



FMB202

Small and professional waterproof tracker

Configuration and firmware update FOTA Web, FOTA,(USB, Bluetooth), FMBT mobile application (Configuration)	Sleep modes GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Sensors Accelerometer	SMS Configuration, Events, DOUT control, Debug
GPRS commands Configuration, DOUT control, Debug	Time Synchronization GPS, NITZ, NTP
Fuel monitoring LLS (Analog), OBDII dongle	Scenarios Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Immobilizer, iButton Read Notification, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip
Ignition detection Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)	

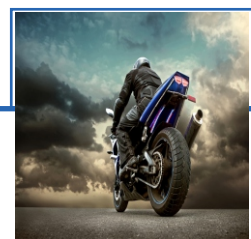
Application



Water Transport



Trailer tracking



Motorcycle

Module

Name	Tm2500
Technology	GSM/GPRS/GNSS/BLUETOOTH

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 channel
Tracking sensitivity	-165 dBm
Accuracy	< 3 m
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	6 - 30 V DC with overvoltage protection
Back-up battery	400 mAh Ni-MH battery (2.88 Wh)
Power consumption	At 12V < 1,9 mA (Ultra Sleep) At 12V < 3,7 mA (Deep Sleep) At 12V < 4 mA (Online Sleep) At 12V < 11,6 mA (GPS Sleep) At 12V < 27,6 mA (nominal)

Bluetooth

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, Headset, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support

Physical specification

Dimensions	72,5 x 73 x 27,3 mm (L x W x H)
Weight	205 g

Interface

Digital Inputs	3
Digital Outputser	2
Analog Inputs	1
1WIRE DATA	1
1WIRE POWER	1
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	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 storage temperature	-20 °C to +45 °C

Certification & Approvals

Regulatory	CE/RED, E-Mark, EAC, RoHS, REACH
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