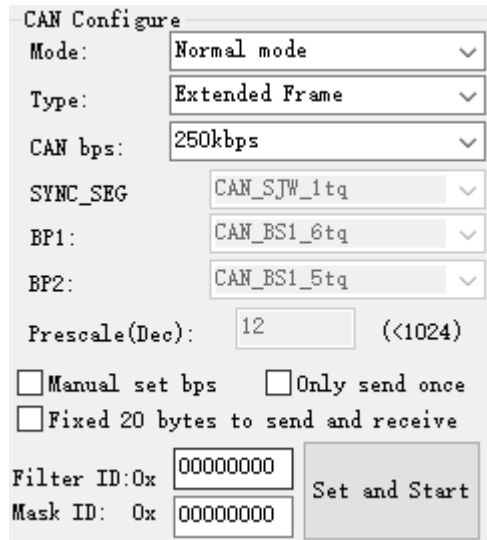


# Instructions for using USB to CAN

## CAN Settings



The image shows a 'CAN Configure' dialog box with the following settings:

- Mode: Normal mode (dropdown)
- Type: Extended Frame (dropdown)
- CAN bps: 250kbps (dropdown)
- SYNC\_SEG: CAN\_SJW\_1tq (dropdown)
- BP1: CAN\_BS1\_6tq (dropdown)
- BP2: CAN\_BS1\_5tq (dropdown)
- Prescale(Dec): 12 (text input, with a note '<1024')
- ☐ Manual set bps
- ☐ Only send once
- ☐ Fixed 20 bytes to send and receive
- Filter ID: 0x 00000000 (text input)
- Mask ID: 0x 00000000 (text input)
- Set and Start (button)

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

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

**Fixed 20 bytes to send and receive:** CAN converter internal there are two agreements, one CAN be the length of the communication protocol, is a kind of fixed 20 bytes of communication protocol, communication protocol will be fixed after selected 20, variable protocol communication is not selected

**Manual set bps:** After the choice will jump out of a custom baud rate dialog box

USBCAN V8.00 CAN BPS=36000000/(SYNC\_SEG+BP1+BP2)/Prescale (bps)

COM Configure		Reply to reply	
COM:	COM3	Refresh	Use Offline: (<=50)
COM bps:	2000000	Change bps	No Receive ID Reply
Normal	Close	Open	Download
			Enable
			Disable
CAN Configure		More frames to send	
Mode:	Normal mode	Use Offline: (<=330)	Send No Frame Type
Type:	Extended Frame	Download	
CAN bps:	250kbps	Enable	
SYNC_SEG	CAN_SJW_1tq	Disable	
BP1:	CAN_BS1_6tq		
BP2:	CAN_BS1_5tq		
Prescale(Dec):	12 (<1024)		
<input checked="" type="checkbox"/> Manual set bps	<input type="checkbox"/> Only send once	Transparent Format:	
<input type="checkbox"/> Fixed 20 bytes to send and receive		Total: 5000	<input type="checkbox"/> Di:
Filter ID: 0x	00000000	No	Direction
Mask ID: 0x	00000000	Time scale	Fr
Set and Start			

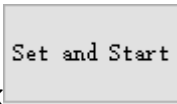
The title will show the formula for the calculation of the CAN baud rate

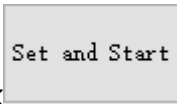
USBCAN V8.00 CAN BPS=36000000/(SYNC\_SEG+BP1+BP2)/Prescale (bps)

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