



# FTM887

Next-generation 4G LTE Cat M1 battery-mounted vehicle GPS tracker with dead reckoning, enhanced GNSS accuracy, and IP69K resistance



Insurance telematics



Basic track & trace



Car sharing, rental & leasing

## FT PLATFORM

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

## DEAD RECKONING

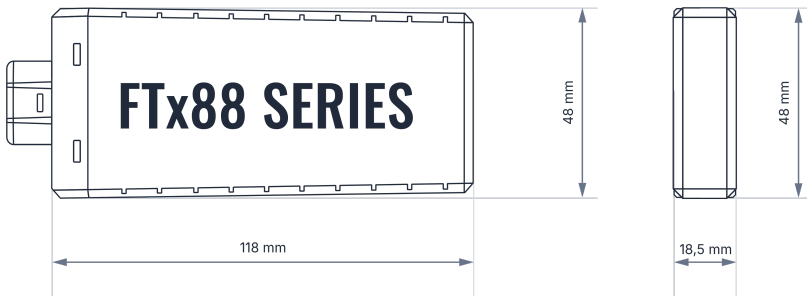
The track stays when GPS does not – even in tunnels, urban canyons, remote areas, and underground parking lots

## HIGHER GNSS ACCURACY

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

## IP69K WATERPROOF CASING

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



## Product

Model name	<b>FTM887- Q2AB0</b> <b>FTM887- Q3AB0</b> <b>FTM887- Q5AB0</b>
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## Module

Name	<b>FTM887- Q2AB0:</b> Quectel BG95-M1 with AG3335 <b>FTM887- Q3AB0:</b> Quectel BG95-M3 with AG3335 <b>FTM887- Q5AB0:</b> Quectel BG95-M6 with AG3335
Technology	LTE CAT M1/NB-IoT/GPRS/GNSS/BLUETOOTH® LE

## GNSS

Receiver	L1: 75 channel
GNSS	GPS, GLONASS, GALILEO, BEIDOU
Tracking sensitivity	-165 dBm
Position Accuracy	< 1.5 m CEP
Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

**Cellular**

2G bands	GSM: B2/B3/B5/B8
Technology	LTE CAT M1/NB-IoT/GSM
4G LTE bands	<p><b>FTM887- Q2AB0 BG95-M1:</b> LTE FDD (CAT M1 Only): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85</p> <p><b>FTM887-Q3AB0 BG95-M3:</b> LTE FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE-TDD (CAT NB2): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85</p> <p><b>FTM887- Q5AB0 BG95-M6:</b> LTE FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B2/ B25/B26/B27/B28/B66/B85 LTE FDD (CAT NB2) B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/ B25/B28/B66/B71/B85</p>
Data transfer	<p><b>FTM887-Q2AB0 BG95-M1:</b> LTE (CAT M1): Max. 588 kbps (DL) / Max. 1119 kbps (UL)</p> <p><b>FTM887 -Q3AB0 BG95-M3:</b> LTE (CAT M1): Max. 588 kbps (DL) / Max. 1119 kbps (UL) LTE (CAT NB2): Max. 127 kbps (DL) / Max. 158.5 kbps (UL) GPRS: Max. 107 kbps (DL) / Max. 85.6 kbps (UL)</p> <p><b>FTM887 -Q5AB0 BG95-M6:</b> LTE (CAT M1): Max. 588 kbps (DL) / Max. 1119 kbps (UL) LTE (CAT NB2): Max. 127 kbps (DL) / Max. 158.5 kbps (UL)</p>
Transmit power	<p>Class 4 for GSM850/900: 23±2dBm</p> <p>Class 1 for GSM1800/1900: 20±2dBm Class 3 for LTE-TDD: 23±2.7dBm</p> <p>Class 3 for LTE-FDD: 23±2.7dBm</p>
Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP)

**Data codec**

Codec support	Codec 8 Extended
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**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
Power consumption	<p>At 12V &lt; 34.60mA Normal mode</p> <p>At 12V &lt; 10.38mA Online Deep Sleep mode</p> <p>At 12V &lt; 7.41mA Deep Sleep mode</p> <p>At 12V &lt; 3.91mA Power off Sleep</p>

**Bluetooth® Technology**

Specification	5.3 + LE*
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**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 and Gyroscope
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 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	<b>FTM887-Q3AB0:</b> CE / RED, UKCA, E-Mark, RoHS, REACH <b>FTM887-Q5AB0:</b> JATE, TELEC, RCM <b>FTM887-Q2AB0:</b> FCC, IC
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