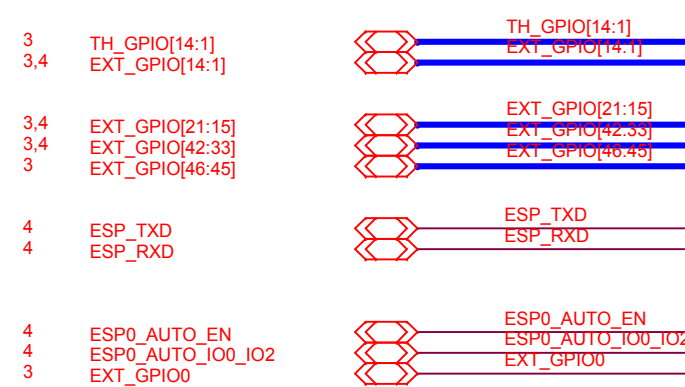
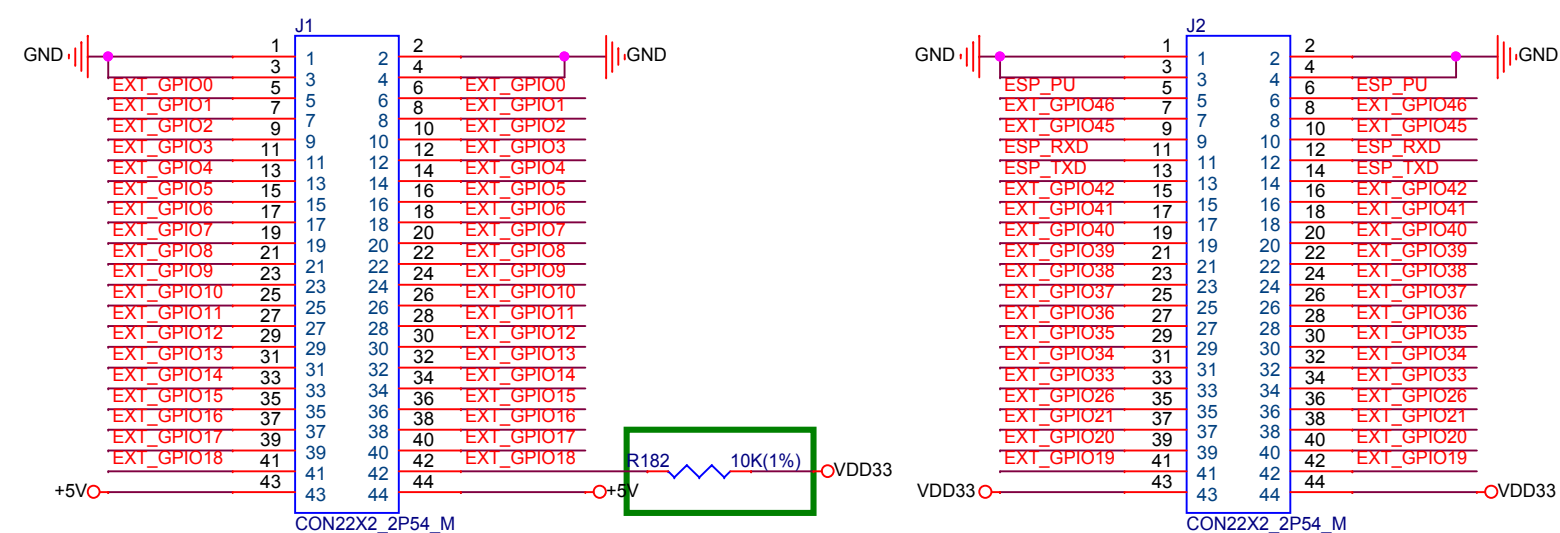


System Block:

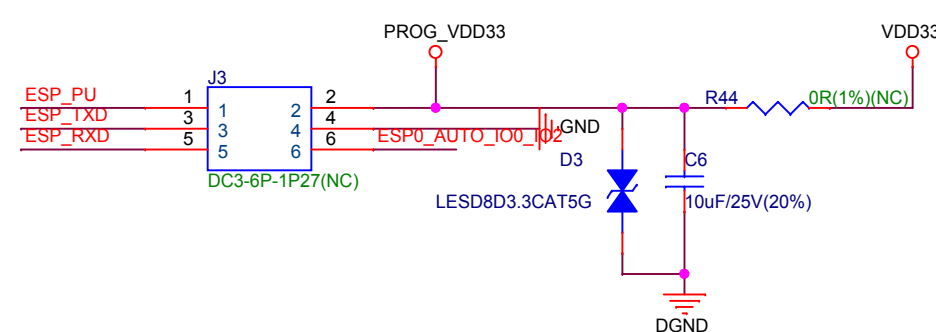
Leaving Blank



External Pin Header: 1. Default 2.54mm Pin Header;

