

FMB965

Water-resistant tracker with low power consumption and big capacity internal battery



POWER OFF SLEEP MODE

Allows to power off module, which enables the power consumption to less than 1mA

IP67 CASING

Reliable protection against dust and water

BACK-UP BATTERY

Enhance device autonomy and minimise vehicle battery drainage

BLUETOOTH® TECHNOLOGY

Bluetooth for external devices and Low Energy sensors



Bikes



Trailers



SUVs



Water transport

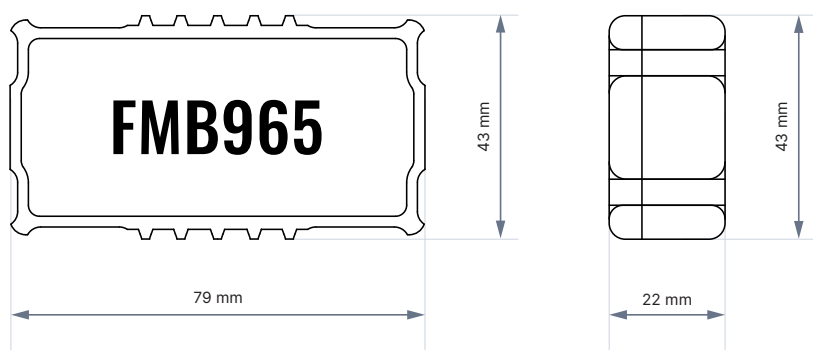


Snowmobiles

FMB965 is easily fitted water-resistant tracker with GNSS/GSM internal antennas, flash memory, integrated 1200 mAh backup battery, accelerometer, 1 digital input, 2 digital outputs and various Bluetooth® connectivity sensors and beacons support.

Thanks to a rich feature set, large battery and IP67 casing this BASIC category tracker delivers unquestionable value for the GPS telematics service providers and end-users.

Easily fitted smart tracker designed for tracking motorbikes, SUVs, boats, snowmobiles, jet skis, and trailers where a waterproof case, large internal battery capacity, and low power consumption are important.



Module

Name	TM2500
Technology	GSM/GPRS/GNSS/BLE [®] LE

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 channel
Tracking sensitivity	-165 dBm
Position accuracy	< 2.5 CEP
Velocity accuracy	< 0.1m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	GSM
2G bands	Quad-band 850 / 900 / 1800 / 1900 MHz
Data transfer	GPRS Multi-Slot Class 12 (up to 240 kbps), GPRS Mobile Station Class B
Data support	SMS (text/data)

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Back-up battery	1200 mAh Li-Ion battery

BLE[®] technology

Specification	4.0 + LE
Supported peripherals	EYE beacon and sensor, Headset, OBDII dongle, Inateck Barcode Scanner, Universal Bluetooth [®] LE beacons and sensors support

Physical specification

Dimensions	79 × 43 × 22 mm (L x W x H)
	89 × 43 × 22 mm (L x W x H) (length with connector socket)
Weight	74 g

Interface

Digital Inputs	1
Digital Outputs	2
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Nano-SIM
Memory	128MB internal flash memory

Operating environment

Operating temperature (without battery)	-40 °C to +85 °C
Storage temperature (without battery)	-40 °C to +85 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP67
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +35 °C for 1 month
	-20 °C to +30 °C for 6 months

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth® wireless technology), FMBT mobile application (Configuration)
SMS	Configuration, Events, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GPS, NITZ, NTP
Fuel monitoring	OBDII dongle

Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)
Power off sleep mode	Allows to power off module to reduce power consumption to less than 1mA in a sleep mode
Certification & Approvals	
Regulatory	CE/RED, E-Mark, EAC, RoHS, REACH