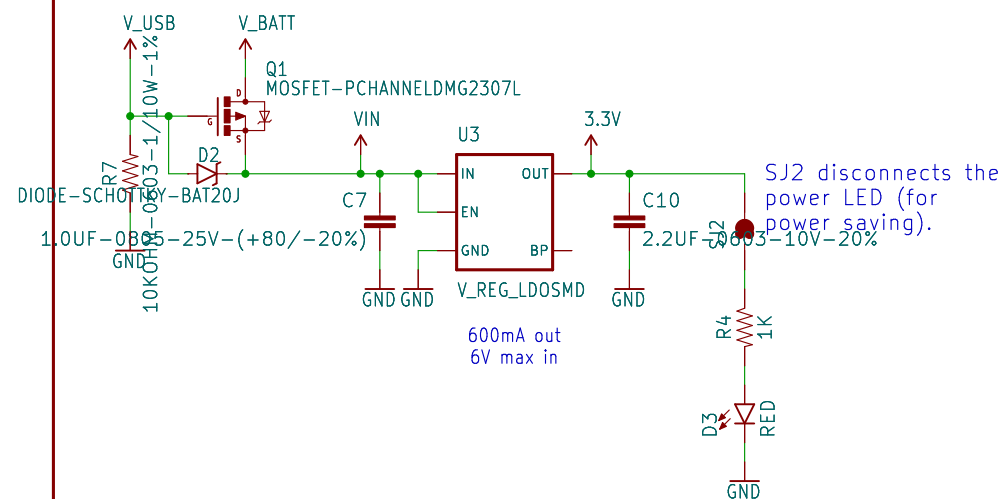
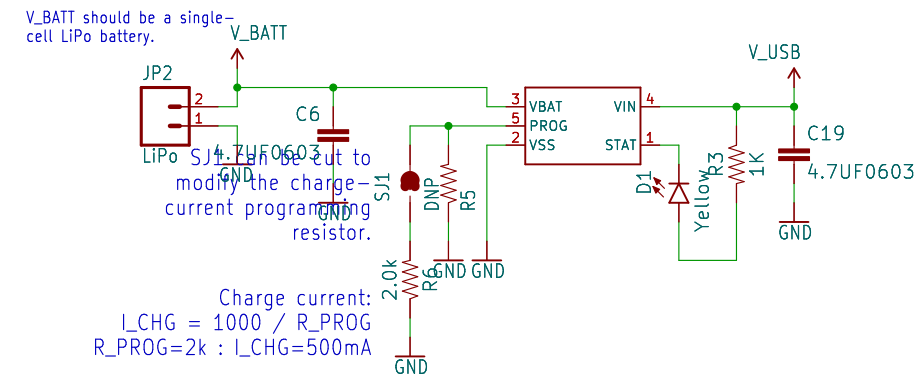


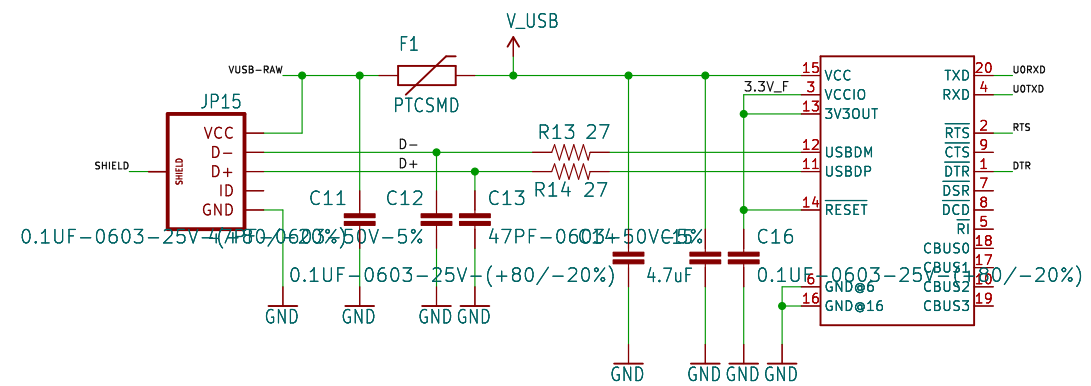
## Voltage Regulator and Battery Charger



