

FMB120

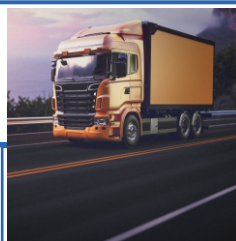
GNSS/GSM/Bluetooth tracker

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|--|---|
| <p>➤ Sensors
Accelerometer</p> | <p>➤ Sleep modes
GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep</p> |
| <p>➤ Configuration and firmware update
FOTA Web, FOTA,(USB, Bluetooth), FMBT mobile application (Configuration)</p> | <p>➤ SMS
Configuration, Events, DOUT control, Debug</p> |
| <p>➤ GPRS commands
Configuration, DOUT control, Debug</p> | <p>➤ Time Synchronization
GPS, NITZ, NTP</p> |
| <p>➤ Fuel monitoring
LLS (Analog), LV-CAN200, ALL-CAN300, CAN-CONTROL, OBDII dongle</p> | <p>➤ 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</p> |
| <p>➤ Ignition detection
Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (CAN Adapters, OBDII dongle)</p> | |

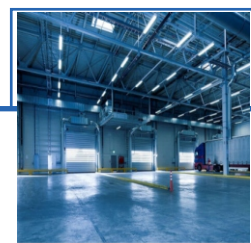
Application



Light Vehicles



Trailer tracking



Heavy Duty Transport

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	10 - 30 V DC with overvoltage protection
Back-up battery	170 mAh Li-Ion battery (0.63 Wh)
Power consumption	At 12V < 6 mA (Ultra Deep Sleep) At 12V < 8 mA (Deep Sleep) At 12V < 11 mA (Online Sleep) At 12V < 20 mA (GPS Sleep) At 12V < 35 mA (nominal)

Bluetooth

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

Physical specification

Dimensions	65 x 56,6 x 18,9 mm (L x W x H)
Weight	55 g

Interface

Digital Inputs	3
Digital Outputser	2
Analog Inputs	2
CAN Adapter inputs	1
1-Wire	1
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM + eSIM
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	Ip41
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
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Add.: 509, 5th Floor, Fortune Square-II, Daman Road, Landmark TBZ, Chala, Vapi - 396191, Gujarat.

 98252 49766 | 98257 49766 | 89800 17818

Ahemdabad | **B**angalore | **C**hennai | **D**aman | **M**umbai | **N**agpur
7069034346 | 76195 63284 | 8980014344 | 9724375577 | 7069034348 | 9561111233