

Fuel monitoring

Time Synchronization



Ignition Detection



Product Summary

FMB920 is a slim design easily fitted tracker with GNSS/GPS internal antennas, flash memory, integrated backup battery, accelerometer, inputs/output and various BLE 4.0 connectivity sensors and beacons support. Thanks to a rich feature set, this EASY category tracker delivers unquestionable value for the GPS telematics service providers and end-users.

Key Features:

 \succ 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 Geo fence, Manual Geo fence, Trip

Sleep modes

GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep

Configuration and firmware update

FOTA Web, FOTA, Fleetly Configurator (USB, Bluetooth), FMBT mobile application (Configuration)

> SMS

Configuration, Events, DOUT control, Debug

GPRS commands
 Configuration, DOUT control, Debug

- Time Synchronization GPS, NITZ, NTP
- Fuel monitoring
 LLS (Analog), OBDII dongle

Ignition detection Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)

Technical Specification

Module		
	Name	FMB-920
	Technology	GSM/GPRS/GNSS/BLUETOOTH
GNSS		
	GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
	Receiver	33 channel
	Tracking sensitivity	-165 dBM
	Position accuracy	< 2.5m 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	6 - 30 V DC with overvoltage protection

	Back-up battery	170 mAh Li-Ion battery (0.63 Wh)	
Power Consumption	ı		
	Ultra-Deep Sleep	At 12V < 2mA	
	Deep Sleep	At 12V < 4mA	
	Online Deep Sleep	At 12V < 5mA	
	GPS Sleep	At 12V < 6mA	
	Nominal (with no load)	At 12V < 25mA	
Bluetooth			
	Specification	4.0 + LE	
	Supported peripherals	Temperature and Humidity sensor, Headset, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support	
Physical specification	on		
	Dimensions	79 x 43 x 12 mm (L x W x H)	
	Weight	54 g	
Interface			
	Digital Inputs	1	
	Digital Outputs	1	
	Analog Inputs	1	
	GNSS antenna	Internal High Gain	
	Cellular antenna	Internal GSM High Gain	
	USB	2.0 Micro-USB	
	LED indication	2 status LED light	
	SIM	Micro-SIM	
	Memory	128MB internal flash memory	
Operating environment			
	Operating temperature (With battery)	-20 °C to +40 °C	
	Operating temperature (Without battery)	-40 °C to +85 °C	
	Storage temperature (Without battery)	-40 °C to +85 °C	
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	Operating humidity	5% to 95% non-condensing		
	Ingress Protection Rating	IP54		
	Battery charge temperature	0 °C to +45 °C		
	Battery discharge temperature	-20 °C to +60 °C		
	Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months		
Certification & Approvals				
	Regulatory	CE/RED, E-Mark, EAC, ROHS, REACH, Anatel, ICASA, SIRIM QAS, SDPPI POSTEL		



