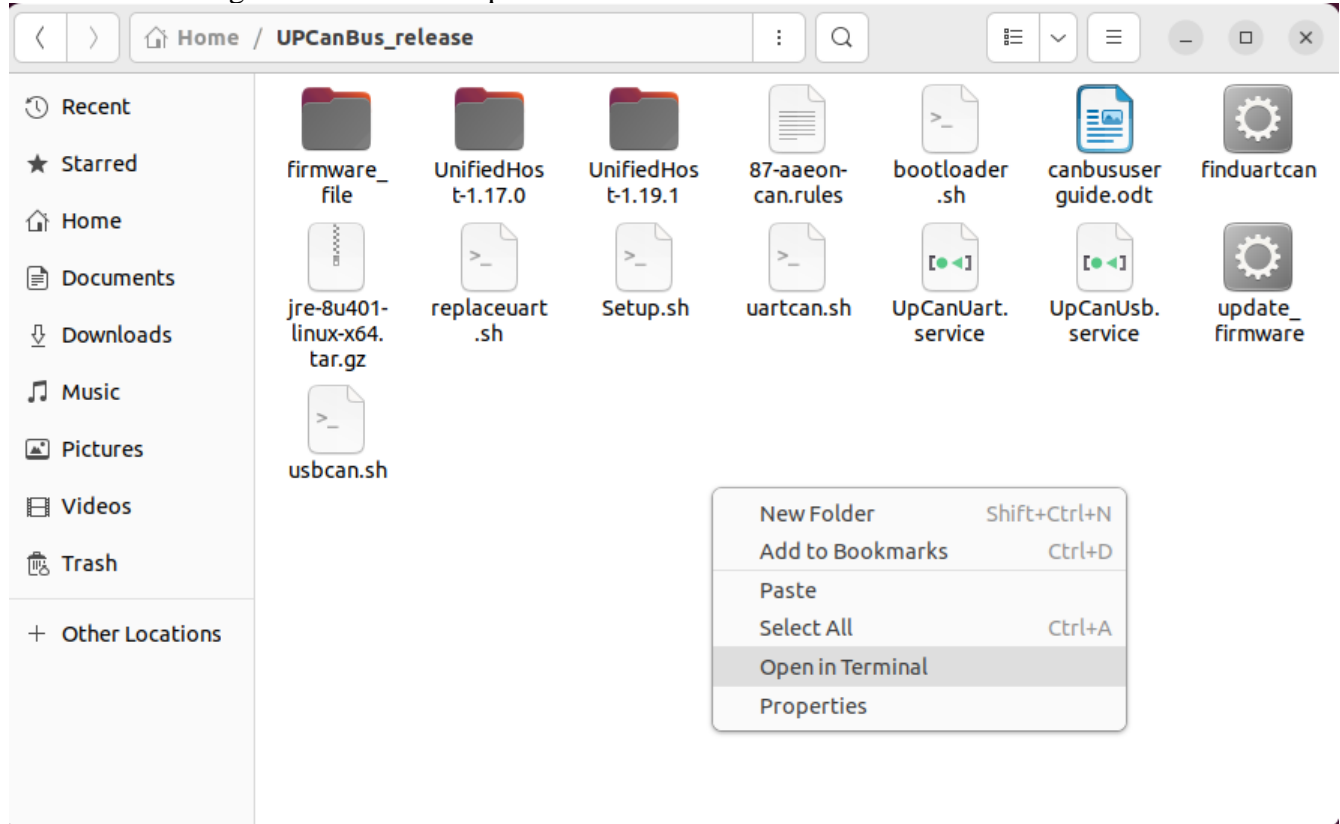


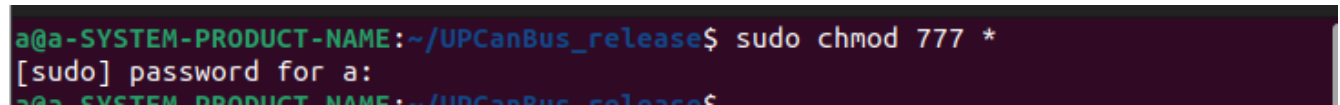
How to install

1. Into folder to right-click to select Open in terminal



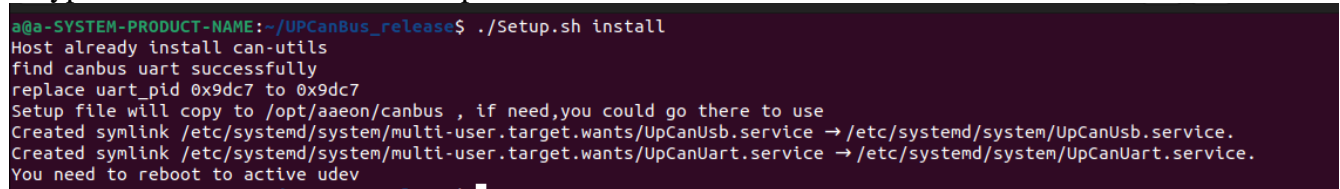
2. Type command to make sure script could be run.

