



FMC003

Plug & Play Vehicle Tracker



PLUG & PLAY



4G



BLUETOOTH



GPS



CRASH
DETECTION



IP41



The Virtus Fleet **FMC003 Tracker** is a sleek tracker with Bluetooth connectivity, internal High Gain GNSS and GSM antennas and an integrated backup battery. The 4G Cat 1 technology offers much higher bandwidth, lower latency and improved spectrum efficiency.

DEVICE

Model Name	FMC003-MBIBO	Device Category	OBD
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MODULE

Name	MeiG SLM320-PE2C	Technology	LTE(CaT1)/2G(GSM/GPRS)/GNSS/BLUETOOTH® LE
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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	LTE Cat 1, GSM	2G Bands	GSM: B2/B3/B5/B8
4G Bands	B1/B3/B7/B8/B20/B28 LTE-TDD: B38/B40/B41	Data Support	SMS (text/data)
Data Transfer	LTE: LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8Mbps (DL)/Max 2Mbps (UL) GSM: GPRS: Max 85.6Kbps (DL)/Max 85.6Kbps (UL)		
Transmit Power	Class 4 for GSM850/900: 23±2dBm Class 3 for LTE-TDD: 23±2.7dBm	Class 1 for GSM1800/1900: 20±2dBm Class 3 for LTE-FDD: 23±2.7dBm	

POWER

Input Voltage Range	10 - 30 V DC with overvoltage protection	Back-up Battery	170 mAh Li-Ion battery 3.7 V (0.63 Wh)
Power Consumption	At 12V < 3 mA (Ultra Deep Sleep) At 12V < 5 mA (Deep Sleep) At 12V < 16 mA (Online Deep Sleep)		At 12V < 18 mA (GPS Sleep) At 12V < 33 mA (nominal with no load) At 12V < 2A Max. (with full Load / Peak)

BLUETOOTH® TECHNOLOGY

Specification	4.0 + LE	Supported Peripherals	Temperature and Humidity sensor, Inateck Barcode Scanner, Universal BLUETOOTH® LE sensors support
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PHYSICAL SPECIFICATION

Dimensions	67,2 x 49,6 x 25 mm (L x W x H)
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INTERFACE

Connection	OBDII Socket	GNSS Antenna	Internal High Gain
GSM Antenna	Internal High Gain	USB	2.0 Micro-USB
LED Indication	2 status LED lights	SIM	Micro-SIM

OBD INTERFACE

Data	HS CAN, MS CAN, SW CAN, K-line
Data Reading	OEM Fuel level, odometer and up to 32 vehicle onboard parameters, Supported OBD Protocols: ISO 9141-2 (5 baud init, 10.4 kbaud) ISO 15765-4 CAN (29 bit ID, 250 kbaud) ISO 14230-4 KWP (5 baud init, 10.4 kbaud) ISO 15765-4 CAN (29 bit ID, 500 kbaud) ISO 14230-4 KWP (fast init, 10.4 kbaud) ISO 14229 (UDS) ISO 15765-4 CAN (11 bit ID, 250 kbaud) J2819 (VW TP2.0) ISO 15765-4 CAN (11 bit ID, 500 kbaud)

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	+10 °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		

FEATURES

Sensors	Accelerometer	Sleep Modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, Excessive Idling detection, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip		
Configuration and Firmware Update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth®), FMBT mobile application (Configuration)	SMS	Configuration, Events, Debug
GPRS Commands	Configuration, Debug	Time Synchronization	GPS, NITZ, NTP
Ignition Detection	Accelerometer, External Power Voltage, Engine RPM	Fuel Monitoring	OBDII, OEM fuel level

CERTIFICATION & APPROVALS

Regulatory	CE RED, E-Mark, RCM, SIRIM, CITC, Anatelk
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