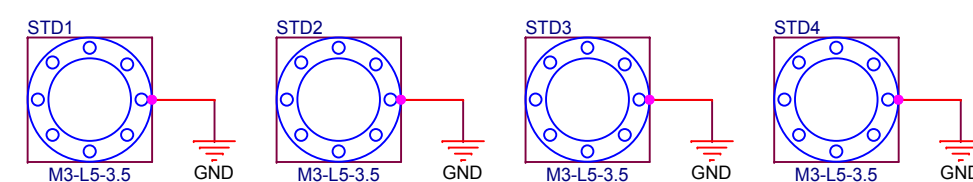


Programming CNN Reserved:

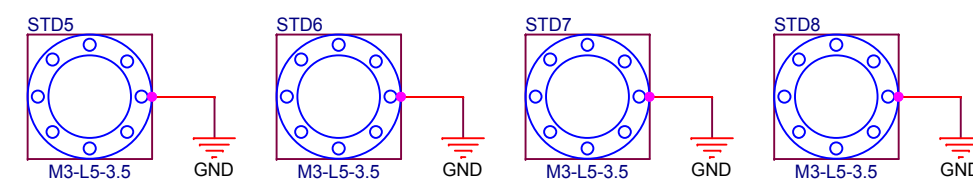


Locating Holes:

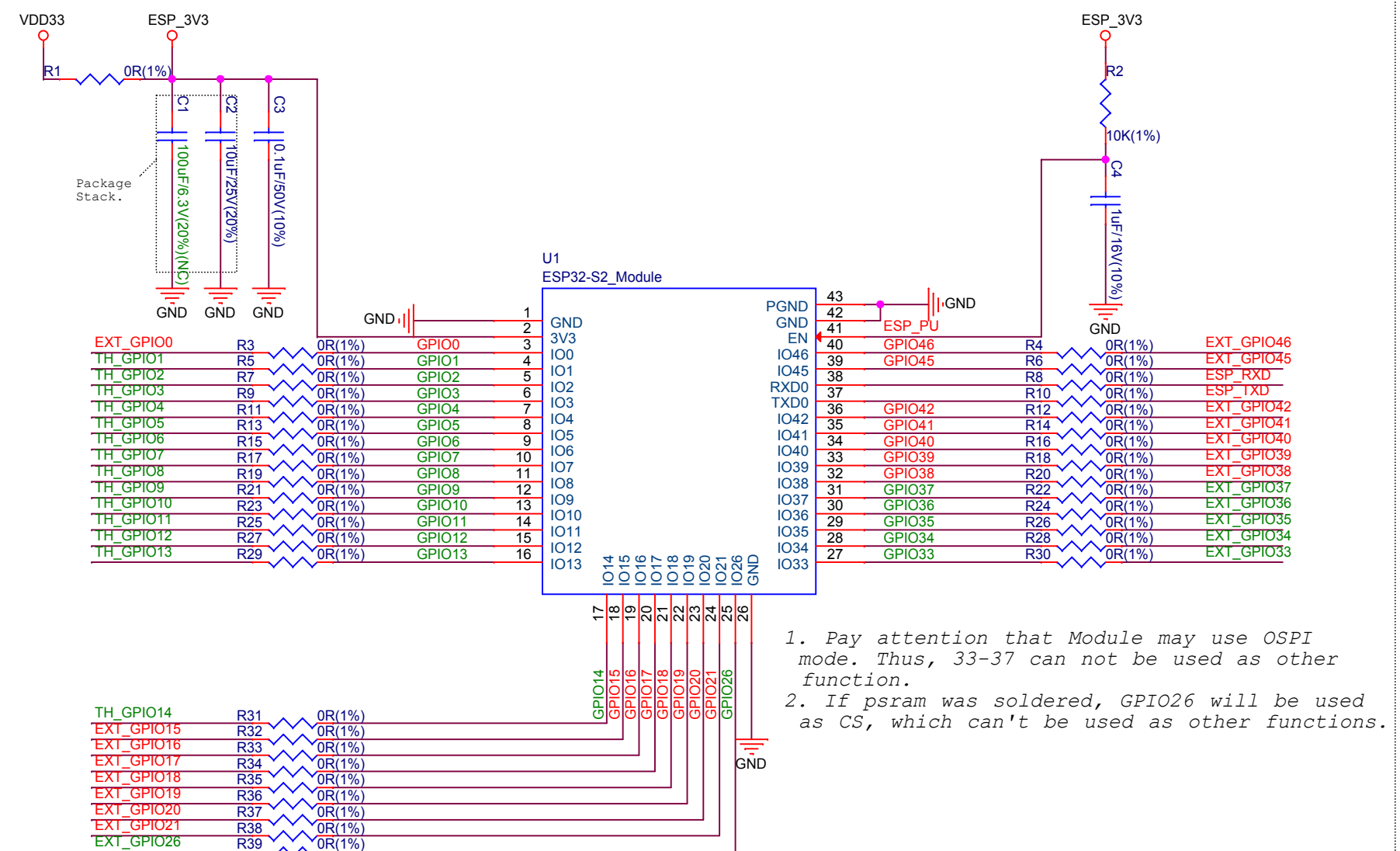
1. Supporting Motherboard;
2. Drilling vias around holes;
3. $D = 3\text{MM}$;



