TELEMATICS Product catalog

February 2022

TELTONIKA | Telematics

WE PERSISTENTLY IMPROVE OUR DEVICES TO MEET YOUR BUSINESS NEEDS

Dear reader,

We are constantly looking for ways to not only meet and maintain the highest possible standards in the IoT industry but also to open up new horizons by persistently improving our devices to meet your business needs. As you may expect, regardless of the considerable challenges last year, Teltonika Telematics kept focusing on innovation and continues offering new GPS devices to our customers.

We are pleased to present to you the first edition of the year 2022 catalog with a wider range and new product categories. There are more of them now, and we believe this transition will help you get a fresh perspective, clarity, and convenience.

Recently, we successfully introduced two Bluetooth LE accessories – EYE Beacon and EYE Sensor. To bring maximum value, these models have a few novel FMB firmware features unique only to them as well as a low-cost configuration via an intuitive mobile application to save time and resources.

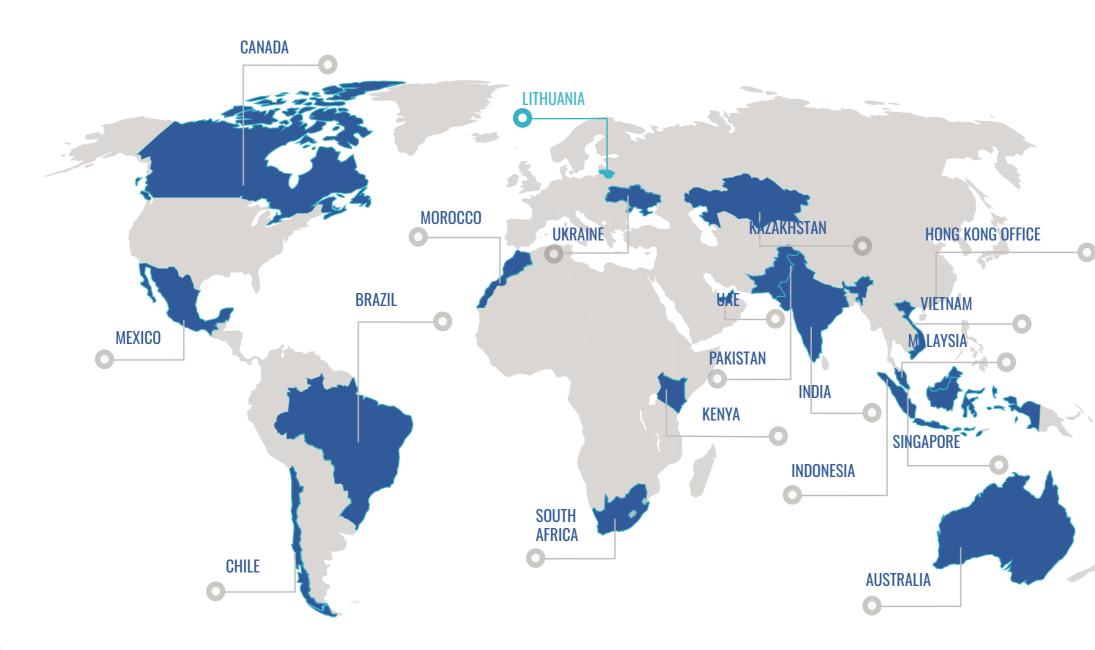
Also, we have announced a major expansion of the IP67 rating certified vehicle trackers and added six waterproof GPS devices to the product portfolio. Thanks to innovative click type casing, these models resolve tracking and monitoring challenges in harsh climatic conditions. As a result, our customers can have more business opportunities and gain a significant competitive advantage.

That said, I kindly invite you to explore our new product catalog, enjoy reading it and get the most out of it!



KONSTANTIN KOLMAKOV Chief Operating Officer, Teltonika Telematics





TELTONIKA OFFICES







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SHAKING THINGS UP: New Product Categories

There is a saying that "nothing is constant but change". Yes, we agree 100 per cent, but not only that... We encourage and accelerate the change. We celebrate it!

Why? You see, being a fast and flexible business partner reflects our need to be closer to our clients. And Teltonika Telematics does what it preaches – shaking things up!

We are pleased to introduce to you our latest catalog edition with new product categories. There are more of them now, and some have alternative names. Continuous development, improvements and updates of products leading to a growing range of vehicle GPS trackers, accessories, and solutions inevitably require a slightly different approach and arrangements. We truly believe, this reasonable transition will help you get a fresh perspective, clarity, convenience, and the best possible experience for years to come.

FAST & EASY

Incredibly simple installation in minutes to experience the benefits of vehicle telematics in the most time-efficient manner. No special skills or tools are required to mount these GPS devices. Literally, fast and easy!

ADVANCED

Sophisticated vehicle GPS trackers with flexible hardware features and practical allround solutions including various network connectivity options, waterproof IP67 rating casing, driver authentication and speed limiting control.

BASIC

Simple but smart vehicle GPS devices for basic tracking solutions, applicable to a great variety of use cases and scenarios. They are compact, reliable, accurate, affordable, and incredibly popular!

CAN & OBD DATA

Plug and play OBD II data vehicle trackers including ultra-small models, wired GPS devices with integrated CAN data processors and smart CAN bus adapters to acquire up to 100 parameters from different types of transport.

PROFESSIONAL

Comprehensive vehicle telematics solutions for professional applications and the most demanding customers. These GPS trackers allow the download of digital tachograph files, may read CAN bus data, and connect to an impressive variety of external accessories and equipment.

EYE SENSORS

Wireless Bluetooth LE sensors and ID beacons with unique smart features, robust IP67 casing, long lifetime batteries and handy mobile app to open up new business opportunities, diversify income streams and bring more value.



VIDEO TELEMATICS

Innovative video telematics solutions that capture videos or photos to detect, record, warn, and prevent unwanted behaviour and risky driving, keeping drivers, passengers, and road users safe.

– QUICK

installation and device setup with no special skills or tools required

choice to install la devices in a short



ge quantities of eriod of time

- ACCURATE

and detailed crash trace data based on 3-axis accelerometer



BATTERY-MOUNTED TRACKER



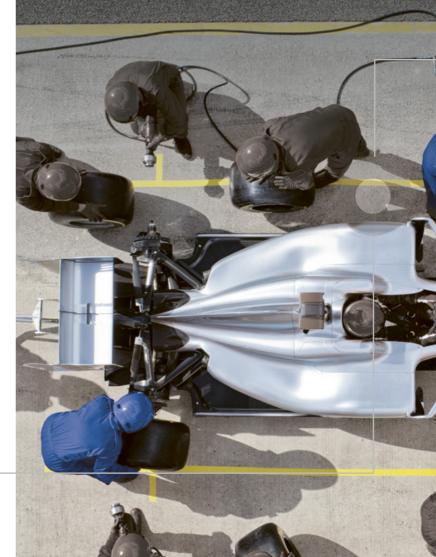
IP65	Standard robust design casing withstands poor weather conditions
CCELEROMETER	To ensure detailed acceleration data
BLUETOOTH LE	Grants four various BLE sensors and beacons support
12500 MODULE	GSM/GNSS/BLE support
10 - 30 V	DC with overvoltage protection
170 mAh	Back-up battery
128 MB	Internal flash memory
2G NETWORK	With global coverage

"

FMT100 is one of our most beloved products in the UK market. Sleek, waterproof and reliable design makes it easy to deploy on a mass scale – the device can be installed by virtually anyone in 5 minutes.

