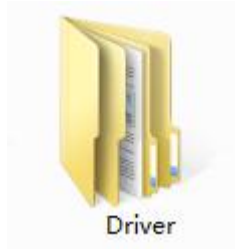


USB-CAN User Manual

1.Install the driver

In the data to see the following folder

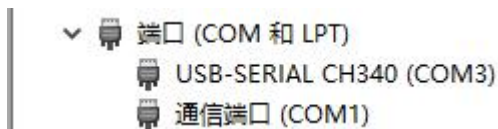


Double-click, according to your specific system to install the driver

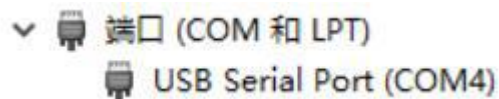
- driver for USB(232)CAN(FT232)
- driver for USBCAN(CHS40)

2.The USB - CAN insert computer

From the device manager see USB - CAN virtual COM port



From the device manager see USB(232) - CAN virtual COM port



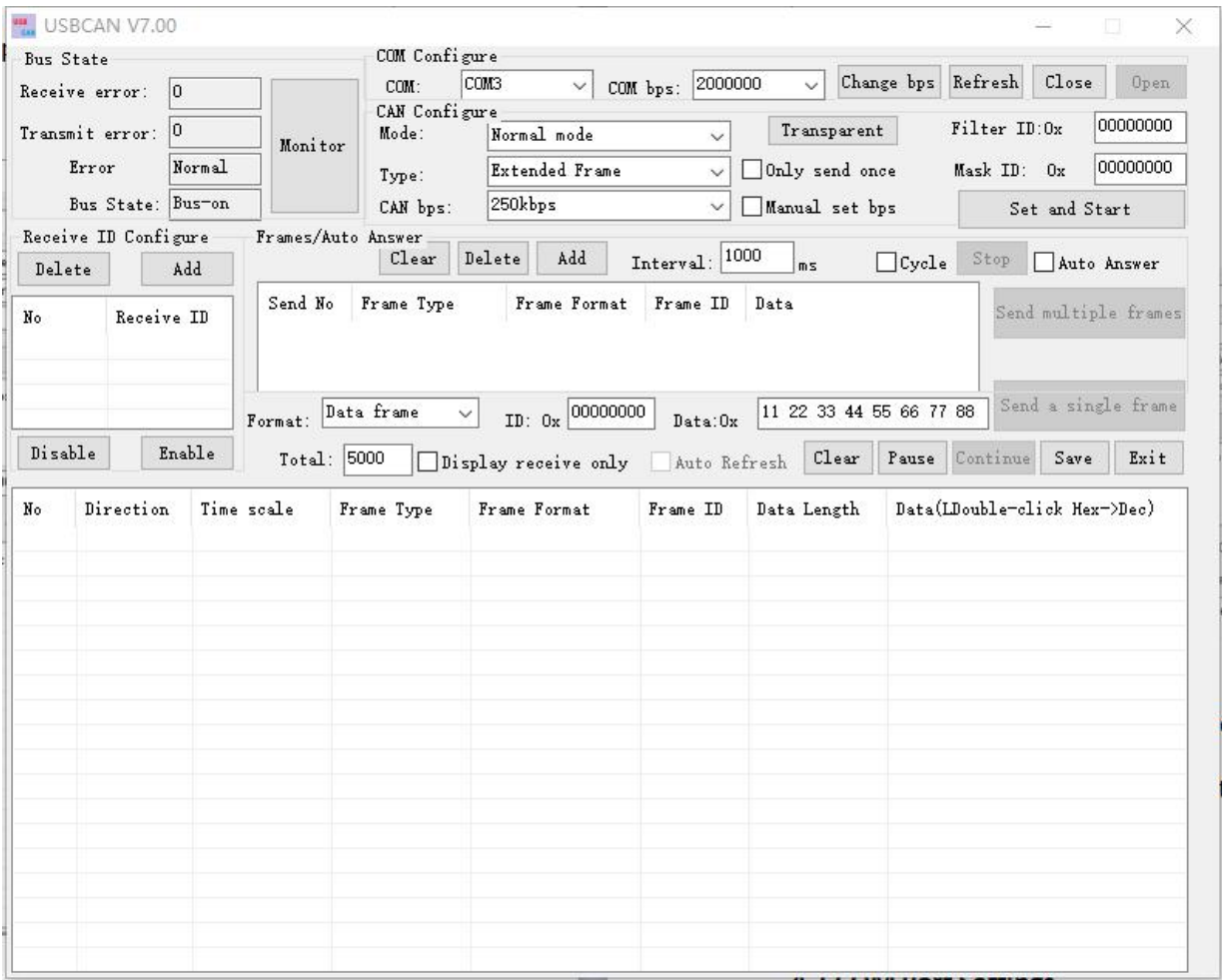
3. Open the USB - CAN software

[illegible]

