

FMC125

ADVANCED LTE TERMINAL WITH GNSS AND LTE/GSM CONNECTIVITY, RS485/RS232 INTERFACES AND BACKUP BATTERY

FMC125 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. FMC125 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, personal cars and so on.



USE CASES



LIGHT VEHICLES



HEAVY DUTY TRANSPORT



TRAILER TRACKING



REFRIGERATED TRANSPORT



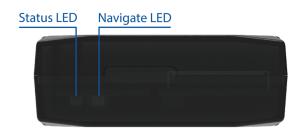
INTERNATIONAL LOGISTICS



CAR SHARING







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Name	FMC125-MBIB0: MeiG SLM320-E with Teltonika TM2500 FMC125-MCIB0: MeiG SLM320-LA with Teltonika TM2500
Technology	LTE(CaT1)/2G(GSM/GPRS)/GNSS/BLUETOOTH
GNSS	
GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS
Receiver	Tracking: 33
Tracking sensitivity	-165 dBM
Position accuracy	< 2.5 CEP
Velocity accuracy	< 0.1m/s (within +/- 15% error)
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 GSM: B2/B3/B5/B8	
4G bands		LTE FDD: B1/B3/B7/B8/B20/B28 LTE-TDD:B38/B40/B41 LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD:B40	
	LTE: LTE FDD:	Max 10Mbps (DL)/Max 5Mbps (UL)	
Data transfer	LTE TDD:	Max 8Mbps (DL)/Max 2Mbps (UL)	
	GSM: GPRS:	Max 85.6Kbps (DL)/Max 85.6Kbps (UL)	
Data support	SMS (text/data)		

Power

with full Load / Peak

10 - 30 V DC with overvoltage protection		
170 mAh Li-lon battery 3.7 V (0.63 Wh)		
At 12V < 4mA		
At 12V < 6mA		
At 12V < 12mA		
At 12V < 19mA		
At 12V < 36mA		

At 12V < 1A Max.



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Configuration and firmware

update SMS

Bluetooth		
Specification	4.0 + LE	
Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support	
Physical specification		
Dimensions	65 x 56.6 x 20.6 mm (L x W x H)	
Weight	55 g	
Operating environment		
Operating temperature (without battery)	-20 °C to +85 °C	
Storage temperature (without battery)	-20 °C to +85 °C	
Operating temperature (with battery)	-20 °C to +40 °C	
Storage temperature (with battery)	-20 °C to +40 °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	
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	
Features		
Sensors	Accelerometer	
Scenarios	Green Driving, Over Speeding detection, GNSS Fuel Counter, DOUT Control Via Call, Excessive Idling detection, Immobilizer, iButton Read Notification, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip, Jamming detection*	
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep	

FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth), FMBT mobile application (Configuration)

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
RS485 Modes	Log Mode, NMEA, LLS, TCP ASCII/Binary
RS485 input voltage range on A or B pin (common-mode voltage)	-7V to +12V
RS232 input voltage range (common-mode voltage)	+/-15V
RS232 input voltage range (maximum operational voltage)	+/-25V

Certification & Approvals

Regulatory**

CE-RED, E-mark, Anatel, RCM

^{*}Jamming detection supported with SLM320-E and SLM320-LA modules.

^{**}In progress