"

KAMIL URBANOVIČ Sales Manager, Nord Europe Region





FMT100 IS A TOP CHOICE FOR TROUBLE-FREE, FAST AND EASY INSTALLATION 77

INTRO

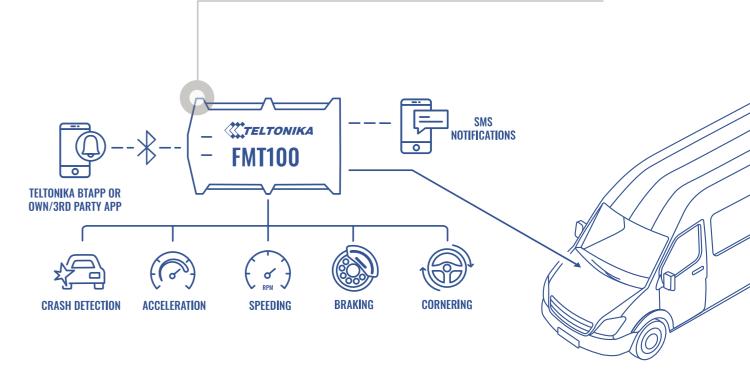
Teltonika Telematics offers FMT100, a sophisticated GPS tracker with a unique feature set and accurate data dedicated to the insurance industry and corporate fleets. By utilizing telematics-based products, insurers may reduce some common risks associated with insuring drivers, thus, leading to fewer claims. Thanks to the data provided by FMT100, customers can considerably improve their driving behavior. It is a win-win situation for businesses, traffic participants, police and society alike.

BENEFITS

All-in-one insurance industry dedicated feature set – FMT100 tracker has been designed, developed, manufactured and tested with the insurance industry specifics in mind.

Comprehensive and accurate data you can rely on – complete and detailed set of data to monitor, analyze and generate relevant reports of client portfolio or corporate fleet drivers.

Compact, robust and easy to install – slim, sturdy and durable Teltonika Telematics GPS device with a special clamp connector can be swiftly installed under 5 minutes.



FMP100 CIGARETTE LIGHTER TRACKER

BUILT-IN BUTTON RGB LED. BUZZER 1A CHARGER TELTONIKA | Telematics TM2500 MODULE -05002 10 - 30 V 170 MAH



Functionality to generate alarm event or use it as Private/Business trip switch Helps your driver to know the status of the device and events

smartphones or others

GSM/GNSS/BLE support

DC with overvoltage protection

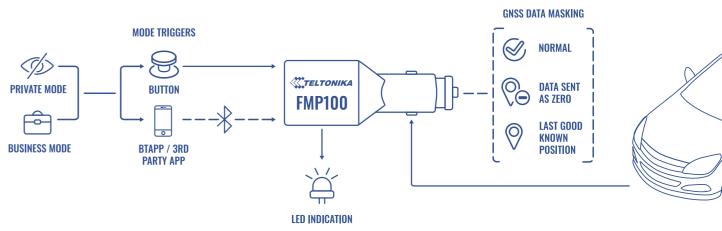
Internal flash memory

Grants four various BLE sensors and beacons support

With global coverage



It is a common practice in many businesses to allow employees to drive company cars for personal reasons. Keeping this in mind, Teltonika Telematics has developed a smart solution called Private/ Business Driving Mode to help companies to monitor and manage this process effectively. Whenever needed, our tracking devices stop sending GPS coordinates with a click of a button. This can be based on work/off-work hours or specified geo zones. Besides, it helps to comply with local laws and avoid unnecessary paperwork or penalties.



PRIVATE/BUSINESS DRIVING

• VALUABLE

tracking and diagnostic features extended with Bluetooth application

popularity and applicability in a variety of use cases

BASIG-

UNMATCHED

ways to monitor vehicle whereabouts, health and operational details

PRECISE



SMALL & SMART TRACKER





12 MM	Height, slim design device can be easily fitted in the tightest spaces	21 MM	Height, low-cost version of FMB920 tracker
CERAMIC	GNSS antenna design to reduce overall device size	CUSTOM METALLIC	GNSS antenna designed by Teltonika
IS ACCELEROMETER	Ensures detailed acceleration data in case of collision	3-AXIS ACCELEROMETER	Ensures detailed acceleration data in case of collision
TM2500 MODULE	GSM/GNSS/BLE support	TM2500 MODULE	GSM/GNSS/BLE support
BLUETOOTH LE	Grants four various BLE sensors and beacons support	BLUETOOTH LE	Grants four various BLE sensors and beacons support
MULTIPLE I/O	DIN, AIN, DOUT - for monitoring and control	MULTIPLE I/O	DIN, AIN, DOUT - for monitoring and control
6 - 30 V	DC with overvoltage protection	6 - 30 V	DC with overvoltage protection
128 MB	Internal flash memory	128 MB	Internal flash memory
2G NETWORK	With global coverage	2G NETWORK	With global coverage







FMB965 WATERPROOF TRACKER FOR MOTORCYCLES

ER OFF SLEEP MODE	For low power consumption
1200 mAh	Li-ion back-up battery for prolonged autonomous usage
CERTIFIED CASING	For protection against water and dust
3-AXIS	Accelerometer to ensure detailed acceleration data
BLUETOOTH LE	Grants four various BLE sensors and beacons support
10 - 30 V DC	With overvoltage protection
128 MB	Internal flash memory
2G NETWORK	With global coverage

When riding a motorcycle, harsh conditions and water splashes are very common. Keeping this in mind, we created FMB965, a tracking device that perfectly meets the needs of bike riders. It comes with water-resistant IP67 casing as well as 1200 mAh battery and Power off sleep mode to ensure a long battery life, while a motorcycle is not being used.

ROKAS GIRULIS Project Coordinator

"

22

- FLEXIBLE

hardware features combined with practical accessories for advanced use cases

assembly and l even in the harshe

ADVANCED



igh protection st conditions

O ALL-ROUND

solutions for vehicle immobilization and driver authentication



WATERPROOF **TRACKERS**

READY FOR ANY ROUTE

We are glad to introduce a major expansion of the IP67 certified GPS trackers offered by Teltonika Telematics. We are adding six more waterproof devices to the list, including FMB225, FMB230, FMB240, FMC225, FMC230 and FMM230.

All the great features of the acclaimed FMx1 series devices are available with IP67 certified casing, which provides a total protection against dust and resistance to water in a depth of up to 1 meter for at least 30 minutes. IP67 casing with a two-phase closing ensures both a reliable protection and ease of use at the same time as no additional tools are needed for installation.



FMM230

GLOBAL

LTE CAT M1 network coverage with fallback to 2G. Solution to achieve greater efficiency, lower latency and wide coverage range capabilities.

> FMM230 LTE CAT M1/GNSS/BLE TERMINAL

IGNITION (DIN 1) DIN 2-N/AIN 1 DIN 3/AIN 2

+10_30 V DC [1

MOUNT THIS SIDE UP

ower supply: 10 - 30 V == 2 A Ma

INPUT 5 1-WIRE POW

DOUT 2 0011



IP67 CERTIFIED CASING	For protection against dust and water
FLEXIBLE I/O	Extends the possibilities of remote monitoring
NEGATIVE INPUT	Detects ground signal when connected
BLUETOOTH LE	Grants four various BLE sensors and beacons suppo
3-AXIS ACCELEROMETER	Ensures detailed acceleratio data in case of collision
10 - 30 V	DC with overvoltage protection
170 mAh	Back-up battery
128 MB	Internal flash memory
4G LTE CAT 1 NETWORK	With fallback to 2G (LATAM, EMEA, APAC regions)

FMC230

WATERPROOF 4G LTE CAT 1 TRACKER

WITH FLEXIBLE INPUTS

ainst dust

us BLE ons support

acceleration lision



GLOBAL

TM2500 small and powerful three-inone module for worldwide 2G coverage.