Click the refresh button, from port right drop-down box choose port

[illegible]

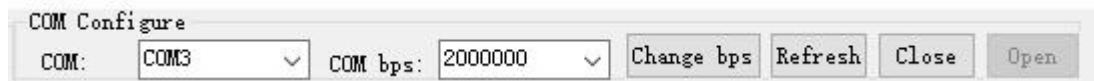
Click on the Open button



According to the CAN bus selecting frame type and set CAN baud rate, point solution set and start button, the CAN bus and the equipment the communication.

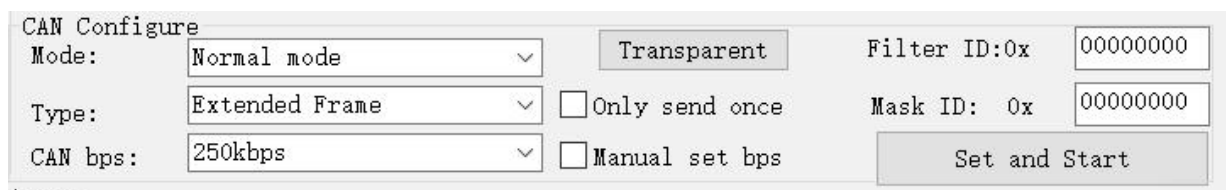
4. Software and introduces

4.1 COM Port Settings

A screenshot of a 'COM Configure' dialog box. It features a title bar with the text 'COM Configure'. Below the title bar, there are two dropdown menus: 'COM:' with 'COM3' selected, and 'COM bps:' with '2000000' selected. To the right of these dropdowns are four buttons: 'Change bps', 'Refresh', 'Close', and 'Open'.

Will the USB - CAN insert computer, CAN automatic find the computer COM port, choose good port CAN, CAN open or closed port, this with serial debugging assistant similar, communication baud rate is fixed 1228800 BSP.

4.2 CAN Settings

A screenshot of a 'CAN Configure' dialog box. It has a title bar 'CAN Configure'. The interface includes several settings: 'Mode:' with a dropdown set to 'Normal mode' and a 'Transparent' button; 'Type:' with a dropdown set to 'Extended Frame' and an unchecked checkbox 'Only send once'; 'CAN bps:' with a dropdown set to '250kbps' and an unchecked checkbox 'Manual set bps'. On the right side, there are two text input fields: 'Filter ID:0x' with '00000000' and 'Mask ID: 0x' with '00000000'. A 'Set and Start' button is located at the bottom right.

Work patterns include normal mode, Loop back mode, silent mode, Loop back + silent mode

Normal mode: is CAN normal communication model, CAN be normal to the bus to send and receive data

Loop back mode: send data CAN be sent to CAN bus, and at the same time, feedback internal region of acceptance, ignore accept pin of the actual state and CAN be used for self test

Silent mode: CAN normal accept data, but CAN only send recessive position, and CAN't really send message, often is applied to the analysis

of CAN bus activities

Loop back + silent mode: the model can be used for "hot self test", namely online self test. Like a ring back mode that self test, but does not affect the CAN bus system.

Frame type: standard frame (CAN2.0 A 11 ID) extended frame (CAN2.0 B 29 ID)

CAN baud rate: CAN the direct selection CAN communication commonly used baud rate:

1M,800K,500K,400K,250K,200K,125K,100K,50K,20K,10K,5K

f it CAN be directly set the baud rate and you CAN equipment baud rate does not agree, CAN choose

☐ Manual set bps

After the choice will jump out of a custom baud rate dialog box

The image shows two overlapping software windows. The background window is titled "CAN Configure" and contains the following elements:

- Mode:** A dropdown menu set to "Normal mode" and a "Transparent" button.
- Type:** A dropdown menu set to "Extended Frame" and an "Only send once" checkbox.
- CAN bps:** A dropdown menu set to "250kbps" and a checked "Manual set bps" checkbox.
- Filter ID:** A text box with "0x00000000".
- Mask ID:** A text box with "0x00000000".
- Buttons:** "Set and Start", "Clear", "Delete", "Add", "Interval: 1000 ms", "Cycle" checkbox, "Stop", and "Auto Answer" checkbox.
- Table:** A table with columns "Frame Type", "Frame Format", "Frame ID", and "Data".
- Buttons:** "Send multiple frames", "Chinese", "Send a single frame", "Pause", "Continue", "Save", and "Exit".

