

FMC00A

LTE CAT1 ADVANCED PLUG AND PLAY
TRACKER WITH BLUETOOTH



4G

Global-band LTE CAT 1 Module, which ensure reliable connection with a fallback to 3G network.

CRASH DETECTION

Crash detection feature based on the accelerometer data

OBDII DATA

Standard OBDII data reading from vehicle ECU

BLUETOOTH 4.0

Bluetooth for external devices and Low Energy Sensors



FLEET
MANAGEMENT



DRIVER
LOG-BOOK



INSURANCE
TELEMATICS (UBI)

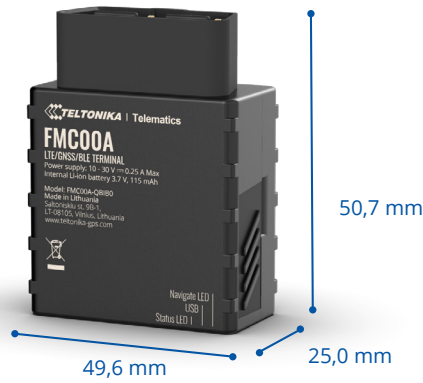


CONNECTED
CAR



RENTAL AND
LEASING

Teltonika FMC00A represents next step in communication technology – this is the first Plug and Track LTE OBD device with GNSS and Bluetooth connectivity. Possibility to read OBD II parameters, effortless installation and detailed accelerometer data provides a compelling solution. This is perfect tracker for a wide range of applications – fleet management of light commercial vehicles, car rental & leasing, driver log-book, insurance telematics (UBI) and so on. Device supports various Bluetooth Low Energy sensors, beacons, firmware and configuration update via Bluetooth.



GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS
Protocol compatible	NMEA, GGA, GGL, GSA, GSV, RMC, VTG
Receiver	Tracking: 33/99 acquisition channels
Tracking sensitivity	-165 dBm
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Module	Quectel EG91-NA
Technology	LTE Cat 1
3G bands	EG91-NA: WCDMA: B2/B4/B5
4G bands	EG91-NA: LTE FDD: B2/B4/B5/B12/B13
Data transfer	WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL) LTE: LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL)
Transmit power	Class 3 (24dBm+1/-3dB) for WCDMA bands Class 3 (23dBm±2dB) for LTE-FDD bands
Data support	SMS (text/data)

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	115 mAh Li-Ion, 3.7 V battery (0.63 Wh)
Internal fuse	3 A, 125 V
Power consumption	At 12V < 6,5 mA (Ultra Deep Sleep) At 12V < 8 mA (Deep Sleep) At 12V < 13 mA (Online Deep Sleep) At 12V < 16,3 mA (GPS Sleep) At 12V < 31 mA (nominal with no load) At 12V < 0,25A Max. (with full Load / Peak)

Bluetooth

Specification	4.0 + LE
Supported peripherals	BLE beacon label, BLE Beacon, BLE temperature sensor, BLE magnetic sensor, BLE movement sensor, Bluetooth temperature and humidity sensor

Physical specifications

Dimensions	50,7 x 49,6 x 25 mm (L x W x H)
Weight	63 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

OBDII connection	K-Line, CAN bus data
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM card
Memory	128MB internal flash memory

Features

Sensors	Accelerometer
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
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, Teltonika Configurator
SMS	Configuration, Events, Debug
TCP commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	OBDII (depends on vehicle model)
Ignition detection	Accelerometer, External Power Voltage, Engine RPM