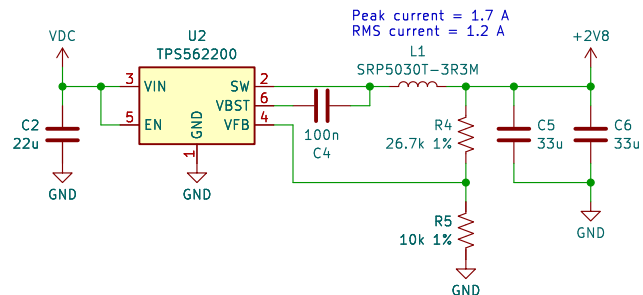
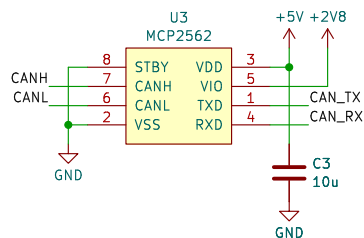
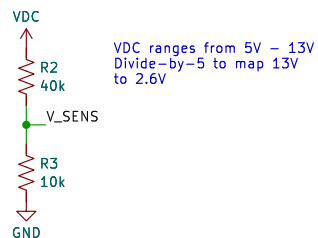
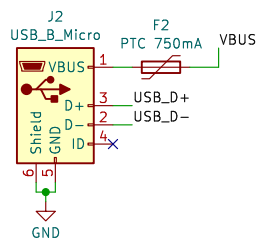


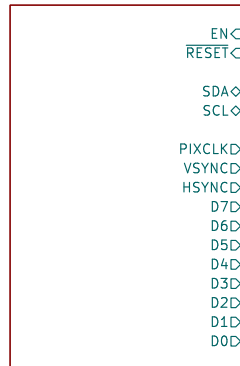
2A max. Webench: <https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=651AB5308202EAF9>



NOTE: The CAN transceiver is powered from +5V. That means that when we only have +12V power (the bus is off) CAN won't work.

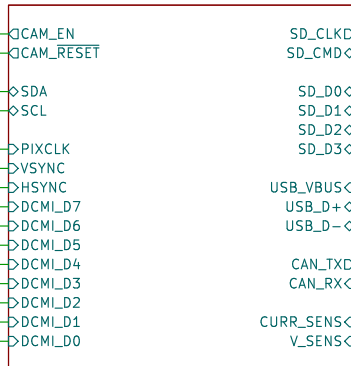


OV5640



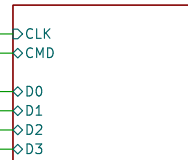
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MCU

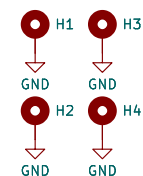


File: mcu.kicad_sch

SD Card



File: sdcard.kicad_sch



Sheet: /
File: camera.kicad_sch

Title:

Size: A4

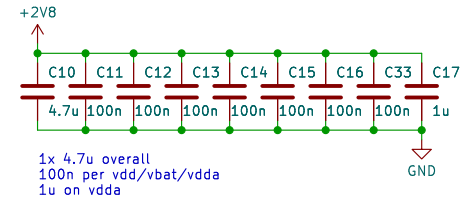
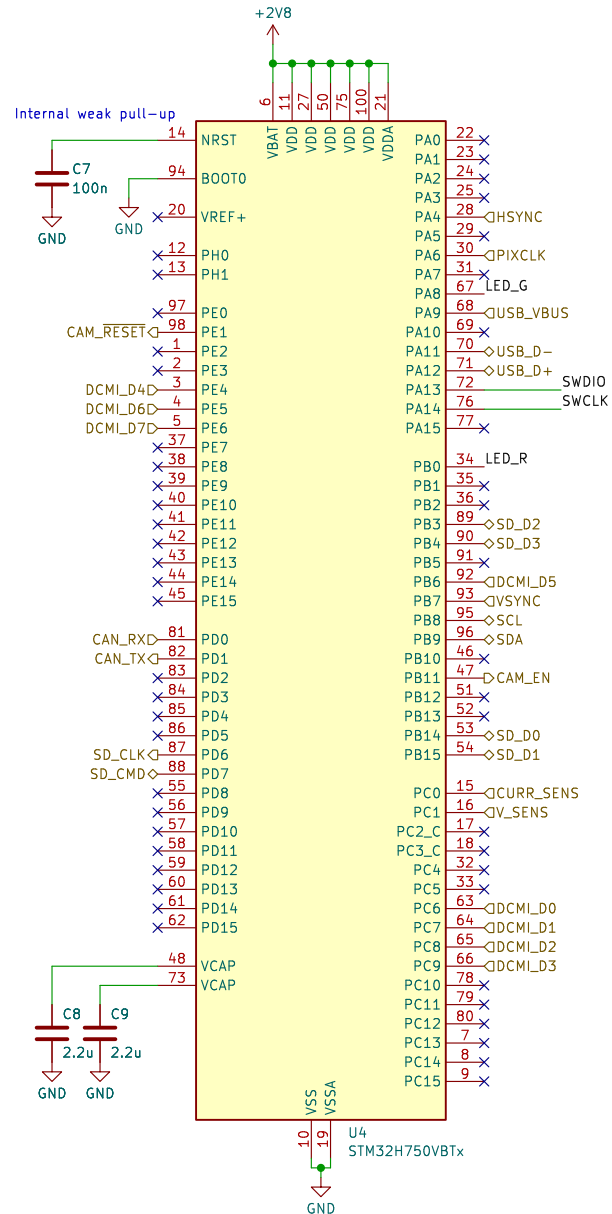
KiCad E.D.A. 8.0.3