The foreground window is titled "CAN bps" and contains the following elements:

- Formula:**
$$\text{CAN bps} = 36000000 / (\text{SYNC_SEG} + \text{BP1} + \text{BP2}) / \text{Preassigned frequency}$$
- CAN bps:** A text box with "250000" and a "bsp" label.
- SYNC_SEG:** A dropdown menu set to "CAN_SJW_1tq".
- BP1:** A dropdown menu set to "CAN_BS1_8tq".
- BP2:** A dropdown menu set to "CAN_BS1_7tq".
- Preassigned frequency:** A text box with "9".
- Buttons:** "OK" and "Cancel".

The top position CAN baud rate calculation formula, and at the same time set phase buffer 1, phase buffer 2, and preassigned frequency is ok

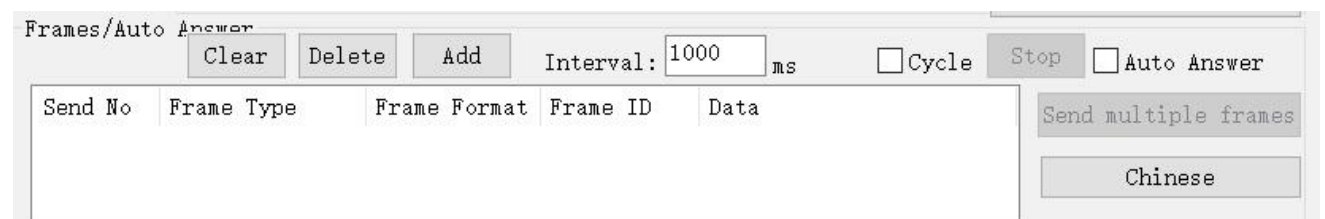
Filter ID and Mask ID: are hexadecimal data filtering the IDs and Mask ID standard frames low 11 (range: 0x00000000 to 0x000007ff) extended frame filter ID and Mask ID 29 (range 0x00000000 to 0x1fffffff)

Only send once: CAN communication is usually send unsuccessful automatic repeat, if have been circulating send data, CAN set banned message automatic repeat

Click  , CAN undertake the CAN communication

Frame format contains data frames and remote frame, frame ID is hexadecimal data, the standard frame ID the range of 0 x00000000 ~ 0 x000007fff, to expand frame ID the range of 0 x00000000 ~ 0 x1fffffff. To send data also for hexadecimal data, map the data in the db x00 0, 0 x01, 0 x02, 0 x03, 0 x04, 0 x05, 0 x06, 0 x07

4.3 Send multiple frames data



Send No	Frame Type	Frame Format	Frame ID	Data
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Add button: in sending multiple frames area will add a send frame data

Delete button: will delete the final article of sending multiple frames

area data

Clear button: will clear to send multiple frames area all the data

Interval : send multiple frames area connected two frame interval send time

Cycle: send cycle is repeated

Stop: cancel sending multiple frames command

Data editing in sending multiple frames area editor

Choose frame type

Send No	Frame Type	Frame Format	Frame ID	Data
0	Extended Fram	Data frame	00000000	00 01 02 03 04 05 06 07
1	Standard fram	Data frame	00000001	00 01 02 03 04 05 06 07
2	Extended Fram	Data frame	00000002	00 01 02 03 04 05 06 07

Choose the frame format

Send No	Frame Type	Frame Format	Frame ID	Data
0	Extended Frame	Data frame	00000000	00 01 02 03 04 05 06 07
1	Extended Frame	Data frame	00000001	00 01 02 03 04 05 06 07
2	Extended Frame	Remote frame	00000002	00 01 02 03 04 05 06 07

Edit frame ID

Send No	Frame Type	Frame Format	Frame ID	Data
0	Extended Frame	Data frame	00000000	00 01 02 03 04 05 06 07
1	Extended Frame	Data frame	00000001	00 01 02 03 04 05 06 07
2	Extended Frame	Data frame	00000002	00 01 02 03 04 05 06 07

Modification to send data

Send No	Frame Type	Frame Format	Frame ID	Data
0	Extended Frame	Data frame	00000000	00 01 02 03 04 05 06 07
1	Extended Frame	Data frame	00000001	00 01 02 03 04 05 06 07
2	Extended Frame	Data frame	00000002	00 01 02 03 04 05 06 07

4.4 CAN Bus State

Bus State

Receive error:

Transmit error:

Error:

Bus State:

