























Sleep modes



SMS



Fuel monitoring



Time Synchronization



Ignition Detection



Product Summary

Fleetly FMB-120 is ADVANCED tracker with internal GNSS, GSM antennas, Bluetooth connectivity and backup battery. FMB 120 is designed for light vehicles tracking but is also suitable for advanced applications like logistics, delivery services, utility transport and more. It is excellent for refrigerated transport, because it has extended input/output set and 1-wire interface for temperature monitoring. With Fleetly CAN adapters, FMB 120 can be even used in agriculture or construction & mining.

Key Features:

Sensors

Accelerometer

Scenarios

Green Driving, Over Speeding detection, jamming 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 (Analogue), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle

> Ignition detection

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

Technical Specification

Module		
	Name	FMB-120
	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
	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		
Power		
	Input voltage ranges	10 - 30 V DC with overvoltage and reverse Polarity protection
	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 < 8mA
	Online Sleep	At 12V < 11mA
	GPS Sleep	At 12V < 20mA
	Nominal	At 12V < 35 mA
Bluetooth		
	Specification	4.0 + LE
	Supported peripherals	Temperature and Humidity sensor, Headset, OBDII dongle, Intec Barcode Scanner, Universal BLE sensors support
Physical specification	on	
	Dimensions	65 x 56.6 x 18.9 mm (L x W x H)
	Weight	EE a
	3	55 g
Interface	3	35 g
Interface	Digital Inputs	3 g
Interface		
Interface	Digital Inputs	3
Interface	Digital Inputs Digital Outputs	3 2
Interface	Digital Inputs Digital Outputs Analog Inputs	3 2 2
Interface	Digital Inputs Digital Outputs Analog Inputs CAN Adapter inputs	3 2 2 1
Interface	Digital Inputs Digital Outputs Analog Inputs CAN Adapter inputs 1-Wire	3 2 2 1
Interface	Digital Inputs Digital Outputs Analog Inputs CAN Adapter inputs 1-Wire GNSS antenna	3 2 2 1 1 Internal High Gain
Interface	Digital Inputs Digital Outputs Analog Inputs CAN Adapter inputs 1-Wire GNSS antenna Cellular antenna	3 2 2 1 1 Internal High Gain Internal GSM High Gain
Interface	Digital Inputs Digital Outputs Analog Inputs CAN Adapter inputs 1-Wire GNSS antenna Cellular antenna USB	3 2 2 1 1 Internal High Gain Internal GSM High Gain 2.0 Micro-USB
Interface	Digital Inputs Digital Outputs Analog Inputs CAN Adapter inputs 1-Wire GNSS antenna Cellular antenna USB LED indication	3 2 2 1 1 Internal High Gain Internal GSM High Gain 2.0 Micro-USB 2 status LED lights

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 Battery charge IP41

Battery charge

-0 °C to +45 °C temperature

Battery discharge

temperature -20 °C to +60 °C

Battery storage

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

-20 °C to +35 °C for 6 months

Certification & Approvals

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

SIRIM QAS, SDPPI POSTEL, ICASA