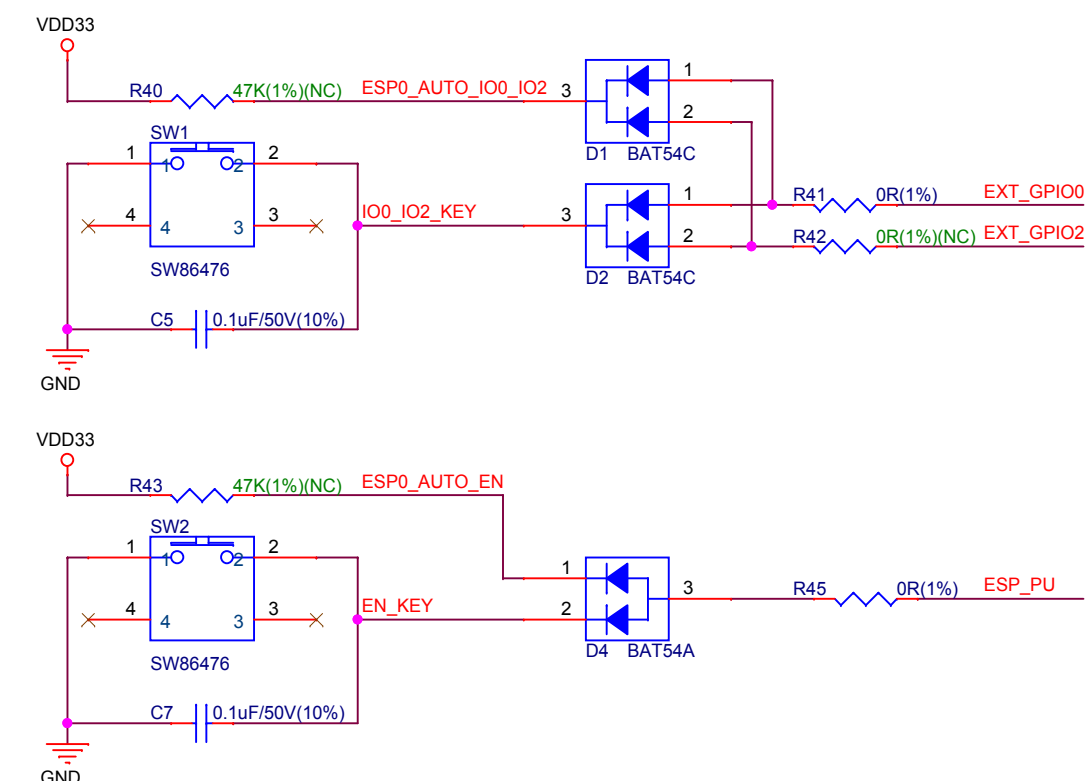
1. Supporting Daughterboards;
2. Drilling vias around holes;
3. $D = 3\text{MM}$;



ESP32-S2 Module:

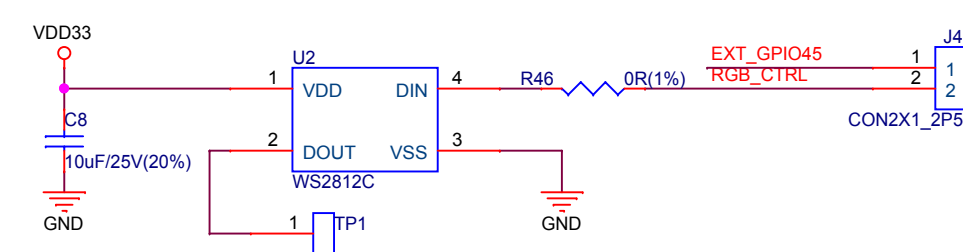


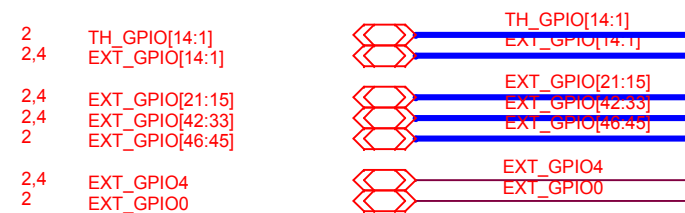
Reset
Download & Button:



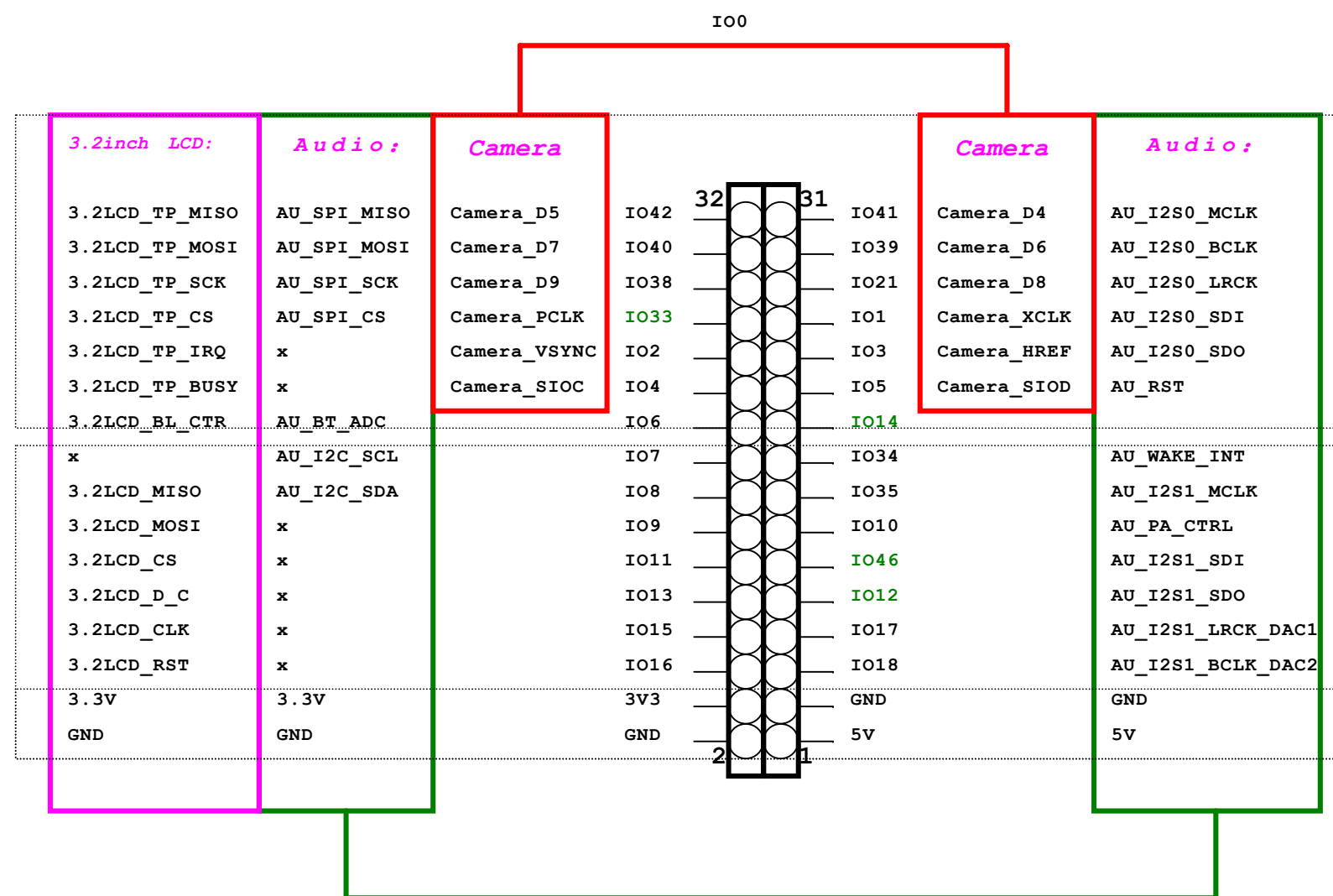
RGB LED:

1. Put J4 jumper on if wanna control RGB.



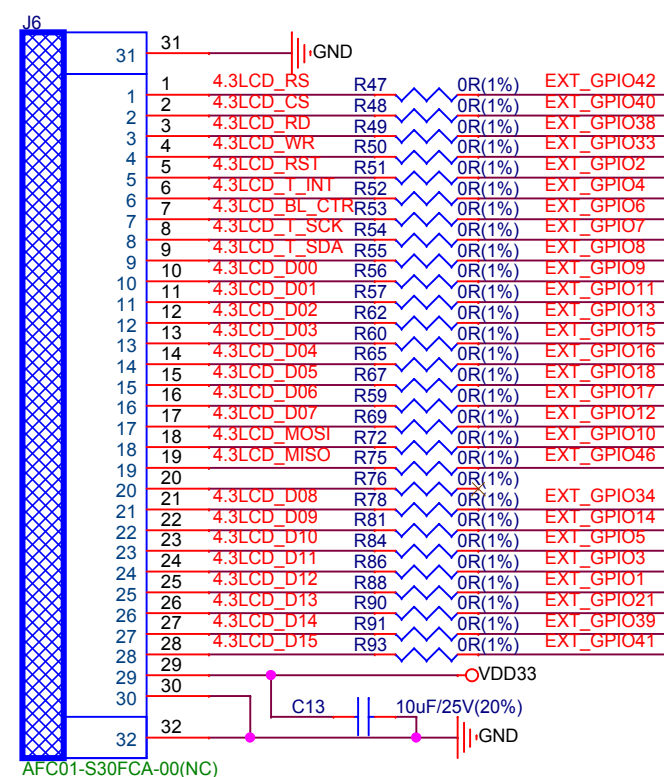


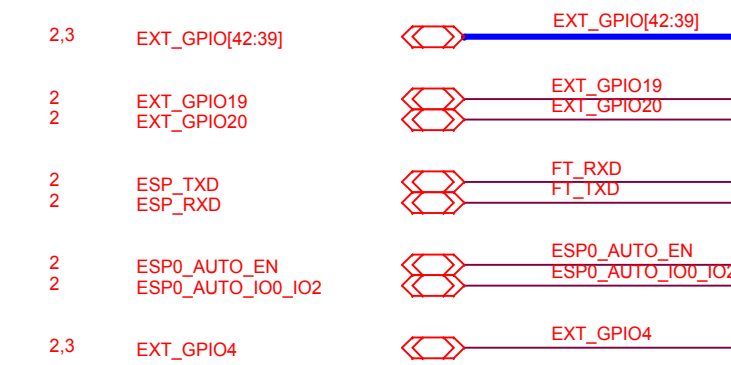
Pin Configuration for Subboard:



1. Block on right shows Pin configuration for different Subboard;

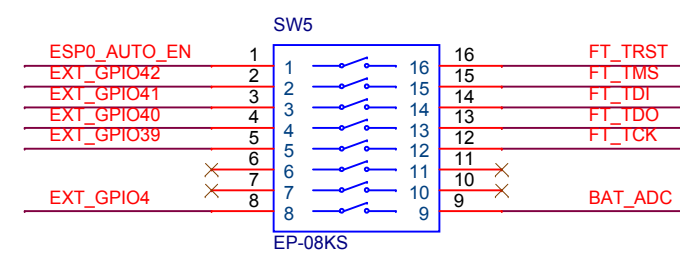
FPC for 4.3inch LCD:



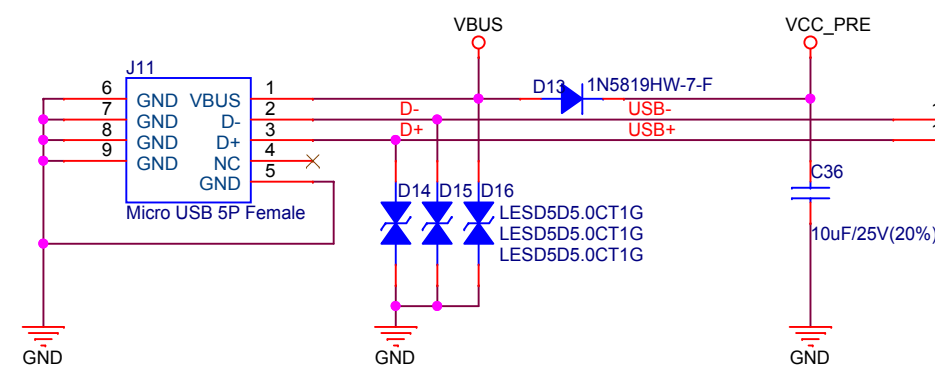
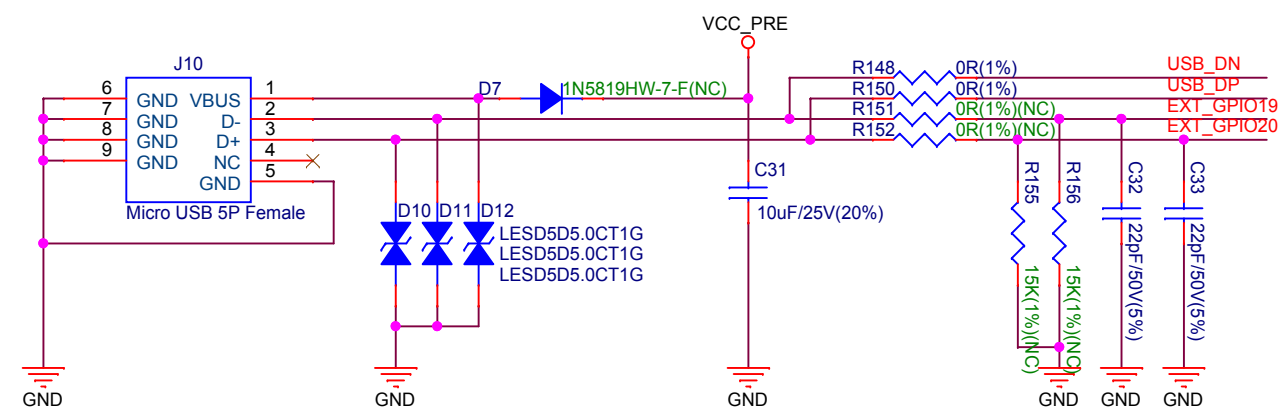


JTAG Switch:

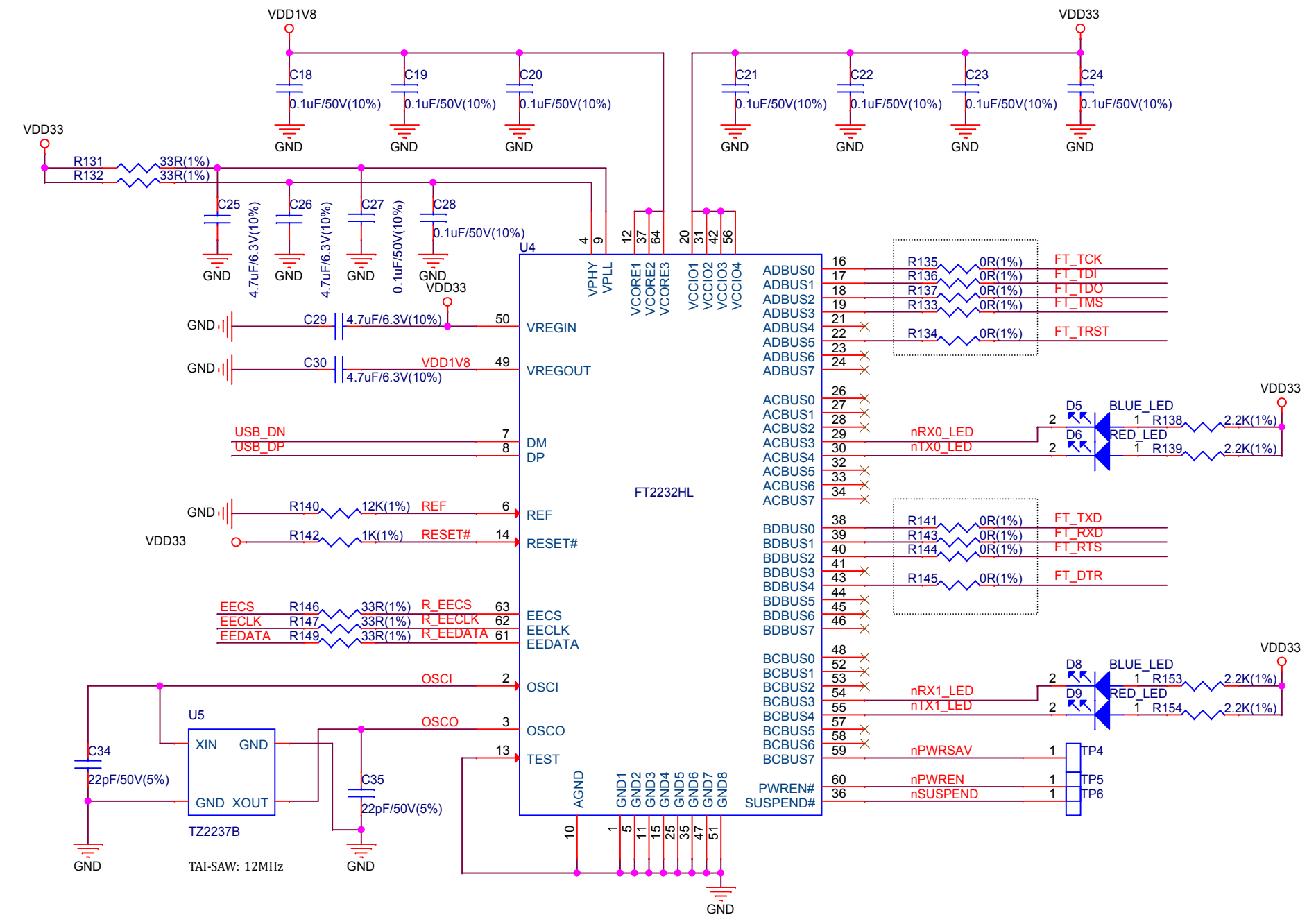
1. Switch for JTAG: default, JTAG off/NC.
2. Switch ON for JTAG debug;



