

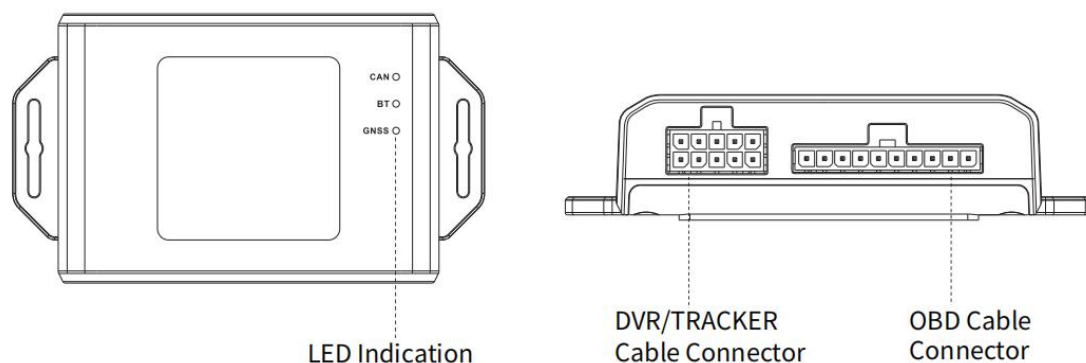
MCAN-302

CAN Data Box

1. Product description

The MCAN-302 features a compact design and is plug-and-play. It supports CAN data reading for SAE ISO15765, J1939, J1587/J1708, EOBD protocols. Additionally, it supports Bluetooth connectivity for transmitting ELD device data and can provide B+, GND, and ACC to peripherals (such as MDVR and 4GDashcam), as well as CAN data via a serial port.

2. Product pictures



3. Product features

- **CAN Diagnostics**

Reads vehicle CAN data, supporting ISO15765, J1939, J1587/J1708, EOBD protocols.

- **ELD**

Supports functional requirements of North American ELD devices.

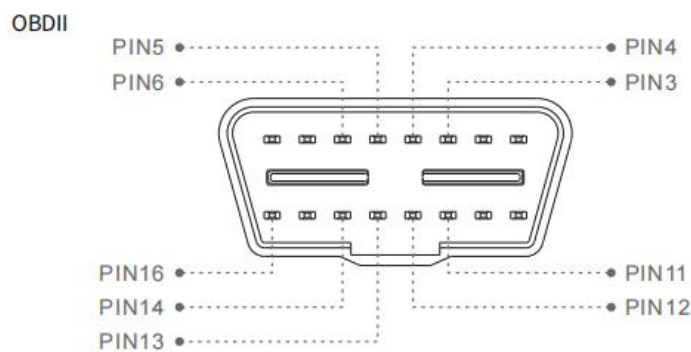
- **Power Supply and ACC**

Provides power and precise ACC signals for peripherals (such as DVRs and trackers), simplifying peripheral installation.

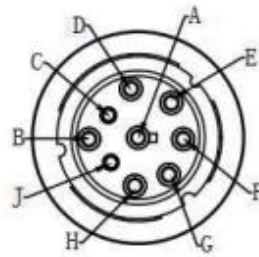
4. Product Parameter

Input voltage	9-33VDC	Output port	10-Pin(PH3.0.2*5-Pin)
Working modes	Working Mode (Ignition On) Sleep Mode (Ignition Off)	Connection	OBDII and J1939 9P to 10P Molex-3.0 connector
LED indication	Blue: Bluetooth Green: GNSS Orange: OBD	Bluetooth	BLE 5.1
Operating temperature	-20℃ to +85 ℃	Operating humidity	5%~95%(Non-condensing)
Dimensions (L*W*H)	70x50x20mm	Weight	60g

5. Pinout



Pin Number	Pin Name	Description
3	CAN2_H	CAN2 high
4	GND(-)	Ground
5	GND(-)	Ground
6	CAN1_H	CAN1 high
11	CAN2_L	CAN2 low
12	J1708(+)	J1708(+)
13	J1708(-)	J1708(-)
14	CAN1_L	CAN1 low
16	B+	Power supply (9-33VDC)



J1939F 9PIN

Pin Number	Pin Name	Description
A	GND(-)	Ground
C	CAN1_H	CAN1 high
D	CAN1_L	CAN1 low
B	B+	Power supply (9-33VDC)
F	J1708(+)	J1708(+)
G	J1708(-)	J1708(-)
H	CAN2_H	CAN2_high
J	CAN2_L	CAN2_low

