FTM880

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

Fleet telematics

Car sharing, rental & leasing

Driver safety

FT PLATFORM

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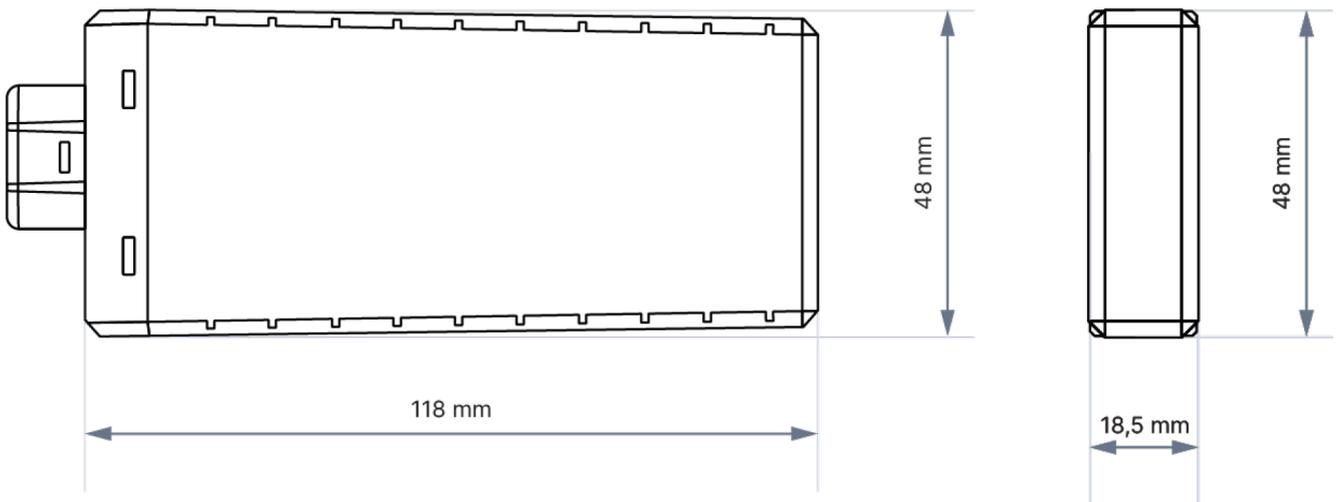
HIGHER GNSS ACCURACY

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

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

Product

Model name	**FTM880-Q3AB0**

Module

Model name	**FTM880-Q3AB0**: Quectel BG95-M3 with AG3335
Technology	LTE CAT M1/NB-IoT/GPRS/GNSS

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU
Receiver	L1: 75 channel
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

Technology	LTE CAT M1/NB-IoT/GSM
2G bands	**FTM880-Q3AB0**: GSM: B2/B3/B5/B8
4G LTE bands	**FTM880-Q3AB0**: 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
Data transfer	LTE FDD (CAT M1): Max. 588 Kbps (DL) / Max. 1119 Kbps (UL) LTE TDD (CAT NB2): Max. 127 Kbps (DL) / Max. 158.5 Kbps (UL) GSM (GPRS): Max. 107 Kbps (DL) / Max. 85.6 Kbps (UL)
Transmit power	Class 4 for GSM850/900: 33±2dBm Class 1 for GSM1800/1900: 30±2dBm Class 3 for LTE-TDD: 20±2dBm Class 3 for LTE-FDD: 20±2dBm
Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP)

Data codec

Codec support	Codec 8 Extended

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	At 12V < 24.523mA Normal mode At 12V < 5.601mA Online Deep Sleep mode At 12V < 2.552mA Deep Sleep mode At 12V < 0.599mA Power off Sleep

Physical specification

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

Operating environment

Operating temperature (without battery)	-30 °C to +85 °C
Storage temperature (without battery)	-30 °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
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 temperature	-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
Scenarios	Green Driving, Over Speeding detection, Jamming detection, Excesive idling detection, Unplug detection, Crash Detection, Auto Geofence, Trip
Sleep modes	Deep Sleep, Online Deep 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	CE/RED, E-Mark, RCM, UK CA