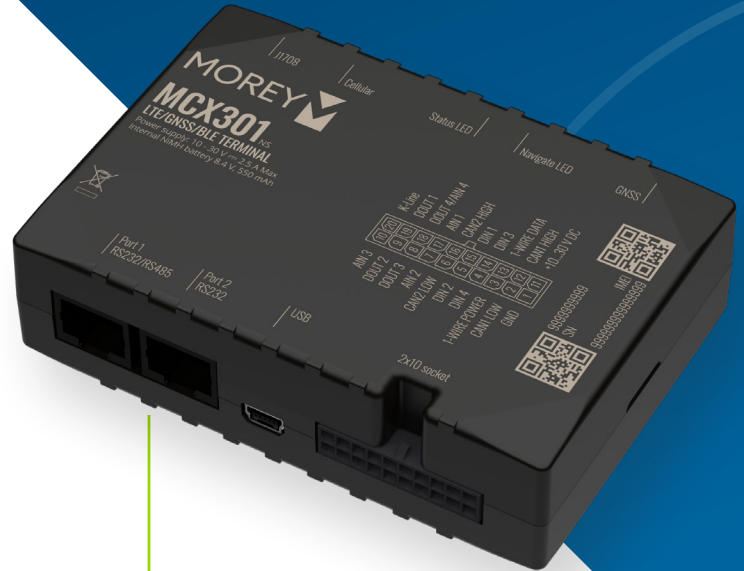


MCX301

Professional LTE/GNSS terminal







MCX301 will maximize your fleet efficiency with features like FMS CAN data (J1939), fuel CAN data (J1708), various third party RS232 or RS485 devices support and Dual-SIM. Terminal is suitable for applications like international logistics, refrigerated transport, agriculture, construction & mining, security & emergency services and even more.

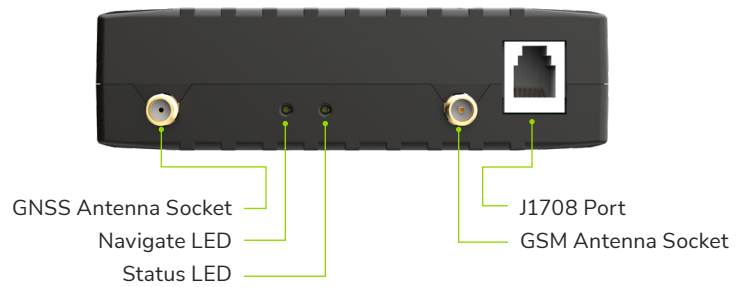
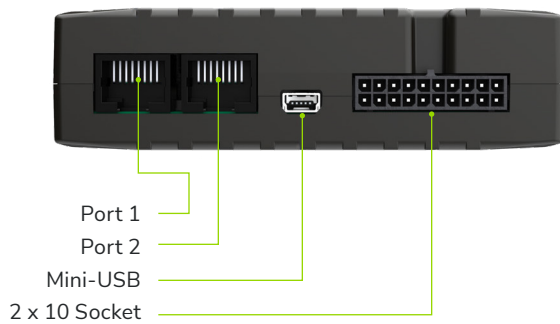


Use Cases

-  Construction and Mining
-  Heavy Duty Transport
-  Public Safety Services
-  Refrigerated Transport
-  International Logistics
-  Agriculture Transport

MCX301 Highlights

-  Reliable 4G connection with fallback to 3G network
-  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
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 EG91-NA Quectel EG91-NS
Technology	LTE CAT 1, UMTS
3G Bands	WCDMA: B2/B4/B5
4G Bands	EG91-NA: LTE FDD: B2/ B4/B5/B12/B13 EG91-NS: LTE FDD: B2/B4/ B5/B12/B13/B25/B26
Data Transfer	LTE FDD: Max 10Mbps (DL), Max 5Mbps (UL) WCDMA: Max 384Kbps (DL)/Max 384Kbps (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

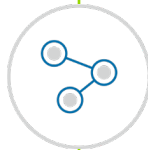
Sensors	Accelerometer
Scenarios	Green/Eco Driving, Over Speeding Detection, Jamming Detection, Excessive Idling Detection, Towing Detection, Crash Detection, Immobilizer, iButton Read Notification
Functionalities	Modbus Support, Auto Geofencing, Manual Geofencing, Trip Detection, Odometer, Fuel Counter, 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



MCX301

Additional Information

RELATED PRODUCTS



MCX3M1

SKU# 1504288

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