Monitor

Mainly used in turn CAN see USB device CAN state

4.5 ending and receiving data display area

Disable Enable Total: 5000 ☐ Display receive only ☐ Auto Refresh Clear Pause Continue Save Exit

No	Direction	Time scale	Frame Type	Frame Format	Frame ID	Data Length	Data(LDouble-click Hex->Dec)
0	Receive	11:25:01:591	Data frame	Extended frame	00000001	8	11 22 33 44 55 66 77 88
1	Send	11:25:06:208	Data frame	Extended Frame	00000002	8	11 22 33 44 55 66 77 88
2	Receive	11:25:13:621	Data frame	Extended frame	00000003	8	11 22 33 44 55 66 77 44
3	Send	11:25:16:568	Data frame	Extended Frame	00000004	8	11 22 33 44 55 66 77 88
4	Receive	11:25:21:069	Data frame	Extended frame	00000005	8	11 22 33 44 55 66 77 44
5	Send	11:25:24:176	Data frame	Extended Frame	00000006	8	11 22 33 44 55 66 77 88
6	Receive	11:25:28:701	Data frame	Extended frame	00000007	8	11 22 33 44 55 66 77 44
7	Send	11:25:33:048	Data frame	Extended Frame	00000008	8	11 22 33 44 55 66 77 88
8	Receive	11:25:41:420	Data frame	Extended frame	00000009	8	11 22 33 44 55 66 77 44
9	Send	11:25:49:583	Data frame	Extended Frame	0000000a	8	11 22 33 44 55 66 77 88
10	Receive	11:25:56:997	Data frame	Extended frame	0000000b	8	11 22 33 44 55 66 77 44
11	Send	11:26:00:712	Data frame	Extended Frame	0000000c	8	11 22 33 44 55 66 77 88
12	Receive	11:26:04:597	Data frame	Extended frame	0000000d	8	11 22 33 44 55 66 77 44
13	Send	11:26:07:751	Data frame	Extended Frame	0000000e	8	11 22 33 44 55 66 77 88
14	Receive	11:26:11:261	Data frame	Extended frame	0000000f	8	11 22 33 44 55 66 77 44
15	Send	11:26:18:272	Data frame	Extended Frame	00000010	8	11 22 33 44 55 66 77 88
16	Receive	11:26:24:621	Data frame	Extended frame	00000011	8	11 22 33 44 55 66 77 44

Clear: empty to send and receive data display so data

Pause: pause in the sending and receiving display area shows that other data

Continue to: continue to show to send and receive data

Save: can send and receive data buffer data storage that can hold two format, excel or TXT text

Display receive only: can send and receive data area show only accept

data

Auto refresh: when display only accept data, CAN choose to be automatic refresh, this time data are real-time refresh, rather than increasing column display, this function CAN be concluded CAN summarize ID data

