



Next-generation high voltage 4G LTE Cat 1 vehicle GPS tracker with enhanced GNSS accuracy



Basic track & trace



Electric vehicle management



2-wheeler & 3-wheeler monitoring



Driver behaviour monitoring



Anti-theft solution & SVR

FT PLATFORM

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

HIGHER GNSS ACCURACY

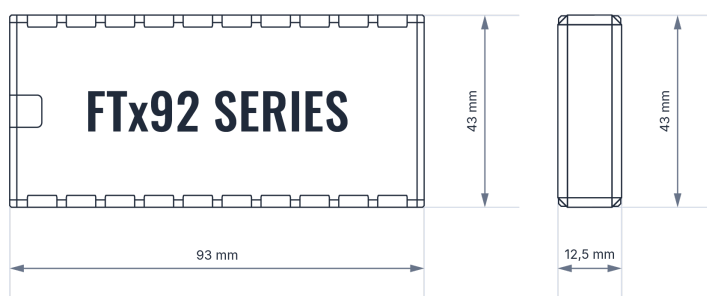
More precise GNSS with up to 41 visible satellites, enabling considerably higher tracking quality for location-based services

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

HIGH VOLTAGE POWER SUPPLY

Extended integration versatility for seamless use in e-motorcycles, e-mopeds, e-rickshaws, and other electric vehicles



Product

Model name	FTC921-QJAB0 FTC921-QKAB0
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Module

Name	FTC921-QJAB0: EG915U-EU with AG3335 FTC921-QKAB0: EG915U-LA with AG3335
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Technology	LTE CAT 1/GSM/GPRS/GNSS
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GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU
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Receiver	L1: 75 channel
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Tracking sensitivity	-165 dBm
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Position Accuracy	< 1.8 m CEP
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Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
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Hot start	< 1 s
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Warm start	< 25 s
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Cold start	< 35 s
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Cellular

Technology	LTE CAT 1/GSM
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2G bands	FTC921-QJAB0: GSM: B2/B3/B5/B8 FTC921-QKAB0: GSM: B2/B3/B5/B8
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4G LTE bands	FTC921-QJAB0: LTE FDD B1/B3/B5/B7/B8/B20/B28 FTC921-QKAB0: LTE FDD B2/B3/B4/B5/B7/B8/B28/B66
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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)
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Transmit power	Class 5 for GSM850/900: 30±5 dBm Class 3 for GSM1800/1900: 29±5 dBm Class 3 for LTE-FDD: 26±5 dBm
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Data support	SMS (TEXT, PDU), Network protocols (TCP)
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Data codec

Codec support	Codec 8 Extended
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Power

Input voltage range	10–90 V DC
Internal Back-up battery	170 mAh Li-Ion battery, 3.7 V (0.63 Wh)
Internal fuse	3 A, 125 V
Power consumption	At 12 V < 25 mA (Nominal with no load) At 12 V < 0.25 A Max (with full Load/Peak)

Physical specification

Dimensions	93 x 43 x 12.5 mm (L x W x H)
Weight	65 g

Operating environment

Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
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 +45 °C
Storage temperature (with battery)	20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months
Battery charge temperature	-20 °C to +45 °C for 1 month
Battery discharge temperature	
Battery storage temperature	-20 °C to +35 °C for 6 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	128 MB 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	Online sleep, Deep sleep, Power off sleep
Configuration and firmware update	FOTA WEB, Teltonika Configuration Tool (TCT)
SMS	Configuration, DOUT control, Debug
GPRS commands	Configuration, DOUT control, 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, CITC, Pulse 5b FTC921-QKAB0: Anatel
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