

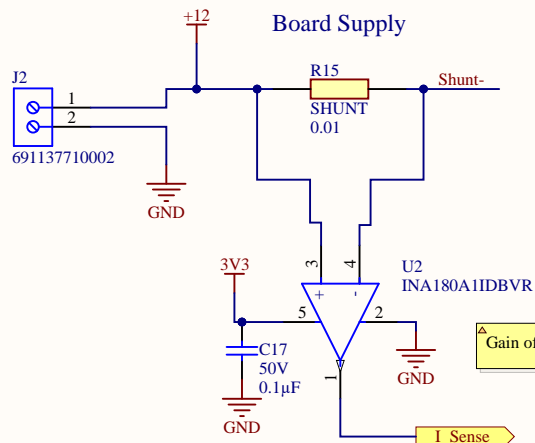
1

2

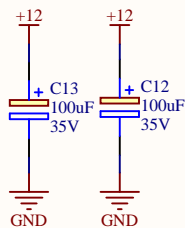
3

4

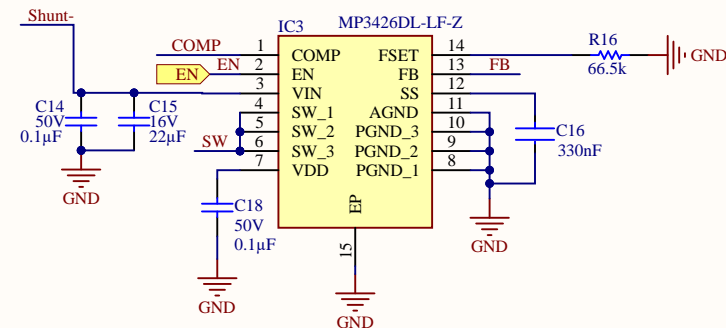
Board Supply



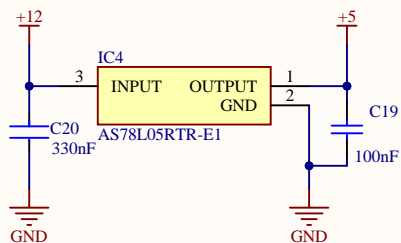
Gain of 20V/V



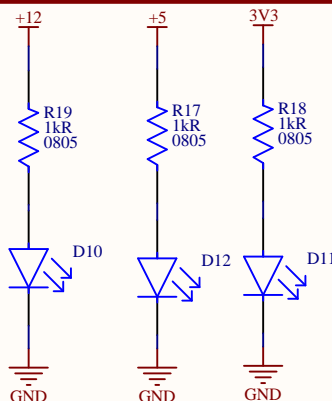
12V - 24V Step Up
fsw = 620kHz
6A Output Current Max



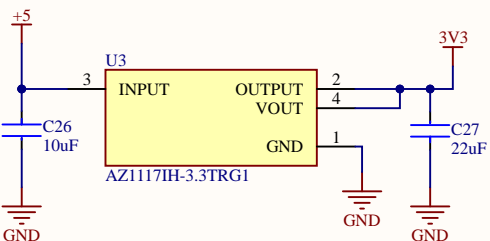
12V -> 5V Regulator



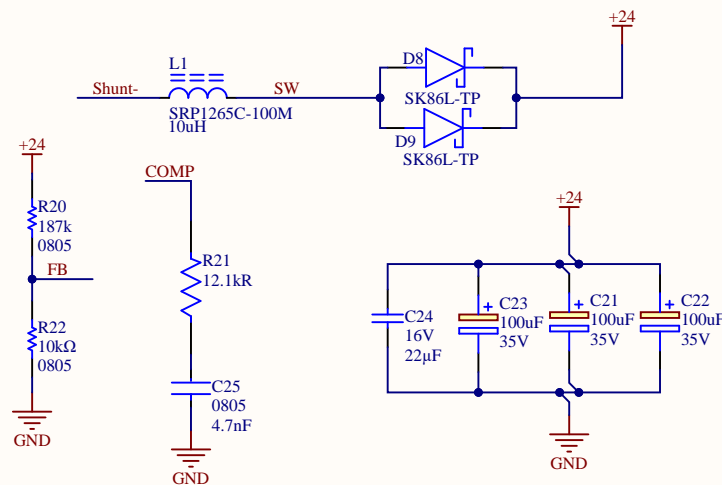
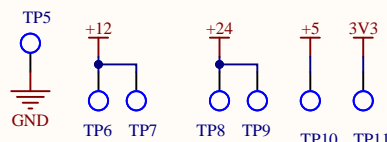
Supply Indication LEDs



