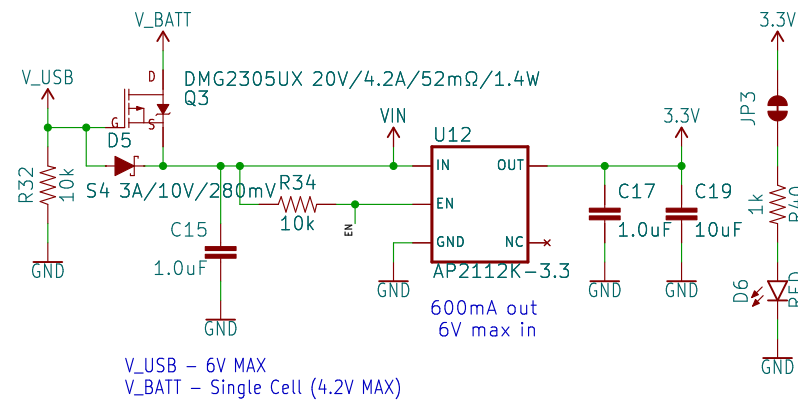
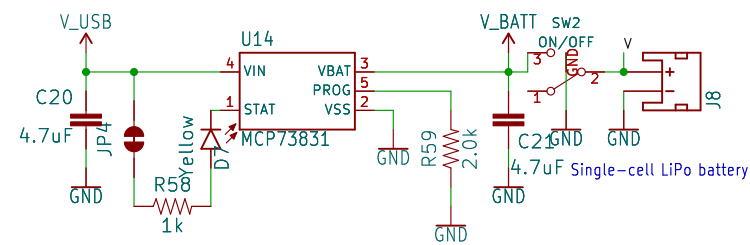


System Regulator

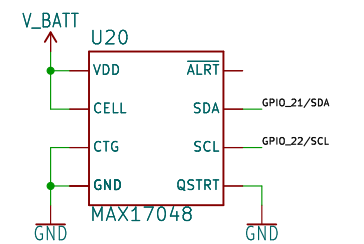
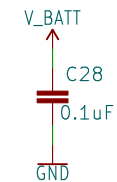
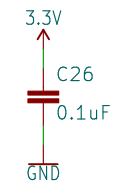
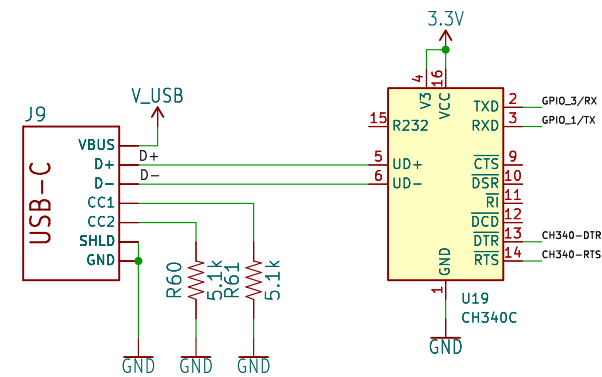


Lithium-Polymer Battery Charger



Charge current:
 $I_{CHG} = 1000 / R_{PROG}$
 $R_{PROG}=2k : I_{CHG}=500mA$

USB-to-Serial Converter

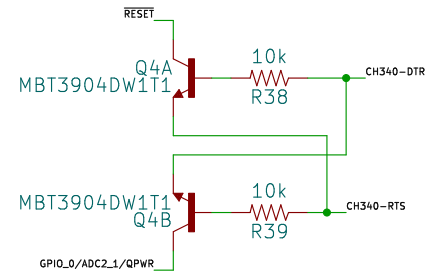


Auto-Reset

Boot Mode Configuration

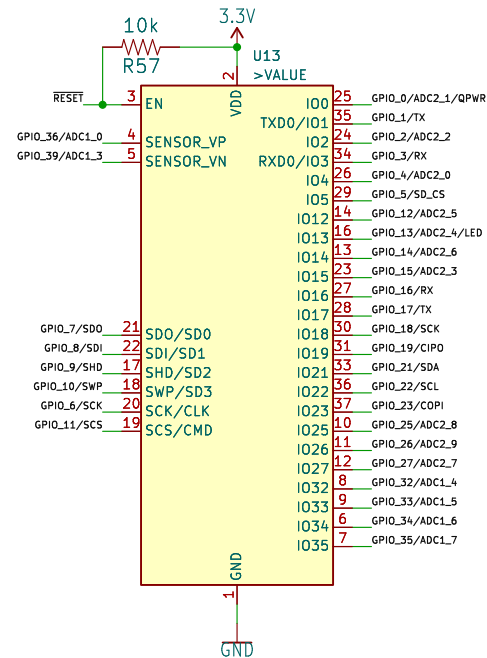
Pin	Run	Bootloader	Default
I00	1	0	1
I02	x	0	0
I05	1	x	1
I012	0	0	0
I015	x	x	1

IO12 = MDTI, IO15 = MDT0



If DTR is LOW, toggling RTS from HIGH to LOW resets to run mode.
If RTS is HIGH, toggling DTR from LOW to HIGH resets to bootloader.

