offers Fleet Management and Control Application (MABAT On-Line).
- Provide wide range of available service data from the vehicle (CAN), such as: speed, RPM, fuel level, temperature, and more.
- Provides alerts on 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 dispatch up to 3 Cellular Phones.
- FOTA (Firmware Over The Air) update capability.



Technical Specifications

GSM

- GSM Quad-Band: 850 / 900 / 1800 / 1900 MHz
- GPRS multi-slot Class 10/8
- Internal antenna - 50 Ohm Onboard
- Integrated Sim Card holder
- 3G-optional

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): Vehicle speed, Vehicle RPM, Vehicle fuel level, Vehicle Engine temperature.
- 4 DIGITAL inputs – Ignition ON/OFF, Panic Button, Alarm Siren, Alarm Lights.
- 2 DIGITAL Outputs – (Prevent ignition back, Doors)
- RS232 for programming and accessories communication
- 2.4 GHz wireless communication – optional

Electrical characteristics

- Operating Voltage 12 – 24 V DC
- Sleep mode < 2 mA
- Backup battery - Li-ion 3.7 v/1000 mAh

Features



Alert on speeding



Battery cut-off



Low battery level



Towing alert



Fleet Management and Control Application



Panic Button - Optional



Fuel status



Engine temperature Status



5 Mavo Kedem St. Industrial Area Gil Amal. Hod Hasharon 45317 ISRAEL

+972.9.743.4555 +972.9.742.3666

www.iwatcherapp.com info@spetrotec.com

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 detector
- Over speed, Vehicle battery cut-off and low power level
- Up to three Cellular phones for getting alerts.rts.

Operating temperature

- (-30°C to +85°C)

Dimensions

- Length 83 mm | Width 71 mm | Height 29 mm

Weight

- 95 gr (without cable)

Enclosure

- Non flammable PC-ABS

Accessories

- RFID Proximity Card for driver identification – OPTIONAL
- Panic Button – OPTIONAL

