

IOT5062 Type-c to CAN Analyzer

Please read the product manual carefully before using the product.

I. Product Overview

This product is a Type-c to CAN analyzer, a high-performance device used in automotive electronics, industrial automation, transportation, and other fields to monitor, analyze, record, and diagnose Controller Area Network (CAN) bus signals. Supporting data transmission rates from 10kbps to 1Mbps, it can meet the communication needs of various application scenarios, stably handling both low-speed sensor data acquisition and high-speed real-time control signal transmission. Connecting to a computer via a Type-c interface, it converts complex CAN bus data into an easily understandable and analyzable format, providing engineers, technicians, and researchers with a convenient and efficient tool for developing, testing, debugging, and maintaining CAN bus-based systems.

II. Function Parameters

1. The product uses a Type-c interface, offering high versatility.
2. Supports CAN 2.0A/2.0B protocol standards, ensuring good compatibility and wide applicability to various CAN bus-based systems.
3. Supports protocols such as SAE J1939, CANFD, DeviceNet, CANopen, and iCAN.
4. CAN1 is a high-speed CAN, with a baud rate of 10kbps~1Mbps.
5. CAN2 is a high/low-speed CAN; at high speed, the baud rate is 10kbps~1Mbps; at low speed, the baud rate is 10kbps~125kbps.
6. CAN2 can be configured via the product's accompanying software to output in either high-speed or low-speed CAN communication mode.
7. Supports real-time data capture, display, and analysis. The software interface allows for intuitive viewing of frame data on the CAN bus, including detailed information such as frame type (data frame, remote frame), frame ID, data length, and data content.
8. Configure the two CAN bus settings via the product's software, allowing you to add or remove the 120Ω resistors.

9. Employs high-performance isolation technology; isolation voltage: 5000V.

10. Interface protection: ±15KV ESD protection, 2KV surge protection.

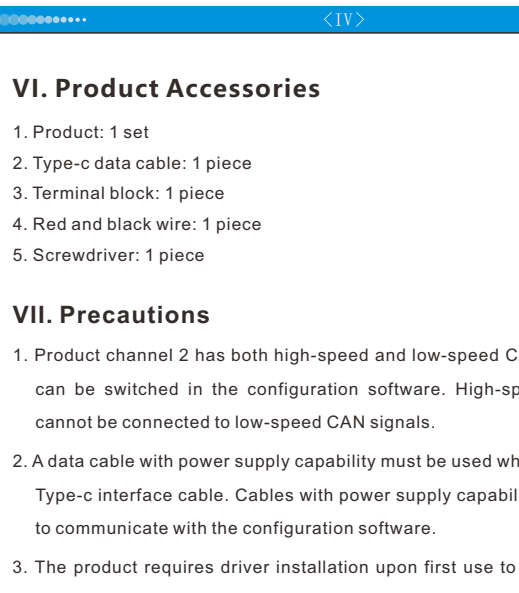
11. Operating power: USB self-powered DC 5V.

12. Supports: Windows 7/8/10/11.

13. Operating environment: Temperature -20°C~85°C, relative humidity 5%-95% (non-condensing).

III. Indicator Lights and Interface Description

Indicator light description

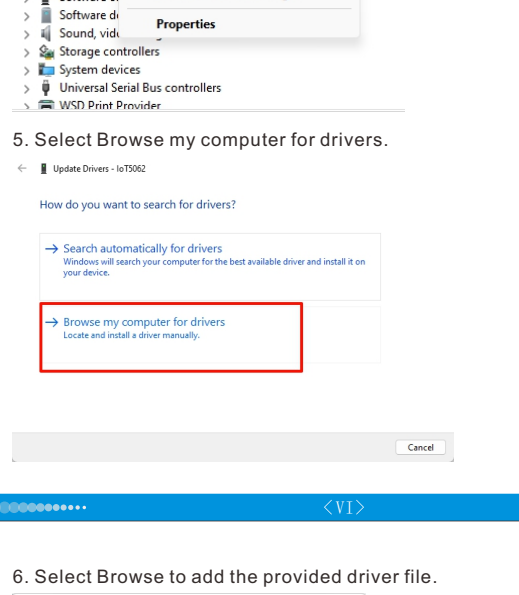


NO.	Indicator Light Name	Indicator Light Function
1	PWR	Power Status
2	RUN	Used to determine whether the software is configured and whether the device is powered on
3	CAN1	CAN1 Channel Data Transmit/Receive Status
4	CAN2	CAN2 Channel Data Transmit/Receive Status
5	RC-R1	CAN1 Channel Resistance Status
6	RC-R2	CAN2 Channel Resistance Status

7. RATE-LS: Channel 2 Low-Speed CAN Status

8. RATE-HS: Channel 2 High-Speed CAN Status

Interface Description



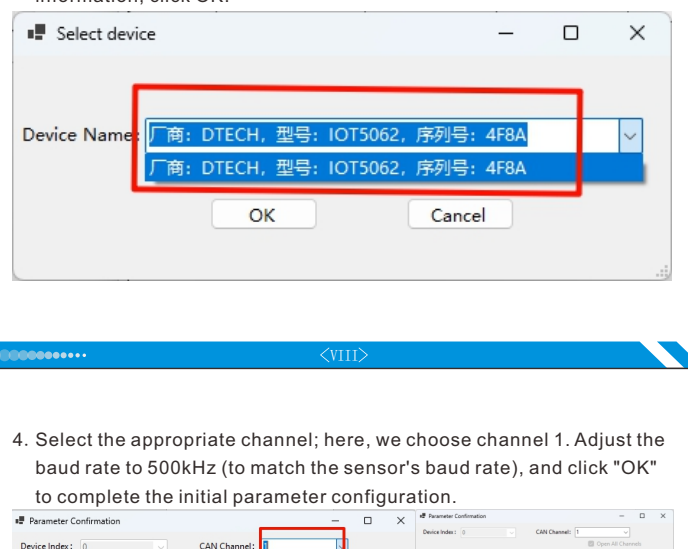
NO.	Interface Name	Interface Function
1	Type-c	Used for power supply and configuration software communication
2	CAN1_L	Low-potential signals are responsible for transmitting "reverse signals"
3	CAN1_G	The signal ground wire provides a stable "reference potential," making signal transmission more stable.
4	CAN1_H	High-potential signals are responsible for transmitting "positive signals".
5	CAN2_L	Low-potential signals are responsible for transmitting "reverse signals".
6	CAN2_G	The signal ground wire provides a stable "reference potential," making signal transmission more stable.
7	CAN2_H	High-potential signals are responsible for transmitting "positive signals".

IV. Application scenarios

In the automotive manufacturing and repair process, engineers need to interact with the vehicle's CAN bus to detect fault codes, read vehicle sensor data, and monitor communication between electronic control units (ECUs). Type-c to CAN analyzer can easily connect to the vehicle's CAN bus and perform data analysis and diagnostics via a computer.



V. Product Connection Diagram



VI. Product Accessories

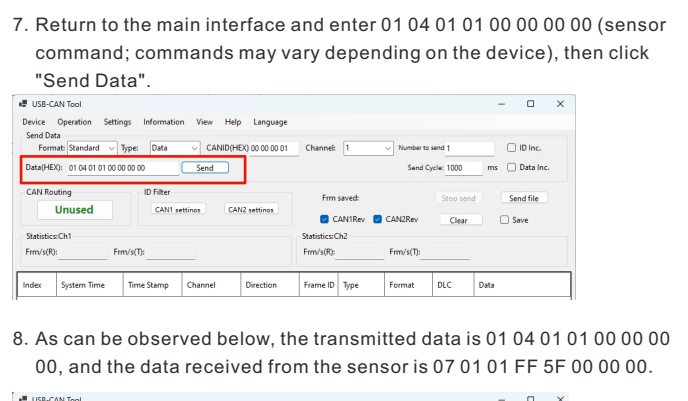
1. Product: 1 set
2. Type-c data cable: 1 piece
3. Terminal block: 1 piece
4. Red and black wire: 1 piece
5. Screwdriver: 1 piece

VII. Precautions

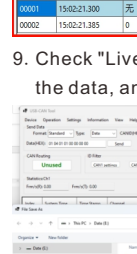
1. Product channel 2 has both high-speed and low-speed CAN signals, which can be switched in the configuration software. High-speed CAN signals cannot be connected to low-speed CAN signals.
2. A data cable with power supply capability must be used when connecting the Type-c interface cable. Cables with power supply capability will not be able to communicate with the configuration software.
3. The product requires driver installation upon first use to be recognized by the computer.
4. If you enter repeater mode and cannot exit, or if the status is abnormal, please restore factory settings to restore normal operation.