WATERPROOF TRACKERS WITH RS485/RS232 INTERFACES AND BACK-UP BATTERY

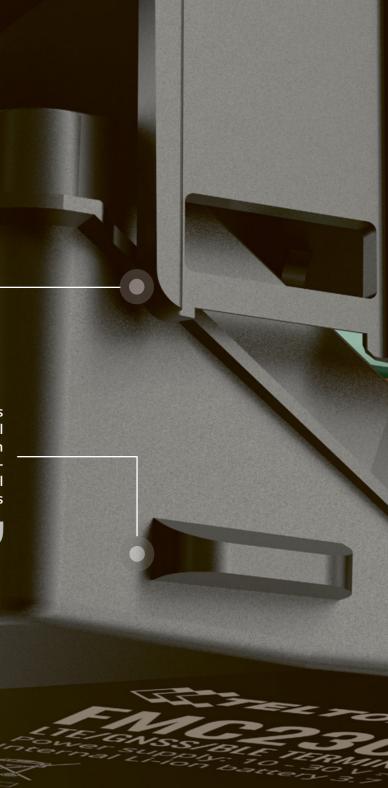


IFIED CASING	For protection against dust and water
DUAL SIM	Adds a back-up communication channel
{\$232/R\$485	For fuel monitoring and other external devices
CELEROMETER	Ensures detailed acceleration data in case of collision
MULTIPLE I/O	DIN, AIN, DOUT, 1-Wire - for monitoring and control
10 - 30 V	DC with overvoltage protection
170 mAh	Back-up battery
ONNECTIVITY	FMC225: 4G LTE CAT 1 network with fallback to 2G (EMEA, APAC, LATAM) FMB225: 2G network with global coverage

"

Our new dust-tight and water-resistant devices with IP67-certified casing are made to withstand all kinds of challenging weather conditions. In addition to reliable protection, the innovative click-type twophase closing is truly user-friendly, as no additional tools are needed to make FMx2 series GPS trackers ready to be used.

VYTENIS AKSTINAS Hardware Team Manager





GLOBAL

TM2500 small and powerful three-inone module for worldwide 2G coverage.

TELTONIKA | Telematics

INPUT 5 1-WIRE DATA 1-WIRE POWE DOUT 2 DOUT 1

FMB130

GNITION (DIN 1) DIN 2-N/AIN 1 DIN 3/AIN 2

00UT 3 20 +10...30 V DC 11 11 MOUNT THIS SIDE UP



FLEXIBLE I/U	remote monitoring
NEGATIVE INPUT	Detects ground signal when connected
BLUETOOTH LE	Grants four various BLE sensors and beacons suppor
3-AXIS ACCELEROMETER	Ensures detailed acceleratior data in case of collision
10 - 30 V	DC with overvoltage protection
170 mAh	Back-up battery
128 MB	Internal flash memory
LTE CAT M1 NETWORK	With 2G fallback for greater efficiency and lower latency

FI FXIRI F 1/0

FMM130

LTE CAT M1 TRACKER WITH

FLEXIBLE INPUTS

Extends the possibilities of



LATAM, EMEA, APAC

4G LTE CAT 1 network coverage with fallback to 3G* and 2G. Guaranteed future-proof network support for your fleet!





INTRO

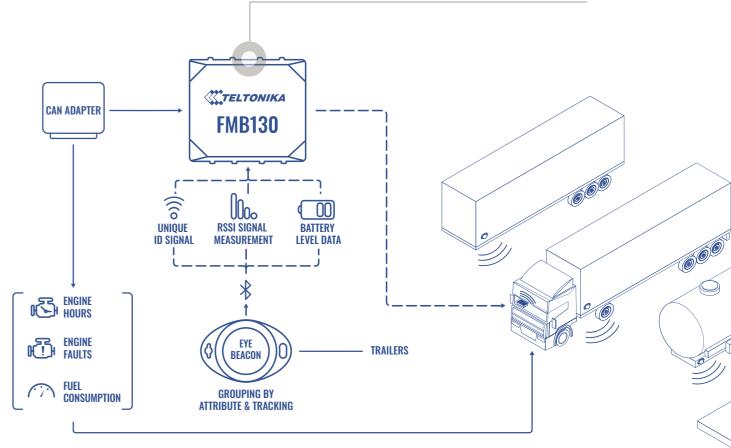
Trailers are an integral part of the transport system and to manage them effectively fleet managers need to know their status in real-time — location, mileage, which driver is using it, how many stops have been made on a given day or route, and so on. Wireless Bluetooth technology combined with vehicle GPS tracking opens up new opportunities for logistics and other industries. Teltonika Telematics lightweight and small EYE Beacons can be attached on every type of trailer to be tracked and monitored.

BENEFITS

Precise asset tracking anytime, anywhere – fleet management can monitor any trailer status in real-time with 100% accountability of everything important to their business.

Effortless inclusion of EYE Beacons – adding tracking and monitoring functionalities easily and quickly for the current users of vehicle telematics solutions.

Wireless and affordable – Bluetooth connectivity is inexpensive and ensures fast installation as well as low interference and power consumption.



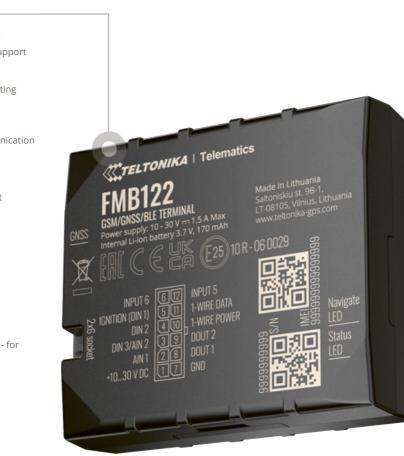
FMB120

TRACKER WITH INTERNAL ANTENNAS AND **BACK-UP BATTERY**





BLUETOOTH LE	Grants four various BLE sensors and beacons support	BLUETOOTH LE	Grants four various BLE sensors and beacons supp
IS ACCELEROMETER	Ensures detailed acceleration data in case of collision	EXTERNAL GNSS	Antenna extends mountin options
CAN ADAPTERS	Allows CAN bus data reading from light, heavy and special transport	DUAL SIM	Adds a back-up communic channel
TM2500 MODULE	GSM/GNSS/BLE support	TM2500 MODULE	GSM/GNSS/BLE support
10 - 30 V	DC with overvoltage protection	10 - 30 V	DC with overvoltage protection
170 mAh	Back-up battery	170 mAh	Back-up battery
MULTIPLE I/O	DIN, AIN, DOUT, 1-Wire - for monitoring and control	MULTIPLE I/O	DIN, AIN, DOUT, 1-Wire - fo monitoring and control
128 MB	Internal flash memory	128 MB	Internal flash memory
2G NETWORK	With global coverage	2G NETWORK	With global coverage



CONNECTIVITY OPTIONS

FMB125

GLOBAL INTERNAL GNSS ANTENNA

FMB125

GLOBAL EXTERNAL GNSS ANTENNA

TM2500 small and powerful three-inone module for worldwide 2G coverage.



