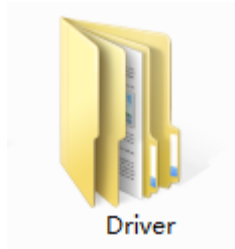




USB-CAN User Manual

1.Install the driver

In the data to see the following folder

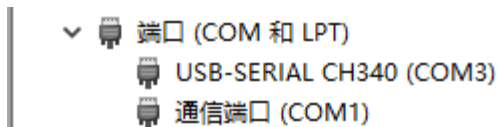


Double-click, according to your specific system to install the driver

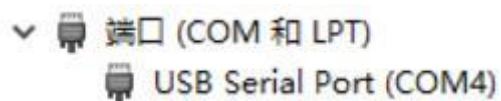
-  driver for USB(232)CAN(FT232)
-  driver for USBCAN(CHS40)

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



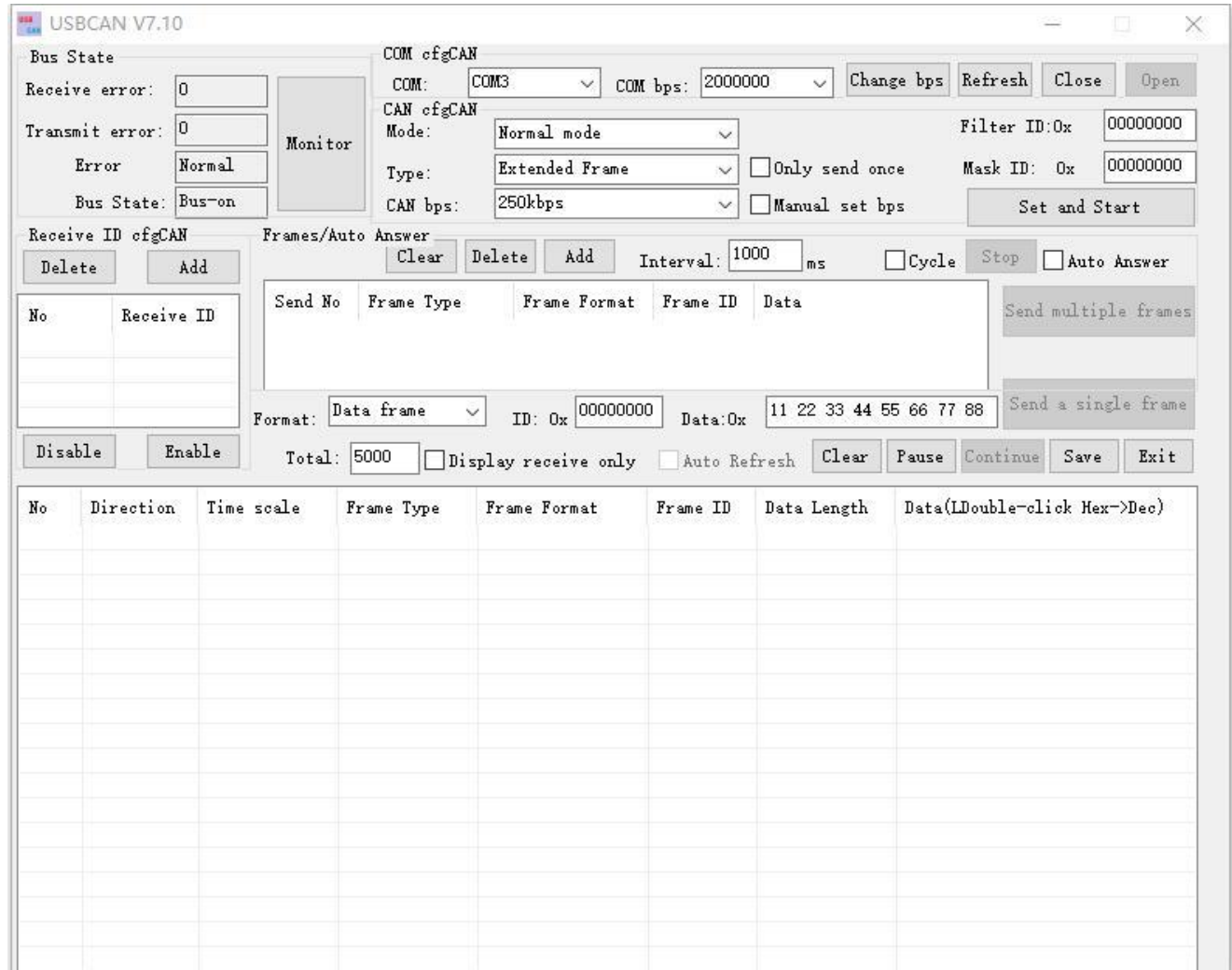
3. Open the USB - CAN software

[illegible]

port

[illegible]

