











Sleep modes



SMS



Fuel monitoring



Time Synchronization



Ignition Detection



SCEUK PICRB

Product Summary

FMB125 is small and professional real-time tracking terminal with GNSS and LTE/GSM connectivity and backup battery. Device equipped with GNSS/Bluetooth and LTE modules, internal GNSS, LTE antennas. FMB125 features RS485/RS232 data interface, which gives ability to connect various third-party external devices. It is perfectly suitable for applications where location acquirement of remote objects is needed: fleet management, car rental companies, taxi companies, public transport, logistics companies, and personal cars and so on.

Key Features:

Sensors

Accelerometer

Scenarios

Green Driving, Over Speeding detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Immobilizer, I Button Read Notification, 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), Digital LLS (RS232, RS485), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle

> Ignition detection

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

RS232 Modes

Log Mode, NMEA, LLS, LCD, RFID HID/MF7, Garmin FMI, TCP ASCII/Binary

RS485 Modes

Log Mode, NMEA, LLS, TCP ASCII/Binary

Technical Specification

Module		
	Name	FMB-125
	Technology	GSM/GPRS/GNSS/BLUETOOTH
GNSS		
	GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS
	Receiver	33 channel
	Tracking sensitivity	-165 dBM
	Position accuracy	< 2.5m CEP
	Hot start	<1s
	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 and reverse polarity protection Internal Back-up battery 170 mAh Li-Ion battery 3.7 V (0.63 Wh) **Power Consumption** Ultra-Deep Sleep At 12V < 6mA **Deep Sleep** At 12V < 6.5mA Online Deep Sleep At 12V < 7mA **GPS Sleep** At 12V < 12mA Nominal At 12V < 38mA **Bluetooth** Specification 4.0 + LESupported peripherals Temperature and Humidity sensor, Headset, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support **Physical specification Dimensions** 65 x 56.6 x 18.9 mm (L x W x H) Weight 52 g Interface **Digital Inputs** 1 **Digital Outputs** 1

> **Analog Inputs** 1 **CAN Adapter inputs** 1 1-Wire 1 **RS232** 1 **RS485** 1



External (SMA connector) / internal GNSS antenna

(optional)

Cellular antenna Internal GSM High Gain

USB 2.0 Micro-USB

LED indication 2 status LED lights

SIM 2x SIM Card (Dual-SIM)

Memory 128MB internal flash memory

Operating environment

Operating temperature

(Without battery) -40 °C to +85 °C

Storage temperature

-40 °C to +85 °C (Without battery)

Operating humidity 5% to 95% non-condensing

Ingress Protection Rating IP41

Battery charge

0 °C to +45 °C temperature

Battery discharge

-20 °C to +60 °C temperature

Battery storage

temperature -20 °C to +45 °C for 1 month

-20 °C to +35 °C for 6 months

Certification & Approvals

Regulatory CE/RED, EAC, ROHS, REACH, Anatel,

SIRIM QAS, SDPPI POSTEL, ICASA



