



FTC880

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



Basic track & trace



Driver behaviour monitoring



Insurance telematics



Last mile delivery services

FT PLATFORM

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

HIGHER GNSS ACCURACY

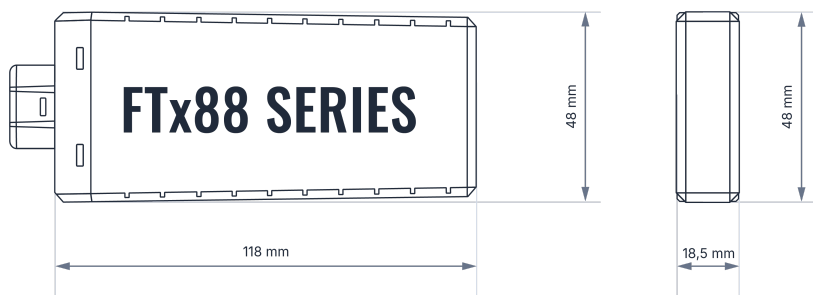
More precise GNSS with up to 41 visible satellites, enabling considerably higher tracking quality for location-based services

IP69K WATERPROOF CASING

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

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



Product

Model name	FTC880-QJAB0 FTC880-QKAB0
------------	--

Module

Name	FTC880-QJAB0: Quectel EG915U-EU with AG3335 FTC880-QKAB0: Quectel EG915U-LA with AG3335
------	--

Technology	LTE CAT 1/GSM/GPRS/GNSS
------------	-------------------------

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU
------	-------------------------------

Receiver	L1: 75 channel
----------	----------------

Tracking sensitivity	-165 dBm
----------------------	----------

Position Accuracy	<1.8m CEP
-------------------	-----------

Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
-------------------	----------------------------------

Hot start	< 1 s
-----------	-------

Warm start	< 25 s
------------	--------

Cold start	< 35 s
------------	--------

Cellular

Technology	LTE CAT 1/GSM
------------	---------------

2G bands	FTC880-QJAB0: GSM: B2/B3/B5/B8 FTC880-QKAB0: GSM: B2/B3/B5/B8
----------	--

4G LTE bands	FTC880-QJAB0: LTE FDD (CAT 1): B1/B3/B5/B7/B8/B20/B28 FTC880-QKAB0: LTE FDD (CAT 1): 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, UDP)
--------------	---

Data codec

Codec support	Codec 8 Extended
---------------	------------------

Power

Input voltage range	10-30 V DC
Internal Back-up battery	320 mAh Li-Ion battery 3.7V (1.18 Wh)
Internal fuse	3 A, 125V
Power consumption	At 12V < 22.729mA Normal mode At 12V < 5.314mA Online Deep Sleep mode At 12V < 2.510mA Deep Sleep mode At 12V < 0.601mA Power off Sleep

Physical specification

Dimensions	118 x 48 x 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 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

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	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	Deep Sleep, Online Deep Sleep, Power Off Sleep
Configuration and firmware update	FOTA WEB, Teltonika Configuration Tool (TCT)
SMS	Configuration, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Ignition detection	Accelerometer, External Power Voltage

Certification & approvals

Regulatory	CE/RED, UKCA, E-Mark, RoHS, REACH, Pulse 5b, RCM
------------	--