DUAL SIM	communication channel
RS232/RS485	For fuel monitoring and other external devices
3-AXIS ACCELEROMETER	Ensures detailed accelera data in case of collision
MULTIPLE I/O	DIN, AIN, DOUT, 1-Wire - 1 monitoring and control
10 - 30 V	DC with overvoltage protection
170 mAh	Back-up battery
4G LTE CAT 1 NETWORK	With fallback to 2G
SUPPORTED REGIONS	LATAM, AU, NZ, TW or EM KR, TH

DUAL SIM

FMC125

4G LTE CAT 1 TRACKER WITH RS232, RS485 **INTERFACES AND INTERNAL GNSS ANTENNA**

ng and vices

Adds a back-up

acceleration lision -Wire - for ontrol

ze

W or EMEA.





TM2500 small and powerful three-inone module for worldwide 2G coverage.



GLOBAL

LTE CAT M1 network coverage with fallback to 2G. Solution to achieve greater efficiency, lower latency and wide coverage range capabilities.



ADAS SOLUTION FOR UNINTENTIONAL LANE DEPARTURE PREVENTION

LANE DEPARTURE WARNING SYSTEMS DECREASE CRASHES BY 21%

INTRO

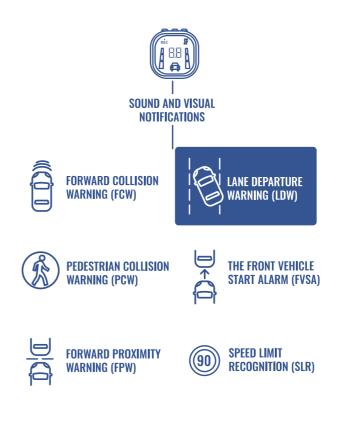
Distracted driving is a major cause of many accidents that result in serious injuries, casualties, and property loss. To address this primary concern, Teltonika Telematics offers ADAS solution – a sophisticated video telematics system consisting of a dedicated camera mounted on a vehicle windscreen and GPS tracker FMC125. It sends an instant visual and audio alert via a display to a driver when there is a vehicle lane deviation without signaling left or right detected, thereby helping to avoid a potential accident.

BENEFITS

Fewer traffic disruptions, accidents and collisions – LDW system continuously monitors driver's behavior preventing vehicle drifting from a lane, helping to avoid pricey errors on the road.

Keeping drivers accountable, disciplined and safe – constant tracking of vehicle events along with an appropriate motivation system promotes desirable driving habits.

Hassle-free automated management of drivers and events – an accurate and timely event data transfer to a dedicated server for analysis by fleet management utilizing ADAS solution features.





FMB204/FMB202

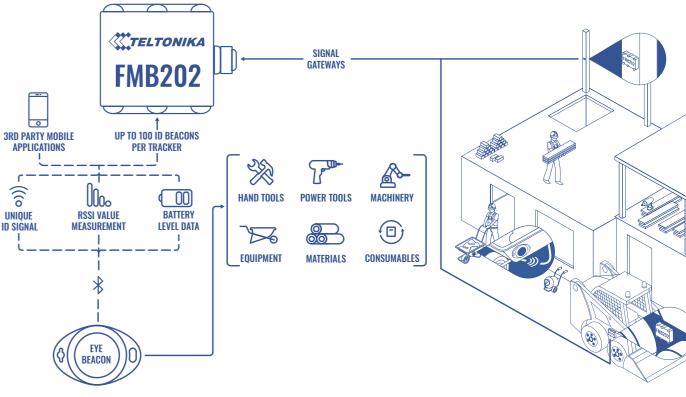
WATERPROOF TRACKERS WITH HIGH **CAPACITY BACK-UP BATTERIES**



BACK-UP BATTERIES	1800 mAh Li-ion or 400 mAh Ni-MH back-up batteries for prolonged autonomous usage
BLUETOOTH LE	Grants four various BLE sensors and beacons support
IP67	Standard casing against water and dust withstands poor weather conditions
TM2500 MODULE	GSM/GNSS/BLE support
6 - 30 V	DC with overvoltage protection
MULTIPLE I/O	DIN, AIN, DOUT, 1-Wire - for monitoring and control
128 MB	Internal flash memory
2G NETWORK	With global coverage



Thefts are a major challenge in construction sites around the world. Materials, easy to transport small tools and equipment as well as highly valuable power tools remain an appealing target for thieves. Teltonika Telematics offers ways to overcome these difficulties hassle-free way with minimum effort. Vehicle GPS trackers and relevant accessories, including EYE Beacon, a small ID ratio transmitter with a robust IP67 protection housing, can be conveniently used for asset tracking and process optimization.



TRACKING WITH BLE BEACONS



TRACKER FOR SPEED LIMITING





INTERNAL RELAY	Prevents exceeding the set speed limit while driving	AIS140	Certification for all public transportation systems in India
BUILT-IN BUZZER	Informs when the driver reaches the overspeeding threshold	R\$232	Serial interface for external data reading
BLUETOOTH LE	Grants four various BLE sensors and beacons support	IP67	Standard casing against water and dust withstands poor weather conditions
TM2500 MODULE	GSM/GNSS/BLE support	TM2500 MODULE	GSM/GNSS/BLE support
10 - 32 V	DC with overvoltage protection	IRNSS	Support with L5 signal frequency for India compliance market
400 mAh	Back-up battery	800 mAh	Back-up battery
R\$232	For speed log printer or other external devices	128 MB	Internal flash memory
128 MB	Internal flash memory	10 - 30 V	DC with overvoltage protection
2G NETWORK	With global coverage	2G NETWORK	With global coverage





- INCREDIBLY

small OBD tracking devices for rich connected car applications

from all types of transport

CAN & • **OBD DATA**





adapters for CAN bus data reading

CAN parameters to ensure timely fleet maintenance and service

- MULTIPLE



ULTRA-SMALL OBD TRACKERS



OEM OBD DATA *	Ensures real odometer and real fuel level reading
VEHICLE LIST*	With all available manufacturer models and parameters
29.1 MM	Width, ultra-small GNSS tracker with powerful feature set
TM2500 MODULE	GSM/GNSS/BLE support
10 - 30 V	DC with overvoltage protection
45 mAh	Back-up battery
128 MB	Internal flash memory
BLUETOOTH LE	Grants four various BLE sensors and beacons support
2G NETWORK	With global coverage
*Only with FMB003	1

ASSISTED GPS

Before moving forward, you need to know where you are at the moment – this is what A-GPS functionality does. It was developed to accelerate first position's acquisition, so that tracking would start nearly at the same moment as one's journey begins. A-GPS is supported by our ultra-small OBD tracking devices right from the box.

PAULIUS SAKALAUSKAS Project Coordinator





GLOBAL

TM2500 small and powerful three-inone module for worldwide 2G coverage.

CTELTONIKA | Telematics

FMB001

E24)10R-063390



OBD DATA	Like mileage, RPM, fuel level, VIN, or fault codes reading
BLUETOOTH LE	Grants four various BLE sensors and beacons suppor
3-AXIS ACCELEROMETER	Ensures detailed acceleration data in case of collision
128 MB	Internal flash memory
10 - 30 V	DC with overvoltage protection
170 mAh	Back-up battery
LTE CAT M1 NETWORK	With 2G fallback for greater efficiency and lower latency

FMM001

PLUG AND PLAY TRACKERS

Like mileage, RPM, fuel level, des reading

rious BLE acons support

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ed acceleration
collision
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EMEA

4G LTE network coverage with fallback to 3G and 2G. Guaranteed future-proof network support for your fleet!



