

IOT5062 Type-c to CAN Analyzer

Please read the product manual carefully before using the product.

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 ${\sf CAN}$ bus-based systems.

iCAN.

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Interface Description

0 0

7

II. Function Parameters

I. Product Overview

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

1. The product uses a Type-c interface, offering high versatility.

and wide applicability to various CAN bus-based systems.

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

2. Supports CAN 2.0A/2.0B protocol standards, ensuring good compatibility

3. Supports protocols such as SAE J1939, CANFD, DeviceNet, CANopen, and

- 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
- 0 0
- Indicator Light Name NO. Indicator Light Function 0 **PWR** Power Status

RUN

CAN1

CAN2

RC-R1

RC-R2

Used to determine whether the software is configured and whether the device is powered on

CAN1 Channel Data Transmit/Receive Status

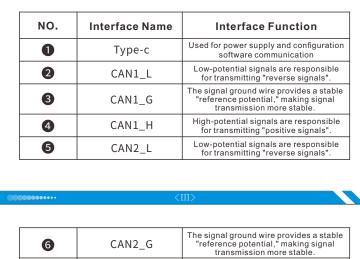
CAN2 Channel Data Transmit/Receive Status

CAN1 Channel Resistance Status

CAN2 Channel Resistance Status

a RATE-LS Channel 2 Low-Speed CAN Status 8 RATE-HS Channel 2 High-Speed CAN Status

RUN CAN1 CAN2



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

CAN2_H

perform data analysis and diagnostics via a computer.

V. Product Connection Diagram

VI. Product Accessories

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: 1 set

IV. Application scenarios

High-potential signals are responsible for transmitting "positive signals".

		Samuel Samuel	•		
		Type-c Interfa	ce Expansion		
DTECH	T Drech	T DTECH	T Dreco	T DTECH	I DTECH
LH	 L H	LH	LH	 L H	ĹH
CAN Devices	CAN Devices	CAN Devices	CAN Devices	CAN Devices	CAN Devices
800000		<i< th=""><th>V></th><th></th><th></th></i<>	V>		
				•	•

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

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

3. The product requires driver installation upon first use to be recognized by

4. If you enter repeater mode and cannot exit, or if the status is abnormal,

please restore factory settings to restore normal operation.

1. Prepare one CAN analyzer, one Type-c to USB data cable, one

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

cannot be connected to low-speed CAN signals.

to communicate with the configuration software.

VIII. Operating Instructions

terminal block, and two wires.

2. Prepare product drivers.

the unconnected device.

Update driver

Properties

5. Select Browse my computer for drivers.

6. Select Browse to add the provided driver file.

群族(年記安装)(1015002 研育教研育家(中記安装)(usb_drivers > Include subfolders

Let me pick from a list of available drivers on my computer This list will show available drivers compatible with the device, and all drivers in the same category as the device.

接收CAN传感器通讯数据

Register State Baudrate Detect

USBCAN Test Tool

■ Select device

information, click OK.

Select the appropriate

CAN Valenmetes

Baud Rate: | 500k bps | v | BTR2/1:

Filter Verification Code: | 0-x80000000 | Filtering

Filter Mask Code: | 0-xFFFFFFFF |

Operating Mode: | Normal | v |

Baud Rate: 500k bps

Operating Mode: Normal

Device Operation Settings Information View Help Language Send Data Formats Standard Types Data CANID(HEX) 00 00 00 01 Data(HEX): 01 04 01 01 00 00 00 00

CAN Routing
Unused
CAN1 settines
CAN2 settines
CAN2 settines

■ Parameter Confirmation

Filter Mask Code:

Device Index: 0 CAN Parameters

■ USB-CAN Tool

Frm/s(R):

■ CAN Parameter Settings

Baud Rate Se

info (5)

"Send Data".

uting Unused

Unused

Statistics:Ch1
Frm/s(R):

lote: CAN baud rate=16000000/(synchronizati egment 2)/prescaler, compatible withSJA100

Non-program

successfully set

USE-CAN DO Device Operation Settings Information View Help Language

Send Data

System Time Time Stamp Channel Direction

 Device
 Operation
 Settings
 Information
 View
 Help
 Language

 Send Data
 Formate
 Sandard
 V Type:
 Data
 CANID(HEX) 00 00 00 00 00

 Data(HEX):
 1014 (101) 00 10 00 00
 Send

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

CAN1Rev CAN2Rev

DLC Format

☐ Save

Statistics:Ch2 Frm/s(R):

Frame ID Type

8. As can be observed below, the transmitted data is 01 04 01 01 00 00 0000, and the data received from the sensor is 07 01 01 FF 5F 00 00 00.

