

Generic AcSense Programming Procedure

Prerequisites:

- MPLAB IDE

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



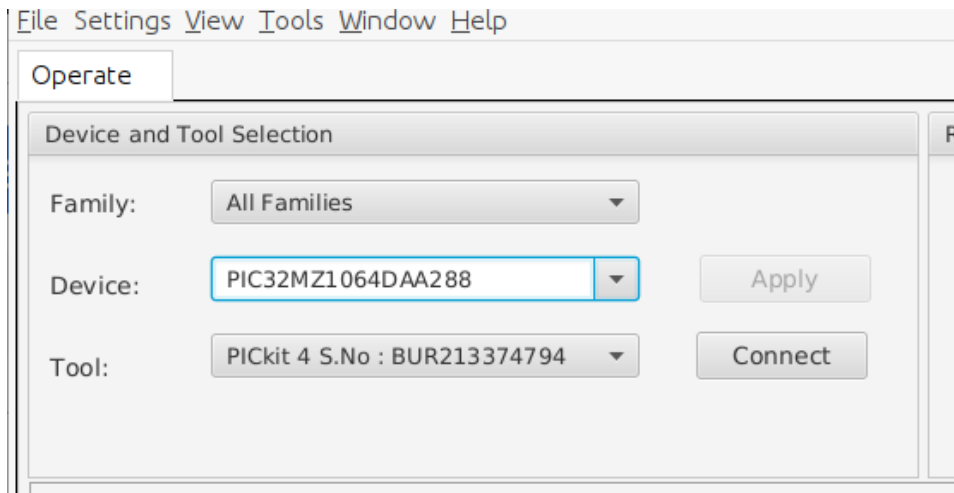
- Install
- Download linux installer
- unzip
- Open Terminal
- Type “cd Downloads/”
- “ls” (Lowercase LS)
- “sudo bash MPLABX-v6.20-linux-installer.sh”, and follow menus. Leaving defaults
- MPLAB X IDE v6.20
-
- Pickit 4 or Pickit 5 with adapter cable

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”)



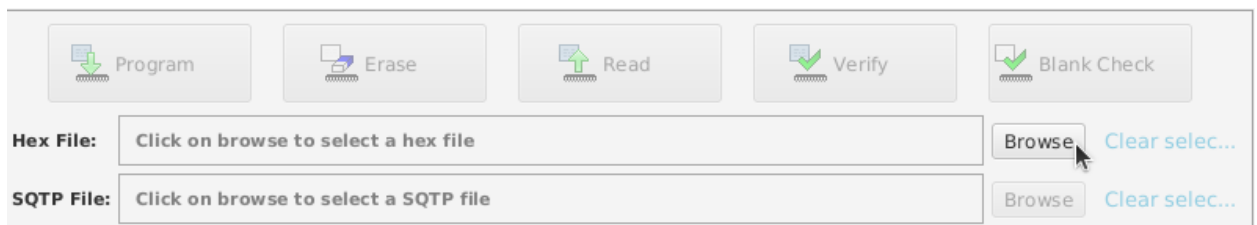
- Select “PIC32MZ1064DAA288” from the device drop down menu
- Plug in your PicKit.
- Select your Pickit from the Tool drop down. If it does not connect automatically



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- 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

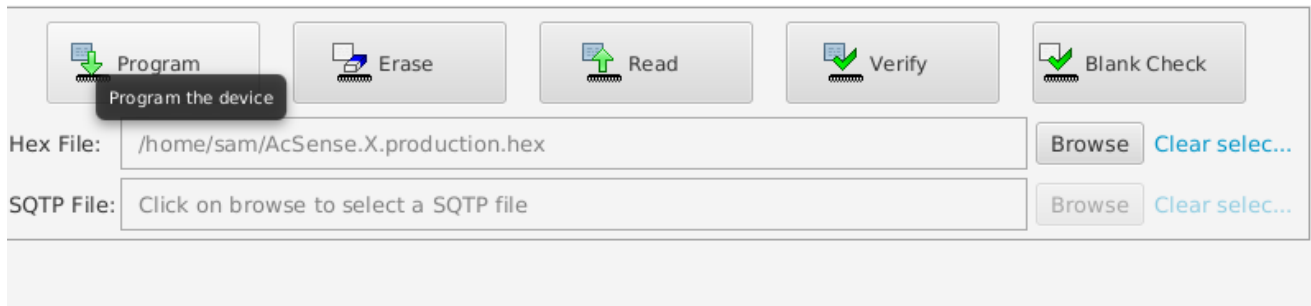


- Select the downloaded hex file with the browse button Before clicking Program. (MAKE SURE IT IS THE ONE YOU DOWNLOADED)



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- Select Program



Program the device

Hex File: Browse Clear selec...

SQTP File: Browse Clear selec...

- 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 ***

*****

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- Select Verify:



Hex File: Browse Clear selec...

SQTP File: Browse Clear selec...

- Watch for Verification Successful Message.

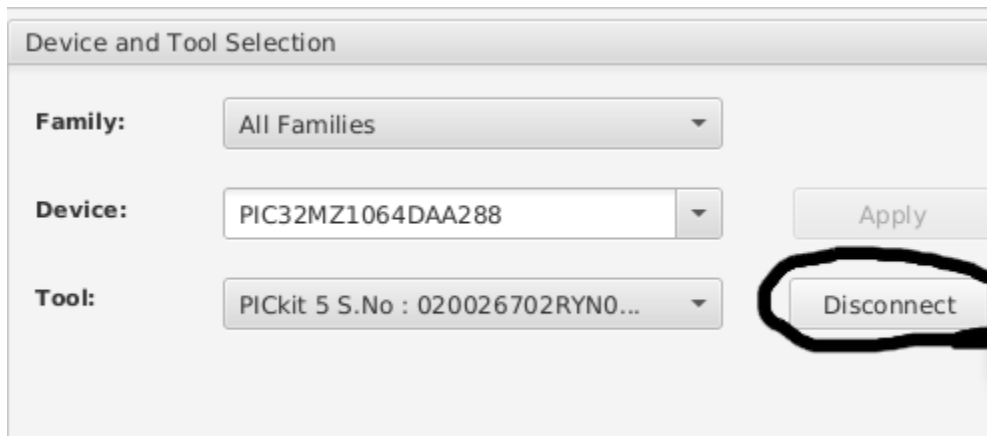
```

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”



Device and Tool Selection

Family: All Families ▼

Device: PIC32MZ1064DAA288 ▼

Tool: PICkit 5 S.No : 020026702RYN0... ▼

Apply

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.