

# FTC921

4G LTE CAT 1 GPS TRACKER WITH  
ENHANCED GNSS ACCURACY



HIGHER GNSS ACCURACY **10-90V** POWER SUPPLY LOWER PERFORMANCE, SLOWER DRAINAGE



## 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 93x43x12.5 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<br>-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                         | Over Speeding detection, Jamming detection, Unplug detection, Trip |
| Configuration and firmware update | FOTA Web, Teltonika Configurator (TCT)                             |
| SMS                               | Configuration, Events, Debug                                       |
| GPRS commands                     | Configuration, 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 |
|------------|---|

\*Planned, not started.