

FTC921

ENGINEERING SAMPLE

SMALL AND SMART GPS TRACKER WITH
A 4G CAT 1 CONNECTIVITY



 MORE PRECISE
GNSS  FUTURE-PROOF
NETWORK SUPPORT  BACKUP
BATTERY



PRECISE GNSS

Enhanced tracking accuracy
for location-based services

4G CAT 1

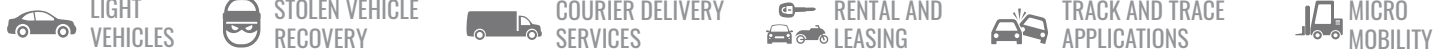
Reliable 4G (LTE Cat 1) connection
with fallback 2G (GSM) network

BACKUP BATTERY

Allows device to work without
external power source

HIGH VOLTAGE SUPPORT

10-90V power supply
availability



It is one of the first three products on the New Platform based on a brand-new chipset. The New Platform covers both new firmware development standards and new hardware. The main advantages, such as precise GNSS and 10-90V power supply availability will enable even more use cases for the clients. The product supports LTE with fallback to 2G, what will allow to have a future-ready solution when 2G sunsets.



Product

Model name FTC921-QJAB6

GNSS

GNSS GPS, GLONASS, GALILEO, BEIDOU
 Receive type 135 tracking/acquisition channels
 Tracking sensitivity -165 dBm
 Position accuracy < 1.5 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 TBD

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)	-20 °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	2.0 USB Micro B
LED indication	2 status LED lights
SIM	Nano-SIM
Memory	32Mb 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*

*In progress