FMB140

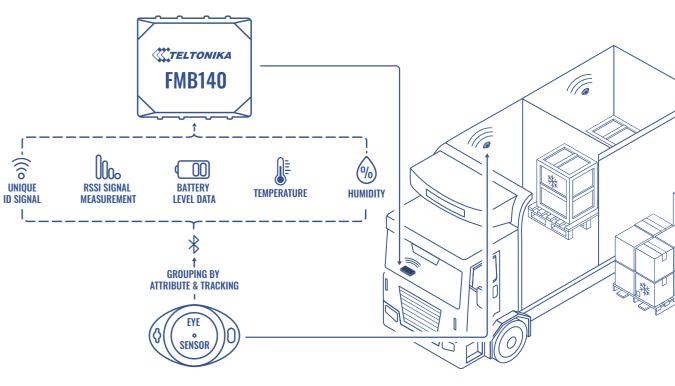
TRACKER WITH INTEGRATED CAN READER



2-in-1	Solution: GPS tracker and CAN adapter inside
VEHICLE LIST	With all available models and parameters for CAN bus data reading
WIRING GUIDES	For each supported vehicle eliminates complexity and adds efficiency
TM2500 MODULE	GSM/GNSS/BLE support
10 - 30 V	DC with overvoltage protection
170 mAh	Back-up battery
MULTIPLE I/O	DIN, AIN, DOUT, Negative input, 1-Wire – for monitoring and control
128 MB	Internal flash memory
2G NETWORK	With global coverage



Agricultural produce, various chemicals and pharmaceuticals, flowers, and many other goods require temperature monitoring during transportation to ensure they are delivered in usable condition. Thus, temperature, and humidity most times, monitoring is critical for the logistics industry around the world. This challenge can be effectively tackled utilizing wireless Bluetooth technology and Teltonika Telematics wide-range product portfolio, including EYE Sensor, BLE-based accessory with smart features and extensive functionality.



TEMPERATURE TRACKING

FMB240

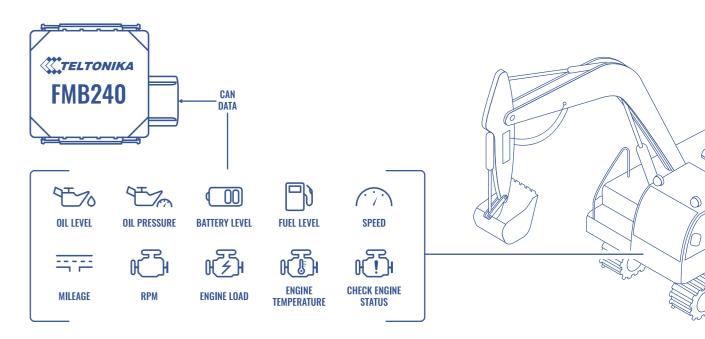
WATERPROOF TRACKER WITH INTEGRATED CAN READER



IP67 CERTIFIED CASING	For protection against dust and water
2-in-1	Solution: GPS tracker and CAN adapter inside
VEHICLE LIST	With all available models and parameters for CAN bus data reading
WIRING GUIDES	For each supported vehicle eliminates complexity and adds efficiency
10 - 30 V	DC with overvoltage protection
170 mAh	Back-up battery
MULTIPLE I/O	DIN, AIN, DOUT, Negative input, 1-Wire – for monitoring and control
128 MB	Internal flash memory
2G NETWORK	With global coverage



Heavy-duty machinery used in the construction industry is often affected by harsh environmental conditions that reduce productivity, increase fuel consumption and cause financial losses. Thus, regular and rigorous inspections are critical for the longevity of such assets. To address the related issues, Teltonika Telematics offers FMB240 tracking device, which has IP67 rating casing and integrated CAN bus processor to monitor the important parameters and technical condition of construction vehicles.



CONSTRUCTION VEHICLES TRACKING WITH IP67 RATING GPS DEVICES



CAN DATA ADAPTERS

LIGHT, HEAVY-DUTY, AND SPECIAL **TRANSPORT CAN DATA READERS**



CAN DATA READERS FOR REMOTE CONTROL

LV-CAN200	Designed to acquire data from light vehicles, vans, trucks, and buses. With LV-CAN200 you can easily get basic parameters such as mileage, fuel level, fuel consumption, RPM, and more.	CAN-CONTROL	This sophisticated solution allows remote doors and windows control, which is ideal for car sharing and rental businesses.
LV-CAN200 +DTC	In addition to default LV-CAN200 version, this accessory reads diagnostic trouble codes. Plan your fleet check-ups onwards more efficiently	can-control +DTC	In addition to default CAN-CONTROL version, you will be able to read diagnostic trouble codes from the vehicle ECU and react fast in case of malfunction.
ALL-CAN300	Designed to read data from agriculture, construction, and special transport. ALL- CAN300 is an advanced solution that reads over 100 parameters.	can-control +IMMO	The option with the engine block feature allows immobilizing the vehicle without a relay installation to save integration cost.

CAN-CONTROL ADAPTERS





ECANO1 CONTACTLESS CAN DATA ACCESSORY



ABOUT	means no physical wire connections, so original wires are left intact. ECAN01 can be connected to cars, trucks, buses, agriculture, special transport and more. The accessory has E-Mark certificate and is completely safe to use.
COMPATIBILITY	LV-CAN200, ALL-CAN300, FMB140, FMB641, FMM640, FMC640
WARRANTY FRIENDLY	Solution ensures vehicle CAN bus data collection without damaging the wires
1000 kB/s	Wide CAN bus speed range guarantees CAN data reading from plenty types of vehicles
18 MM	Width, extra small casing and removable power source cable for easy installation

ECAN01 offers a contactless connection to the CAN bus of the vehicle, which

TELEMATICS JOURNAL









HELPFUL LOT INSIGHTS TIME TO ACT - 3G TECHNOLOGY IS COMING TO AN END TELEN COMPONENT SHOR

HASSLE-FREE

tachograph files download for driver time and heavy-duty

and maintenance solutions

PROFESSIONAL

EFFECTIVE

CAN bus data reading, diagnostics,

COMPREHENSIVE

solutions to connect various most complex use cases

CONNECTIVITY OPTIONS

FMB641

TERMINAL FOR PROFESSIONAL APPLICATIONS



TACHOGRAPH	Live data reading for everyday driver management
RS232/RS485	Serial interfaces for external data reading
2x CAN LINES	Allows FMS parameters reading and simultaneous work with tachograph
HABLE CAN TERMINATORS	Allowing the model to be used in a CAN Bus network with multiple nodes
8 - 32 V	DC with overvoltage protection
550 mAh	Back-up battery
MULTIPLE I/O	DIN, AIN, DOUT, 1-Wire - for monitoring and control
32 GB	Micro SD memory card support
2G NETWORK	With global coverage

FMC640

LATAM, AU, NZ, EMEA

4G LTE CAT 1 network with fallback to 3G and 2G. Guaranteed future-proof network support for your fleet!





GLOBAL

LTE CAT M1 network coverage with fallback to 2G. Solution to achieve greater efficiency, lower latency and wide coverage range capabilities.



