

FINTEK

CANBus Series

Windows Tools Guide

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Fintek

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1. Introduction

1.1 Overview

Currently the tools package contains CAN bus GUI tool (FCANBUS.exe) and command line burnin tool (FitCANBusBurnIn.exe).

1.2 FitCANBusBurnIn.exe Command Syntax

FitCANBusBurnIn offers a set of command-line tools for Windows. Open windows command prompt and type the FitCANBusBurnIn to run and type any key then press ENTER to exit. This tool provides some parameters, command syntax is as below:

```
FitCANBusBurnIn.exe <ComPortNumber> <CAN_baudRate> <CANID> <CANID_Bits> <TxDelay>
<TxDiffIdNums> <TxWaitTime> <TxRxMode> <FilterPatten0> <FilterMask0> ... <FilterPatten15> <FilterMask15>
```

Parameters:

- | | |
|------------------|---|
| <ComPortNumber > | Indicate the CAN controller, depends on com port occupied from Fintek driver.
e.g., in device manager CANBus Port (COM24) represent CAN1, the <ComPortNumber > is 'COM24' shown in Figure 1. |
| <CAN_baudRate> | Unit is k, 250 means 250k bps.
Support baudrate: [10 20 50 100 125 250 500 800 1000] |
| <CANID> | CANID with hex format. |
| <CANID_Bits> | 11 or 29 to indicate 11bit or 29bit |
| <TxDelay> | Indicate the interval after write messages.
Minimum: 1M: 140us / 800K: 165us / 500K: 265us / 250K: 530us
/ 125K: 1100us / 100K: 1350us / 50K: 2650us / 20K: 6550us / 10K: 13100us |
| <TxDiffIdNums> | Indicate the message numbers to send out. Maximum: 65536 |
| <TxWaitTime> | WaitingTime, useless parameter, only for SDK debug use.
If give '-1', mean to do Initial/Uninitial test |
| <TxRxMode> | 1: RX mode, 2: TX mode, others: not support |

<FilterPatten> Filter CANID pattern with hex format.
 <FilterMask> Filter mask with hex format

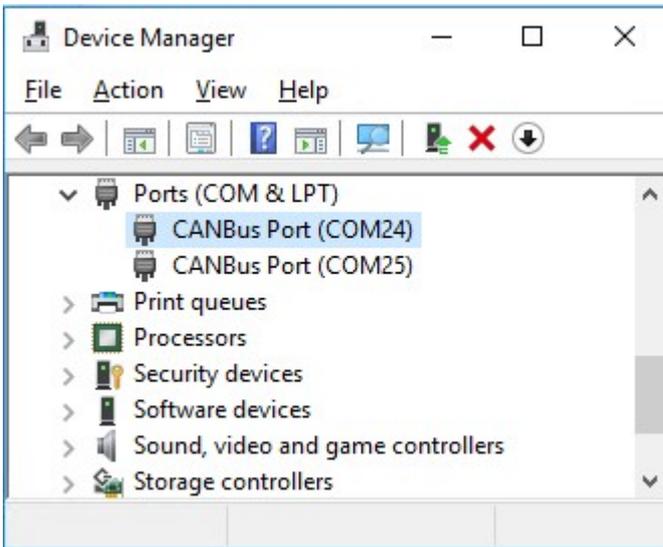


Figure 1. CANBus Port show in Device Manager

EX1: `FitCANBusBurnIn.exe COM24 250 18EA5678 29 530 10 1200 2 0 0`

Means CAN bus baud rate 250kbps, start CANID 18EA5678, 29bit protocol, wait 530us after write one messages, one cycle write 10 messages, 1200 is dummy parameter.

