VEOSAT

TELTONIKA | Telematics

FMC880

57,6 mm

57,6 mm

92,5 mm

14 mm

Module

Name	**FMC880-QJAB0:** Quectel EG915U-EU with AG3335 **FMC880-QKAB0:** Quectel EG915U-LA with AG3335
Technology	LTE CAT 1/GSM/GPRS/GNSS/BLUETOOTH® LE

GNSS*

GNSS	L1: GPS, GLONASS, GALILEO, BEIDOU, SBAS*, QZSS* L5: GPS, GALILEO, BEIDOU
Receiver	L1: 75 channel L5: 60 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

2G bands	GSM: B2/B3/B5/B8 FMC880-QJAB0: LTE FDD (CAT 1):
4G bands	B1/B3/B5/B7/B8/B20/B28 FMC880-QKAB0: LTE FDD (CAT 1): 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 Bluetooth: 5.54±2dBM Bluetooth LE: -4.26±2dBM
Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP, TLS, MQTT)

* Optional modes available with custom firmware applications, for more information contact your sales manager

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	170 mAh Li-Ion battery 3.7 V
Internal fuse	3 A, 125 V

BLUETOOTH® LE

Specification	4.0 + LE
Supported peripherals	Temperature and Humidity sensor, OBDII dongle, Inateck Barcode Scanner, Universal Bluetooth® LE sensors support

Physical specification

Dimensions	92.5 x 57.6 x 14 mm (L x W x H)
Weight	63 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 +45 °C
Operating humidity	5% to 95% non-condensing
Ingress Protection Rating	IP65
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to +45 °C for 1 month -20 °C to +35 °C for 6 months

Interface

GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 USB Micro B
LED indication	2 status LED lights
SIM	Micro-SIM
Memory	128MB internal flash memory

Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, Excessive Idling detection, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip
Sleep modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and firmware update	FOTA Web, Teltonika Configurator (USB, Bluetooth® wireless technology)
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Ignition detection	Accelerometer, External Power Voltage, Engine RPM (OBDII dongle)

Certification & Approvals

Regulatory	E-Mark, RoHS, REACH, RCM, Declaration of IMEI assignment, ICASA, CITC, IMDA