USB Power&Communication:

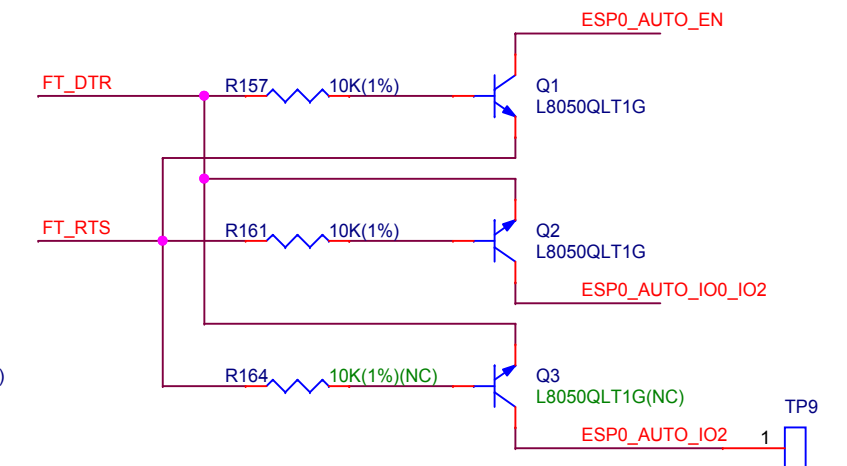
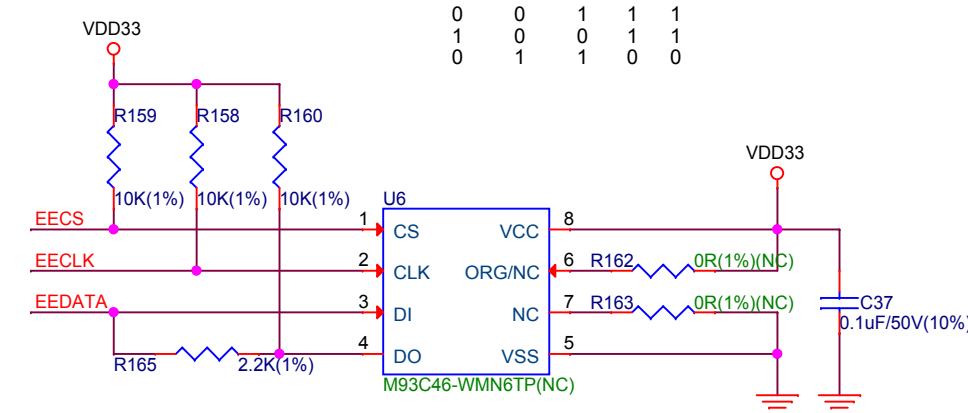


FT2232HL:

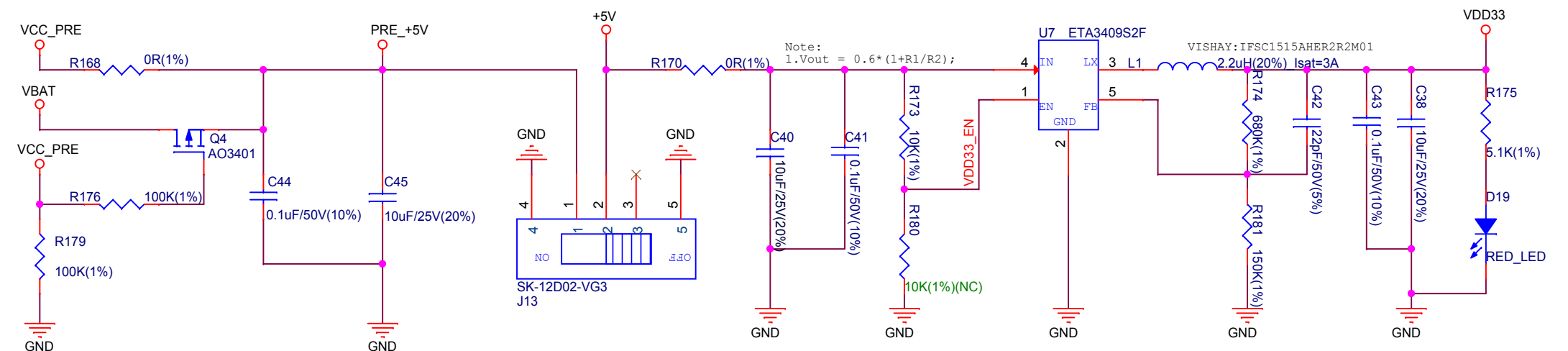
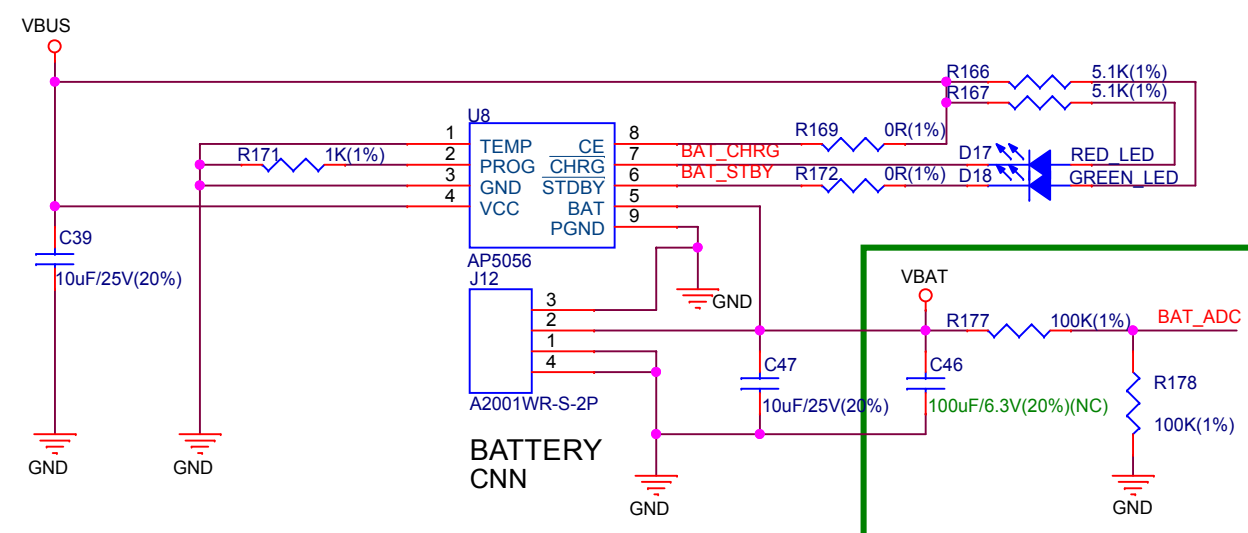


Auto program

DTR	RTS	EN	IO0	IO2
1	1	1	1	1
0	0	1	1	1
1	0	0	1	1
0	1	1	0	0



Power Charge:



ESPRESSIF

乐鑫信息科技(上海)股份有限公司

Title

ESP32-S2-Kaluga-1

Size

Document Number

C 04_Power

Date: Friday, April 24, 2020

Sheet 4 of 4

Rev

V1.2