

# 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

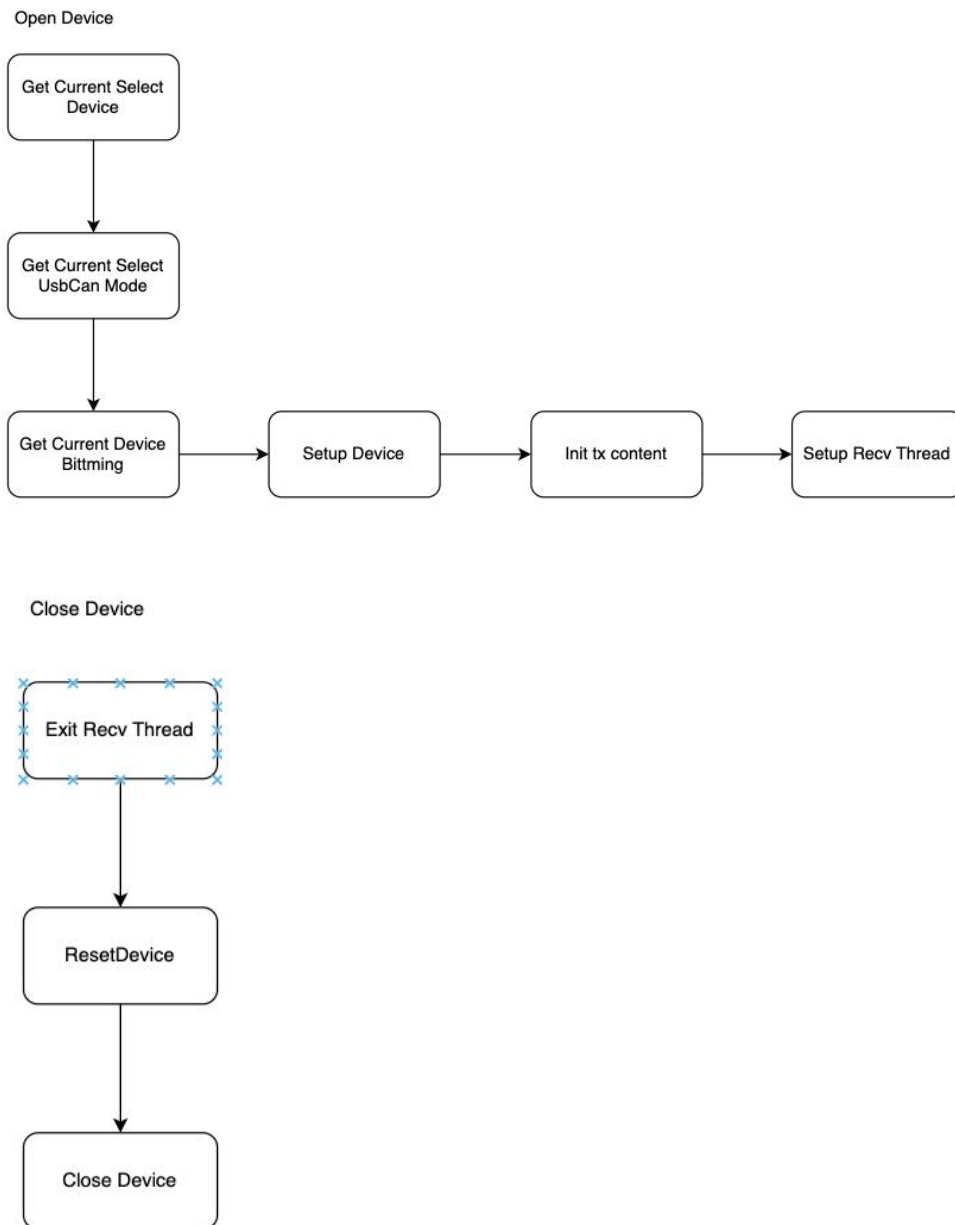
```
public bool UrbResetDevice(InnoMakerDevice *device)
-Summary: Reset Device
-param: Device Instance
-return: If reset device success return true,else return false
```

## 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
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