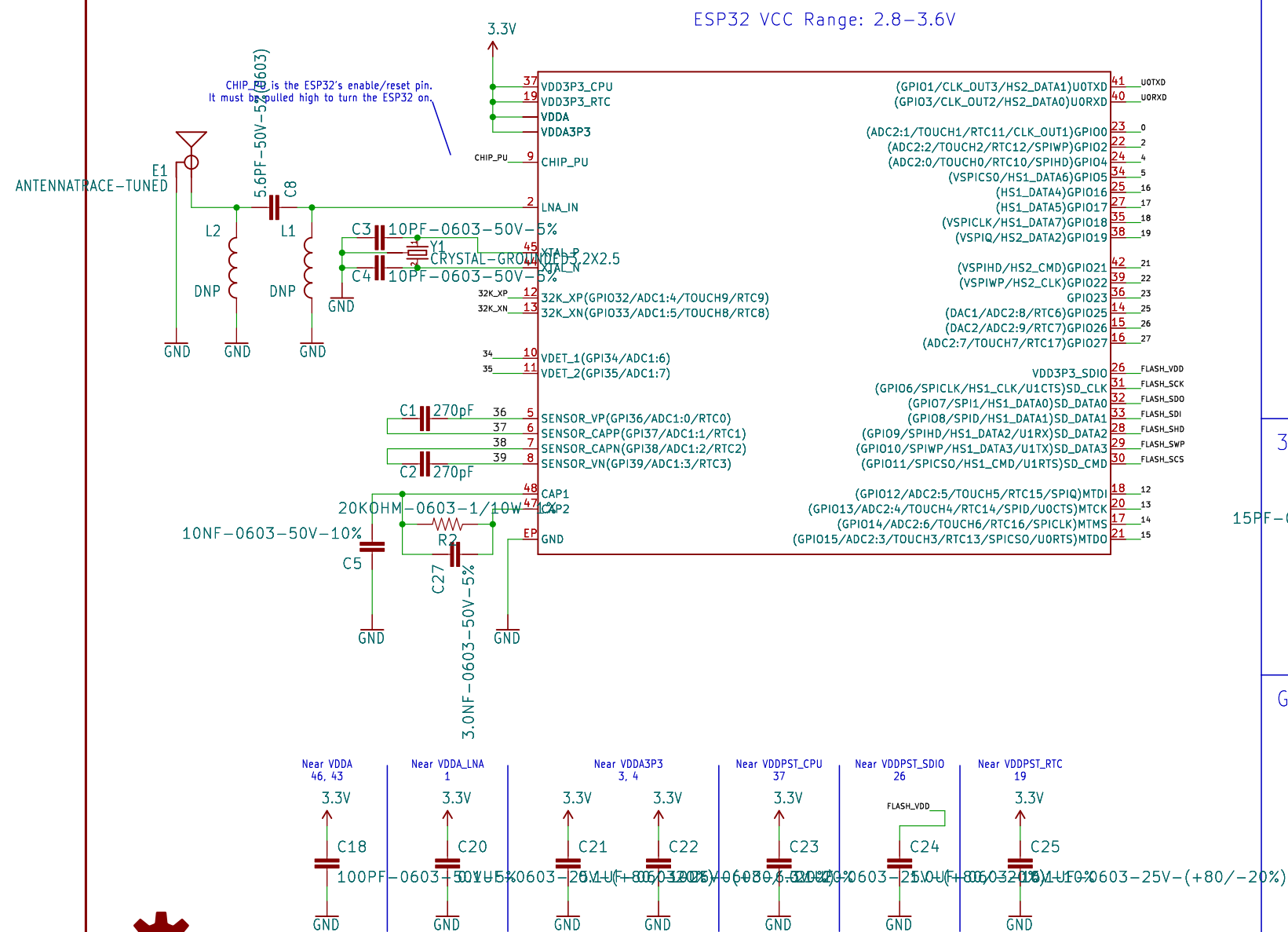
## Lithium-Polymer Battery Charger (1-cell)



