



# MOTORCYCLE TRACKING, PROTECTION AND SAFETY

## INTRO

Motorcycles are one of the most popular types of vehicles. There are over 200 million of them (including mopeds, scooters, and motorised bicycles) across the globe, and millions of people use them daily. Regrettably, this transport segment is affected by theft-related crimes and safety challenges, causing traffic accidents and financial losses. Given this, Teltonika came up with a practical solution making a significant impact.

## CHALLENGE

Did you know, over 9,000 motorcycles or scooters are stolen each year in the city of London, according to the [Metropolitan Police](#)? As stated by the UK national [Department for Transport](#), motorcycle owners face a nearly 13% chance of having their motorcycle stolen each year. All the more, according to the [NICB report](#), the number of motorcycle thefts has increased by an impressive 30% in 2020.

That said, most motorcycles are an easy target for thieves. In many cases, timely and the right data-driven actions against an attempted theft can save valuable assets and prevent financial losses. If so, owners and corporate fleet managers need to know where the vehicle is at a given moment, how long it has been used or not used, etc. Yes, GPS tracking devices can be very useful here, but there are a few things to consider.

Firstly, there are many places in a passenger car or light commercial vehicle where a tracker can be mounted, but such spots and spaces are quite limited on motorcycles, so it is particularly important to have a compact tracker. Going further, all kinds of motorbikes are often affected by climate factors and environmental conditions. So, rainwater, dew, moisture, mud, clay, sand, dust, vibration, hot vapour and other aspects should be considered too.

Secondly, a battery capacity of a petrol-powered motorcycle is smaller than ones of average automobiles, so there is a risk that the conventional GPS tracker could drain the battery and cause it to run down when the motorcycle is

not used for an extended period. Even more, a typical motorcycle journey is usually shorter than a vehicle journey (e.g., taxi or international logistics lorry), which means that the GPS device internal backup battery has less time to recharge from an alternator. This being said, these challenges need to be addressed and Teltonika Telematics is ready to offer a practical solution.



## SOLUTION

To showcase it, we choose the brand-new model Teltonika FMB965 - 2G connectivity dedicated motorbike GPS tracker with a few distinctive features: compact and robust IP67 rating casing, large 1,200 mAh capacity internal battery and a novel sleep mode. The model has GSM signal jamming detection, towing detection, unplug detection, auto geofence and other scenarios allowing to initiate preventive actions, such as trigger motorcycle alarm system, block starter, etc. This easy-to-install, latest-generation device is specifically designed to track motorcycles, but it can be used successfully in other use cases too.

**How it works** - thanks to its ingress protection and small body to its class, the FMB965 can be unrestrictedly attached to the spot of a motorcycle of your choice. Please note, the casing with click type closure ensures both - a reliable shield against the elements and ease of use, as it needs no additional tools or any screws to assemble the device and ensures desirable performance at the same time.

Thanks to the Power Off Sleep Mode function, the FMB965 can consume less than 1 mA of current, minimising battery drain when the motorbike is not in use (e.g., during prolonged periods of inclement weather unsuitable for riding). Conveniently, this allows the model to run on its internal backup battery autonomously for up to 30 days.

In addition, the Teltonika device can monitor the motorcycle battery charge level and inform the fleet manager, owner or rider if its level drops to a critical value to prevent the vehicle stall and unwanted surprises. Besides, when it is intended to be used infrequently, it makes sense to install the GPS tracker in such a way that it is disconnected from the motorcycle battery power supply when the ignition is switched off. Just keep in mind that in this case, it will not be possible to read the battery charge level.

To ensure protection, the vehicle GPS tracker detects and immediately sends an instant notification (as a GPRS command, SMS message or DOUT activation) if it was disconnected from the motorcycle battery, if the GSM signal was jammed, if the motorbike was towed or there was an unauthorised movement, drag, etc. When the driver's identification with the immobilizer feature is activated, only the authorised person will be able to use the vehicle.

