

MCX1M1

LTE CATM1 advanced plug and play tracker with Bluetooth

The Morey MCX1M1 is an easy OBD-II plug and play tracker with GNSS, 4G LTE and Bluetooth connectivity. It is perfectly suited for light vehicle tracking in applications such as courier delivery service, car rental & leasing, insurance telematics and more where simple integration is a must. The MCX1M1 also has an additional feature-reading OBD-II data from the on-board computer. The device supports firmware and configuration updates via Bluetooth.



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

MCX1M1 Highlights



Reliable 4G LTE Cat M1 connection



Crash detection functionality via accelerometer data



Bluetooth for exchanging data over short distances



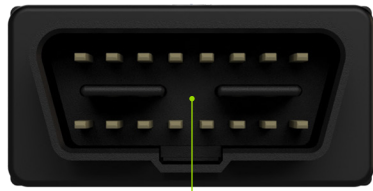
Allows reading of CAN bus data from vehicle ECU



Optional firmware upgrade allows reading of OEM-specific odometer data



Optional firmware upgrade allows reading of OEM-specific fuel data



OBDII connector


 Status LED
 Micro USB
 Navigate LED

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

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|---------------------------------|--|
| 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

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|-------------------|---------------------------------|
| Dimensions | 50,7 x 49,6 x 25 mm (L x W x H) |
| Weight | 63 g |

INTERFACE

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|-------------------------|-----------------------------|
| 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 |

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 |

FEATURES

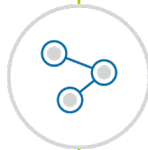
| | |
|-----------------------------------|---|
| Sensors | Accelerometer |
| Scenarios | Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, Excessive Idling detection, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip |
| Sleep modes | 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 |
| Optional Firmware Upgrade | Morey Enhanced OBD |



MCX1M1

Additional Information

RELATED PRODUCTS



MCX101

SKU# 1503188

RELATED SOFTWARE



FOTA Web Morey Configurator

Included
Included

RELATED PARTS



NA

RELATED ACCESSORIES



NA