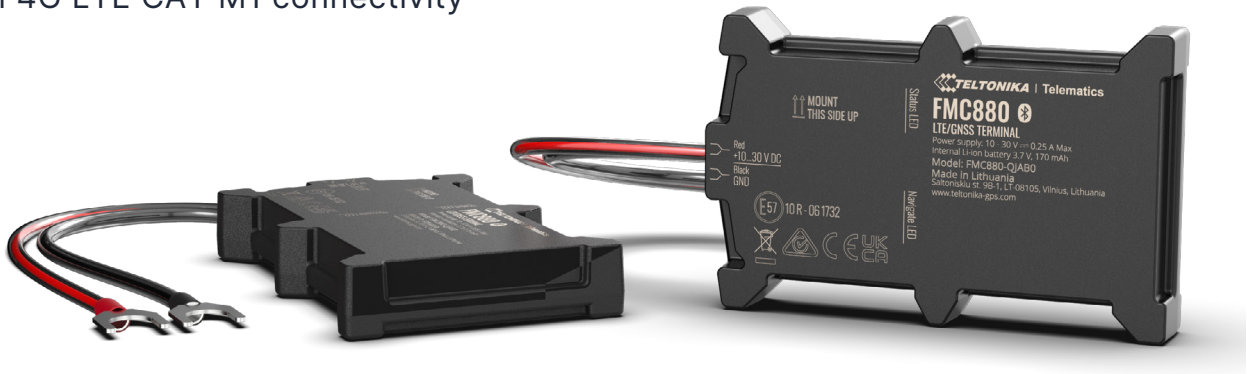# FMC880

Easy installation water-resistance tracker
with 4G LTE CAT M1 connectivity

IMPROVED GNSS TRACKING ACCURACY

Standalone L1 and L5 dual-band GNSS receiver ensures better track quality and quick time to first fix.

CLAMP CONNECTORS

Allows installing tracker in a few minutes

BLUETOOTH®

BLUETOOTH® for external devices and Low Energy sensors

CRASH DETECTION

Crash detection functionality working according accelerometer data

Light vehicles

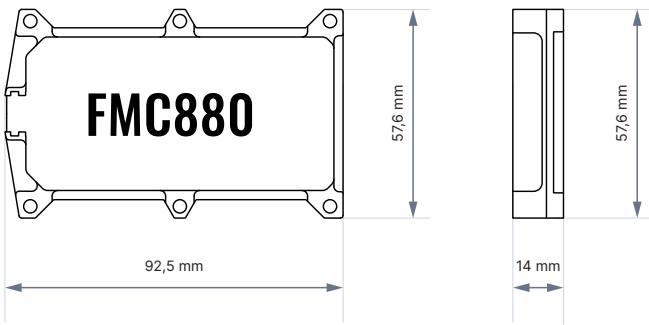**Motorbikes**

Insurance telematics

Courier delivery services

Rental and leasing

FMx8 series devices are EASY to use and FAST to install. The number "8" brings everything together in one place and stands out with its simplicity of basic tracking. Teltonika FMC880 tracker is waterproof device with 4G LTE Cat M1 and BLUETOOTH® connectivity. An extremely fast and easy installation allows connecting device in a few minutes! No specific knowledge or engineers are required for installation. This vehicle GPS trackers has a higher IP65 rating and a slim design which is essential for under-bonnet installation.

Thanks to that, FMC880 tracker perfectly suits for light vehicle tracking in applications like courier delivery service, car rental & leasing, insurance telematics and many other industries, where simple integration is a must. It is a perfect solution for real time monitoring, specially for beginners and those, who are looking for new opportunities to expand their businesses. FMC880 device has a built-in accelerometer, which provides accurate crash trace data. This tracker also supports various BLUETOOTH® Low Energy sensors, beacons, firmware and configuration update via BLUETOOTH®. All of that increase the number of possible use scenarios in any market. It is quick to install, easy to use and ready to start tracking in minutes!

Module

Name	**FMC880-QJAB0:** Quectel EG915U-EU with AG3335 **FMC880-QKAB0:** Quectel EG915U-LA with AG3335
Technology	LTE CAT 1/GSM/GPRS/GNSS/BLUETOOTH® LE

GNSS*

GNSS	L1: GPS, GLONASS, GALILEO, BEIDOU, SBAS*, QZSS* L5: GPS, GALILEO, BEIDOU
Receiver	L1: 75 channel L5: 60 channel
Tracking sensitivity	-165 dBM
Position accuracy	< 1.5 m CEP
Velocity accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

2G bands	GSM: B2/B3/B5/B8
4G bands	**FMC880-QJAB0:** LTE FDD (CAT 1): B1/B3/B5/B7/B8/B20/B28 **FMC880-QKAB0:** LTE FDD (CAT 1): B2/B3/B4/B5/B7/B8/B28/B66
Data transfer	LTE FDD (CAT 1): Max. 10 Mbps (DL) / Max. 5 Mbps (UL) GSM (GPRS): Max. 85.6 Kbps (DL) / Max. 85.6 Kbps (UL)
Transmit power	Class 5 for GSM850/900: 30±5dBM Class 3 for GSM1800/1900: 29±5dBM Class 3 for LTE-FDD: 26±5dBM Bluetooth: 5.54±2dBM Bluetooth LE: -4.26±2dBM
Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP, TLS, MQTT)

* Optional modes available with custom firmware applications, for more information contact your sales manager

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	170 mAh Li-Ion battery 3.7 V
Internal fuse	3 A, 125 V

BLUETOOTH® LE

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

Physical specification

Dimensions	92.5 × 57.6 × 14 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 temperature (with battery)	0 °C to +40 °C
Storage temperature (with battery)	-20 °C to +45 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP65
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

GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 USB Micro B
LED indication	2 status LED lights
SIM	Micro-SIM
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 (USB, Bluetooth® wireless technology)
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Ignition detection	Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)

Certification & Approvals

Regulatory	E-Mark, RoHS, REACH, RCM, Declaration of IMEI assignment, ICASA, CITC, IMDA