Channel: 1

Frm/s(R): 0.00

☑ CAN1Rev ☑ CAN2Rev

Baud Rate: 500k bps

Baud Rate: 1TQ

Synchronization Segment: Propagation Segment: CAN_BIT_6TQ

Prescaler: 2 Sampling Point: Sam

Phase Buffer Segment 1: CAN_BIT_TIQ

Phase Buffer Segment 2: CAN_BIT_ZTQ

Data(HEX): 01 04 01 01 00 00 00 00

Uninstall device

Scan for hardware changes

 IoT5062 4. Select Update Driver. ✓ № Other devices

IoT5062

Ports (CON

Print queue

Printers

Processors
Software co

Software de

Sound, vide

Universal Serve.

WSD Print Provider Universal Serial Bus controllers

■ Update Drivers - IoT5062

- → Search automatically for drivers Windows will search your computer for the best available driver and install it on your device.
 - Next Cancel 7. Complete driver installation.

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

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

 CAN中機状态
 智能过滤
 保存总域数:
 停止效率
 发送文件

 Unused
 CAN1设置
 CAN2设置
 ② CAN1接收
 ③ CAN2接收
 清 ② □ 实对存

 序号
 系统时间
 时即际识
 CAN透道
 传输方向
 ID号
 较类型
 帧格式
 长度
 数据

 Index
 System Time
 Time Stamp
 Channel
 Direction
 Frame ID
 Type
 Format
 DLC

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

channel; nere, we choose baud rate to 500kHz (to match the sensor's baud rate), and click "OK"

BTR0/1: 00 1C (HEX)

Cancel

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

Frm/s(R):

Filtering Mode: Accept all

Filter Configuration Tool

ms Data Inc.

Send Cycle: 1000

☐ Is Resistance Setup

Filtering Mode: Accept all V Advanced Setup

Operating Mode
Operating Mode: Normal

Filter Mask Code: FFFFFFF

□ X

Frm saved:

CAN1Rev CAN2Rev Clear

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

Frm saved: Stop send Send fill

CAN2

CAN1Rev CAN2Rev Clear Save

- 🗆 ×

发送文件

☐ ID Inc.

Send Cycl 10 ms Data Inc.

发送总帧数: 1 D递增

厂商: DTECH, 型号: IOT5062, 序列号: 4F8A Device Name OK

to complete the initial parameter configuration.

Cancel

CAN Channel: 1

- 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. ■ USB-CAN Tool Device Operation Settings Information View Help Language CAN Settings Send Data Format: Standard HEX) 00 00 00 01 Receive Scan time(30ms) Data(HEX): 01 04 01 Received frms/time(2500) Data list Buffer size(200) CAN Routing Developer mode Receive Enable Unused USB Reconnection mode Statistics:Ch1 Reset Config Frm/s(R):
- 9. Check "Live Storage", select the save path, enter the filename to save the data, and save the data in live storage. For savel: 1 See and Seed file

 GANSter GANSter Case Gar

 Substact CN

 Femilify 500 Femilify 500 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. B C D 財育核財 的同核財 CAN通道 31422 元 ch1 31423 ch1 31442 ch1 31442 ch1 31444 ch1 31444 ch1 31446 ch1 31445 ch1 31450 ch1 31450 ch1 数据 8 01-04-01-01-00-00-00-00 8 07-01-01-F-5F-00-00-00 8 07-01-01-F-5F-00-00-00 8 01-04-10-10-00-00-00 8 01-04-10-10-00-00-00 8 01-04-10-10-00-00-00 8 01-04-10-10-00-00-00 8 07-01-01-FF-5F-00-00-00 8 07-01-01-FF-5F-00-00-00 8 07-01-01-FF-5F-00-00-00 ID号 0x0001 0x0001 0x0001 0x0001 0x0001 0x0001 0x0001

User address: Distributor: Agency address: User telephone: Dealer stamp valid

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.

Product Warranty Card Customer Information Model: Date of purchasel: User telephone: Intenance Records