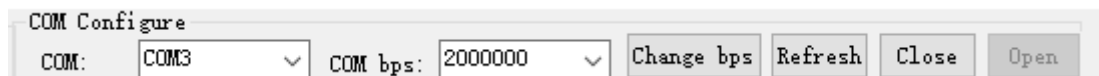
Click on the Open button



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

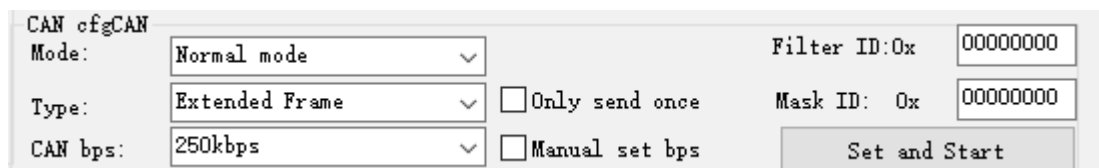
4.1 COM Port Settings



The screenshot shows a 'COM Configure' dialog box. It has a title bar 'COM Configure'. Inside, there are two dropdown menus: 'COM:' set to 'COM3' and 'COM bps:' set to '2000000'. To the right of these 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



The screenshot shows a 'CAN cfgCAN' dialog box. It has a title bar 'CAN cfgCAN'. Inside, there are three rows of settings: 'Mode:' with a dropdown set to 'Normal mode', 'Type:' with a dropdown set to 'Extended Frame', and 'CAN bps:' with a dropdown set to '250kbps'. To the right of these are two checkboxes: 'Only send once' and 'Manual set bps', both of which are unchecked. Further right are two text boxes: 'Filter ID:0x' and 'Mask ID: 0x', both containing '00000000'. At the bottom right is a button labeled 'Set and Start'.

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)

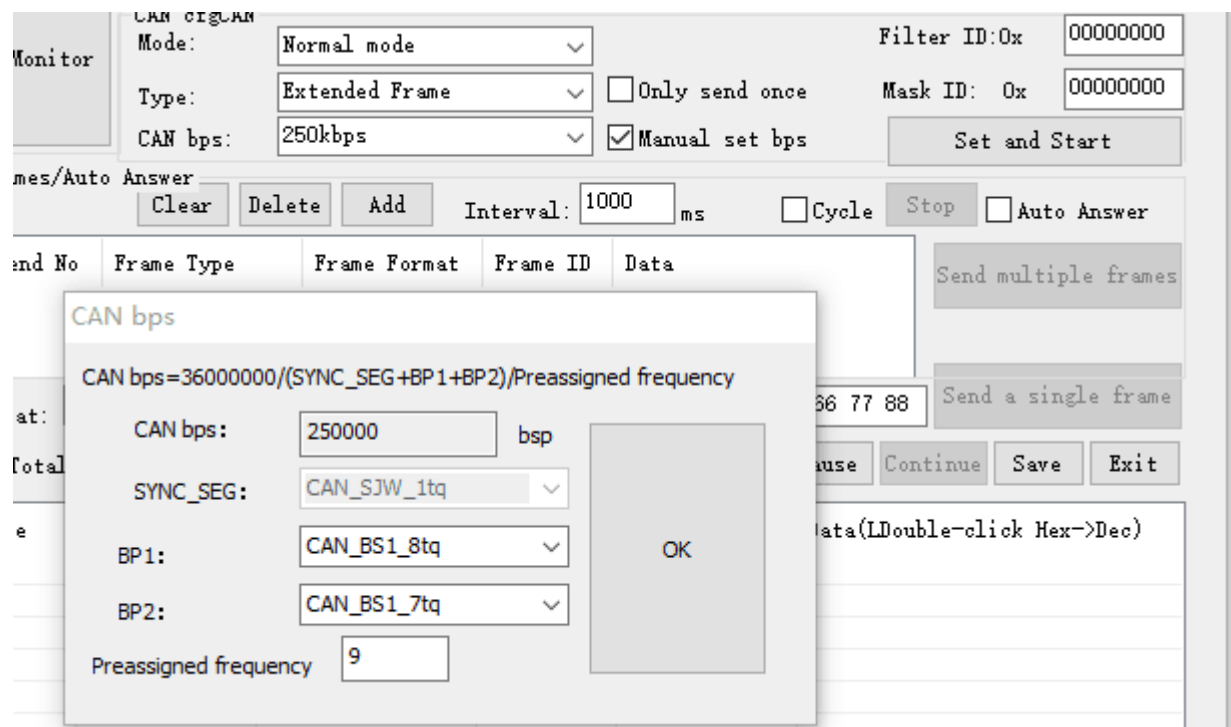
CAN baud rate: CAN the direct selection CAN communication commonly used baud rate:

