# FTC961

## 4G LTE CAT 1 GPS TRACKER WITH ENHANCED GNSS ACCURACY AND IP69K RESISTANCE

HIGHER GNSS ACCURACY

LOWER PERFORMANCE, SLOWER DRAINAGE

IP69K ULTIMATE PROTECTION


### HIGHER GNSS ACCURACY

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

### IP69K WATERPROOF CASING

The ultimate protection against dust, high pressure water, and steam

### OPTIMIZED SLEEP MODES

Enhance device autonomy and minimise vehicle battery drainage

### HIGH VOLTAGE POWER SUPPLY

Extended integration versatility for seamless use in EVs

AGRICULTURE | CONSTRUCTION MACHINES | TRACK AND TRACE APPLICATIONS | MICRO MOBILITY | COURIER DELIVERY SERVICES | LIGHT VEHICLES

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 320mAh battery and 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 FTC961 a perfect solution for monitoring and tracking various types of vehicles, including e-motorcycles, e-mopeds, e-rickshaws, and other electric vehicles.

FTC961 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.

In addition, IP69K casing ensures ultimate protection against dust, high pressure water, and steam, which 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 | FTC961-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)<br>GSM (GPRS): Max. 85.6 Kbps (DL) / Max. 85.6 Kbps (UL) |
| Transmit power | Class 5 for GSM850/900: 30±5dBM<br>Class 3 for GSM1800/1900: 29±5dBM<br>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 | 320 mAh Li-Ion battery 3.7V (1.18 Wh) |
| Internal fuse | 3 A |
| Power consumption | TBA |

## Physical specification

| | |
|---|---|
| Dimensions | 118x48x18.5 mm (L x W x H) |
| Weight | 118 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 | 5% to 95% non-condensing |
| Ingress Protection Rating | IP69K* |
| Battery charge temperature | 0 °C to +45 °C |
| Battery discharge temperature | -20 °C to +60 °C |
| Battery storage temperature | -10 °C to +50 °C for 1 month<br>-10 °C to +35 °C for 3 months<br>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 | 2.0 USB Type-C |
| LED indication | 2 status LED lights |
| SIM | Nano-SIM |
| Memory | 128 MB 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 |