FMM920

SMALL AND SMART GPS TRACKER WITH 4G CAT M1 CONNECTIVITY



4G CAT M1

Reliable 4G (LTE Cat M1) connection with fallback 2G (GSM) network

BLUETOOTH® TECHNOLOGY

Bluetooth® LE for external devices and sensors

JAMMING DETECTION

Anti-theft solution and stolen vehicle recovery

BACKUP BATTERY

Allows device to work without external power source









COURIER DELIVERY SERVICES



Teltonika FMM920 is a small and smart tracker with Bluetooth® connectivity, internal High Gain GNSS and GSM antennas and an integrated backup battery. The 4G Cat M1 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, to any transportation. The far-reaching experience of the FMM920 predecessor shows that it is a perfect choice for basic track & trace and fleet management.





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FMM920-Q3IB0: Quectel BG95-M3 with Teltonika TM2500		
LTE Cat M1/NB-IoT/GSM/GPRS/GNSS/BLUETOOTH® LE		
GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS		
33 channel		
-165 dBM		
< 3 m		
<1s		
< 25 s		
< 35 s		
LTE Cat M1/NB-IoT/GSM		
BG95-M3: B2/B3/B5/B8		
Cat M1: B1/B2/B3/B4/B5/B8/ B12/B13/B18/B19/ B20/B25/B26/B27/ B28/B66/B85 Cat NB2: B1/B2/B3/B4/B5/B8/ B12/B13/B18/B19/ B20/B25/B28/B66/ B71/B85		
BG95: LTE: Max. 588Kbps (DL)/Max.1119Kbps (UL) GPRS: Max. 107Kbps (DL)/Max. 85.6Kbps (UL)		
Class 4 for GSM850/900: 23±2dBm Class 1 for GSM1800/1900: 20±2dBm Class 3 for LTE-TDD: 23±2.7dBm Class 3 for LTE-FDD: 23±2.7dBm		
10 - 30 V DC with overvoltage protection		
170 mAh Li-lon battery (0.63 Wh)		
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, Unversal Bluetooth® LE beacons and sensors support		



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Dimensions	79 x 43 x 12 mm (L x W x H)		
Weight	54 g		
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		
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			
Sensors	Accelerometer		
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, DOUT Control Via C Excessive Idling detection, Unplug detection, Towing detection, Crash detection, Auto Geofence, Man 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		

Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)

Certification & Approvals

Time Synchronization

Fuel monitoring
Ignition detection

Regulatory FMM920-Q3IB0: Anatel, CE/RED, E-Mark, RCM, RoHS, REACH

LLS (Analog), OBDII dongle

GPS, NITZ, NTP