MAXIMIZED AIRPORT GROUND FLEET PRODUCTIVITY, HIGHLY IMPROVED WORKERS' SAFETY AND DISCIPLINE

INTRO

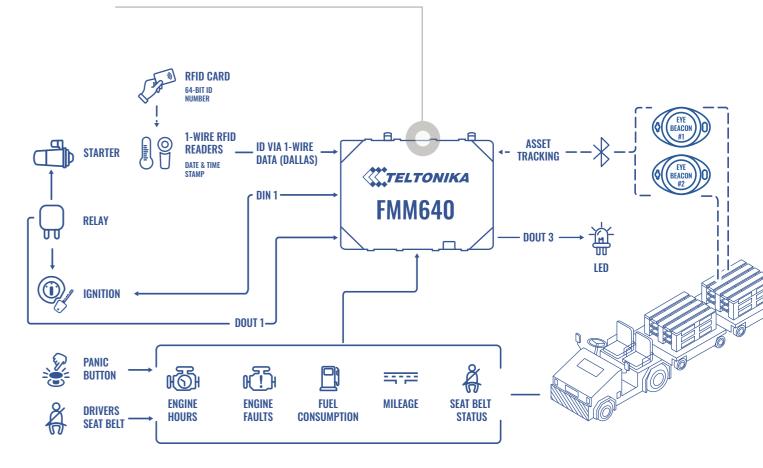
Airports are the pacemaker of today's life, filled with thousands of passengers, staff members, special ground vehicles, and plenty of valuable assets. Within sizable buildings such as airports, managers may spend a considerable amount of time finding in real-time what they are accountable for. Meanwhile, Teltonika Telematics offers an effective solution for ground vehicle and ground support equipment tracking, indoor tracking, and the automated monitoring of drivers and operators.

BENEFITS

Smooth airport operations and outstanding efficiency – 100% accountability of everything important to the business, including ground vehicles, equipment, goods, valuable assets, and processes.

Automated hassle-free time tracking of drivers and operators - accurate and easy-to-use personnel clocking method utilizing 1-Wire technology, relevant vehicle GPS trackers and accessories.

Boosting workforce discipline and desirable vehicle usage habits - achieved by a constant monitoring of airport fleet drivers' routine events in combination with an appropriate motivation system.



- INNOVATIVE

ways to increase significantly the safety of drivers and passengers

features to prevent forward collisions, lane departures and more

VIDEO • TELEMATICS

• EXTENSIVE

- INVALUABLE

videos & photos that capture the events occurring on the roads







This comprehensive solution ensures the safety of drivers, road users, and vehicles with or without cargo. The collision warning system consists of ADAS camera, which is mounted on the front window of a vehicle, and Teltonika Telematics advanced GPS tracker FMC125, both connected via an RS-232 interface. ADAS camera detects alarming events in front and sends all the data to the dedicated server for further monitoring and analysis. Besides, drivers are instantly notified with a visual and audio alert via the display placed on a dashboard. ADAS PLUS version is available with the additional functionality of speed limiting recognition.

VIDEO RECORDING

DRIVER NOTIFICATION

EVENT DATA TO SERVER

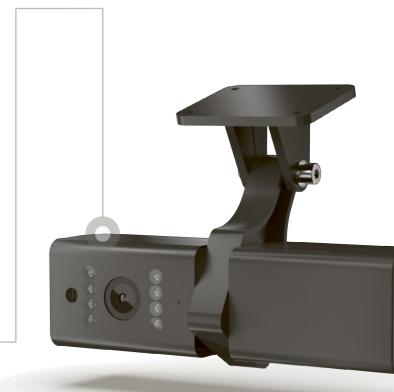


Teltonika DualCam solution is perfect for capturing videos or pictures of the events that might occur on the road, e.g. crash. Mounted on the vehicle front window, two cameras are used, front and rear, to record videos before and after the events, take photos periodically or by request and send all data to the server. The innovative solution ensures the safety of passengers as well by recording what is happening inside the vehicle. You can also get the videos or pictures on all scenarios, such as green driving, idling detection, unplug detection, towing detection, or geofence, by sending a request from server.

VIDEOS & PHOTOS

FRONT & BACK VIEW

DATA WHEN YOU NEED IT





ADAS SOLUTION WITH FORWARD COLLISION AVOIDANCE

FORWARD COLLISION WARNING SYSTEMS LOWER FRONT-TO-REAR CRASHES BY 27% 77 8.8 a SOUND AND VISUAL **FMC125** NOTIFICATIONS FORWARD COLLISION LANE DEPARTURE **RS232** WARNING (LDW) WARNING (FCW) PEDESTRIAN COLLISION THE FRONT VEHICLE WARNING (PCW) **START ALARM (FVSA)** FORWARD PROXIMITY (90 **SPEED LIMIT RECOGNITION (SLR)** WARNING (FPW)

INTRO

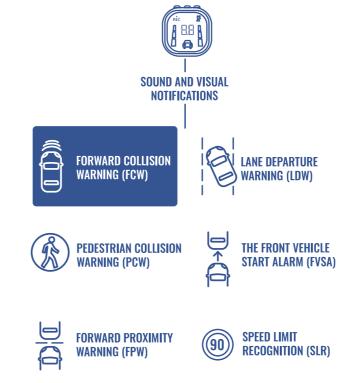
Drivers' behavior and performance is a decisive factor in the success of any-size fleet, business and safety on the roads. Keeping this in mind, Teltonika Telematics offers an innovative video telematics solution ADAS, i.e., a combo of a dedicated camera mounted on the windscreen and GPS tracker FMC125. It effectively helps to deal with the causes resulting in forward collisions, including speeding, tailgating and distracted driving.

BENEFITS

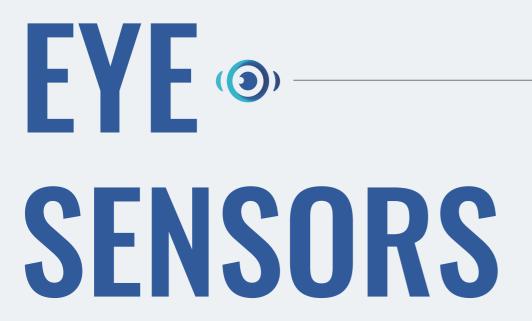
Instant and distinct notifications - a driver will get a visual and sound alert via a small display in front of him/her whenever an event is detected.

Lower crash rates - forward collision warning system continuously monitors traffic obstacles in front with an algorithm estimating the time to a potential collision, thus, noticeably reducing front-to-rear crashes.

Improved road safety and significantly reduced risk of injuries or deaths - by preventing erratic or inappropriate behavior, vehicle misuse, dishonesty, and pricey errors.







EYE SENSOR

BLUETOOTH LE SENSOR FOR VARIOUS APPLICATION SCENARIOS



BLUETOOTH LE ID BEACON WITH LONG LIFETIME BATTERY



SENSORS	Accelerometer, Temperature, Humidity, and Magnetometer	10+ YEARS	Battery life
5+ YEARS	Battery life	IP67 CERTIFED	Casing for enhanced
P67 CERTIFED	Casing for enhanced longevity	DATA PROTOCOLS	Eddystone, iBeacon
A PROTOCOLS	Eddystone, iBeacon and Custom	COMPACT SIZE	For various use case
COMPACT SIZE	For various use cases	EYE APP	For fast and easy co
EYE APP	For fast and easy configuration		

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configuration

Telematics

BLE IDENTIFICATION BEAC



BISIDI MAC 00112233FFEE

EYE BEACON

EYE BEACON EYE SENSOR

TELTONIKA RACING TEAM AT THE 2022 DAKAR RALLY

LONG LIFETIME Battery lifetime up to 10 years reducing environmental cost

WATERPROOF CASING Robust and water-resistant IP67 casing enhancing longevity

SENSOR DATA Accelerometer, Temperature, Humidity, and Magnetometer IN-CABIN

Temperature: 5.96 °C to 37.99 °C Humidity: 29.00% to 56.00%

Data provided by EYE Sensors mounted outside and inside of Teltonika Racing team support truck – proven in Dakar!

