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.





M	_	ᆈ	١.	ы	_
IV	16)	()	ш	ш	ш

Specification

Supported peripherals

4.0 + LE

sensors support

Module			
Name	FMM920-Q3IB0: Quectel BG95-M3 with Teltonika TM2500		
Technology	LTE Cat M1/NB-IoT/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	<1s		
Warm start	< 25 s		
Cold start	< 35 s		
Cellular			
Technology	LTE Cat M1/NB-IoT/GSM		
2G bands	BG95-M3: B2/B3/B5/B8		
4G bands	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		
Data transfer	BG95: LTE: Max. 588Kbps (DL)/Max.1119Kbps (UL) GPRS: Max. 107Kbps (DL)/Max. 85.6Kbps (UL)		
Transmit power	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		
Power			
Input voltage range	10 - 30 V DC with overvoltage protection		
Back-up battery	170 mAh Li-lon 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			

EYE beacon and sensor, OBDII dongle, Inateck Barcode Scanner, Unversal Bluetooth® LE beacons and



	cal				

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

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	GPS, NITZ, NTP				
Fuel monitoring	LLS (Analog), OBDII dongle				
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)				

Certification & Approvals

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