EX2: `FitCANBusBurnIn.exe COM24 1000 18EA5678 11 140 10 -1 2 0 0`

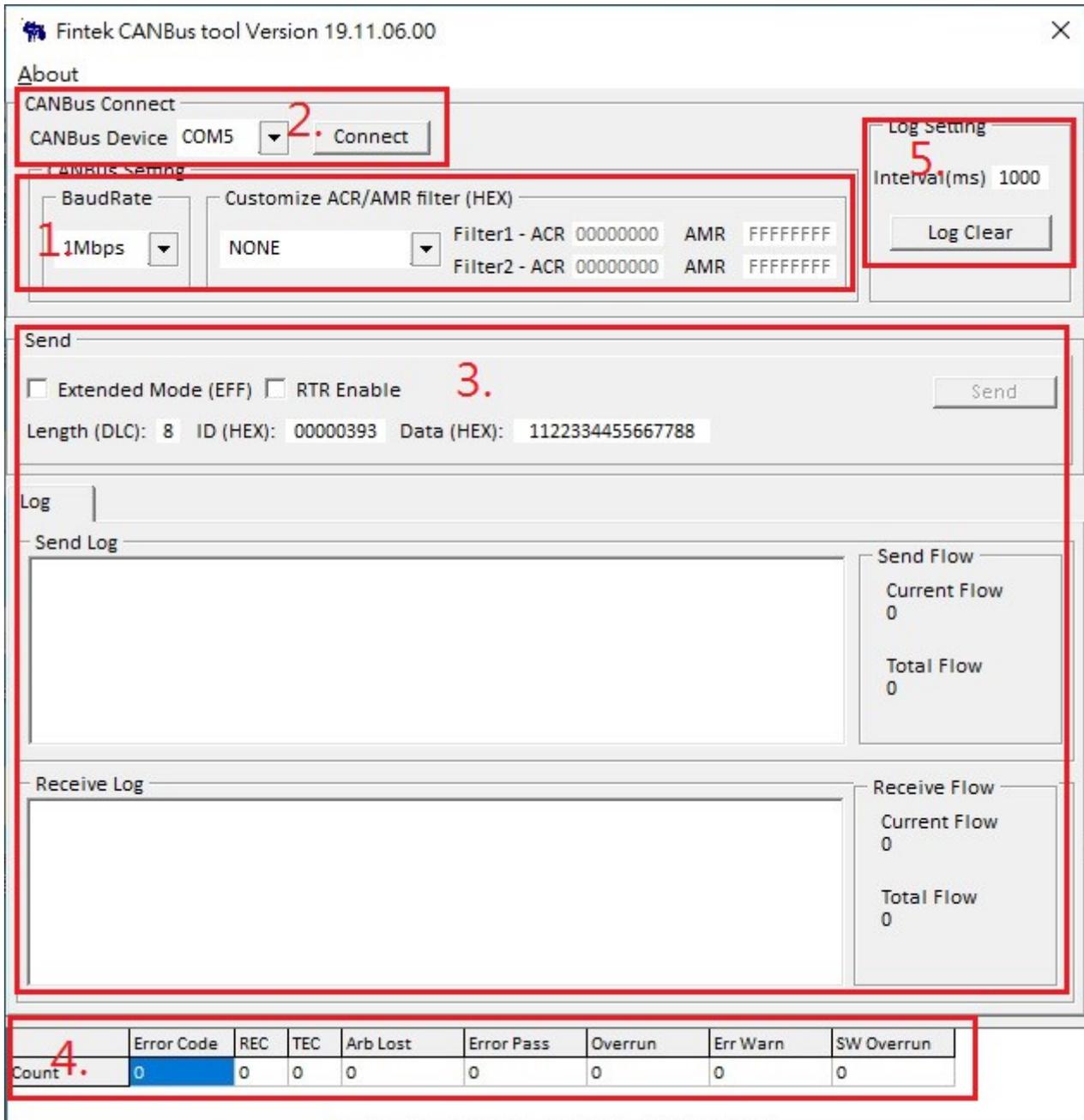
Means CAN bus baud rate 1Mbps, start CANID 18EA5678, 11bit protocol, wait 140us after write one messages, one cycle write 10 messages, TxWaitTime gives -1, means to do Initialize/Write/Unitalize cycle test.

EX3: `FitCANBusBurnIn.exe COM24 250 18EA0000 29 530 10 -1 2 18EA00F1 FFFFFFFF`

Means CANID pattern is 0x18EA00F1, mask is 0xfffffff, that means to get the result of (pattern & mask) as the CANID to receive, it will be 0x18EA00F1, if you set mask to 0xffffffe, that means 0x18EA00F0 and 0x18EA00F1 messages will be received.

Notice: If Filter Patter and Mask set to 0 0, that means no filter, if you want to set specified CANID, you can give the CANID as FilterPattern, Mask set to ffffffff for 29bit, set to fff fort 11bit, up to 15 filters.

1.3 FCANBUS.exe GUI



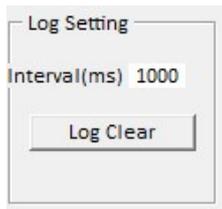
The screenshot shows the Fintek CANBus tool interface with the following components and annotations:

- 1:** BaudRate dropdown menu set to 1Mbps.
- 2:** CANBus Device dropdown menu set to COM5 and the Connect button.
- 3:** Send section containing checkboxes for Extended Mode (EFF) and RTR Enable, and a Send button.
- 4:** Error Code table with columns: Error Code, REC, TEC, Arb Lost, Error Pass, Overrun, Err Warn, SW Overrun, and Count.
- 5:** Log Setting section with Interval(ms) set to 1000 and a Log Clear button.