Espressif ESP32



Use boot control pins with caution: 0, 2, 5, 12, 15
 I00: Avoid device connections. Can be used as stat LED.
 I02: Avoid external pullups – will cause bootloader fail.
 I05: Has builtin pullup at POR.
 I012: Avoid external pullups – will cause bootloader fail.
 I015: Has builtin pullup at POR.

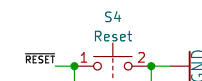
Status LED



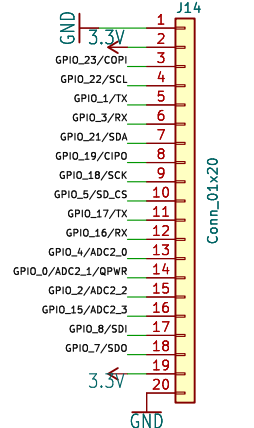
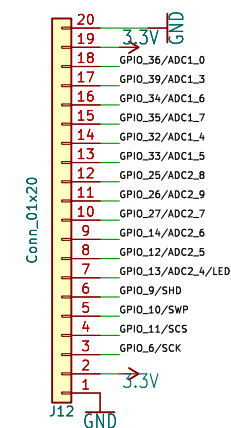
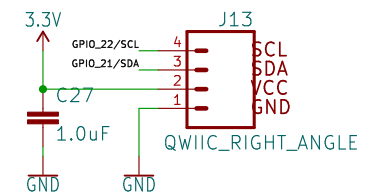
GPI00/Boot Button



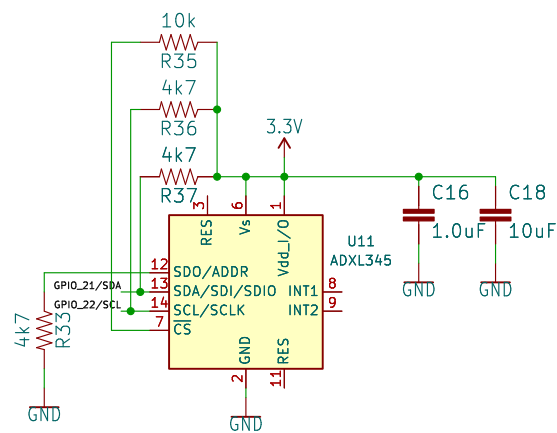
Reset Button



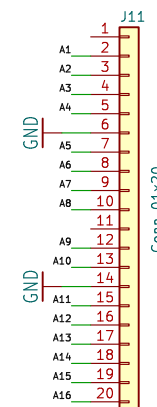
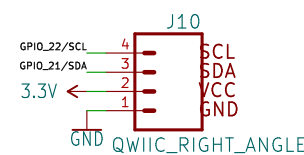
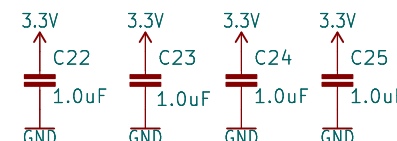
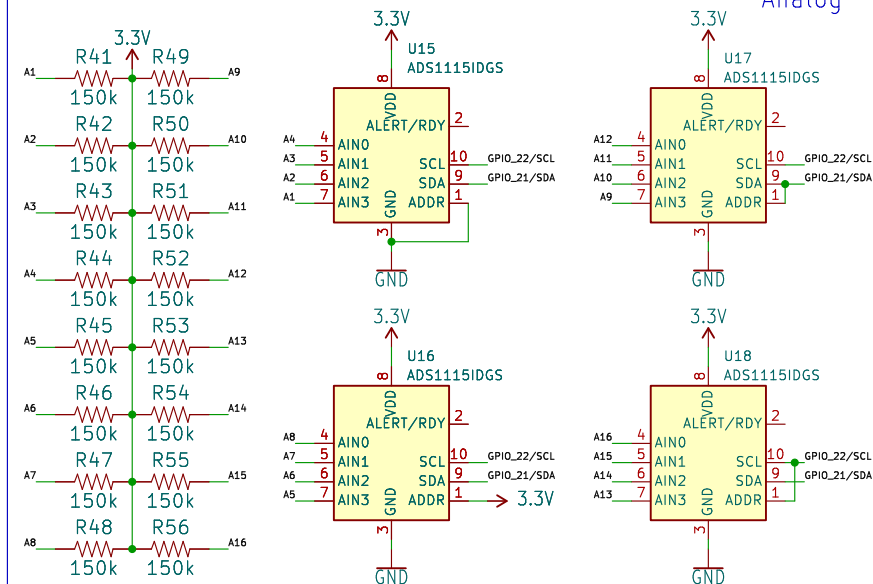
Qwiic Connector



Motion Sensor



Analog



Sheet: /
File: ESP32-DEVKIT-S-ch340-mirror.kicad_sch

Title: posture

Size: User	Date: 2023-02-28
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Size: 6501	Path: 2
KiCad E.D.A.	kiCad (7.0.0)

ev: 0
l: 1/1