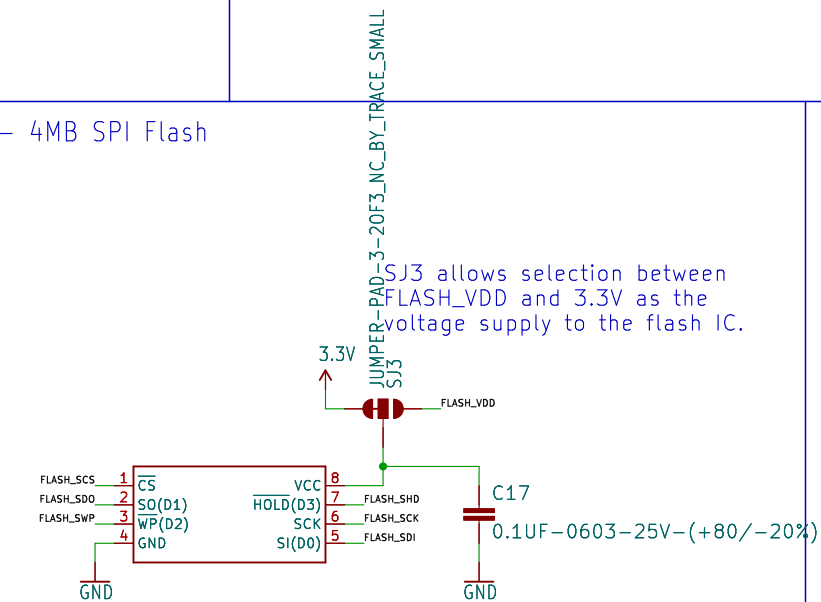
FT231XS (USB-to-Serial Converter)



## Espressif ESP32

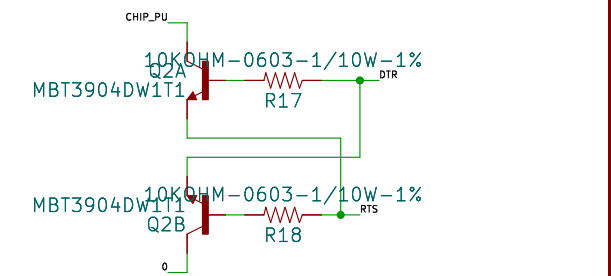


W25Q32FVSS – 4MB SPI Flash



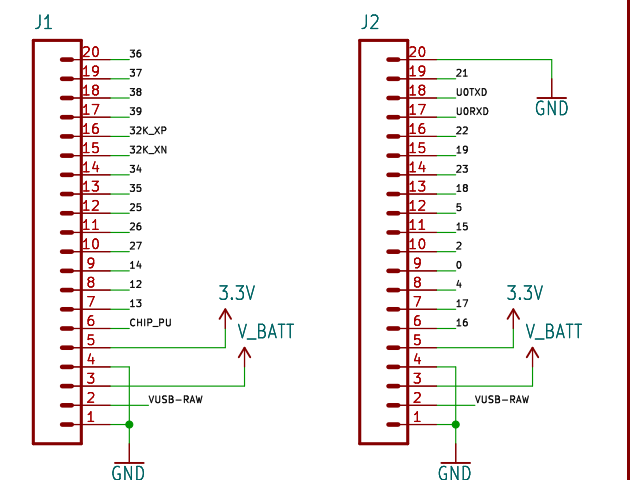
Auto-Reset				
Boot Mode Configuration				
Pin	Default	Boot	Download	
GPIO0	1	1	0	
U0TXD	1	1	x	
GPIO2	0	x	0	
GPIO4	0	x	x	
MTDO	1	x	x	
GPIO5	1	1	x	

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



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

TITLE: \${PROJECTNAME}

Design by:	Jim Lindblom
------------	--------------

Sheet: /

Date: `{CURRENT_DATE}`  
Title:

Size: User	Date:
KiCad E.D.A.	eeschema 7.0.2



EV:  
w10

Sheet:  $\$ \{ \# \} / \$ \{ \#\# \}$

Size: User	Date:	Rev:
KiCad E.D.A.	eeschema 7.0.2	Id: 1/1

ev: 1/1

