



FMC920

The most popular compact 4G LTE Cat 1 model for basic tracking



Insurance
telematics



Car Sharing,
Rental &
Leasing



Anti-theft
solution & SVR



Driver
behaviour
monitoring



Basic track &
trace

ECO DRIVING SCENARIO FOR ALL-ROUND BETTER DRIVING

Achieve efficient fuel consumption, prolong vehicle life and increase road safety with eco driving scenario

SLIM DESIGN TO FIT THE TIGHTEST SPACES

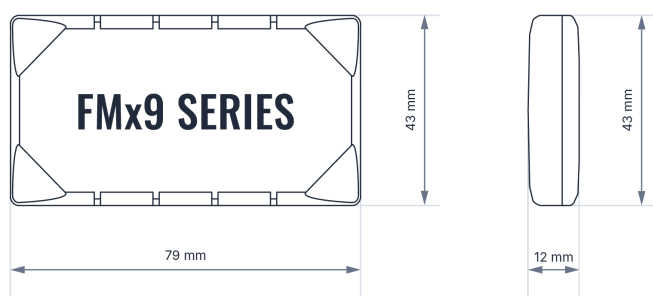
12 mm-height device can be easily fitted in the tightest spaces

EXTENSIVE REMOTE MONITORING POSSIBILITIES

Blocking engine remotely among the numerous available fleet control measures

EXTENDED PRODUCT USAGE SCENARIOS

Bluetooth® LE-based wireless connection of external devices, including Low Energy beacons and sensors, to monitor temperature, humidity, magnet detection, and movement



Module

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

GNSS	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
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Receiver	33 tracking channels 99 acquisition channels
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Tracking sensitivity	-165 dBm
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Position Accuracy	< 2.5 m CEP
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Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
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Hot start	< 1 s
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Warm start	< 25 s
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Cold start	< 35 s
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Cellular

Technology	LTE Cat 1, GSM
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2G bands	FMC920-QJIB0: GSM: B2/B3/B5/B8 FMC920-QKIB0: GSM: B2/B3/B5/B8
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4G LTE bands	FMC920-QJIB0: LTE FDD: B1/B3/B7/B8/B20/B28 FMC920-QKIB0: LTE FDD: B2/B3/B4/B5/B7/B8/B28/ B66
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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)
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Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP, TLS, MQTT)
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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)
Internal fuse	3A, 125V
Power consumption	At 12V < 2 mA (Ultra Deep Sleep) At 12V < 3 mA (Deep Sleep) At 12V < 8mA (Online Deep Sleep) At 12V < 12 mA (GPS Sleep) At 12V < 28 mA (nominal with no load) At 12V < 2 A Max. (with full Load / Peak)

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

Dimensions	79 x 43 x 12 mm (L x W x H)
Weight	54 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)	-20 °C to +40 °C
Storage temperature (with battery)	-20 °C to +60 °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 +45 °C for 1 month -20 °C to +35 °C for 6 months

Interface

Digital Inputs	1
Digital Outputs	1
Analog Inputs	1
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

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming 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	GNSS, NITZ, NTP
Fuel monitoring	LLS (Analog), OBDII dongle
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)

Certification & approvals

Regulatory	FMC920-QJIB0: CE/RED, CITC, E-Mark, RCM, REACH, RoHS, TRA, SDPPI (POSTEL), SIRIM QAS, TRA FMC920-QKIB0: Anatel, REACH, RoHS
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