



# FTC921

Next-generation high voltage 4G LTE Cat 1 vehicle GPS tracker with enhanced GNSS accuracy



Fleet telematics



Assets & workforce



Car sharing, rental & leasing

## FT PLATFORM

Fleet Telematics (FT) platform offers advanced firmware and hardware, taking your tracking experience to the next level

## HIGHER GNSS ACCURACY

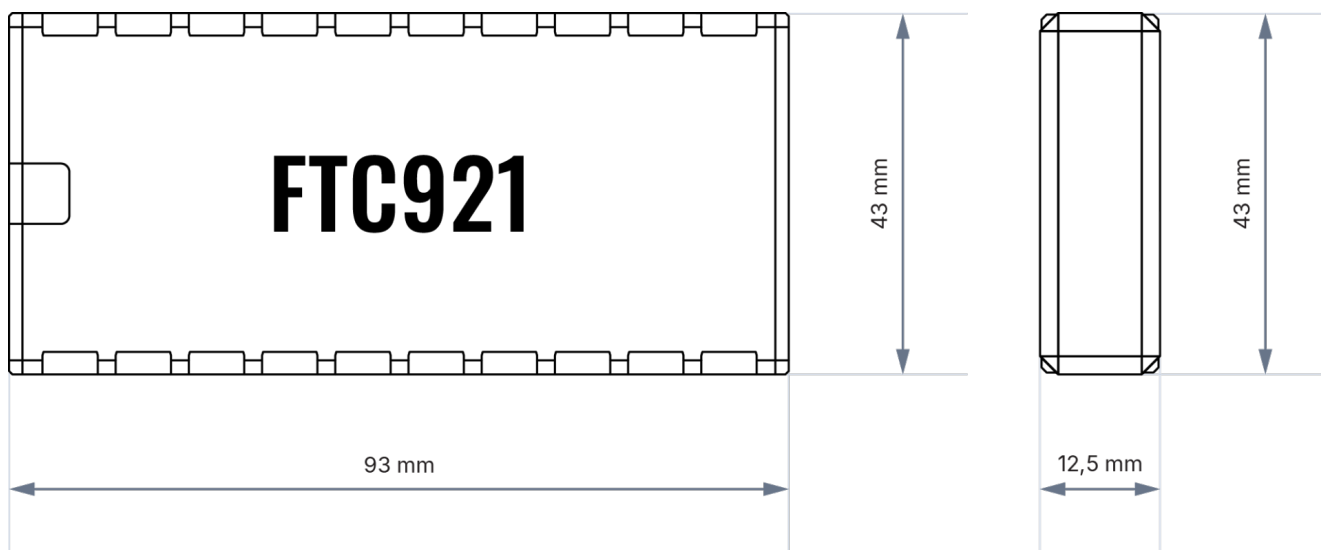
More precise GNSS with up to 41 visible satellites, enabling considerably higher tracking quality for location-based services

## LONGER PERFORMANCE, SLOWER DRAINAGE

Optimised sleep modes allow the device to operate on its own for an extended period of time and significantly reduce vehicle battery drainage

## HIGH VOLTAGE POWER SUPPLY

Extended integration versatility for seamless use in e-motorcycles, e-mopeds, e-rickshaws, and other electric vehicles



## Module

Name **FTC921-QJAB0**: Quectel EG915U-EU with AG3335  
**FTC921-QKAB0**: Quectel EG915U-LA with AG3335

Technology LTE CAT 1/GSM/GPRS/GNSS

## 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)

Hot start < 1 s

Warm start < 25 s

**Cellular**

Technology	LTE CAT 1/GSM
2G bands	<b>FTC921-QJAB0</b> : GSM: B2/B3/B5/B8 <b>FTC921-QKAB0</b> : GSM: B2/B3/B5/B8
4G LTE bands	<b>FTC921-QJAB0</b> : LTE FDD (EG915U-EU): B1/B3/B5/B7/B8/B20/B28 <b>FTC921-QKAB0</b> : LTE FDD (EG915U-LA): B2/B3/B4/B5/B7/B8/B28/B66
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
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**Power**

Input voltage range	10–90 V
Internal Back-up battery	170 mAh Li-Ion battery, 3.7 V (0.63 Wh)
Internal fuse	3A, 125V
Power consumption	At 12V < 25 mA (nominal with no load) At 12V < 0.25A Max (with full Load/Peak)

**Physical specification**

Dimensions	93 x 43 x 12.5 mm (L x W x H)
Weight	65 g

**Operating environment**

Operating temperature	-30 °C to +85 °C
Storage temperature	-30 °C to +85 °C
Operating humidity	65 ± 20% non-condensing
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage conditions	-10 °C to +50 °C for 1 month -10 °C to +35 °C for 3 months 0 °C to +30 °C for 1 year

**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	Crash Detection, Over Speeding, Trip, Odometer, Eco Driving, Excessive idling, Network Jamming Detection, Unplug Detection, Auto Geofence, Towing Detection, Static Navigation, Custom Scenarios
Sleep modes	Online sleep, Deep sleep, Power off 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	<b>FTC921-QJAB0</b> : CE/RED, E-Mark, RCM, RoHS, REACH, Pulse 5b <b>FTC921-QKAB0</b> : Anatel (in progress)
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