

Product Specifications: FMC125

Features		
	Installation	Requires installation
	Portal	Real time tracking supported by our own tracking platform
	Immobiliser	Remotely immobilise your vehicle in the event of a theft
	Crash detection	Using the inbuilt accelerometer, track your vehicle and be alerted in the event of a crash
	Eco-driving	Monitor how your efficiency with Eco-driving analysis, by measuring acceleration, braking and cornering
	Speeding detection	Keep your fleet safe by monitoring driver behaviour
	Jamming detection	Disrupt thieves using GNSS jamming to steal from your vehicles (<i>Jamming detection supported with SLM320-E and SLM320-LA modules</i>)
	GNSS Fuel Counter	Measure fuel consumption and the rate of fuel consumption
	Excessive idling detection	Monitor your vehicles idling times and save money
	Unplug detection	Get an alert if the tracker is removed, which stops tampering with the device and ensuring your protection
	Towing detection	Get alerted if your vehicle is being towed
	Geofencing	Get geofencing alerts using user-defined areas
	Sensors	Accelerometer
	Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
	Configuration and firmware update	FOTA WEB, FOTA, Teltonika Configurator (USB, Bluetooth®)
	SMS	Configuration, Events, DOUT control, Debug
	GPRS commands	Configuration, DOUT control, Debug
	Time Synchronization	GNSS, 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, Satellite Backup (Iridium Edge)
	RS485 Modes	Log Mode, NMEA, LLS, TCP ASCII/Binary

Module		
	Name	FMC125-MBIBO: MeiG SLM320-E with Teltonika TM2500 FMC125-MCIBO: MeiG SLM320-LA with Teltonika TM2500
	Technology	LTE(Cat1)/2G(GSM/GPRS)/GNSS/BLUETOOTH® LE

GNSS		
	GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
	Receiver	33 tracking channels 99 acquisition channels
	Tracking sensitivity	-165 dBm
	Position Accuracy	< 2.5 m CEP
	Hot start	< 1 s
	Warm start	< 25 s
	Cold start	< 35 s
	Velocity Accuracy	< 0.1 m/s (within +/- 15% error)

Cellular		
	Technology	LTE Cat 1, GSM
	2G bands	FMC125-MBIBO: GSM: B2/B3/B5/B8 FMC125-MCIBO: GSM: B2/B3/B5/B8
	4G bands	FMC125-MBIBO: LTE FDD: B1/B3/B7/B8/B20/B28 LTE-TDD:B38/B40/B41 FMC125-MCIBO: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD:B40
	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)
	Data support	SMS (text/data)

Power		
	Input voltage range	10 - 30 V DC with overvoltage protection
	Internal Back-up battery	170 mAh Li-Ion battery, 3.7 V (0.63 Wh)
	Internal fuse	3A, 125V
	Power consumption	At 12V < 4 mA (Ultra Deep Sleep) At 12V < 6 mA (Deep Sleep) At 12V < 12 mA (Online Deep Sleep) At 12V < 19 mA (GPS Sleep) At 12V < 36 mA (nominal with no load) At 12V < 1A Max. (with full Load / Peak)

Bluetooth technology		
	Specification	4.0 + LE
	Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal Bluetooth® LE sensors support

Interface		
	Digital Inputs	2
	Digital Outputs	1
	Analog Inputs	1
	CAN Adapter Inputs	1
	1-Wire	1
	RS232	1
	RS485	1
	GNSS antenna	Internal High Gain
	Cellular antenna	Internal High Gain
	USB	2.0 Micro-USB
	LED indication	2 status LED lights
	SIM	2x SIM Card (Dual-SIM)
	Memory	128MB internal flash memory

Physical specification		
	Weight	62 g
	Dimensions	65 x 56.6 x 20.6 mm (L x W x H)

Operating environment		
	Operating temperature (without battery)	-20 °C to +85 °C
	Storage temperature (without battery)	-20 °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
	Operating temperature (with battery)	-20 °C to +40 °C
	Storage temperature (with battery)	-20 °C to +40 °C

Operating environment		
	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, CITC, RCM, JATE, TELEC, IMDA, SIRIM QAS, SDPPI POSTEL, KC, ICASA, NBTC