USB2CAN-C++-API

Introduce

This is InnoMaker Usb2Can C++ API Document,You can download our demo to see how to use api

Structure

UsbCanMode

```
public enum UsbCanMode
        {
            UsbCanModeNormal,
            UsbCanModeLoopback,
            UsbCanModeListenOnly,
        }
```

-Summary: UsbCanMode Enum

innomaker_device_bittming

```
  struct innomaker_device_bittming
        {
            UInt32 prop_seg;
            UInt32 phase_seg1;
            UInt32 phase_seg2;
            UInt32 sjw;
            UInt32 brp;
        }
```

-Summary: Device Bittming Structure

Functions

setup

setup USBCAN,This must be called first when use lib

setupdown

setdown USBCAN, This must be called after when not use lib

scanInnoMakerDevice

public bool scanInnoMakerDevices()
-Summary: Scann Inno Maker Devices
-Return: Scan success return true , else return false

getInnoMakerDeviceCount

public int getInnoMakerDeviceCount()
-Summary: Get Device Count
-Return: Device count

getInnoMakerDevice

public InnoMakerDevice* getInnoMakerDevice(int devIndex)
-Summary: Get Inno Maker device by device index
-devIndex: Device index
-return: Inno Maker Device Instance

openInnoMakerDevice

public bool openInnoMakerDevice(InnoMakerDevice *device)
-Summary: Open Device
-param: device
-return: if open success return true,else return false

closeInnoMakerDevice

public bool closeInnoMakerDevice(InnoMakerDevice *device)
-Summary: Close Device
-param: device
-return: if Close success return true, else return false

recvInnoMakerDeviceBuf

public bool recvInnoMakerDeviceBuf(InnoMakerDevice *device, Byte*
buf, int size, int timeout)
-Summary: Read buffer from device sync
-param: device
-param: buf, buffer reads in
-param: size, buffer size
-param: timeout, read buffer timeout
-return: if read device success,return true,else return false

sendInnoMakerDeviceBuf

public bool sendInnoMakerDeviceBuf(InnoMakerDevice *device, Byte*
buf, int size, int timeout)
-Summary: write buffer to device sync
-param: device
-param: buf, buffer writes out
-param: size, buffer size
-param: timeout, write buffer timeout
-return: if write device success,return true,else return false

urbResetDevice
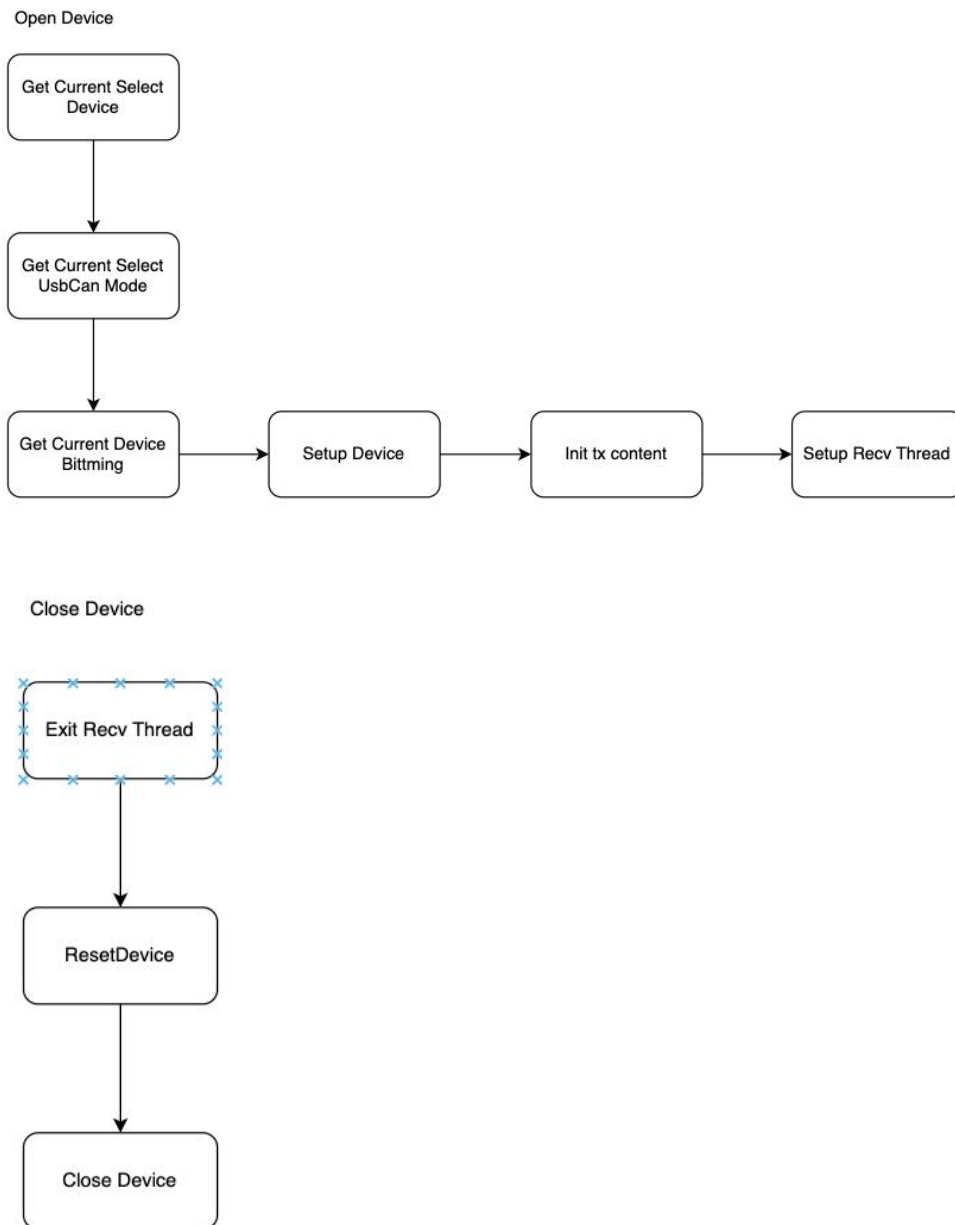
public bool UrbResetDevice(InnoMakerDevice *device)
-Summary: Reset Device
-param: Device Instance
-return: If reset device success return true,else return false

urbSetupDevice

public bool UrbSetupDevice(InnoMakerDevice *device, UsbCanMode
canMode, innomaker_device_bittming bittming)
-Summary: Setup device
-param: Device Instance
-param: canMode, usbCanMode

```
-param: bittming, usb bittming params
-return: if setup device success return true,else return false
```

Diagram

Doc Version:

Date	Version	Desc

2023.10.29	v1.0.0	C++ API Introduce