

MCX3M1

Professional LTE/GNSS terminal

MCX3M1 is a professional worldwide tracker with LTE CAT M1, NB IoT connectivity, that makes this device usable with newest and most cost efficient technologies. MC3M1 features like FMS CAN data (J1939), fuel CAN data (J1708), tachograph live data (K-line), remote tachograph file download, various third party RS232 or RS485 devices support and Dual-SIM will maximize your fleet efficiency. Terminal is suitable for applications like international logistics, refrigerated transport, agriculture, construction & mining, security & emergency services and even more.



MCX3M1 Highlights

Reliable 4G LTE CAT M1 connection

Internal battery provides safe tracking if the vehicle battery is disconnected

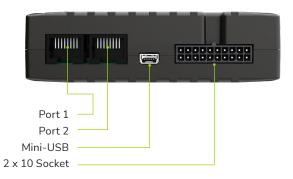
CAN data reading from vehicles and specialized transport

Double network reliability and multiple network selection

RS232/RS485 serial communication interfaces

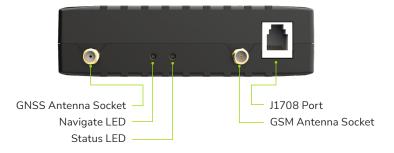
Wide range of input and output elements





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



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

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)

MOREY

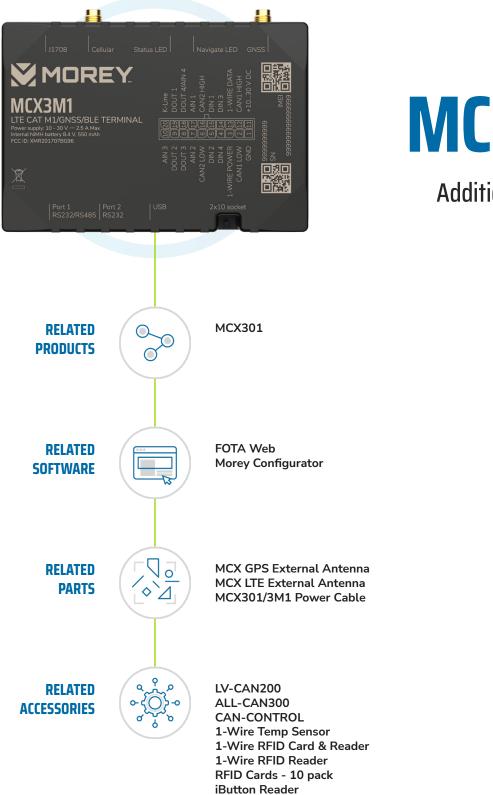
INTERFACE

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

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

FEATURES





MCX3M1

Additional Information

SKU# 1503559

Included Included

SKU# 1506247 SKU# 1506248 SKU# 1505482

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

iButton FOB