

## ECE 372 Pic32

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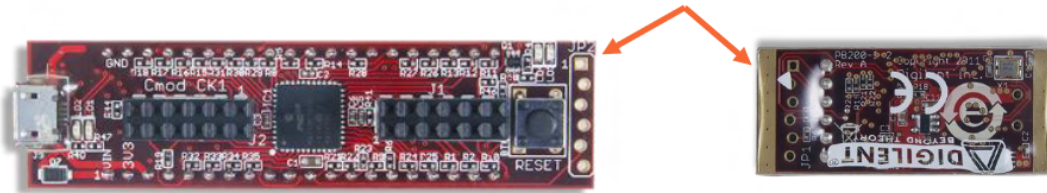
Thu, Apr 15, 2021 at 12:27 PM

To: Parth Patel <pbp@g.clemson.edu>

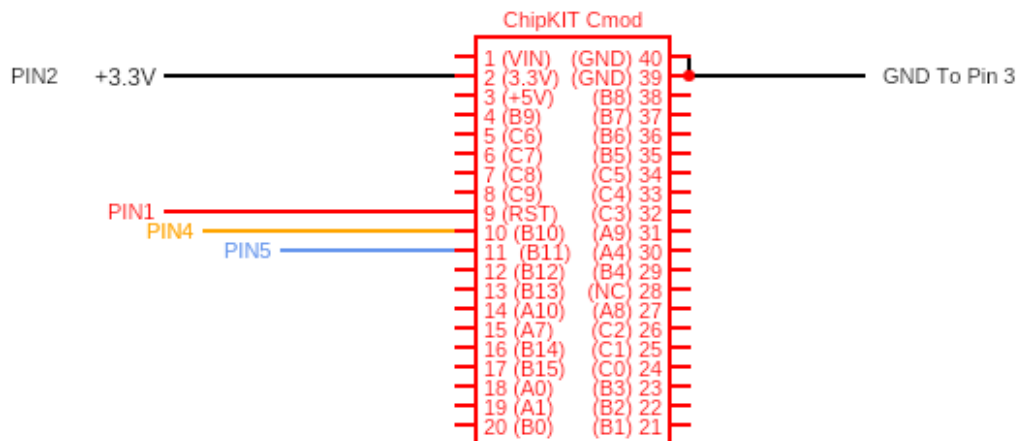
Hi Parth,

I've copied a picture here from an old version of the slides that shows how the PGM should connect to the Cmod via the 90-degree header pins that should have come with the PGM.

The arrow on the PGM should be closer to the side of the Cmod with this 1 label.



You may find that you have to hold the PGM in place while programming, and even angle the USB end up a little bit to force the pins to maintain contact. An alternative method (and one that I found more consistent) involves connecting the PGM pins as shown in the diagram below, where pin 1 is indicated by the white arrow on the PGM:



Regarding voltages, the Cmod is powered by 5V on the VIN pin. A regulator on the board steps this voltage down to 3.3V for the PIC32, and this 3.3V signal is available as an output on pin 2 of the Cmod. The I/O pins still output and receive 3.3V. 5V tolerant pins are indicated by asterisks (\*) in the pinout diagram in the Cmod reference manual.

Note that you will have to adjust the project properties in MPLAB to select the PIC32MX150F128D now.

I believe the boot loader message will only appear the first time you program with the PGM.

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