

Generic AcSense Programming Procedure

Prerequisites:

- MPLAB IDE
(<https://www.microchip.com/en-us/tools-resources/develop/mplab-x-ide#tabs>)



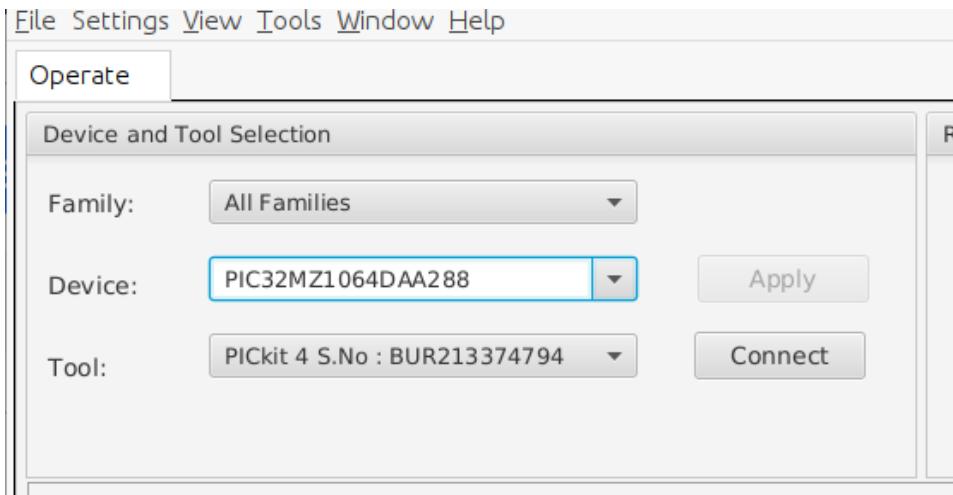
- Install
 - Download linux installer
 - unzip
 - Open Terminal
 - Type "cd Downloads/"
 - "ls" (Lowercase LS)
 - "sudo bash MPLABX-v6.20-linux-installer.sh", and follow menus. Leaving defaults
 - MPLAB X IDE v6.20
 -
- PicKit 4 or PicKit 5 with adapter cable

Procedure:

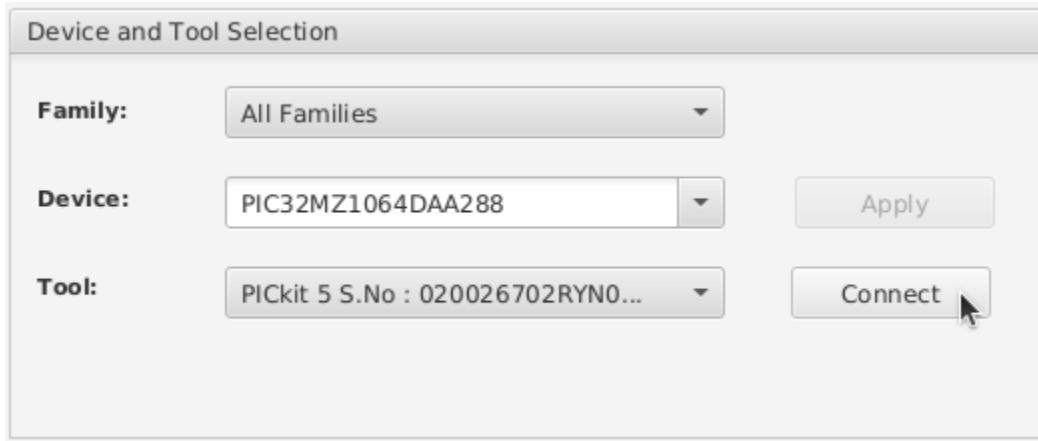
- Create a new temporary directory using the data and version you are programming. This will be provided as a hex file.
- Open "MPLAB IPE" (NOT "MPLAB X IDE")



- Select "PIC32MZ1064DAA288" from the device drop down menu
- Plug in your PicKit.
- Select your PicKit from the Tool drop down. If it does not connect automatically



