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

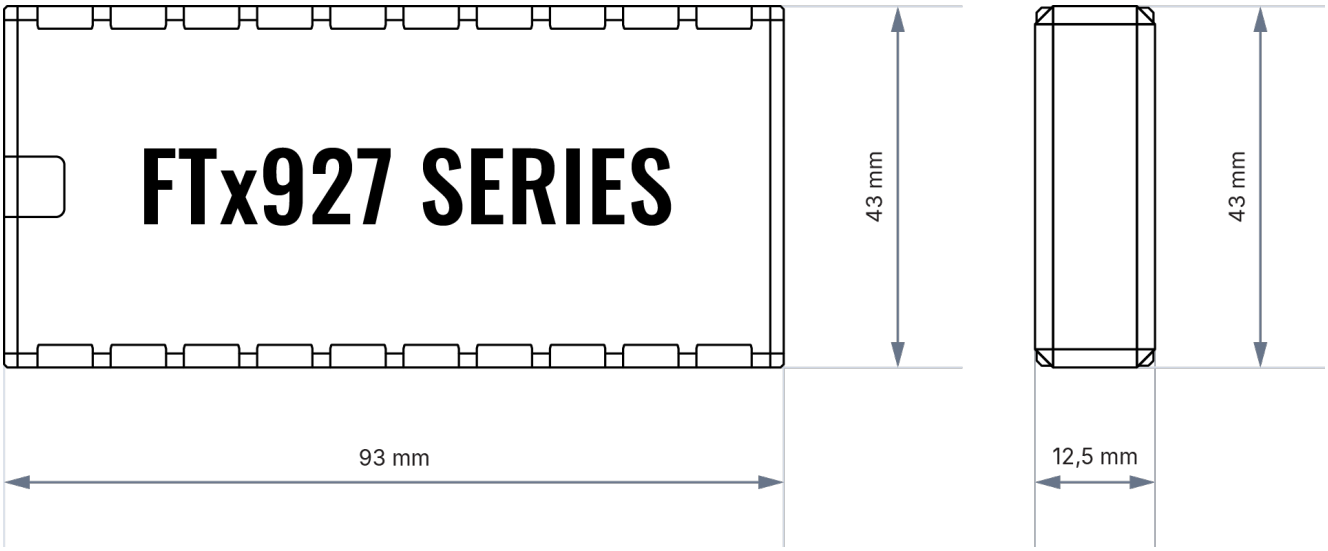
More precise GNSS with up to 41 visible satellites, enabling considerably higher tracking quality for location-based services

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	
Technology	LTE CAT 1/GSM
2G bands	**FTC927-QJAB0**: GSM: B2/B3/B5/B8 **FTC927-QKAB0:** GSM: B2/B3/B5/B8
4G LTE bands	**FTC927-QJAB0**: LTE FDD: B1/B3/B5/B7/B8/B20/B28 **FTC927-QKAB0:** LTE FDD: 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	
Codec support	Codec 8 Extended

Power	
Input voltage range	10-30 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) At 12V < 0.25A Max (with full Load/Peak)

Bluetooth® Technology	
Specification	5.4 + LE
Supported peripherals	EYE beacon and sensor

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

Operating environment	
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 -10 °C to +35 °C for 3 months 0 °C to +30 °C for 1 year

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	128MB internal flash memory

Features	
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

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