

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS, DGPS, AGPS
Protocol Compatible	NMEA, GGA, GGL, GSA, GSV, RMC, VTG
Receiver	Tracking: 33 Channel
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 (GSM/GPRS), GNSS
2G Bands	Quad-Band: 800/850/900/1900MHz
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	LTE FDD: Max. 375Kbps (DL), Max. 375Kbps (UL) LTE TDD: 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	550 mAh Ni-mH, 8.4 V Battery

PHYSICAL SPECIFICATION

Dimensions	104,1 x 76,8 x 31,5 mm (L x W x H)
Weight	197 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

INTERFACE

Digital Inputs	4
Negative Inputs	4
Analog Inputs	4
1-Wire Interface	1
RS232	2
RS485	1
CAN J1939	2
J1708	1
K-Line	1
GNSS Antenna	External High Gain
Cellular Antenna	External High Gain
USB	2.0 Mini-USB
LED Indication	2 Status LED Lights
SIM	2x SIM Card (Dual-SIM)
Memory	2 MB Internal Flash Memory and External Micro SD Card

FEATURES

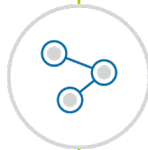
Sensors	Accelerometer
Scenarios	Green/Eco Driving, Over Speeding Detection, Jamming Detection, Excessive Idling Detection, Towing Detection, Crash Detection, Immobilizer, iButton Read Notification
Functionalities	Modbus Support, Auto Geofencing, Manual Geofencing, Trip Detection, Odometer, Fuel Counter, GNSS Unplug Detection, Offline Tracking
Supported Peripherals	Garmin, RFID RS232, RFID 1-Wire, iButton 1-Wire, Temperature 1-Wire, LV-CAN200, ALL-CAN300, CAN-CONTROL, CAN FMS (J1939, J1708), Continental Tire Pressure Measurement Sensor
Sleep Modes	GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep
Configuration and Firmware Update	FOTA Web, Morey Configurator
SMS	Configuration, Events, DOUT Control, Debug
TCP Commands	Configuration, DOUT Control, Debug
Time Synchronization	GNSS, NITZ, NTP
Fuel Monitoring	LLS (Analog), Digital LLS (RS232, RS485), LV-CAN200, ALL-CAN300, CAN-CONTROL, CAN FMS, Ultrasonic Level Sensor
Ignition Detection	Digital Input, Accelerometer, External Power Voltage



MCX3M1

Additional Information

RELATED PRODUCTS



MCX301

SKU# 1503559

RELATED SOFTWARE



FOTA Web
Morey Configurator

Included
Included

RELATED PARTS



MCX GPS External Antenna
MCX LTE External Antenna
MCX301/3M1 Power Cable

SKU# 1506247
SKU# 1506248
SKU# 1505482

RELATED ACCESSORIES



LV-CAN200
ALL-CAN300
CAN-CONTROL
1-Wire Temp Sensor
1-Wire RFID Card & Reader
1-Wire RFID Reader
RFID Cards - 10 pack
iButton Reader
iButton FOB

SKU# 1503193
SKU# 1505822
SKU# 1504399
SKU# 1506281
SKU# 1505411
SKU# 1506266
SKU# 1506267
SKU# 1503195
SKU# 1503194