## **Tracking Hardware UK**

# **FMC125**

### ADVANCED LTE TERMINAL WITH GNSS AND LTE/3G/GSM CONNECTIVITY, RS485/ RS232 INTERFACES AND BACKUP BATTERY

FMC125 is small and professional real-time tracking terminal with GNSS and LTE/3G/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.



CAN data reading from vehicles and specialized transport

1-Wire® interface to monitor temperature data and RFID/iButton tags





VEHICLES



HEAVY DUTY Transport



TRAILER Tracking



REFRIGERATED TRANSPORT



INTERNATIONAL LOGISTICS



SHARING



< 1 s

< 25 s

< 35 s



#### Module

NameQuectel EC21-AU, Quectel EC21-EC, Teltonika TM2500TechnologyLTE(CaT1)/3G(UMTS/HSPA)/2G(GSM/GPRS)/GNSS/BLUETOOTHGNSSGPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPSReceiverTracking: 33Tracking sensitivity-165 dBMAccuracy< 3 m</td>

#### Cellular

Hot start

Warm start

Cold start

Technology	LTE Cat 1, UMTS, GSM
2G bands	EC21-AU: GSM: B2/B3/B5/B8 EC21-EC: GSM: B3/B8
3G bands	EC21-AU: WCDMA: B1/B2/B5/B8 EC21-EC: WCDMA: B1/B8
4G bands	EC21-AU: LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 EC21-EC: LTE FDD: B1/B3/B7/B8/B20/B28A
Data transfer	LTE: LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 8.96Mbps (DL)/Max 3.1Mbps (UL) UMTS: WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL) GSM: GPRS: Max 107Kbps (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)
Bluetooth	
Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal BLE sensors support
Physical specification	
Disconstant	

Dimensions	65 x 56.6 x 20.6 mm (L x W x H)
Weight	55 g

#### **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

#### Interface

Digital Inputs	1
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
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, FOTA, Teltonika Configurator (USB, Bluetooth), FMBT mobile application (Configuration)
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
RS485 Modes	Log Mode, NMEA, LLS, TCP ASCII/Binary

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