FTC881

4G LTE Cat 1 battery-mounted GPS tracker with enhanced GNSS accuracy and IP69K resistance

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

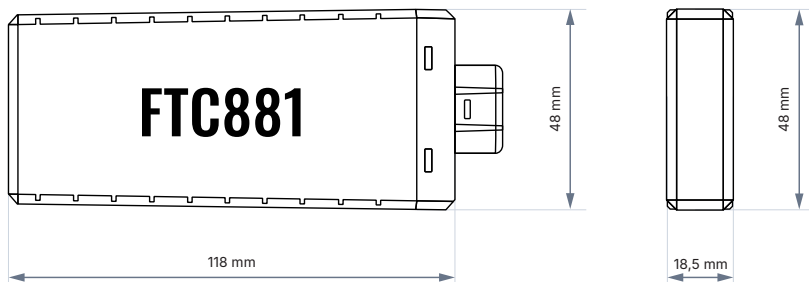**Track and trace applications**

Micro Mobility

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 FTC881 a perfect solution for monitoring and tracking various types of vehicles, including e-motorcycles, e-mopeds, e-rickshaws, and other electric vehicles.

FTC881 belongs to the FAST & EASY products family, which can be connected in a few minutes with U-type cable. No specific knowledge or engineers are required for installation. The IP69K casing ensures ultimate protection against dust, high pressure water, and steam by which which FTC881 can operate in harsh environment.

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	**FTC881-QJAB0**

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU
Receiver	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	320 mAh Li-Ion battery 3.7V (1.18 Wh)
Internal fuse	3 A
Power consumption	TBA

Physical specification

Dimensions	118×48×18.5 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 -10 °C to +35 °C for 3 months 0 °C to +30 °C for 1 year

Interface

Connection	U-Type cable
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	128MB internal flash memory

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, Excessive idling detection, Unplug detection, Crash Detection, Auto Geofence, Trip
Sleep modes	Deep Sleep, Online Sleep, Power Off Sleep
Configuration and firmware update	FOTA Web, Teltonika Configurator (TCT)
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Ignition detection	Accelerometer, External Power Voltage