Command: `sudo chmod 777 *`



3. make sure Ethernet is connected

4. Type command to install: `./Setup.sh install`



5. After reboot ,you will to use CAN Bus

6. (Optional) Type command to check CAN Bus : `ip a`

```
4: can1: <NOARP,UP,LOWER_UP> mtu 16 qdisc pfifo_fast state UP group default qlen 10000
   link/can
5: can0: <NOARP,UP,LOWER_UP> mtu 16 qdisc pfifo_fast state UP group default qlen 10000
   link/can
```

How to Uninstall

1. Open terminal and type command to go to folder : `cd /opt/aaeon/canbus/`

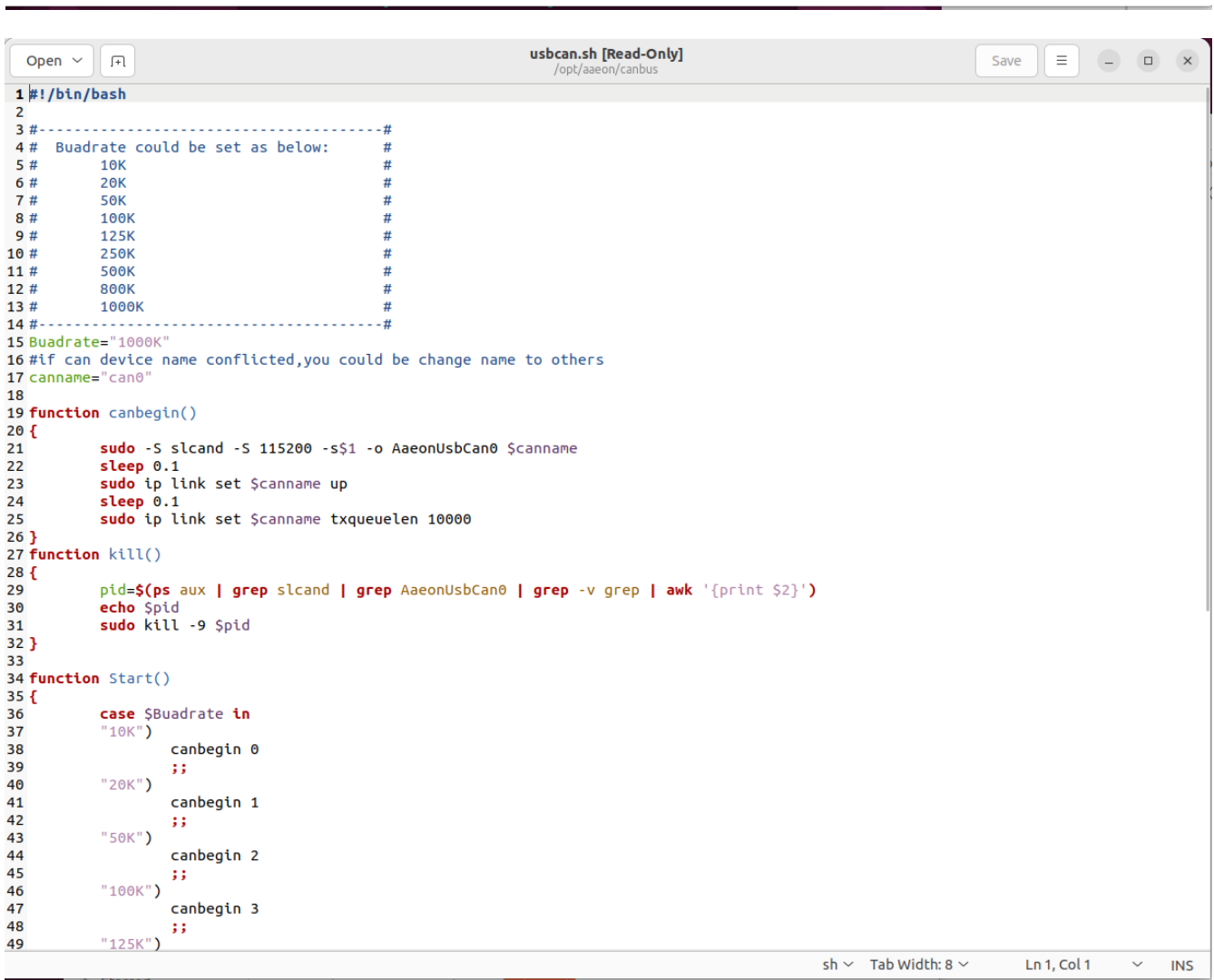
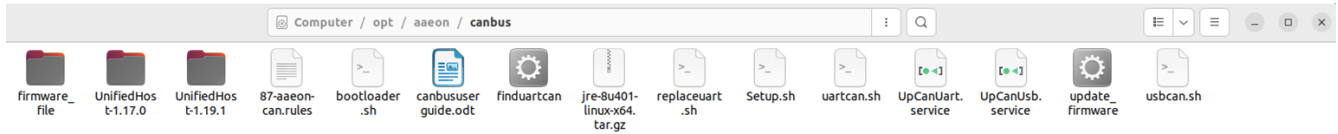
```
a@a-SYSTEM-PRODUCT-NAME:~$ cd /opt/aaeon/canbus/  
a@a-SYSTEM-PRODUCT-NAME:/opt/aaeon/canbus$
```