VIII. Operating Instructions

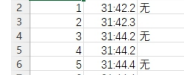
1. Prepare one CAN analyzer, one Type-c to USB data cable, one terminal block, and two wires.



2. Prepare product drivers.



3. Connect the product to the computer, open Device Manager, and find the unconnected device.



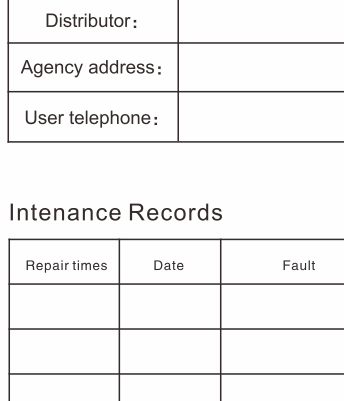
4. Select Update Driver.



5. Select Browse my computer for drivers.



6. Select Browse to add the provided driver file.



7. Complete driver installation.



8. Connect the USB analyzer to the CAN signal device, with CAN_H connected to CAN_H and CAN_L connected to CAN_L.

接收CAN传感器通讯数据

1. Open the configuration software and change the language to English.

2. Click on Device Operation, then click Start Device.

3. After reading the manufacturer, product model, and serial number information, click OK.

4. Select the appropriate channel; here, we choose channel 1. Adjust the baud rate to 500kHz (to match the sensor's baud rate), and click "OK" to complete the initial parameter configuration.

5. Adjust the CAN transmit channel to channel 1, and keep CAN1 receive enabled.

6. Select CAN parameter settings, choose CAN channel 1, check the "Set resistor" box, click "Set," and a pop-up window will appear indicating successful resistor setting.

7. Return to the main interface and enter 01 04 01 01 00 00 00 00 (sensor command; commands may vary depending on the device), then click "Send Data".

8. As can be observed below, the transmitted data is 01 04 01 01 00 00 00 00, and the data received from the sensor is 07 01 01 FF 5F 00 00 00.

9. Check "Live Storage", select the save path, enter the filename to save the data, and save the data in live storage.

10. Check "Real-time Storage", select the save path, enter the filename of the file to be saved, and save the data in real-time storage.

A1	A	B	C	D	E	F	G	H	I	J	K	L
1	序号	系统时间	时间标识	CAN通道	传输方向	ID号	帧类型	帧格式	长度	数据		
2	1	31.42.2	元	ch1	发送	0x0001	数据帧	标准帧	8	01-04-01-01-00-00-00-00		
3	2	31.42.3	元	ch1	接收	0x0001	数据帧	标准帧	8	07-01-01-FF-5F-00-00-00		
4	3	31.44.2	元	ch1	发送	0x0001	数据帧	标准帧	8	01-04-01-01-00-00-00-00		
5	4	31.44.2	元	ch1	接收	0x0001	数据帧	标准帧	8	07-01-01-FF-5F-00-00-00		
6	5	31.44.4	元	ch1	发送	0x0001	数据帧	标准帧	8	01-04-01-01-00-00-00-00		
7	6	31.44.4	元	ch1	接收	0x0001	数据帧	标准帧	8	07-01-01-FF-5F-00-00-00		
8	7	31.44.6	元	ch1	发送	0x0001	数据帧	标准帧	8	01-04-01-01-00-00-00-00		
9	8	31.44.6	元	ch1	接收	0x0001	数据帧	标准帧	8	07-01-01-FF-5F-00-00-00		
10	9	31.45.0	元	ch1	发送	0x0001	数据帧	标准帧	8	01-04-01-01-00-00-00-00		
11	10	31.45.1	元	ch1	接收	0x0001	数据帧	标准帧	8	07-01-01-FF-5F-00-00-00		

Product Warranty Card

Customer Information

Model:	
Date of purchase:	
User telephone:	
User address:	
Distributor:	
Agency address:	
User telephone:	Dealer stamp valid

Intenance Records

Repair times	Date	Fault	Treatment measures	Repair work NO.

Electronic products are guaranteed for one year, and other products are guaranteed for two years. Damage caused by human factors or product burnout caused by improper operation is not included in the scope of warranty.