

# FTC965

Next-generation high voltage 4G LTE Cat 1 vehicle GPS tracker with enhanced GNSS accuracy, IP69K resistance, and Bluetooth® connectivity



Agriculture, construction  
& mining



E-mobility management



Logistics & delivery  
services



Fleet telematics

## HIGHER GNSS ACCURACY

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

## IP69K WATERPROOF CASING

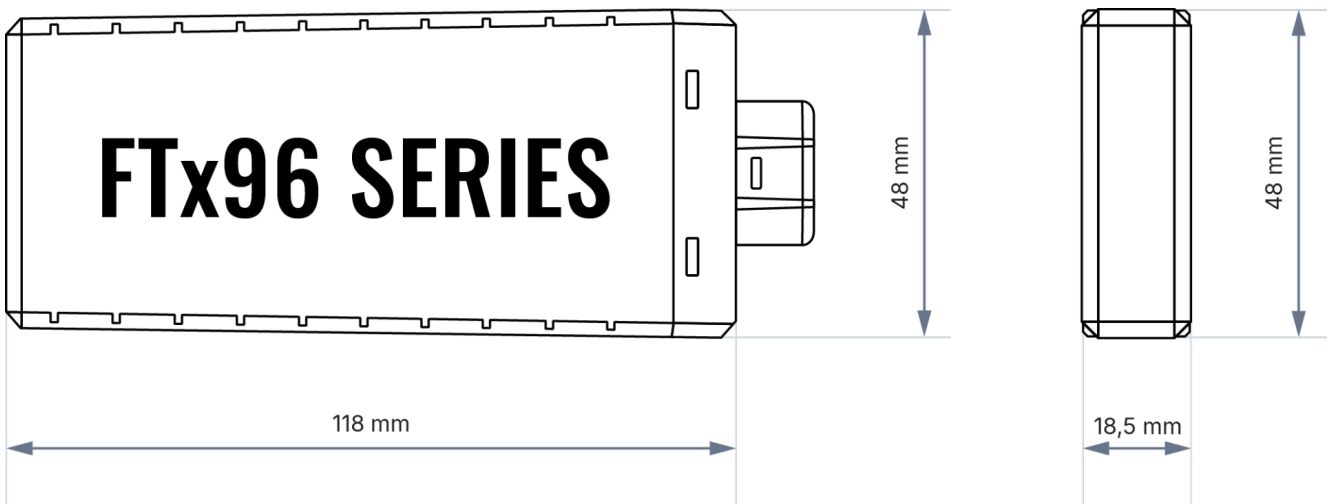
The ultimate protection against dust, high pressure water, and steam

## 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

## EXTENDED PRODUCT USAGE SCENARIOS

Bluetooth® 5.4 LE-based wireless connection of external devices, including Low Energy beacons and sensors, to monitor temperature, humidity, magnet detection, and movement



### Product

Model name	FTC961-QJAB0 FTC961-QKAB0
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### 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)
Cold start	< 35 s
Warm start	< 25 s
Hot start	< 1 s

**Cellular**

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2G bands	<b>FTC965-QJAB0:</b> GSM: B2/B3/B5/B8 <b>FTC965-QKAB0:</b> GSM: B2/B3/B5/B8
4G LTE bands	<b>FTC965-QJAB0:</b> LTE FDD (EG915U-EU): B1/B3/B5/B7/B8/B20/B28 <b>FTC965-QKAB0:</b> LTE FDD (EG915U-LA): 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)

**Data codec**

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Codec support	Codec 8 Extended
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**Power**

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Input voltage range	10–90 V
Internal Back-up battery	320 mAh Li-Ion battery 3.7V (1.18 Wh)
Internal fuse	3A, 125V
Power consumption	TBA

**Bluetooth® Technology**

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Specification	5.3 + LE* available in future firmware releases
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**Physical specification**

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Dimensions	118 x 48 x 18.5 mm (L x W x H)
Weight	118 g

**Operating environment**

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Operating temperature  
(without battery) -40 °C to +85 °C

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Storage temperature  
(without battery) -40 °C to +85 °C

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Operating temperature  
(with battery) -20 °C to +40 °C

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Storage temperature  
(with battery) -20 °C to +60 °C

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Operating humidity 5% to 95% non-condensing

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Ingress Protection  
Rating IP69K

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Battery charge  
temperature 0 °C to +45 °C

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Battery discharge  
temperature -20 °C to +60 °C

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Battery storage  
conditions 65 ± 20%RH  
-20 °C to +25 °C for less than 1 month  
0 °C to +30 °C for less than 3 months  
+21 °C to +25 °C for less than 6 months

**Interface**

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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	128Mb internal flash memory

**Features**

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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 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**

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Regulatory	In progress
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