2. Type command to uninstall : `./Setup.sh uninstall`

```
a@a-SYSTEM-PRODUCT-NAME:/opt/aaeon/canbus$ ./Setup.sh uninstall  
remove aaeon UP can rules  
[sudo] password for a:  
Removed /etc/systemd/system/multi-user.target.wants/UpCanUsb.service.  
Removed /etc/systemd/system/multi-user.target.wants/UpCanUart.service.  
a@a-SYSTEM-PRODUCT-NAME:/opt/aaeon/canbus$
```

How to change buadrate and can interface name

if you want to change Buadrate and infterface name , must to go to location as below to change config on uartcan.sh or usbcan.sh which you wanted,you need super user permissions to change file.



```
1 #!/bin/bash
2
3 #-----#
4 # Buadrate could be set as below: #
5 # 10K #
6 # 20K #
7 # 50K #
8 # 100K #
9 # 125K #
10 # 250K #
11 # 500K #
12 # 800K #
13 # 1000K #
14 #-----#
15 Buadrate="1000K"
16 #if can device name conflicted,you could be change name to others
17 canname="can0"
18
19 function canbegin()
20 {
21     sudo -S slcand -S 115200 -s$1 -o AaeonUsbCan0 $canname
22     sleep 0.1
23     sudo ip link set $canname up
24     sleep 0.1
25     sudo ip link set $canname txqueuelen 10000
26 }
27 function kill()
28 {
29     pid=$(ps aux | grep slcand | grep AaeonUsbCan0 | grep -v grep | awk '{print $2}')
30     echo $pid
31     sudo kill -9 $pid
32 }
33
34 function Start()
35 {
36     case $Buadrate in
37         "10K")
38             canbegin 0
39             ;;
40         "20K")
41             canbegin 1
42             ;;
43         "50K")
44             canbegin 2
45             ;;
46         "100K")
47             canbegin 3
48             ;;
49         "125K")
```

```
Open [icon] uartcan.sh [Read-Only] /opt/aaeon/canbus Save [menu] [close] [maximize]
1 #!/bin/bash
2
3 #-----#
4 # Baudrate could be set as below: #
5 # 10K #
6 # 20K #
7 # 50K #
8 # 100K #
9 # 125K #
10 # 250K #
11 # 500K #
12 # 800K #
13 # 1000K #
14 #-----#
15 Baudrate="1000K"
16 #if can device name conflicted,you could be change name to others
17 canname="can1"
18
19 function canbegin()
20 {
21     sudo -S slcand -S 2000000 -s$1 -o AaeonUartCan $canname
22     sleep 0.1
23     sudo ip link set $canname up
24     sleep 0.1
25     sudo ip link set $canname txqueuelen 10000
26 }
27 function kill()
28 {
29     pid=$(ps aux | grep slcand | grep AaeonUartCan | grep -v grep | awk '{print $2}')
30     echo $pid
31     sudo kill -9 $pid
32 }
33
34 function Start()
35 {
36     case $Baudrate in
37         "10K") canbegin 0
38             ;;
39         "20K") canbegin 1
40             ;;
41         "50K") canbegin 2
42             ;;
43         "100K") canbegin 3
44             ;;
45         "125K")
46             canbegin 3
47             ;;
48         "1000K")
49             canbegin 3
50             ;;
51     esac
52 }
```

Finished change,need to type command to restart service.

If change USB CAN Bus , type command:

```
sudo systemctl stop UpCanUsb.service
sudo systemctl start UpCanUsb.service
```

If change UART CAB Bus , type command:

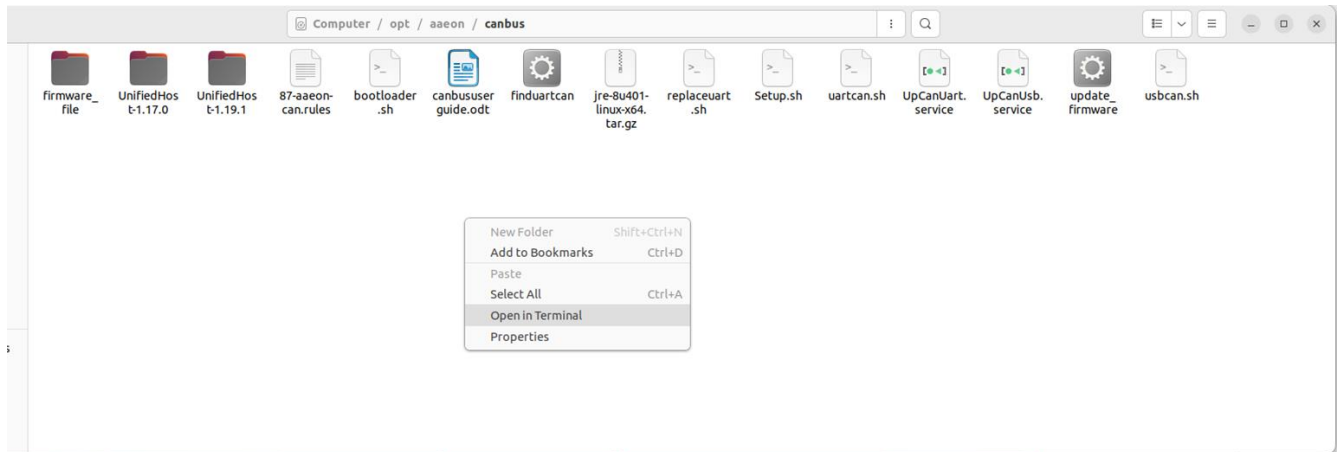
```
sudo systemctl stop UpCanUart.service
sudo systemctl start UpCanUart.service
```

How to update firmware

Into firmware update mode have two approach:

1.SW

(1)On the folder , Right-click to select Open in Terminal



(2)Type command to run script : `sudo ./bootloader.sh`

```
a@a-SYSTEM-PRODUCT-NAME:/opt/aaeon/canbus$ sudo ./bootloader.sh
```

2.EE

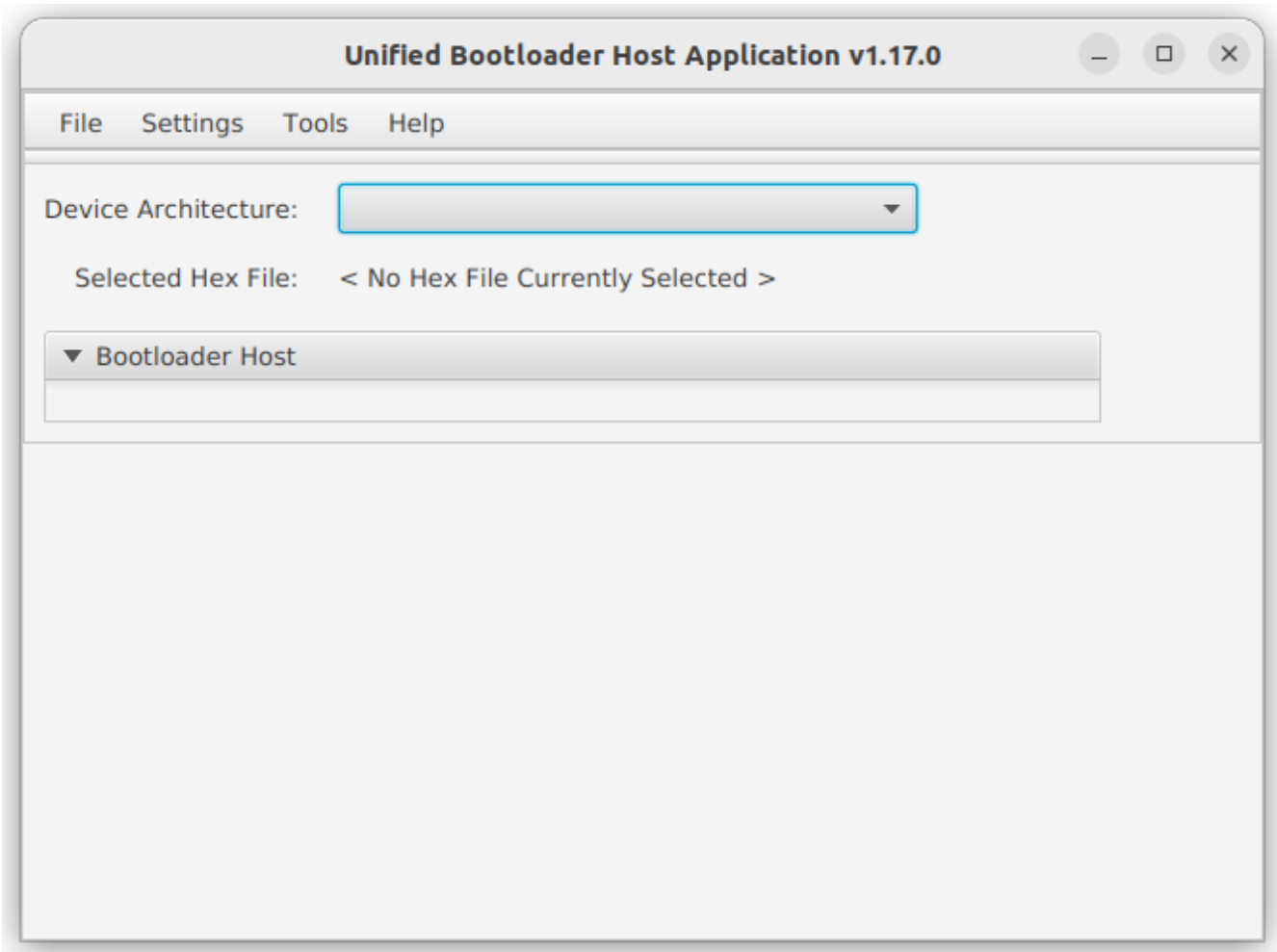
Switich the jump to into bootloader mode



Update tool:

Type command to run script : `sudo ./bootloader.sh`

```
a@a-SYSTEM-PRODUCT-NAME:/opt/aaeon/canbus$ sudo ./bootloader.sh
```



Unified Bootloader Host Application v1.17.0

File Settings Tools Help

Device Architecture: PIC32MK\PIC32MX\PIC32MZ\SAM MCUs

Selected Hex File:

- PIC10\PIC12\PIC16\PIC18 MCUs
- ATtiny\ATmega\AVR128D MCUs
- PIC24 MCUs \ dsPIC33 DSCs

▼ Bootloader Host

PIC32MK\PIC32MX\PIC32MZ\SAM MCUs

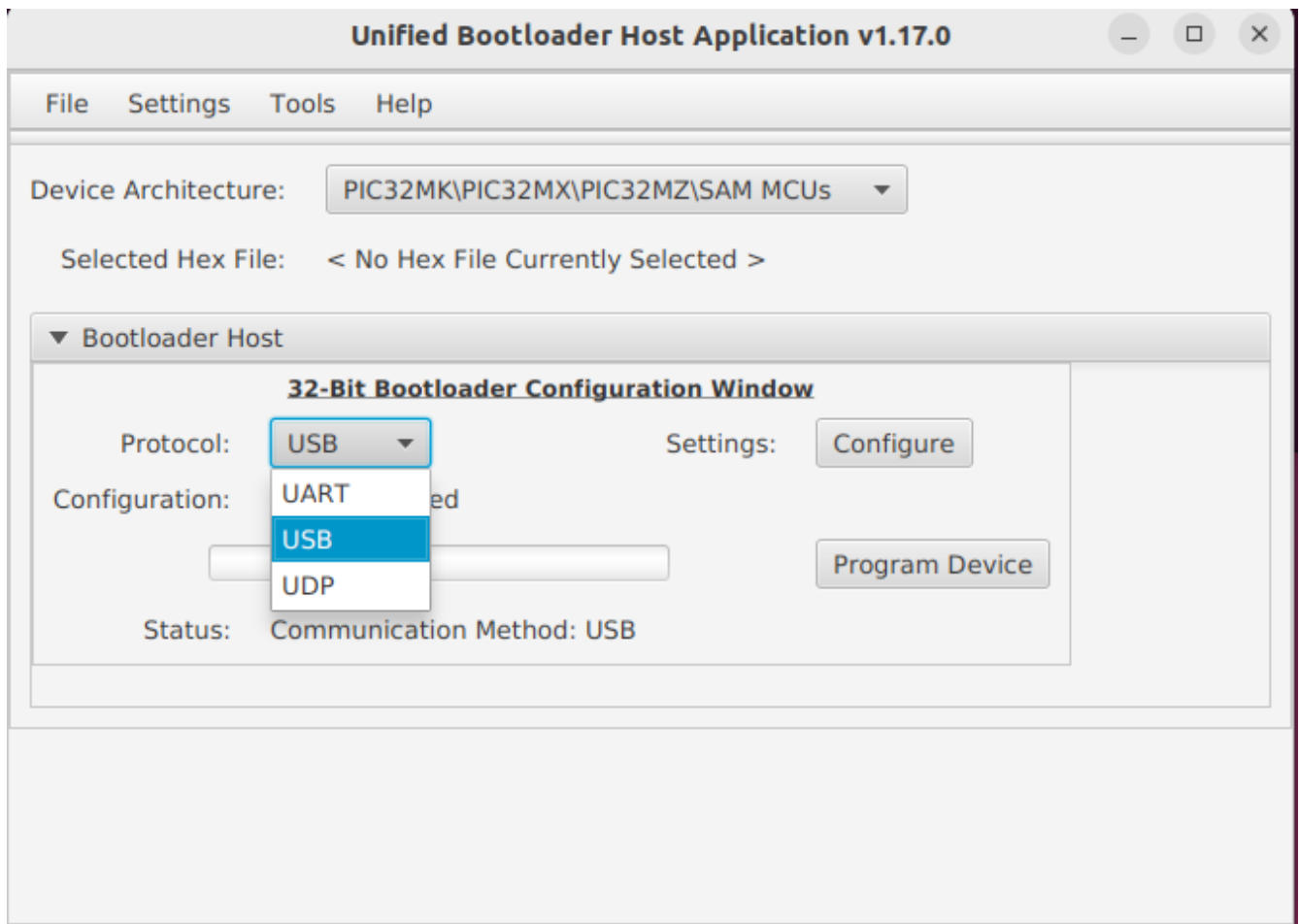
Protocol: UART

Settings: Configure

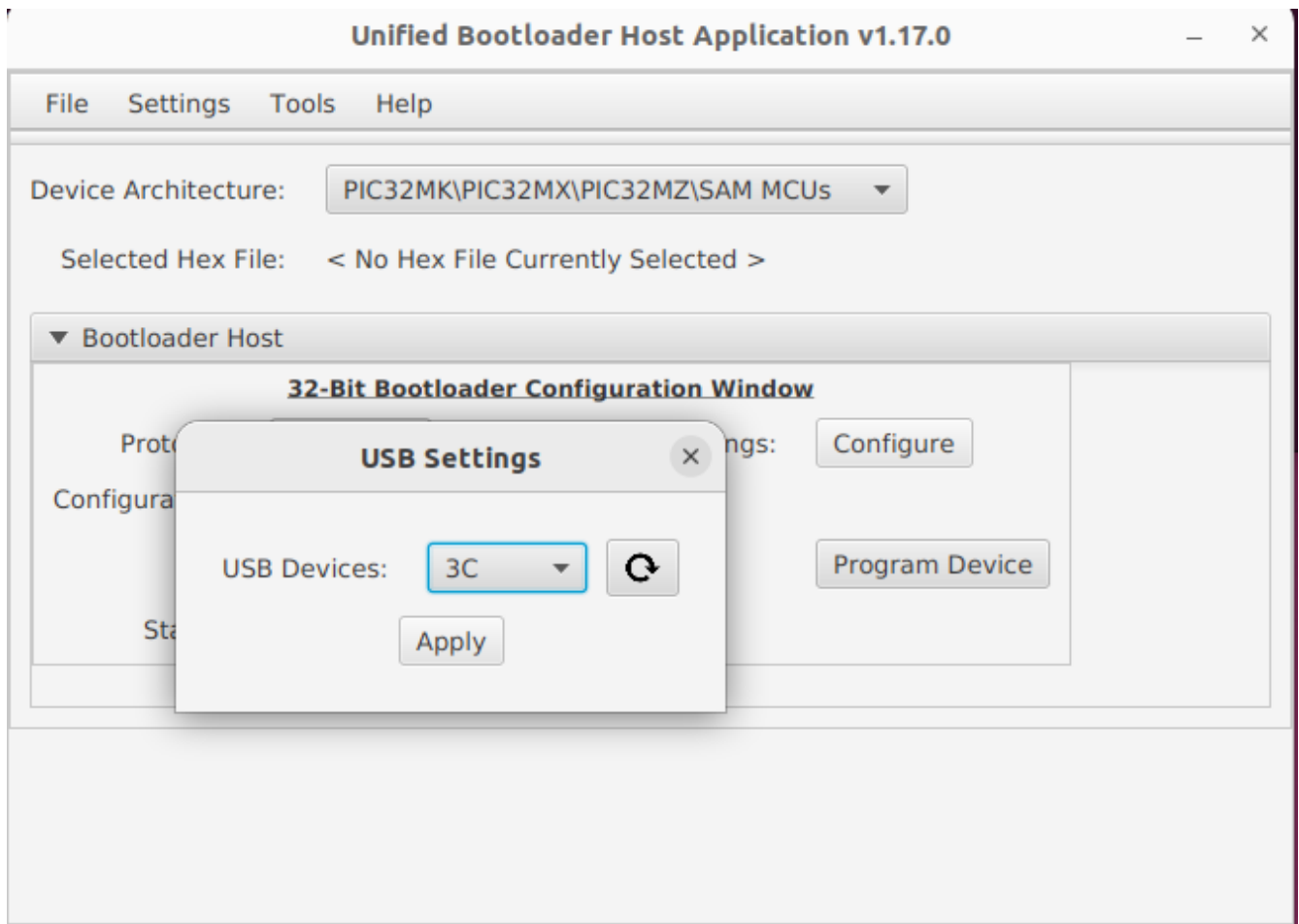
Configuration: Not Configured

Program Device

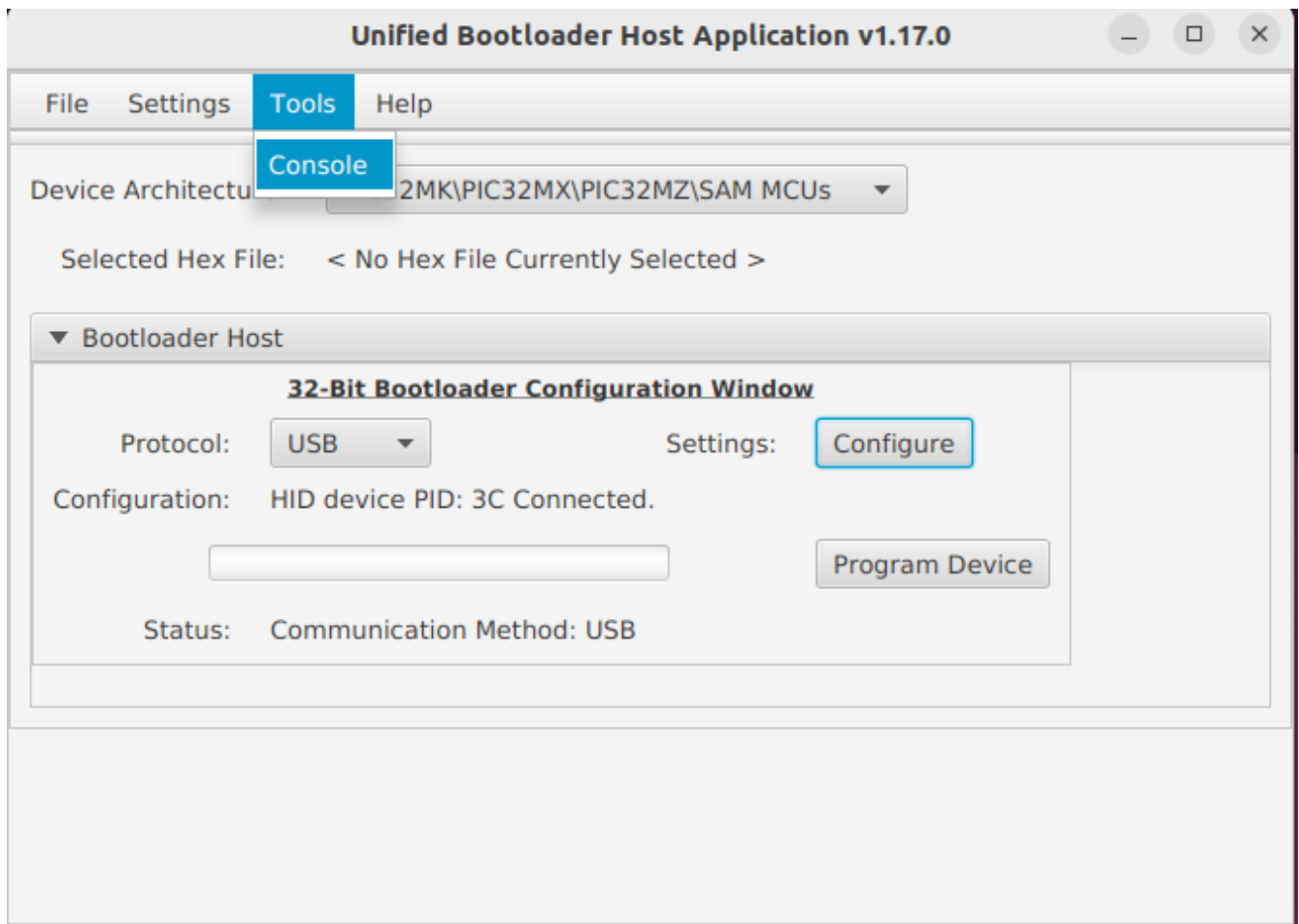
