



# FTC927

Next-generation 4G LTE Cat 1 vehicle GPS tracker with dead reckoning and enhanced GNSS accuracy



Fleet telematics



Driver safety



Logistics & delivery services

## DEAD RECKONING

The track stays when GPS does not – even in tunnels, urban canyons, remote areas, and underground parking lots

## HIGHER GNSS ACCURACY

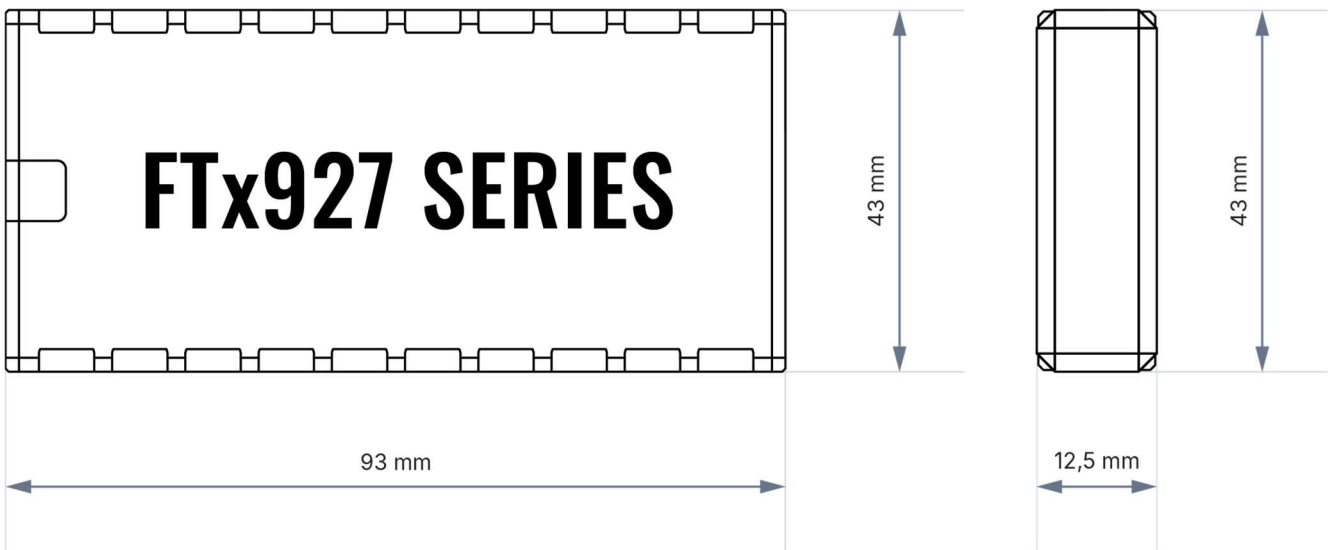
More precise GNSS with up to 41 visible satellites, enabling considerably higher tracking quality for location-based services

## 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

## 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 **FTC927-QJAB0**  
**FTC927-QKAB0**

### Module

Name **FTC927-QJAB0:** EG915U-EU  
**FTC927-QKAB0:** EG915U-LA

Technology LTE CAT 1/GSM/GPRS/GNSS/BLUETOOTH® LE

### 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)

Hot start < 1 s

Warm start < 25 s

**Cellular**

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|                |   |
|----------------|---|
| Technology     | LTE CAT 1/GSM   |
| 2G bands       | <b>FTC927-QJAB0:</b> GSM: B2/B3/B5/B8<br><b>FTC927-QKAB0:</b> GSM: B2/B3/B5/B8                                  |
| 4G LTE bands   | <b>FTC927-QJAB0:</b> LTE FDD: B1/B3/B5/B7/B8/B20/B28<br><b>FTC927-QKAB0:</b> LTE FDD: B2/B3/B4/B5/B7/B8/B28/B66 |
| Data transfer  | LTE FDD (CAT 1): Max. 10 Mbps (DL) / Max. 5 Mbps (UL)<br>GSM (GPRS): Max. 85.6 Kbps (DL) / Max. 85.6 Kbps (UL)  |
| Transmit power | Class 5 for GSM850/900: 30±5dBm<br>Class 3 for GSM1800/1900: 29±5dBm<br>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 |
|---------------|------------------|

**Power**

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

**Bluetooth® Technology**

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|                       |                       |
|-----------------------|-----------------------|
| Specification         | 5.4 + LE              |
| Supported peripherals | EYE beacon and sensor |

**Physical specification**

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

**Operating environment**

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|                               |  |
|-------------------------------|--|
| Operating temperature         | -30 °C to +85 °C   |
| Storage temperature           | -30 °C to +85 °C   |
| Operating humidity            | 65 ± 20% non-condensing  |
| 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<br>-10 °C to +35 °C for 3 months<br>0 °C to +30 °C for 1 year |

**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              | 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 and Gyroscope  |
| Scenarios                         | Eco Driving, Over Speeding Detection, Excessive Idling Detection, Crash Detection, Trip, Odometer, Private/Business Mode, Unplug Detection, Network Jamming Detection, Towing Detection, Auto Geofence, Manual Geofence, Fall Down Detection, Custom Scenarios, Static Navigation, Ignition On Counter |
| 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   |