Send Log and Receive Log sections are also visible but empty.

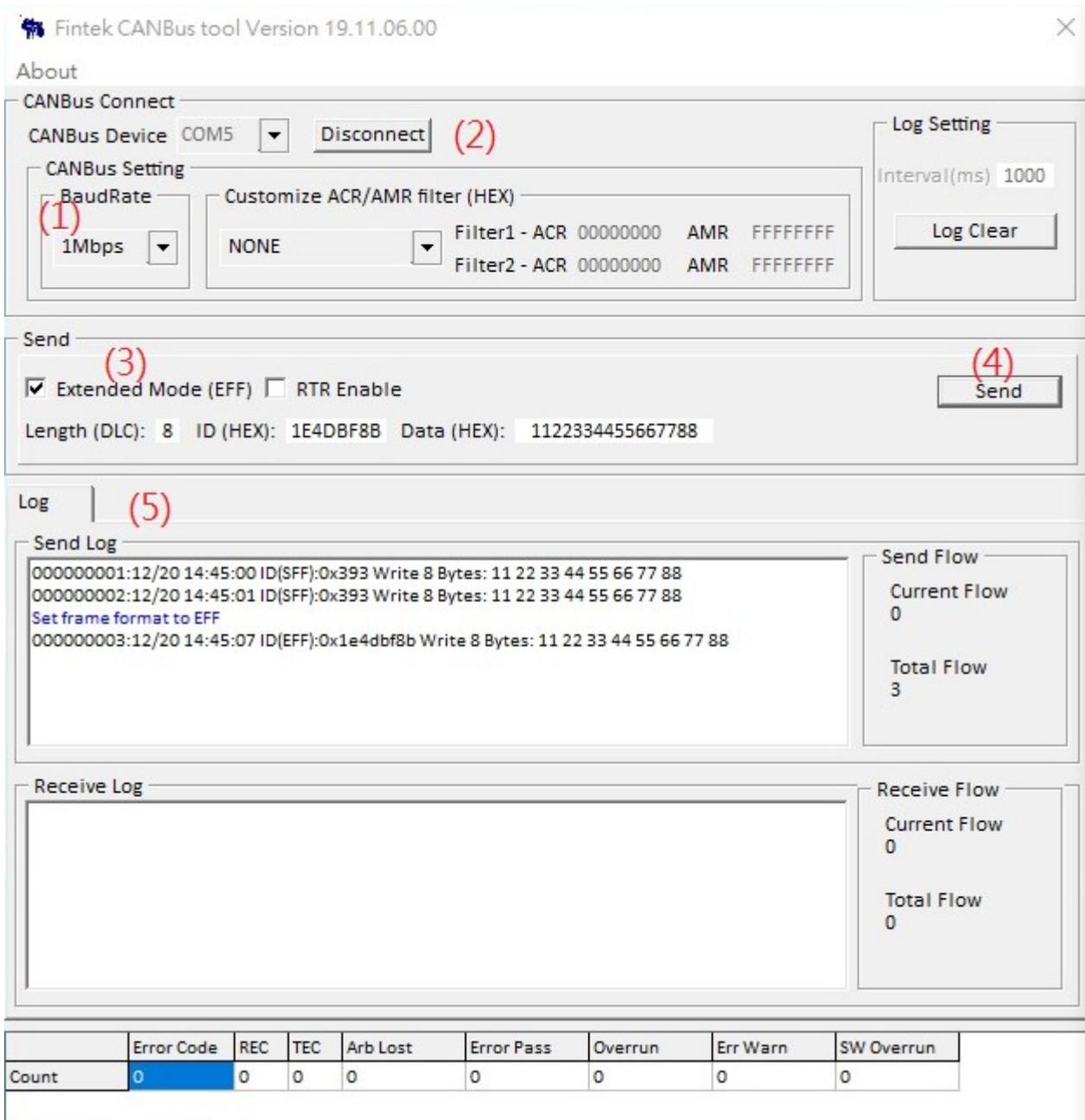
Error Code	REC	TEC	Arb Lost	Error Pass	Overrun	Err Warn	SW Overrun
Count	0	0	0	0	0	0	0

V. Log setting : when click 「Log Clear」 button will clear send log, receiver log and count.



* NOTICE : FCANBUS.EXE can open two CANBus tool and setup CAN device individually

- 2. Step of connection :
 - I. Send example :



- (1) Setting baudrate and ACR/AMR filter
- (2) Select canbus port and connect devcie
- (3) Setting data length, ID, and data;
- (4) Click send botton
- (5) Display transmission or receive data