Select any line

Disable

Enable

Total: 5000

☐ Display receive only

☐ Auto Refresh

Clear

Pause

Continue

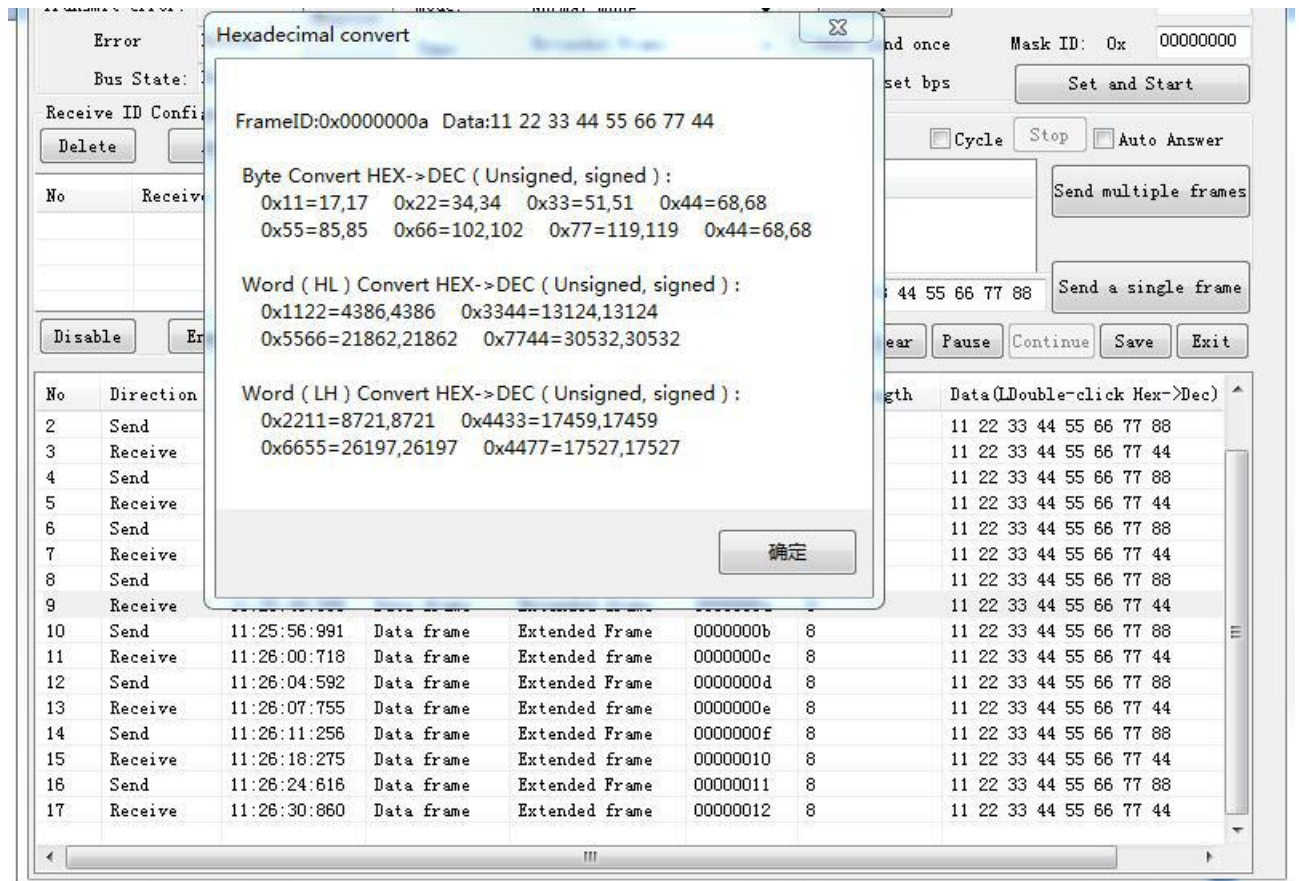
Save

Exit

No	Direction	Time scale	Frame Type	Frame Format	Frame ID	Data Length	Data(LDouble-click Hex->Dec)
2	Send	11:25:13:616	Data frame	Extended Frame	00000003	8	11 22 33 44 55 66 77 88
3	Receive	11:25:16:572	Data frame	Extended frame	00000004	8	11 22 33 44 55 66 77 44
4	Send	11:25:21:064	Data frame	Extended Frame	00000005	8	11 22 33 44 55 66 77 88
5	Receive	11:25:24:180	Data frame	Extended frame	00000006	8	11 22 33 44 55 66 77 44
6	Send	11:25:28:696	Data frame	Extended Frame	00000007	8	11 22 33 44 55 66 77 88
7	Receive	11:25:33:051	Data frame	Extended frame	00000008	8	11 22 33 44 55 66 77 44
8	Send	11:25:41:416	Data frame	Extended Frame	00000009	8	11 22 33 44 55 66 77 88
9	Receive	11:25:49:588	Data frame	Extended frame	0000000a	8	11 22 33 44 55 66 77 44
10	Send	11:25:56:991	Data frame	Extended Frame	0000000b	8	11 22 33 44 55 66 77 88
11	Receive	11:26:00:718	Data frame	Extended frame	0000000c	8	11 22 33 44 55 66 77 44
12	Send	11:26:04:592	Data frame	Extended Frame	0000000d	8	11 22 33 44 55 66 77 88
13	Receive	11:26:07:755	Data frame	Extended frame	0000000e	8	11 22 33 44 55 66 77 44
14	Send	11:26:11:256	Data frame	Extended Frame	0000000f	8	11 22 33 44 55 66 77 88
15	Receive	11:26:18:275	Data frame	Extended frame	00000010	8	11 22 33 44 55 66 77 44
16	Send	11:26:24:616	Data frame	Extended Frame	00000011	8	11 22 33 44 55 66 77 88
17	Receive	11:26:30:860	Data frame	Extended frame	00000012	8	11 22 33 44 55 66 77 44

III

The left mouse button double click it



5.COM bps select

USB - CAN power on when to send and receive light flash one at the same time, the COM baud rate to 2000000 BPS, flash two at the same time, the COM baud rate to 1228800 BPS, flash three times at the same time, the COM baud rate to 115200 BPS, flash four at the same time, the corresponding COM baud rate to 38400 BPS, flash five times at the same time, the corresponding COM baud rate to 19200 BPS, flash six at the same time, the corresponding COM baud rate to 9600 BPS