MCX1M1

LTE CAT M1 ADVANCED PLUG AND PLAY TRACKER WITH BLUETOOTH

MCX1M1 is EASY OBDII Plug and Play tracker with GNSS, 4G LTE Cat M1 and Bluetooth connectivity. MCX1M1 is perfectly suitable for light vehicle tracking in applications like courier delivery service, car rental & leasing, insurance telematics and many other where simple integration is a must. MCX1M1 has additional feature – reading OBDII data from on-board computer. Device supports firmware and configuration update via Bluetooth.

LTE M1/ NB IoT

Reliable 4G LTE Cat M1 connection

Crash detection functionality working according accelerometer data

Bluetooth for exchanging data over short distances

OBDII Data

Allows reading CAN bus data from vehicle ECU

MANAGEMENT

- Informative configurator
- Multiple ways to configure
- User-friendly interface

CAPABILITIES

- Enhanced base functionalities
- Advanced functionalities
- Continuous new features

TELEMETRY

- LTE Cat M1 coverage
- Enriched I/O elements
- GNSS satellite support

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS
Protocol compatible	NMEA, GGA, GGL, GSA, GSV, RMC, VTG
Receiver	Tracking: 33/99 acquisition channels
Tracking sensitivity	-165 dBM
Accuracy	< 3 m
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Module	Quectel BG96
Technology	LTE Cat M1
2G bands	EGPRS: 850/900/1800/1900MHz
4G bands	LTE FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B28 LTE TDD: B39 (For CAT M1 Only)
Data transfer	CAT M1: Max. 375Kbps (DL), Max. 375Kbps (UL) CAT NB1: Max. 32Kbps (DL), Max. 70Kbps (UL) GPRS: Max. 107Kbps (DL), Max. 85.6Kbps (UL)
Data support	SMS (text/data)

Power

Input voltage range	10 - 30 V DC with overvoltage protection
Internal Back-up battery	115 mAh Li-Ion, 3.7 V battery (0.63 Wh)

Bluetooth

Specification	4.0 + LE
Supported peripherals	BLE beacon label, BLE Beacon, BLE temperature sensor, BLE magnetic sensor, BLE movement sensor, Bluetooth temperature and humidity sensor

Physical specification

Dimensions	50,7 x 49,6 x 25 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 humidity	5% to 95% non-condensing
Ingress Protection Rating	IP41
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

OBDII connection	K-Line, CAN bus data
GNSS antenna	Internal High Gain
GSM antenna	Internal High Gain
USB	2.0 Micro-USB
LED indication	2 status LED lights
SIM	Micro-SIM card
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, Morey Configurator
SMS	Configuration, Events, Debug
TCP commands	Configuration, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel monitoring	OBDII (depends on vehicle model)
Ignition detection	Accelerometer, External Power Voltage, Engine RPM

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