

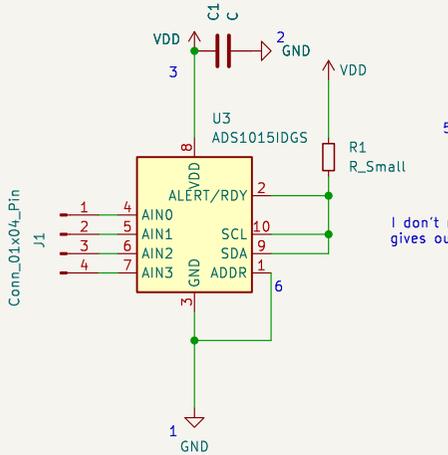
2. Same as 1 – change to the the correct GND symbol. Also, the GND symbol typically points towards the bottom so u want to rotate this to point to the bottom

3. The VDD symbol usually points upwards. You did it for the pull-up resistors so just rotate this upwards

5. This is the US symbol for a resistor, we typically use the international resistor symbol. Also, you don't actually need to pull the i2c lines high on a breakout board as it will already be pulled high from the master/central side. So you can remove R2 and R3



7. What's the point of the ADC if it can't take any inputs? You need to break these pins out (probably with a 1x4 2.54mm header pin) so the chip can actually take in an analog input and convert it.



I don't really understand step 5. I know that the SDA line transmits data and the SCL gives out clock signals. However, I don't know how to incorporate that into the board. Do I connect it all to one resistor?

6. Okay, you've pulled ADDR low, meaning that you will have one i2c address. But what if there are address collisions between peripherals? What if you need to change the address? Read section 8.5 (pages 18–19) of your datasheet and see if you can provide alternative addresses using jumpers (look at varit's INA226 board)

4. Rmb this is a breakout board so u don't actually need to slap an MCU on the board. U can just break out the i2c pins (take a look at varit's INA226 breakout board) which can be connected to a pico or arduino or the many other alternatives we alrdy have. But great job thinking above and beyond!

1. This is the "earth" ground symbol, which is actually different to the symbol. "earth" ground means that electricity is physically connected to the earth, so that excess surges of electricity can dissipate. In this case we are referring to ground as the common return path for electricity (once your ADC is powered by VDD electricity needs a path to flow back!), so we want to use this symbol.

Crane, this is some great work you've done. I can see you've put a lot of thought into the schematic and payed a lot of attention to the datasheet. I've left some feedback which you can work on. Also, make sure to reference Byran's ADC in his carrier schematic, and take a look at the other boards in the breakouts folder to get a better sense of what you are doing. Good job!

Sheet: /  
File: ADC.kicad\_sch

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