5V -> 3V3 Regulator



Test Points



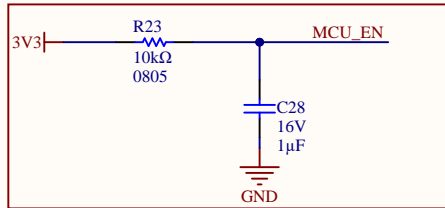
Title		
Size	Number	Revision
A4		
Date:	2-01-2023	Sheet of
File:	D:\Documents\...\Power.SchDoc	Drawn By:

1

2

3

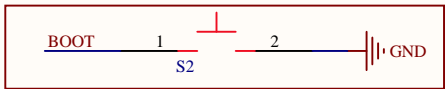
4



MCU Reset

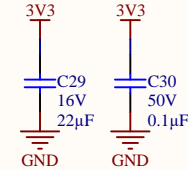


MCU Boot Mode

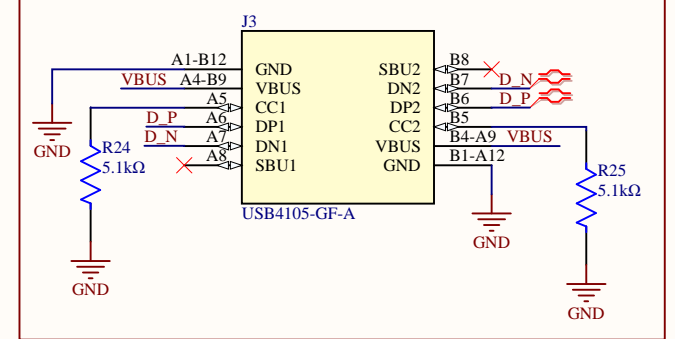


Module Decoupling Caps

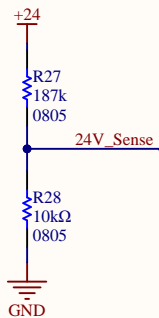
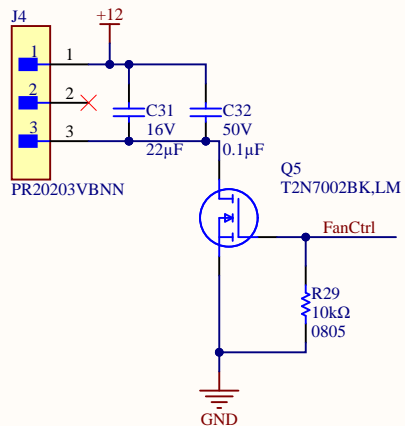
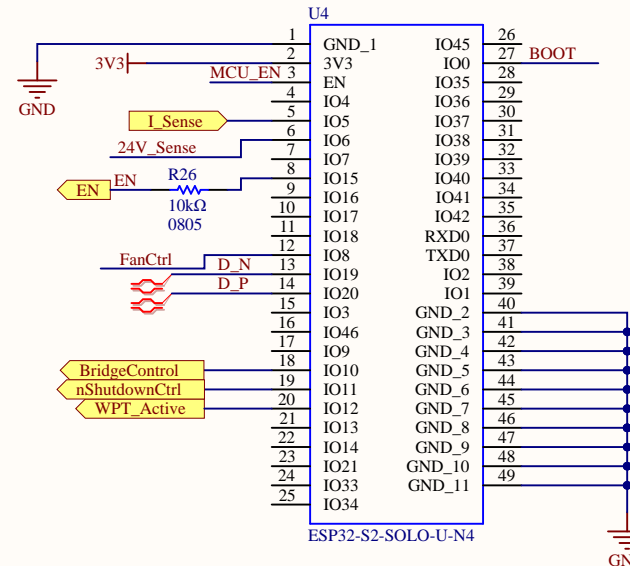
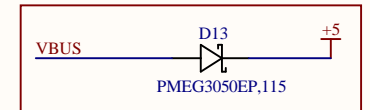
Place Close to Pin 2



USB C Connector



USB VBUS ORING Diodes



GND Pins on Bottom of ESP32-S2 Module are not strictly necessary to be soldered to PCB - but will help with thermal performance

Title		
ESP32-S2 Processor		
Size	Number	Revision
A4		
Date:	2-01-2023	Sheet of
File:	D:\Documents\...\Processor.SchDoc	Drawn By: