

Frequently Asked Questions

Title: Linux - How to access the modules on the Excalibur board

Date: September 2022

Card/Board/Module: All

Operating System: Linux flavors

Question:

How can I access the modules on the Excalibur board (under Linux) ?

Answer:

(a) assign a device number to the board

(b) call function Init_Module_XXX to get a handle to the specific module on the board

In order to access the modules on the Excalibur board (to call API functions on the module), you must first call function Init_Module_XXX (where XXX is replaced by a few letters that represent the protocol being used). The function Init_Module_XXX takes two parameters: device number (a number associated with the base board), module number (the position of the module on the board, 0,1,2,3, etc.).

- NOTE: The association of a device number is with the board, not with the modules.

For **PCI[e]** boards, the dip switch (SW1) setting of the board is the device number (a number from 0-15).

- NOTE: If you have **only one PCI[e]** board in your computer, you may use **default device number 25**.

For **UNET** family boards, you will need to modify the file *ExcaliburDevices.ini* that is found in the root folder of your software tools.

Each section in the .ini file has a heading [**DEV**number]. Replace "number" with the desired device number.

Follow the instructions at the top of the file, and the given examples, to set up the parameters for your UNET family board.

This ExcaliburDevices.ini file must reside in the /etc directory. Note that this will require root privileges.