Date:

Rev:

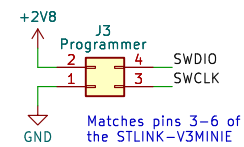
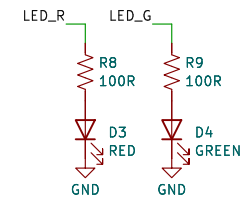
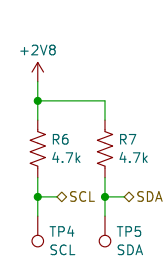
Id: 1/4

Useful documents: DS12556, RM0433, AN5020, AN5419



Using SDMMC2 since it is in the same DMA domain as the DCMI.

Using I2C1 cause I felt like it.



Sheet: /MCU/
File: mcu.kicad_sch

Title:

Size: A4

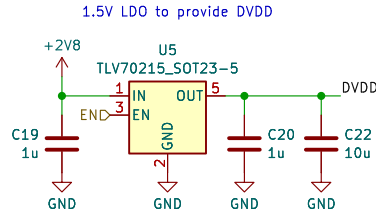
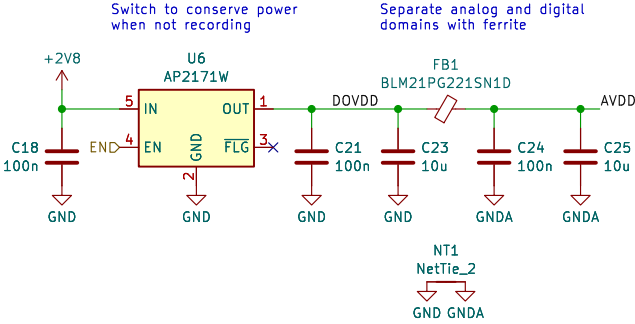
Date:

KiCad E.D.A. 8.0.3

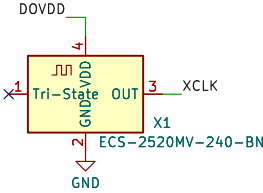
Rev:

Id: 2/4

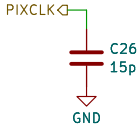
Camera Datasheet: https://cdn.sparkfun.com/datasheets/Sensors/LightImaging/OV5640_datasheet.pdf
Module Datasheet: https://cdn-learn.adafruit.com/assets/assets/000/118/306/original/ov5640_datasheet.pdf?1675869959
Example Schematic: <https://learn.adafruit.com/assets/118304>



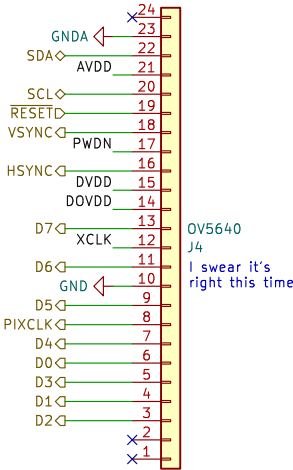
The camera needs an external 24MHz clock



Adafruit and Waveshare schematics have this cap?



PWDN isn't supported with external DVDD



Sheet: /OV5640/
File: ov5640.kicad_sch

Title:

Size: A4
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Date:

Rev:

Id: 3/4