Status: Communication Method: UART



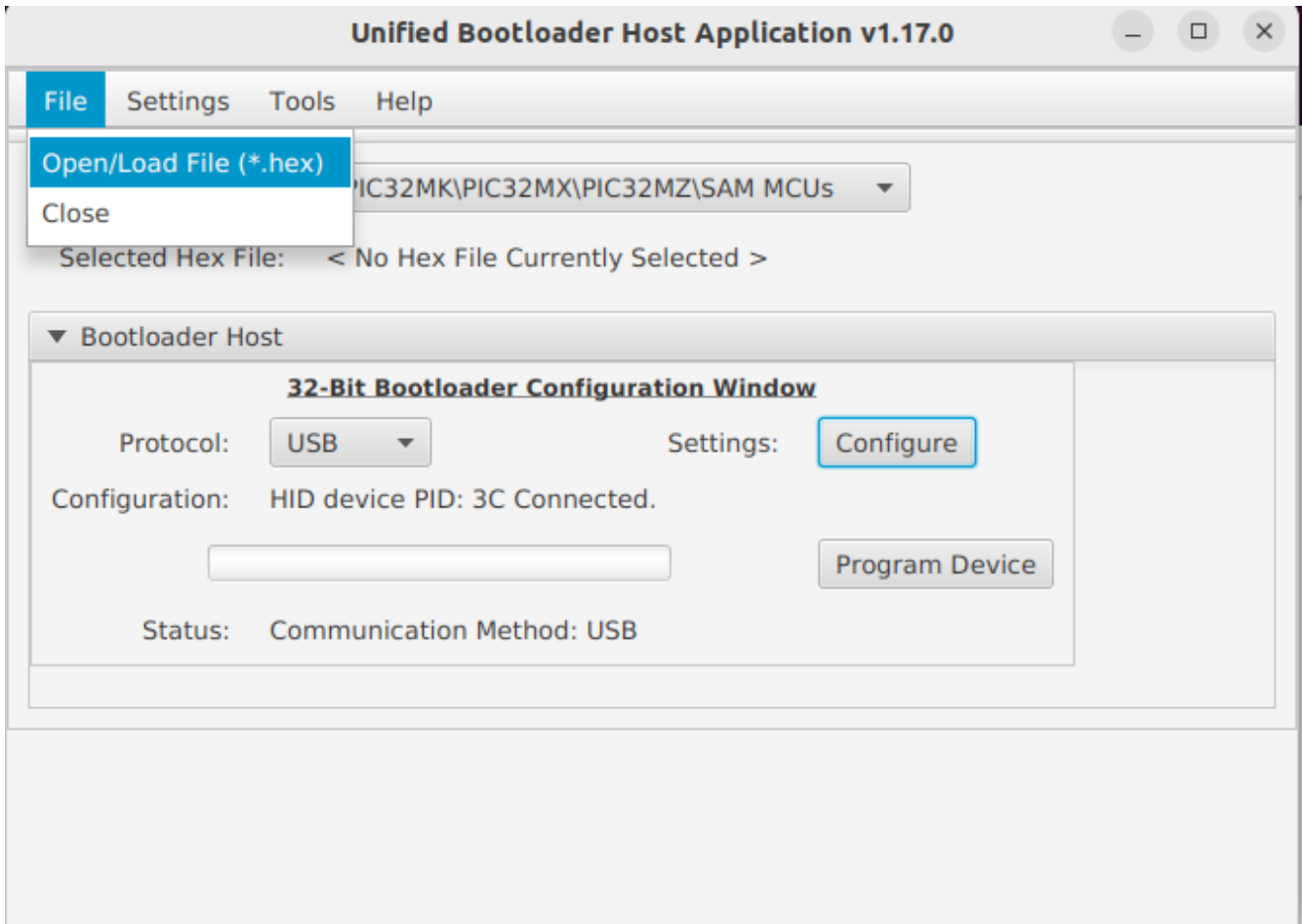
Click Configure and Select "3C" to Apply



Open to Console



Select bin file to record



Click Program Device to record

