

InnoEx

Ethernet-CANbus

Windows

Sample User Guide



About this document

This document describes sample application developed with CAN Bus IO Control Software Development Kit (SDK). The sample application contains executable file and Visual C++ 2015 project source codes.

System requirements

OS: Windows 10

Platform: x86, x64

Developer environment: Visual Studio 2015 professional

Programing language: C++

Samples package components

The samples package contains following components. SDK_SampleBins folder contains 64bits executable files of each sample application and demo program.

SDK_SampleSources folder contains source code of each sample application and demo program.

The package contains 32/64 bits executable files, Developers can build 32 bits samples manually.

Building applications

CAN Bus IO Control SDK provides libraries for both 32 bits and 64 bits applications. Libraries are built with Multi-threaded (/MT) to leave Visual C++ runtime library dependencies, and support Unicode Character Set only.

FitCANBus Sample

This sample demonstrates how to use CAN Bus IO Control APIs to develop your applications

Executable file: SDK_SampleBins\FitCANBus.exe in x86 and x64 folder.

Source codes: SDK_SampleSources\FitCANBusSample

SDK header: CANIOControl.h

SDK library: Fintek_x86.lib in x86 and Fintek_x64.lib in x64 folder.

SDK DLL: FitCanBusSdk.dll

FitCANBus Command Syntax

This sample program provides some parameters, command syntax is as below:

FitCANBus.exe <ComPortNumber> <CAN_baudRate> <CANID> <CANID_Bits> <CANRTR>
<FilterPatten0> <FilterMask0> ... <FilterPatten15> <FilterMask15>

Parameters:

<ComPortNumber>	Indicate the CAN controller, depends on com port occupied from CANBus 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.
<CANID>	CANID with hex format.
<CANID_Bits>	11 or 29 to indicate 11bit or 29bit
<CANRTR>	dominant (0) for data frames and recessive (1) for remote request frames
<FilterPatten>	Filter CANID pattern.
<FilterMask>	Filter mask

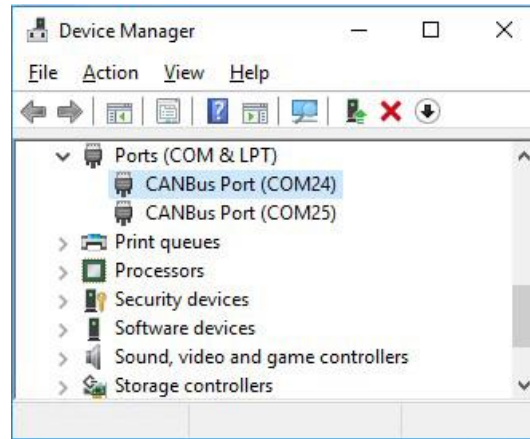


Figure 1. CANBus Port show in Device Manager

EX1: FitCANBus.exe COM24 250 18EA5678 29 0 0 0

Means CAN bus baud rate 250kbps, start CANID 18EA5678, 29bit protocol, write one messages.

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.