

FM3001

Teltonika FM3001 is EASY OBDII Plug and Play tracker with GNSS, 3G and Bluetooth connectivity. FM3001 is perfectly suitable for light vehicle tracking in applications like courier delivery service, car rental & leasing, insurance telematics and many other where simple integration is a must. FM3001 has additional feature – reading OBDII data from on-board computer. Device supports hands free, firmware and configuration update via Bluetooth. 3G feature makes this device usable worldwide.

- 3G – 3G connectivity – works worldwide
- Easy OBDII installation – no wires required – saves installer's time and reduces costs
- OBDII data – get OBDII data – expand value for customer



FLEET MANAGEMENT // FM3001



Bluetooth



Integrated Bluetooth 4.0 LE allows usage of various wireless sensors and grants compatibility with previously available Bluetooth V3.0 features like device configuration, firmware update, headset support. Retrieve temperature and humidity information from Bluetooth sensors without the need of wired connection – reduce installation costs. Save on fuel by reducing aggressive driving, increase your driver safety and reduce the number of driving-related incidents with Android application BTAPP.



Internal battery

Feel safe when vehicle is monitored by device with internal battery. When vehicle battery is disconnected, device still remains online and sends data to server.



Advanced antitheft system

Prevent your vehicle from theft with advanced antitheft functionality. Combine Auto Geofencing with new Towing detection functionality.



Smart Crash detection

Ensure safety of Your employee with smart Crash detection. Get alarm message immediately after accident, save workers life!



OBDII Data

FM3001 connects directly to car OBDII connector and is able to read up to 32 vehicle onboard parameters.



Operating voltage 10-30 V

Increased operating voltage grants possibility to use plug and play tracker for all types of transport. Avoid additional wiring and reduce installation costs not only for light vehicles, but also for trucks and other heavy machinery equipped with OBD II socket.



Car rental & leasing

Current vehicle location, status and track history are the main aspects for all rental service providers. Prevent theft with remote car lock management, receive notifications about possible contract violations, monitor driver behavior and areas where vehicle is driven – obtain standard tracking information and gain full control of your fleet.



Insurance telematics

Main reasons for insurance pay outs are car accidents and thefts. There have been at least 7 million cases of stolen vehicles around the world every year and this number keeps growing every day; figures in traffic accident statistics are even greater. Real time tracking, warnings when theft attempt or crash is detected, with possibility to trace accidents – all this to determine culprit and reduce expenses when unforeseen event occurs.



Courier delivery service

Quick and professional distribution of goods is the key to profit in delivery business. Route optimization can reduce your fuel expenses up to 30%; driver identification and behavior monitoring ensure high delivery standard and traceability, if any complaints need to be investigated. Gain full control of your fleet and resources with our solution.



Taxi

For Taxi Company to be competitive and profitable, you must have the most innovative technology on your command. It is not enough to deliver customer from point to point, you need to ensure safety and traceability. Communicate with driver via Bluetooth headset, send pick up destination, acquire necessary routing and fuel consumption information – manage your fleet with our solution for taxi business.



Security & emergency services

Concept of public security has changed significantly in the past decade. Safety of our society depends on technology which allows us to monitor, track and respond to emergency calls faster than ever. With our solution you will always know current location and status of your transport, thus ensuring quick response time to any kind of situation.

FM3001 TECHNICAL DETAILS

GSM/GPRS features	<p>UMTS/HSPA+, GSM/GPRS/EDGE module UMTS/HSPA+ bands: • 850/900/1700/1900/2100 MHZ HSPA+ uplink up to 5,76 Mbps, downlink up to 14.4 Mbps UMTS Uplink/Downlink up to 384 Kbps EDGE Uplink/Downlink up to 236.8 Kbps GPRS and EDGE class 12 SMS (text, data)</p>
Bluetooth	<p>Bluetooth® transceiver fully compliant with Bluetooth specification V4.0 LE for external peripherals: • Voice calls over Bluetooth® • Configuration and Firmware update via Bluetooth® • Bluetooth® sensors • OBDII Bluetooth® dongle</p>
GNSS	<p>33 channel GNSS receiver -165 dBm sensitivity Hot start <1s Warm start < 25s Cold start < 35s NMEA-183 protocol GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS Accuracy < 3m</p>
Interface	<p>1 Digital Input Reserved for Ignition Status Monitoring (depends on vehicle type) Accelerometer Power supply (+10...+30) V DC Integrated back-up battery Internal High Gain GSM antenna Internal High Gain GNSS antenna Dimensions: L(50,7mm)xW(49,6mm)xH(25mm) 2 Status LEDs Configuration and firmware upload (via FOTA, Bluetooth® and cable)</p>
Features	<p>128 MB internal flash memory Plug and Track With new integrated GNSS module, your tracking experience will be better than ever before. Even higher sensitivity, faster than ever cold start and almost instant hot start ensures that your fleet will be tracked precisely Bluetooth® transceiver fully compliant with Bluetooth® specification V4.0 LE for external peripherals Small and easy to mount case – directly to car OBDII connector High gain internal GSM antenna and internal GNSS antenna allow mount FMB204 much easier Real Time tracking Smart data acquisition based on time, distance, angle, speed delta, ignition and I/O events allow to have precise online tracker Sending acquired data via GPRS (TCP/IP and UDP/IP protocols) Smart algorithm of GPRS connections for GPRS traffic saving Operating in roaming networks by preferred GSM providers list Add all your unwanted GSM operators to black list Events from I/O elements detection and sending via GPRS or SMS 50 geofence zones (rectangular or circle) Auto Geofencing created for car towing detection and car theft prevention Towing detection using accelerometer</p>

FM3001 TECHNICAL DETAILS

Features

Deep Sleep mode (less than 6 mA power consumption)
Online Deep Sleep mode for constant connection with server
Firmware and configuration update via GPRS (FOTA)
3 operational modes (Home, Roaming, Unknown) based on operator
Time synchronization by NTP (Network Time Protocol) if GNSS signal is absent
Time synchronization by NITZ (Network Identity and Time Zone) if GNSS signal is absent
Integrated scenarios:

- Over speeding to secure driver and prevent penalties
- Trip start and end detection
- GSM jamming detection
- Excessive Idling detection

Vehicle onboard parameters reading

Bluetooth® scenarios:

- Voice calls over Bluetooth®
- OBDII Bluetooth® dongle
- Data link mode over Bluetooth®
- Bluetooth® sensors