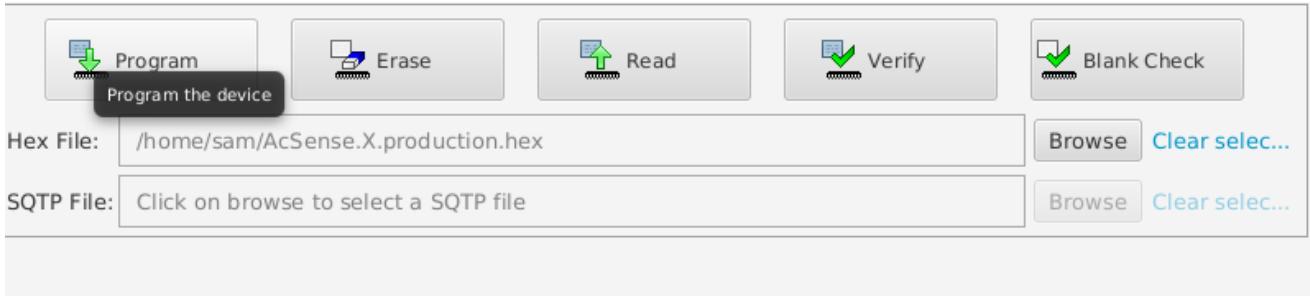
- Connect your picKit to the AcSense via J10.
- Power the AcSense either via the 2 pin microfit or the USB-C connector.
- Select connect in MPLAB IPE



- Select the downloaded hex file with the browse button Before clicking Program. (MAKE SURE IT IS THE ONE YOU DOWNLOADED)



- Select Program



- Watch for the programming complete message:

```
Calculating memory ranges for operation...
Erasing...
The following memory area(s) will be programmed:
program memory: start address = 0x1d000000, end address = 0x1d05efff
configuration memory
boot config memory
Programming/Verify complete
2024-03-25 15:42:55 -0400 - Programming complete
*** Release From Reset mode is enabled ***

*****
```

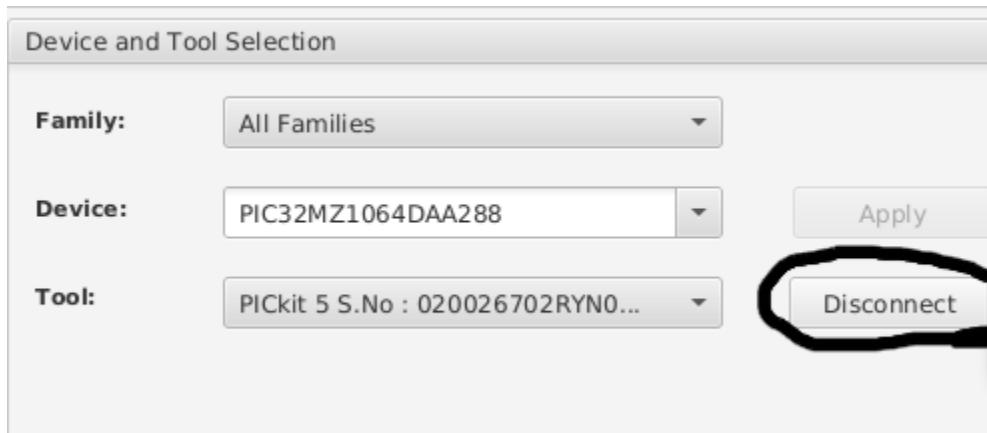
- Select Verify:



- Watch for Verification Successful Message.

```
Calculating memory ranges for operation...
The following memory area(s) will be verified:
program memory: start address = 0x1d000000, end address = 0x1d05efff
configuration memory
boot config memory
Verification successful.
```

- Select “Disconnect”



- Unplug Circuit Board from Power source
- TBD: Labeling?
- When you are finished programming the boards. Remove the temporary directory you created with the hex file.