OUTDOOR

TELTONIKA

Temperature: 5.15°C to 49.85°C Humidity: 22.00% to 69.00%

• EFFICIENT

ways to configure, update, and download files from tracking devices

administer digital tachograph files

SOLUTIONS -

FOTA WEB, TELTONIKA CONFIGURATOR, WEB TACHO

COMPLETE

web solution to download and

tools to find answers and become an expert of tracking devices

REFERENCE



FOTA WEB REMOTE DEVICE MANAGEMENT SOLUTION

ELTONIKA | FOTAWEB Contrast 10 taxis & Groups 10 Files 10 Companies & Users @ Batches Al This is a new dashboard For Your convenience, the most important information will be provid Cancel task C 2022-02-21 14:56:22 0.30 & uterijtehunka h Total objects: 2 **SMART GROUPS** Rt. Company rese Update Termane (PARIAN Ver 10, 10, 16, New 1 12 2822 42 18 11 55 24 10: 339 å uterijteltankalt Total objects: 2 11 13 3822-42-18 68:52.21 Delete device 12 120 1 user@elizeka.t Tetal shipers: 6 **PRE-REGISTERED** Delete device RE MED AD IT VALUES 0.338 1 user@teltonka.h Total objects: 0 Delete device C 3823-63-17 VE1652 10.327 & user@teltanka.ht Total objects: 0 13 3823-43-17 VE14480

DEVICE MANAGEMENT

HISTORY

or a group of Teltonika Telematics devices. Save configuration templates for different scenarios and conveniently use them when necessary.

Remotely configure a single

You will always know what kind of actions have been taken with each tracking device at any given time.

Predefined configuration and firmware for the automatic update of a particular group of devices. Reduce your workload with a more efficient device management.

All your new devices come pre-registered to FOTA WEB and appear on your account right after the purchase.

USER SATISFACTION

 $\star \star \star$

83% SATISFIED WITH FOTA WEB



86% EASY-TO-USE TOOL

80







SOPHISTICATED TRACKER MANAGEMENT TOOL





By creating professional relationships, mutual understanding and trust, we strive to bring you the highest quality support available on the market.

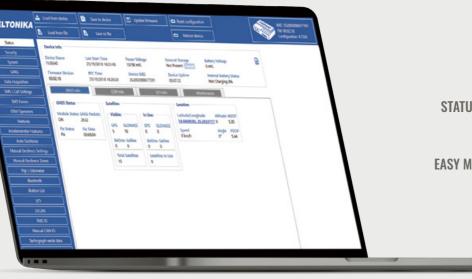
Teltonika Telematics has established Crowd Support forum where users of Teltonika devices can help each other with setting up devices or configuration.







THE MAIN SOURCE OF KNOWLEDGE ABOUT OUR PRODUCTS



CROWD **SUPPORT**



A source where you can find lots of useful information: quick start guides, device unboxing, installation guides, solutions and features configuration showcasing.





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Global connectivity solution leverages a global mobile network to connect Teltonika Telematics devices anywhere providing control over connectivity and device activation. Manage, monitor and analyze your SIM cards and data usage through an easy-to-use internal IoT platform. With the help of this solution, Teltonika Telematics GPS trackers reduce recurring roaming costs in 110 countries globally.

Just one payment and you get a 500 MB data bundle with free unlimited SMS messages for the next 5 years!

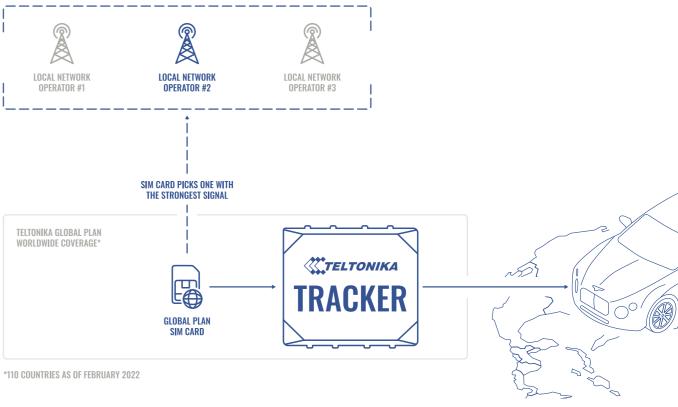
The Auto TOP-UP feature will automatically renew the Global plan under the same commercial conditions when the data volume is used up. You no longer need to monitor data volume - Auto TOP-UP reduces manual SIM card maintenance efforts and GPS trackers are always connected without service interruptions.

ONE SUPPLIER – FULL SOLUTION

The fewer suppliers, the more time you save avoiding lengthy negotiations, shipping problems and other issues.



Cross-border vehicle thefts and related criminal activity bring significant losses to businesses worldwide. Teltonika Telematics tracking devices are proven to be highly efficient to not only track and monitor a vehicle, but even help to recover it if a car is stolen, while Teltonika Global Connectivity Solution is designed to connect GPS trackers anywhere over a mobile network using the SIM card data plan. As a result, stolen vehicles can be tracked and recovered virtually anywhere with Teltonika Global Plan supporting connectivity in 110 countries around the globe.



ABOUT

500 MB.

5 YEARS

AUTO TOP-UP

FREE UNLIMITED SMS,

GLOBAL CONNECTIVITY SOLUTION FOR STOLEN VEHICLE RECOVERY

86



WEB TACHO

SOLUTION FOR REMOTE TACHOGRAPH DATA FILES MANAGEMENT

Teltonika Telematics WEB Tacho solution is a big leap forward in remote tachograph data files management. The solution is easily manageable and does not require any complex software. Everything is accessible via a web page, so now you can download tachograph files from any place and from any PC with internet access.

Downloads will be made based on configured schedule

Tachograph data is stored on our secured data server and can be accessed only by authorized users

European DDD, Spanish TGD and French V1B, C1B

STAY UPDATED!

GET THE LATEST TELTONIKA TELEMATICS NEWS

YOUTUBE

LINKEDIN





ACCESSORIES

FOR MONITORING





EYE Sensor

Order code: BTSMP15QB801 (SPQ1) Order code: BTSID14KB801 (SPQ1) Order code: BTSMP15QE501 (SPQ10) Order code: BTSID14KE501 (SPQ10)