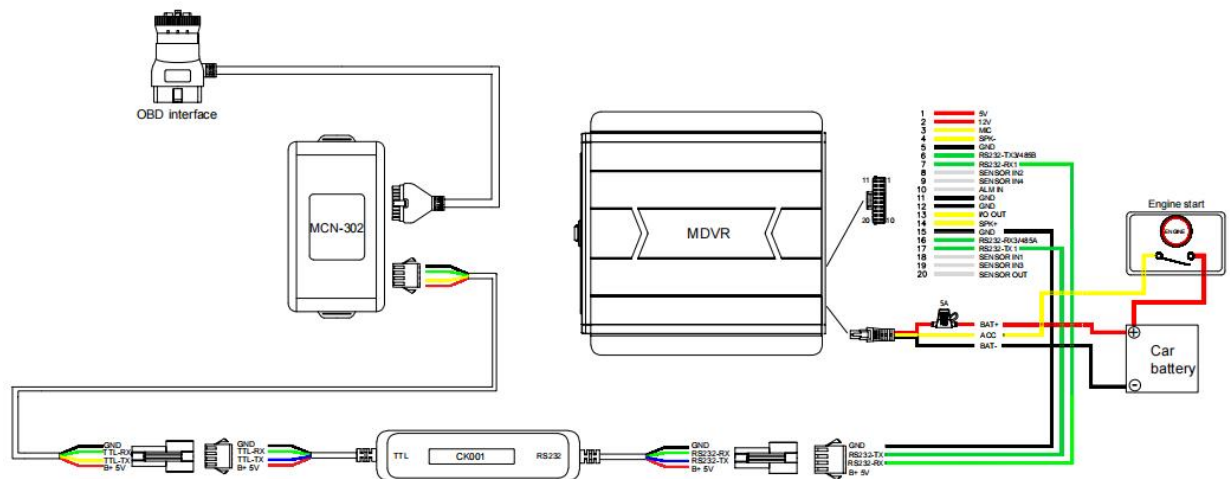
6.Wiring Instructions

1) MCAN-302 and CK001 Wiring

Connect the TTL-TX pin of the MCAN-302 to the TTL-TX pin of the CK001. Connect the TTL-RX pin of the MCAN-302 to the TTL-RX pin of the CK001. Connect the GND pin of the MCAN-302 to the GND pin of the CK001. Connect the 5V pin of the MCAN-302 to the 5V pin of the CK001.

2) MDVR & 4G Dashcam and CK001 Wiring

Connect the RS232-TX port of the MDVR&4G Dashcam to the RS232-RX port of the CK001. Connect the RS232-RX port of the MDVR&4G Dashcam to the RS232-TX port of the CK001. Connect the GND terminal of the MDVR&4G Dashcam to the GND terminal of the CK001.



7. Dashcam & MDVR Host Configuration

After completing the wiring, power on the main unit and accessories, connect your mobile phone to the main unit's Wi-Fi, and use the configuration app (MCTool) to configure the parameters. The specific configuration is as follows:

① MCTool > Setting > Peripheral > COM1 or COM2

Function selected as 808-UT

Type selection is 232

Baud rate selected as 19200

Others remain as default values.

 **COM2**

peripheral

Function	808-UT	>
Type	232	>
Baud Rate	19200	>
Data Bit	8	>
Stop Bit	1	>
Parity	None	>

Save

② MCTool > Setting > Serial Information

Check whether the status of COM2 is normal.

 Serial Information	
Name	COM2
Function	808-UT
Status	normal
Remarks	

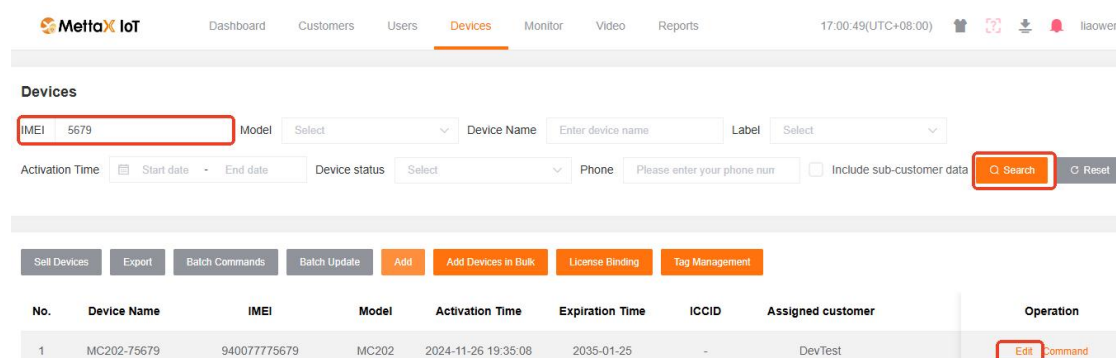
8.MettaXIOT Platform configuration

1) Monitor

Please first ensure that the device has been deployed on the MettaXIOT platform and possesses valid positioning information.

2) Devices > IMEI > Search > Edit

Locate the device requiring configuration within the platform and proceed to edit it.



