

faro_can_sdk_demo3.c

This document build base on faro_can_sdk_demo3.c function:

-h --help description

| command | Value(First) | Value(Second) |
|---|--------------|---------------|
| -h | N/A | N/A |
| Description: Showing functions list description | | |
| Syntax: sudo ./bin/faro_can_sdk_demo3 -p <UART Device> -h | | |
| Example : sudo ./bin/faro_can_sdk_demo3 -p /dev/ttyUSB0 -h | | |
| Receive: functions list description | | |

-s--scan port

| Command | Value(First) | Value(Second) |
|---|--------------|---------------|
| -s | N/A | N/A |
| Description : Scan available Com Port in computer. | | |
| Example : sudo ./bin/faro_can_sdk_demo3 -p /dev/ttyUSB0 -s | | |
| Receive: /dev/ttyUSB1 /dev/ttyUSB0 | | |

-p – open port

| Command | Value(First) | Value(Second) |
|--|--------------|---------------|
| -p | Port name | N/A |
| Description: Set comport. Using Seliconlab comport, port name will be “ttyUSBx” Syntax: sudo ./bin/faro_can_sdk_demo3 -p <UART Device> <UART Device> Seliconlab comport, port name will be “ttyUSBx” | | |
| Example sudo ./bin/faro_can_sdk_demo3 -p /dev/ttyUSB0 | | |

-d-- deinit time

| Command | Value(First) | Value(Second) |
|--|---------------------------|---------------|
| -d | Program run time(seconds) | N/A |
| Description: Set Demo program running time. If not set this command, Demo program will be set default time in 30 seconds, when running time out, demo program will stop and exit automatically. If set value is -1, then demo program will not stop, until user using “ctrl-c”to manure stop demo program. Syntax: sudo ./bin/faro_can_sdk_demo3 -p <UART Device> <DemoAP command> <deinit time> <DemoAP command> <deinit time> Set value for close demo function, unit second. Default value is 30 second. If set value -1, then demo program will not stop, until user using “ctrl-c”to manure stop demo Value : -1 ~ 65535 | | |
| Example : sudo ./bin/ faro_can_sdk_demo3 -p /dev/ttyUSB0 -g -d 40 | | |

Receive:

Firmware version and thread will stop in 40 second.

-g – get firmware version

| Command | Value(First) | Value(Second) |
|---|--------------|---------------|
| -g | N/A | N/A |
| Description : Get module firmware version. Syntax: sudo ./bin/faro_can_sdk_demo3 -p <UART Device> -g | | |
| Example : sudo ./bin/faro_can_sdk_demo3 -p /dev/ttyUSB0 -g Receive: fw_ver: 04.01.10.20.14 | | |

-c – can config

| Command | Value(First) | Value(Second) |
|---|----------------|---------------|
| -c | Can Port value | Can speed |
| Description : Set module can speed value. Syntax: sudo ./bin/faro_can_sdk_demo3 -p <UART Device> -c <port> <can speed> <port> Set can port 0 : port 0 1 : port 1 <can speed> Set can speed 0 : 1M 1 : 800K 2 : 500K 3 : 250K | | |

| |
|--|
| 4 : 200K |
| 5 : 125K |
| <p>Example :</p> <pre>sudo ./bin/faro_can_sdk_deno3 -p /dev/ttyUSB0 -c 0 2</pre> <p>Receive :</p> <p>port = 0, speed = 2</p> |

-r – Receive CAN Data

| Command | Value(First) | Value(second) |
|--|------------------|---------------|
| -r | Raw CAN receive. | N/A |
| description: do Raw Can receive Demo. | | |
| <p>Example :</p> <pre>sudo ./bin/faro_can_sdk_demo3 -p /dev/ttyUSB0 -r</pre> <p>Receive :</p> <p>Receive count = 1, port = 0, ID = 0x000007DF, data = 0x01 0x02 0x03 0x04 0x05 0x06 0x07 0x08</p> | | |

-w – Receive CAN data with sensor

| Command | Value(First) | Value(second) |
|---|-----------------------------|---------------|
| -w | Raw CAN and sensor receive. | N/A |
| description: Read Raw Can data and sensor data. | | |
| Syntax: sudo ./bin/faro_can_sdk_demo3 -p <UART Device> -w <interval time> <interval time> Set Raw CAN data receive interval time : Value : counter value | | |
| Example : sudo ./bin/faro_can_sdk_demo3 -p /dev/ttyUSB0 -w Receive : Receive CAN Data, Count 1 ACC data: cmd = 0x91, dlc = 0x06 --> XX_L = 0x80, XX_H = 0x0F, YY_L = 0x20, YY_H = 0xF4, ZZ_L = 0x30, ZZ_H = 0x50 Receive CAN Data, Count 2 ACC data: cmd = 0x91, dlc = 0x06 --> XX_L = 0x80, XX_H = 0x0F, YY_L = 0x20, YY_H = 0xF4, ZZ_L = 0x30, ZZ_H = 0x50 Receive CAN Data, Count 3 ACC data: cmd = 0x91, dlc = 0x06 --> XX_L = 0x80, XX_H = 0x0F, YY_L = 0x20, YY_H = 0xF4, ZZ_L = 0x30, ZZ_H = 0x50 | | |

-t – test cnt

| Command | Value(First) | Value(Second) |
|--|----------------|---------------|
| -t | Set time value | N/A |
| Description: Set counter for test loop. | | |
| Syntax: sudo ./bin/faro_can_sdk_demo3 -p <UART Device> <DemoAP command> -t <count> <DemoAP command> Set Demo Option: Value : according -h -- help description | | |

<cnt>

Set Demo or test loop counter:

Value : counter value

Example :

```
sudo ./bin/faro_can_sdk_demo3 -p <UART Device> -g -t 10
```

Receive:

```
get FW count = 1, can_fw_ver: 04.01.10.20.14
get FW count = 2, can_fw_ver: 04.01.10.20.14
get FW count = 3, can_fw_ver: 04.01.10.20.14
get FW count = 4, can_fw_ver: 04.01.10.20.14
get FW count = 5, can_fw_ver: 04.01.10.20.14
get FW count = 6, can_fw_ver: 04.01.10.20.14
get FW count = 7, can_fw_ver: 04.01.10.20.14
get FW count = 8, can_fw_ver: 04.01.10.20.14
get FW count = 9, can_fw_ver: 04.01.10.20.14
get FW count = 10, can_fw_ver: 04.01.10.20.14
```

-v-- SDK version

| Command | Value(First) | Value(Second) |
|---|--------------|---------------|
| -v | N/A | N/A |
| Description: Get SDK version. Syntax sudo ./bin/faro_can_sdk_demo3 -p <UART Device> -v | | |
| Example : sudo ./bin/faro_can_sdk_demo3 -p /dev/ttyUSB0 -v Receive: Version v5.0.2 | | |

-q – quiet mode

| Command | Value(First) | Value(Second) |
|---|--------------|---------------|
| -q | N/A | N/A |
| Description : Set DemoAP no receive any data syntax: sudo ./bin/faro_can_sdk_demo3 -p <UART Device> -q | | |
| Example: sudo ./bin/faro_can_sdk_demo3 -p /dev/ttyUSB0 -j 0 -q Receive: N/A | | |