EYE Beacon



1-wire TTJ temperature sensor Order code: PGEX00000540

FOR AUTHORIZED DRIVING



Magnetic iButton key Order code PPEX0000050



iButton reader Order code: PPEX0000060

RFID reader Order code: PPEX00000880



RFID card Order code: PPEX00000870



Order code: PPWS00000680

OBD II connection extension cable (90 cm) Order code: PPCB00000140

FOR POWER SUPPLY







FMB9 power cable for power supply Order code: PPCB00001610

FMB9 1.5 m power cable with fuse Order code: PPWS00000520



with clamp connectors

FOR PROFESSIONAL TRACKERS





TACHO cable Order code: PPCB00000300

FMS cable Order code: PPCB00000500



12-pin power cable for cigarette lighter socket

Order code: PPCB00000250



OBD II power cable (female) Order code: PPWS0000110



Internal battery 170 mAh Li-ion 3.7V Order code: PPBA00001470



Tachograph Front Panel cable Order code: PPCB00000430



Carrier Reefer cable Order code: PPCB00000460

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CAN ADAPTERS	FMT100	FMP100	FMB920	FMB910	FMB965	FMC230	FMM230	FMB230	FMC225	FMB225	FMM130	FMB130	FMB120	FMB122	FMC125	FMB125	FMM125	FMB204	FMB202	MSP500	FMB209	FMB003	FMB002	FMB020	FMM001	FMB001	FMC001	FMB140	FMB240	FMB641	FMC640	FMM640
LV-CAN200						•	•	•	•	•	•	•	•	•	•	•	•													•	•	•
LV-CAN200 + DTC						•	•	•		•		•		•	•	•	•													•	•	•
ALL-CAN300						•	•	•	•	•	•		•	•	•	•	•													•	•	•
CAN-CONTROL						•	•	•	•	•	•	· ·	•	•	•	•	•													•	•	•
CAN-CONTROL + DTC						•	•	•	•	•	•	· ·	•	•	•	•	•													•	•	•
CAN-CONTROL + IMMO						•	•	•	•	•	•		•	•	•	•	•													•	•	•
ECAN01						•1	•1	•1	•1	•1	•1	•1 •1	•1	•1	•1	•1	•1											•	•	•1	•1	•1
FOR MONITORING																																
EYE sensor/beacon	•	•	•	•	•	•	•	•	•	•	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•
1-Wire TTJ temperature sensor						•	•	•	•	•	•		•	•	•	•	•	•	•									•	•	•	•	•
FOR AUTHORIZED DRIVING																																
Magnetic iButton key						•	•	•	•	•	•	•	•	•	•	•	•	•	•									•	•	•	•	•
iButton reader							•	•	•	•	•		•		•	•	•	•										•	•	•	•	•
RFID card						•	•	•	•	•	•	•	•	•	•	•	•	•	•									•	•	•	•	•
1-Wire RFID reader						•	•	•	•	•	•	• •	•	•	•	•	•	•	•									•	•	•	•	•
FOR POWER SUPPLY																																
OBD II power cable (female)																						•	•	•	•	•	•					
OBD II connection extension cable (90 cm)																						•	•	•	•	•	•					
12-pin power cable for cigarette lighter socket						•	•	•	•	•	•	•	•	•	•	•	•											•	•			
FMB9 power cable for power supply			•	•																												
FMB9 1.5 m power cable with fuse			•	•																												
Power cable with clamp connectors						•	•	•	•	•	•		•	•	•	•	•											•	•			
Internal battery 170 mAh Li-ion 3.7V	•	•	•	•		•	•	•	•	•	•	· ·	•	•	•	•	•								•	•	•	•	•			
FOR PROFESSIONAL TRACKERS																																
TACHO cable																														•	•	•
FMS cable																														•	•	•
Tachograph Front Panel cable																														•	•	•
Carrier Reefer cable																														•	•	•
VIDEO TELEMATICS																																
ADAS									•	•					•	•	•													•2	•2	•2
Teltonika DualCam									•	•					•	•	•													•2	•2	•2

 $^{\rm t}$ Can be used in combination with LV-CAN200, ALL-CAN300, and for FMS data reading. $^{\rm 2}$ Coming soon.

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	FMT100	FMP100	FMB920	FMB910	FMB965	FMC230	FMM230	FMB230	FMC225	FMB225	FMM130	FMB130	FMC130	FMB120	FMB122	FMC125	FMB125	FMM125	FMB204	FMB202	MSP500	FMB209	FMB003	FMB002	FMB020	FMM001	FMB001	FMC001	FMB140	FMB240	FMB641	FMC640	FMM640
HARDWARE	FM	FN	FN	FN	FM	FN	FN	FN	FM	FN	FM	2 L	FN	FM	FN	FN	FN	FN	FN	FN	WS	FN	FN	FN	FN	FN	FN	FM	FN	FN	FN	F	E
Cellular connectivity	2G	2G	2G	2G	2G	4G	M1	2G	4G	2G	M1	2G	4G	2G	2G	4G	2G	M1	2G	2G	2G	2G	2G	2G	2G	M1	2G	4G	2G	2G	2G	4G	M1
Bluetooth	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•
Cellular antenna	I	I	I	I	I	I	I	I	I	Ι	I	1	1	Ι	I	Ι	I	Ι	I	Ι	I	Ι	I	Ι	I	Ι	I	Ι	I	Ι	Е	Е	Е
GNSS antenna	I	Ι	I	I	I	I	I	I	I	Ι	I	1	I	Ι	Е	E	E1	Е	Е	Ι	I	I	I	Ι	I	Ι	I	I	I	Ι	Е	E	Е
OBDII data	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2	•2		•	•	•	•2	•2			
USB Charging		•																					•	•									
RGB LED		•																															
Digital Inputs			1	1	1	3	3	3	1	1	3	3	3	3	3	1	1	1	3	3		4							3	3	4	4	4
Negative Inputs						1	1	1			1	1	1																1	1			
Impulse Inputs			1	1		2	2	2			2	2	2	2	2	1	1	1	2	2		2							2	2	2	2	2
Analog Inputs			1	1		2	2	2	1	1	2	2	2	2	2	1	1	1	1	1	1	2							2	2	4	4	4
Digital Outputs			1	1	2	3	3	3	1	1	3	3	3	3	2	1	1	1	2	2		2							2	2	4	4	4
1-Wire interface						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•									•	•	•	•	•
RS232									•	•						•	•	•			•	•									•	•	•
RS485									•	•						•	•	•													•	•	•
CAN adapters support						•	•	•	•	•	•		•	•	•	•	•	•													•	•	•
CAN interface																													•	•	•	•	•
Configurable alarm button		•																															
Internal battery energy (Wh)	0.63	0.63	0.63	0.63	4.68	0.63	0.63	0.63	0.63	0.63	0.63	0.63 0	0.63	0.63	0.63	0.63	0.63	0.63	6.66	2.88	2.88	2.96	0.167	0.167	0.167	0.63	0.63	0.63	0.63	0.63	4.62	4.62	
IP rating	IP65	IP41	IP54	IP54	IP67	IP67	IP67	IP67	IP67	IP67	IP41	IP41 IF	P41	IP41	IP41	IP41	IP41	IP41	IP67	IP67	IP41	IP41	IP41	IP41	IP41	IP41	IP41	IP41	IP41	IP67	IP41	IP41	
Power supply range	10-30 V	10-30 V	6-30 V	6-30 V	10-30 V 11	0-30 V	10-30 V	6-30 V	6-30 V	10-30 V	10-30V	10-30 V																					
1x SIM	•	•	•	•	•	•	•	•			•		•	•					•	•	•	•	•	•	•	•	•	•	•	•			
eSIM option	•	•	•	•	•	•	•	•			•		•	•					•	•	•	•					•		•	•			
2x SIM card (Dual-SIM)									•	•					•	•	•	•													•	•	•
SOFTWARE																																	
Real fuel/odometer																							•										
1-Wire interface RFID functionality						•	•	•	•	•	•	•	•	•	•	•	•	•	•	•									•	•	•	•	•
Eco driving/Green Driving	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Fuel monitoring digital LLS									•	•						•	•	•			•	•									•	•	•
Fuel monitoring (CAN adapters, FMS)						•	•	•	•	•	•	•	•	•	•	•	•	•											•	•	•	•	•
DDD download and Tacho on-line data																															•	•	•
Crash detection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Towing detection	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Configuration over Bluetooth	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

l - Internal antenna, E - External antenna.

¹ FMB125 version with an internal GNSS antenna is available.

² Supported via Bluetooth OBDII dongle.
 ³ Please contact your Teltonika Telematics representative for more details.

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