Devices

IMEI: 5679 | Model: Select | Device Name: Enter device name | Label: Select

Activation Time: Start date - End date | Device status: Select | Phone: Please enter your phone num | Include sub-customer data: ☐ | Search: | Reset:

Operation

No.	Device Name	IMEI	Model	Activation Time	Expiration Time	ICCID	Assigned customer	Operation
1	MC202-75679	940077775679	MC202	2024-11-26 19:35:08	2035-01-25	-	DevTest	Edit Command

3) Sensor Configuration > Add Sensors

Add a new sensor

MC202-75679(940077775679)



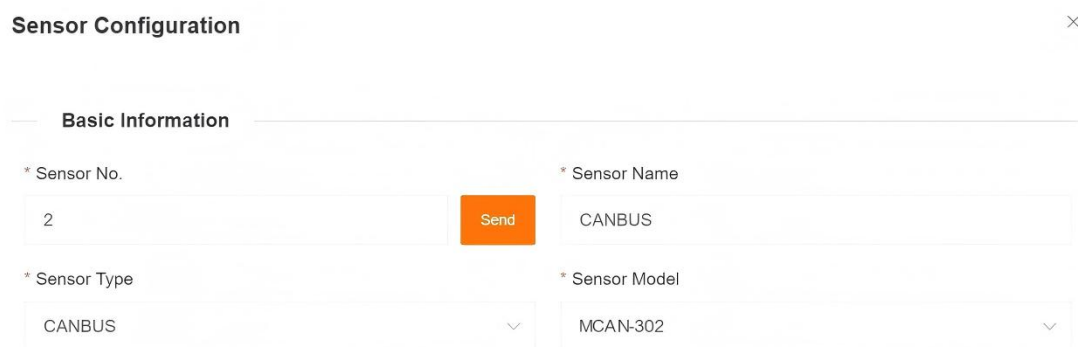
Basic Information | Calculation Rules | **Sensor Configuration** | License | Data | Daylight Saving Time

Enter the interface number used in the Sensor No field. For example, if using COM2, enter 2

Sensor Name may be customised as required

Sensor Type may be selected as required (CANBUS is used as an example in this document), with CANBUS selected.

Sensor Model selected as MCAN-302



Sensor Configuration

Basic Information

* Sensor No. 2 * Sensor Name CANBUS

* Sensor Type CANBUS * Sensor Model MCAN-302

9.MettaXIOT Platform Information Display

Dashboard

Devices

Monitor

Video

Reports

20:45:48(UTC-06:00)

My Report

Add

Alerts Details_20251203084229

Report Type: Alerts Details

Time Range: This week

Track Details_20251119095526

Report Type: Track Details

Time Range: This week

Alerts Summary Report_202511...

Report Type: Alerts Summary Report

Time Range: Today

Alerts Details_20251105184810

Report Type: Alerts Details

Time Range: Today

告警详情_20251105114452

Report Type: Alerts Details

Time Range: Today

My Report

* Report Type

CAN Bus Data

* Report Name

CAN Bus Data_20251204204515

* Time Type

Time Range

Customize

* Time Range

Today

Device

Customer

* Device

+

MC202N-84

My Report

Add

CAN Bus Data_20251204204515

Report Type: CAN Bus Data

Time Range: Today

Alerts Details_20251203084229

Report Type: Alerts Details

Time Range: This week

Track Details_20251119095526

Report Type: Track Details

Time Range: This week

Alerts Summary Report_202511...

Report Type: Alerts Summary Report

Time Range: Today

Alerts Details_20251105184810

Report Type: Alerts Details

Time Range: Today

CANBus Data

* Date

2025-11-01 00:00:00 - 2025-11-30 23:59:59

Device

Customer

* Device

+

MC202N...

Search

Reset

Export

No.	Device Name	IMEI	Report Time	Instant Speed	Engine RPM	OBD Battery Voltage	Engine Load	Coolant Temp
1	MC202N-84929	240079684929	2025-11-19 03:13:39	0 km/h	0 rpm	27.9 V	-	-
2	MC202N-84929	240079684929	2025-11-19 03:13:37	0 km/h	0 rpm	27.9 V	-	-
3	MC202N-84929	240079684929	2025-11-19 03:13:36	0 km/h	0 rpm	27.9 V	-	-
4	MC202N-84929	240079684929	2025-11-19 03:13:35	0 km/h	600 rpm	27.9 V	-	-
5	MC202N-84929	240079684929	2025-11-19 03:13:34	0 km/h	600 rpm	27.9 V	-	-
6	MC202N-84929	240079684929	2025-11-19 03:13:32	0 km/h	600 rpm	27.9 V	-	-
7	MC202N-84929	240079684929	2025-11-19 03:13:31	0 km/h	600 rpm	27.9 V	-	-