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

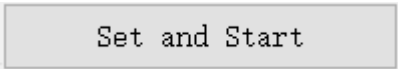
After the choice will jump out of a custom baud rate dialog box



The 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

The screenshot shows a software interface titled 'Frames/Auto Answer'. It includes several buttons: 'Clear', 'Delete', 'Add', 'Interval: 1000 ms', 'Cycle' (checkbox), 'Stop', and 'Auto Answer' (checkbox). Below these is a table with columns: 'Send No', 'Frame Type', 'Frame Format', 'Frame ID', and 'Data'. To the right of the table are two buttons: 'Send multiple frames' and 'Chinese'.

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: 0

Transmit error: 0

Error Normal

Bus State: Bus-on

Monitor

Mainly used in turn CAN see USB device CAN state

4.5 ending and receiving data display area

| <div>Disable</div> | | <div>Enable</div> | | Total: 5000 | | <div><input type="checkbox"/> Display receive only</div> | | <div><input type="checkbox"/> Auto Refresh</div> | | <div>Clear</div> | | <div>Pause</div> | | <div>Continue</div> | | <div>Save</div> | | <div>Exit</div> | | |
|--------------------|-----------|-------------------|------------|----------------|----------|--|------------------------------|--|----|------------------|----|------------------|----|---------------------|--|-----------------|--|-----------------|--|--|
| 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

| <input type="button" value="Disable"/> | | <input type="button" value="Enable"/> | Total: 5000 | <input type="checkbox"/> Display receive only | <input type="checkbox"/> Auto Refresh | <input type="button" value="Clear"/> | <input type="button" value="Pause"/> | <input type="button" value="Continue"/> | <input type="button" value="Save"/> | <input type="button" value="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 |

The left mouse button double click it

Error

Bus State:

Receive ID Conf

Delete

No

Receive

Disable

En

Hexadecimal convert

FrameID:0x0000000a Data:11 22 33 44 55 66 77 44

Byte Convert HEX->DEC (Unsigned, signed) :

0x11=17,17 0x22=34,34 0x33=51,51 0x44=68,68

0x55=85,85 0x66=102,102 0x77=119,119 0x44=68,68

Word (HL) Convert HEX->DEC (Unsigned, signed) :

0x1122=4386,4386 0x3344=13124,13124

0x5566=21862,21862 0x7744=30532,30532

Word (LH) Convert HEX->DEC (Unsigned, signed) :

0x2211=8721,8721 0x4433=17459,17459

0x6655=26197,26197 0x4477=17527,17527

确定

Mask ID: 0x 00000000

Set and Start

Cycle Stop Auto Answer

Send multiple frames

Send a single frame

ear Pause Continue Save Exit

| No | Direction | Time scale | Frame Type | Frame Format | Frame ID | Data Length | Data(LDouble-click Hex->Dec) | | | |
|----|-----------|--------------|------------|----------------|----------|-------------|------------------------------|----|----|----------------|
| 2 | Send | | | | | | 11 | 22 | 33 | 44 55 66 77 88 |
| 3 | Receive | | | | | | 11 | 22 | 33 | 44 55 66 77 44 |
| 4 | Send | | | | | | 11 | 22 | 33 | 44 55 66 77 88 |
| 5 | Receive | | | | | | 11 | 22 | 33 | 44 55 66 77 44 |
| 6 | Send | | | | | | 11 | 22 | 33 | 44 55 66 77 88 |
| 7 | Receive | | | | | | 11 | 22 | 33 | 44 55 66 77 44 |
| 8 | Send | | | | | | 11 | 22 | 33 | 44 55 66 77 88 |
| 9 | Receive | | | | | | 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 |

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