



FTC921

4G LTE Cat 1 GPS tracker with enhanced GNSS accuracy



HIGHER GNSS ACCURACY

More precise GNSS with up to 40 visible satellites, enabling higher tracking quality

4G CAT 1 CONNECTIVITY

Reliable 4G (LTE Cat 1) connection with fallback 2G (GSM) network

OPTIMIZED SLEEP MODES

Enhance device autonomy and minimise vehicle battery drainage

HIGH VOLTAGE SUPPORT

Extended integration versatility for seamless use in EVs



Light vehicles



Stolen vehicle recovery



Courier delivery services



Rental and leasing



Track and trace applications



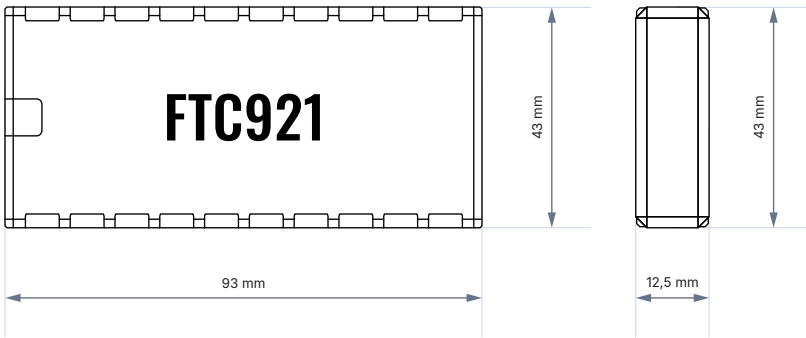
Micro mobility

The Fleet Telematics (FT) platform includes both new firmware development standards and a new hardware, providing enhanced tracking accuracy with high GNSS precision, taking the tracking experience to the next level with up to 40 visible satellites, enabling considerably higher tracking quality for location-based services.

The optimised sleep modes allow the device to operate on its own for an extended period of time and significantly reduce vehicle battery drainage, while high power supply making FTC921 a perfect solution for monitoring and tracking various types of vehicles, including e-motorcycles, e-mopeds, e-rickshaws, and other electric vehicles.

FTC921 belongs to the BASIC products family, keeps its compatibility, reliability and endurance. 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 and any location from now!



Product

Model name FTC921-QJAB0

GNSS

GNSS GPS, GLONASS, GALILEO, BEIDOU

Receive type 135 tracking/acquisition channels

Tracking sensitivity -165 dBm

Position accuracy < 1.8 m CEP

Velocity accuracy < 0.1 m/s (within +/- 15% error)

Cellular

2G bands GSM: B2/B3/B5/B8

4G bands LTE FDD (CAT 1): B1/B3/B5/B7/B8/B20/B28

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

Data support SMS (TEXT, PDU), Network protocols (TCP)

Data Codec

Codec support Codec 8 Extended

Power

Input voltage range 10 - 90 V

Back-up battery 170 mAh Li-Ion battery 3.7 V (0.63 Wh)

Internal fuse 3 A

Power consumption TBA

Temporary values At 12V < 25 mA (nominal with no load)
At 12V < 0.25A Max (with full Load/Peak)

Physical specification

Dimensions	93×43×12.5 mm (L x W x H)
Weight	65 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 +60 °C
Operating humidity	65 ± 20% non-condensing
Ingress Protection Rating	IP41
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage conditions	65 ± 20%RH -20 °C to +25 °C for 3 or more months

Interface

Digital Inputs	1
Digital Outputs	1
Analog Inputs	1
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	USB 2.0 USB Type-C
LED indication	2 status LED lights
SIM	Nano-SIM
Memory	128MB internal flash memory

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, Excessive idling detection, Unplug detection, Crash Detection, Trip
Sleep modes	Deep Sleep
Configuration and firmware update	FOTA WEB, Teltonika Configuration Tool (TCT)

SMS	Configuration, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NITZ, NTP
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage

Certification & Approvals

Regulatory	FTC921-QJAB0: CE/RED, E-Mark, RCM, RoHS, REACH, Pulse 5b
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