

EC Declaration of Conformity

29th of September, 2022

Vilnius

Declaring Organization: UAB TELTONIKA TELEMATICS

Product Name: Fleet Management System
 Product Model Name: FMC920-QJIB0
 Product Description: LTE/GNSS/BLE TERMINAL
 Technical description of built in RF module:
 Frequency range:

| | <i>T_x</i> | <i>R_x</i> |
|---------------------|----------------------|----------------------|
| GSM900: | 880 - 915 MHz | 925 - 960 MHz |
| GSM1800: | 1710 - 1785 MHz | 1805 - 1880 MHz |
| LTE Band 1: | 1920 - 1980 MHz | 2110 - 2170 MHz |
| LTE Band 3: | 1710 - 1785 MHz | 1805 - 1880 MHz |
| LTE Band 5: | 824 - 849 MHz | 869 - 894 MHz |
| LTE Band 7: | 2500 - 2570 MHz | 2620 - 2690 MHz |
| LTE Band 8: | 880 - 915 MHz | 925 - 960 MHz |
| LTE Band 20: | 832 - 862 MHz | 791 - 821 MHz |
| LTE Band 28: | 703 - 748 MHz | 758 - 803 MHz |
| BT/BLE: | 2402 - 2480 MHz | 2402 - 2480 MHz |
| GPS L1: | | 1559 - 1610 MHz |
| GLONASS G1: | | 1559 - 1610 MHz |
| BDS: | | 1559 - 1610 MHz |
| GALILEO E1: | | 1559 - 1610 MHz |

Transmitted Power: Max. 32,63 dBm (GSM900)
 Hardware Version: FMC920-03
 Software Version: FMB.Ver.03.28.02

TELTONIKA TELEMATICS, UAB, declare under our sole responsibility that the above-described product is in conformity with the relevant Community harmonization: European Directive 2014/53/EU (RED).



FMC920

SMALL AND SMART GPS TRACKER WITH A 4G CAT 1 CONNECTIVITY



| 4G CAT 1 | BLUETOOTH® TECHNOLOGY | CRASH DETECTION | BACKUP BATTERY |
|---|--|--|---|
| Reliable 4G (LTE Cat 1) connection with fallback 2G (GSM) network | Bluetooth® LE for external devices and sensors | Crash detection functionality working according accelerometer data | Allows device to work without external power source |



LIGHT VEHICLES



MOTORBIKES



INSURANCE TELEMATICS



COURIER DELIVERY SERVICES



RENTAL AND LEASING

Teltonika FMC920 is a small and smart tracker with Bluetooth® connectivity, internal High Gain GNSS and GSM antennas and an integrated backup battery. The 4G Cat 1 technology offers much higher bandwidth, lower latency and improved spectrum efficiency.

The model is compact, reliable, accurate and enduring. All the interfaces it has are more than enough for basic tracking. Digital Input can be used for ignition, door or alarm button status monitoring, while vehicle remote immobilizing may be achieved by using the Digital Output of the device. At the same time, Analog Input extends device usage scenarios with temperature, humidity, liquid level monitoring and many more.

All of that brings unquestionable value to numerous market segments and societies, countries' budgets and the global economy overall. It can be perfectly adapted to any fleet and any transportation. The far-reaching experience of the FMC920 predecessor shows that it is a perfect choice for basic track & trace and fleet management.



Module

| | |
|------------|--|
| Name | FMC920-QJIB0: Quectel EG915U-EU with Teltonika TM2500 FMC920-QKIB0: Quectel EG915U-LA with Teltonika TM2500 |
| Technology | LTE Cat 1/GSM/GPRS/GNSS/BLUETOOTH® LE |

GNSS

| | |
|----------------------|---|
| GNSS | GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS |
| Receiver | 33 channel |
| Tracking sensitivity | -165 dBm |
| Accuracy | < 3 m |
| Hot start | < 1 s |
| Warm start | < 25 s |
| Cold start | < 35 s |

Cellular

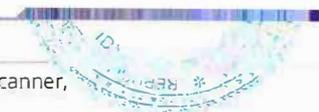
| | |
|---------------|--|
| Technology | LTE Cat 1, GSM |
| 2G bands | FMC920-QJIB0: GSM: B2/B3/B5/B8 FMC920-QKIB0: GSM: B2/B3/B5/B8 |
| 4G bands | FMC920-QJIB0: LTE FDD: B1/B3/B7/B8/B20/B28 FMC920-QKIB0: LTE FDD: B2/B3/B4/B5/B7/B8/B28/ B66 |
| Data transfer | LTE: LTE FDD : Max 10Mbps (DL)/Max 5Mbps (UL) LTE TDD: Max 85.6 Mbps (DL)/Max 85.6 Mbps (UL) GSM: GPRS: Max 85.6Kbps (DL)/ Max 85.6Kbps (UL) |
| Data support | SMS (text/data) |

Power

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|---------------------|---|
| Input voltage range | 10 - 30 V DC with overvoltage protection |
| Back-up battery | 170 mAh Li-Ion battery (0.63 Wh) |
| Power consumption | At 12V < 2 mA (Ultra Deep Sleep) At 12V < 3 mA (Deep Sleep) At 12V < 8 mA (Online Sleep) At 12V < 12 mA (GNSS Sleep) At 12V < 28 mA (Nominal) |

BLUETOOTH® technology

| | |
|-----------------------|---|
| Specification | 4.0 + LE |
| Supported peripherals | EYE beacon and sensor, OBDII dongle, Inateck Barcode Scanner, Universal Bluetooth® LE beacons and sensors support |



Physical specification

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|------------|-----------------------------|
| Dimensions | 79 x 43 x 12 mm (L x W x H) |
| Weight | 54 g |

interface

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|------------------|-----------------------------|
| Digital Inputs | |
| Digital Outputs | |
| Analog Inputs | |
| GNSS antenna | Internal High Gain |
| Cellular antenna | Internal High Gain |
| USB | 2.0 Micro-USB |
| LED indication | 2 status LED lights |
| SIM | Micro-SIM |
| Memory | 128MB internal flash memory |

Operating environment

| | |
|---|---|
| Operating temperature (with battery) | -20 °C to +40 °C |
| 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 | IP54 |
| Battery charge temperature | 0 °C to +45 °C |
| Battery discharge temperature | -20 °C to +60 °C |
| Battery storage temperature | -20 °C to +35 °C for 1 month -20 °C to +30 °C for 6 months |

Features

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|-----------------------------------|---|
| Sensors | Accelerometer |
| Scenarios | Green Driving, Over Speeding detection, GNSS Fuel Counter, DOUT Control Via Call, 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, FOTA, Teltonika Configurator (USB, Bluetooth® wireless technology) |
| SMS | Configuration, Events, DOUT control, Debug |
| GPRS commands | Configuration, DOUT control, Debug |
| Time Synchronization | GPS, NITZ, NTP |
| Fuel monitoring | LLS (Analog), OBDII dongle |
| Ignition detection | Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle) |

Certification & Approvals

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| Regulatory | EMC920-Q11B0: CE/RED, CITC, E-Mark, RCM, REACH, RoHS, TRA, SDPPI (POSTEL), SIRIM QAS, TRA FMC920-Q11B0: Anatel, REACH, RoHS |
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