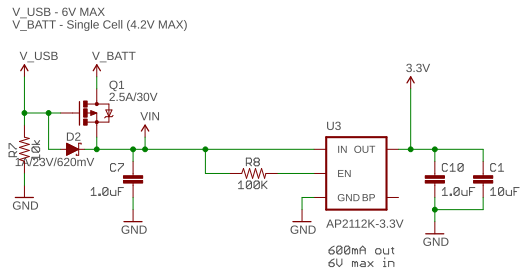
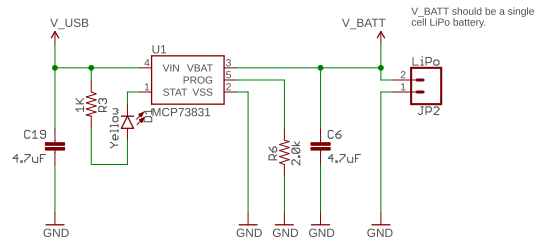


Voltage Regulator and Battery Charger

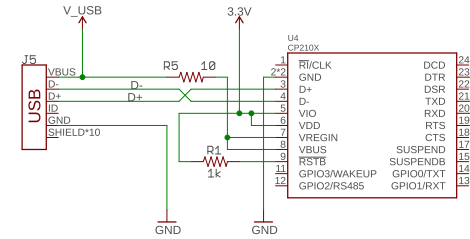


Lithium-Polymer Battery Charger (1-cell)

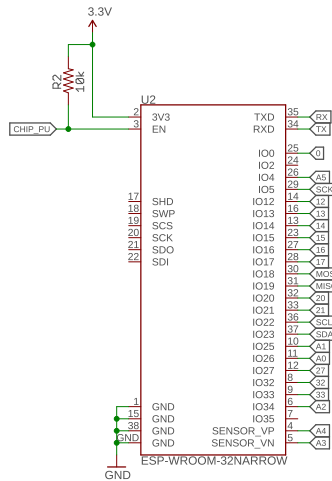


Charge current:
I_CHG = 1000 / R_PROG
R_PROG=2k : I_CHG=500mA

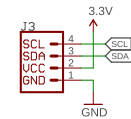
CP2104/2N (USB-to-Serial Converter)



Espressif ESP32



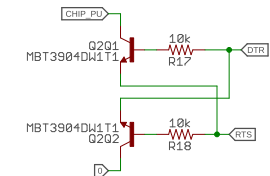
QWIC Connector



Auto-Reset

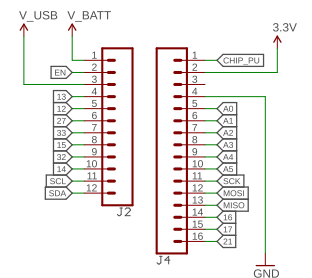
Pin	Default	Boot	Download
GPIO0	1	1	0
U0TXD	1	1	x
GPIO2	0	x	0
GPIO4	0	x	x
HTDO	1	x	x
GPIO5	1	1	x

If U0TXD, GPIO2, GPIO5 are floating, GPIO0 determines boot mode



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.

Headers



THIS IS A FOUR-LAYER BOARD!

Released under the Creative Commons Attribution Share-Alike 4.0 License
<https://creativecommons.org/licenses/by-sa/4.0/>

TITLE: ESP32_Thing_Plus

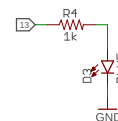
Design by: Mike Hord
Revised by: Alex Wende

REV: v20

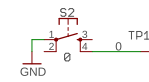
Date: 9/9/2020 12:37 PM

Sheet: 1/1

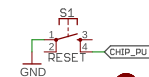
GPIO13 LED



GPIO0 Button



Reset Button



Original ESP32 Thing by Jim Lindblom