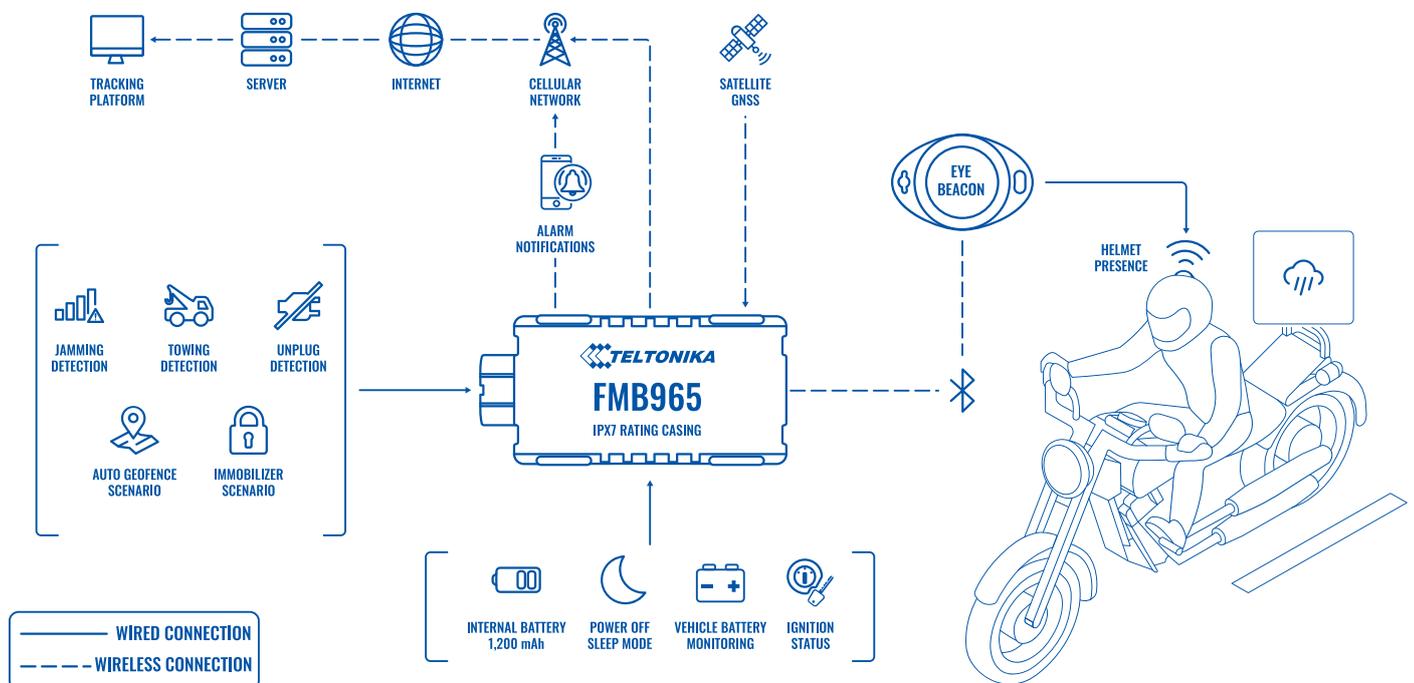
**The safety of motorcyclists** - the fact is, they are less protected than car drivers, so ensuring their safety is crucial for fleet owners, families, police, other road users, insurance companies, government, and society. Because of the

built-in accelerometer and the practical Eco-driving and Speeding detection scenarios, aggressive or sporty driving will inevitably be detected and those responsible will be notified helping to take appropriate disciplinary actions to minimise the risk of crashes and/or traffic accidents.

Last but not the least, the FMB965 supports Bluetooth LE connectivity, allowing it to communicate with wireless accessories such as the Teltonika EYE Beacon. The latter can be mounted on all helmets in a corporate fleet. If any rider forgets to wear a helmet, the tracker will detect this event and send relevant data to managers in charge and/or dispatchers.

Finally, thanks to the extensive and pretty unique set of features, the new FMB965 is a preferred choice not only for petrol-powered motorcycle fleets but also for snowmobiles, all sorts of recreational vehicles, water transport such as luxury boats and jet skis, trailers, etc. The device firmware updates and configuration changes can be made remotely using the FOTA WEB tool - a powerful software solution helping to manage all Teltonika vehicle GPS trackers with exemplary efficiency.

## TOPOLOGY



## BENEFITS

- **Designed specifically with motorcycles in mind** - the FMB965 model has a compact and robust casing, large capacity internal battery and a novel sleep mode.
- **Reliable tracking in bad weather conditions** - thanks to its IP67-rated casing, the tracking device can be utilised in a wide range of challenging environments, as it is waterproof.
- **Innovative click type casing closing** ensures both reliable protection and ease of use at the same time, as it needs no additional tools for assembly and installation.
- **All-in-one solution** - a rich set of unique handy features and usage scenarios to ensure smooth motorcycle fleet operations, diverse protection of assets, riders' safety and the best value for money.
- **More business opportunities** - thanks to the remarkable FMB965 functionality, it can be used in a broader variety of markets and regions, bringing more projects, income streams, and a competitive edge.

## WHY TELTONIKA?

To successfully improve the management, protection, and safety of motorcycle fleets, we offer a functional choice from Teltonika - the all-new FMB965 vehicle GPS tracker with a robust IP67 casing, a high-capacity internal battery, a new sleep mode and an impressive set of handy usage scenarios.

We are the right place to get all you need to succeed - the most abundant variety of top-quality certified GPS trackers, accessories, and solutions for any use case imaginable in vehicle telematics. From the start of the company 24 years ago until today, Teltonika 2,000 strong and growing team has manufactured 16 million IoT devices, helping to succeed thousands of customers and partners in over 160 countries across the globe.

## FEATURED PRODUCT

FMB965

## RECOMMENDED PRODUCTS

FMB202, FMB204, FMB209, FMB910

