

ebikemotion®

GPS Tracker

Find, Update, Lock, Fleet bike control and much more



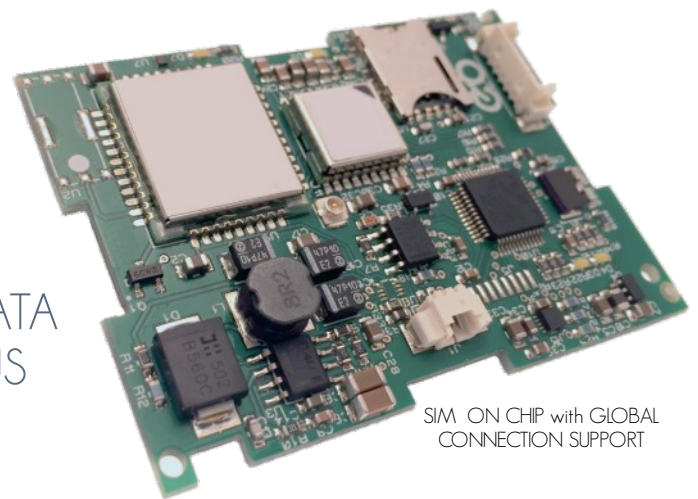
Designed & Manufactured in Spain (EU)

Day by day e-bikes are more sophisticated, smarter and can reach to the user longer distances making of it one important part of our life. Regardless of the e-bike is expensive or cheap, keeping safe and connected is getting more importance. To give a fast and adaptive solution to these necessities ebikemotion has created the "GPS TRACKER" unit, a modular solution that can be installed in different positions of the e-bike or frame creating a link between the Cloud and the e-bike. ebikemotion® GPS TRACKER is smart, modular, CAN BUS compatible accessorie, full adaptable to your specifications that will help to locate the e-bike, getting the e-bike system status and even update by remote other parts. Discover it!

Target Applications:

Location and Position of electric bicycles
Collect data and update firmware of devices connected (Smart BMS, Motor Controller, Displays, etc.
Fleet of e-bikes for sharing, renting, etc.

TRACK
UPDATE
AND
COLLECT DATA
by CAN BUS



SIM ON CHIP with GLOBAL CONNECTION SUPPORT

ebikemotion® GPS TRACKER uses a SIM on CHIP integrated from factory in the PCB Board provided by Vodafone Global. One solution with worldwide coverage

The ebikemotion® GPS/GSM TRACKER is the result of years of work expended in developing Automotive Tracking solutions. All our knowledge and know-how has been applied to this solution that is 100% designed for bicycles. The TRACKER includes a movement sensor that wake-up the unit if we detect movement in special situations (e-bike off, or protection activated as example). Same sensor is also used for alert systems or to detect falling of the rider.

The main functions of the unit are:

Location of e-bike, falling alert, remote checking and status of e-bike, Automatic reporting of e-bike (STRAVA track uploading, status of e-bike for sharing, etc.), remote monitoring of e-bike, automatic charging of TRACKER battery from e-bike battery, alert if the e-bike is out of selected area, remote inform about remain time to full charge, etc.

EN 15194
DIN EN ISO 13849
According to Directive 2006/42/EG

Made with Automotive
Quality Standards

e-bike GPS/GSM Tracker

HEADQUARTERS

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RESEARCH CENTERS

BISITE R+D Group
(University of Salamanca)

GND (NAGARES)
(Valencia - Spain)

STAGEMOTION SL
(Palencia - Spain)

PRODUCTION CENTER

NAGARES SA
(Motilla del Palancar - Spain)

GRUPELEC (NAGARES)
(Valladolid - Spain)

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Product Features and Specifications

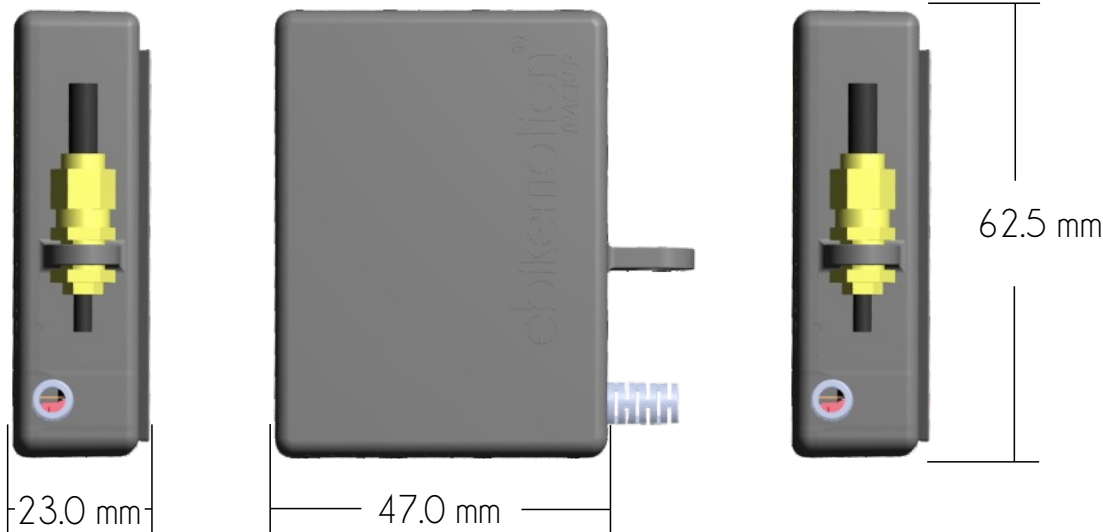
Power supply compatible 12 to 56V
 Quad-band GSM/GPRS
 Supported frequencies GSM850MHz,
 EGSM900MHz,
 DCS1800MHz and PCS1900MHz
 Programmable general purpose input and output;
 One SIM card interface
 Battery overvoltage, undervoltage and overcurrent
 fault detection
 5 Volts 500 kbauds High speed CAN
 SERIAL communication under requirement
 Internal Li-Po Battery (1000 mAh)
 EN 15194 - DIN EN ISO 13849 - According to
 Directive 2006/42/EG
 IP67 Waterproof
 GPS Receiver, supports QASS, SBAS ranging,
 supports WAAS/EGNOS/MSAS/GAGAN
 22 tracking/66 acquisition-channel, up to 210 PRN
 channels

12 multi-tone active interference cancellers and
 jamming elimination
 Indoor and outdoor multi-path detection and
 compensation
 Max NMEA update rate up to 5 HZ
 EPO orbit prediction
 Always locate advanced location awareness
 technology
 GPRS data downlink transfer: max. 85.6 kbps
 GPRS data uplink transfer: max. 85.6 kbps
 Coding scheme: CS-1, CS-2, CS-3 and CS-4
 PAP protocol for PPP connect
 Integrate the TCP/IP protocol.
 Support Packet Broadcast Control Channel (PBCCH)
 Support External or Internal Active Antennas

Internal
 Battery Live
60 days
 in Standby

This is the standard size of the TRACKER. But the layout
 and shape could be adapted for customers requirements

Technical view



Dimensions Box:

Length: 62.5 mm
 Height: 23.6 mm
 Width: 47.0 mm

Dimensions PCB:

Length: 59.0 mm
 Height: 43.0
 Width: 11.0 mm
 With Battery: 18.0 mm

