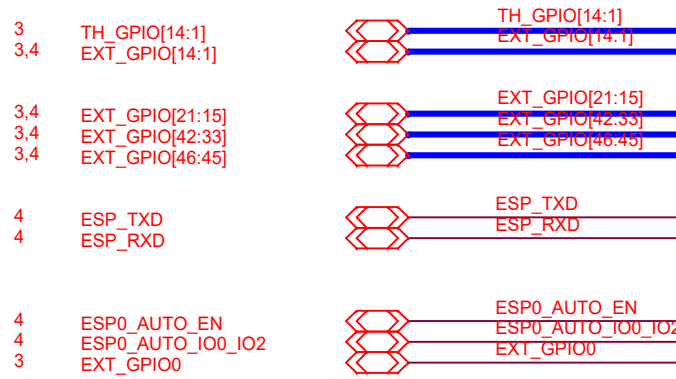
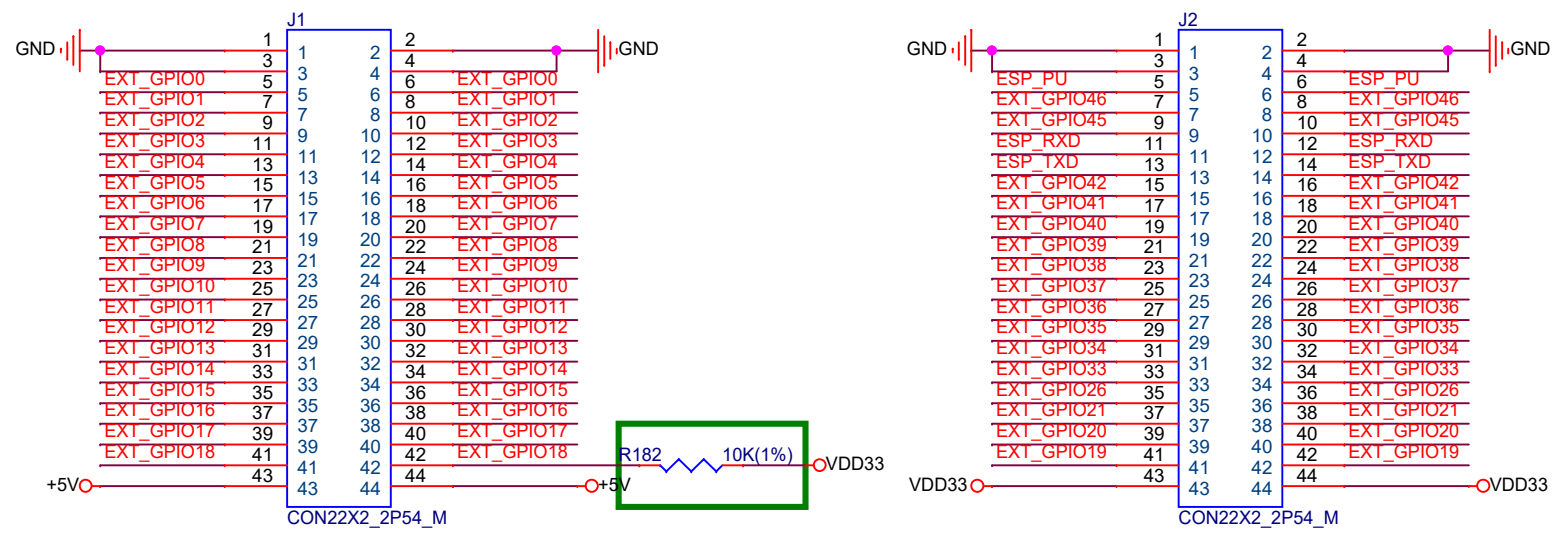


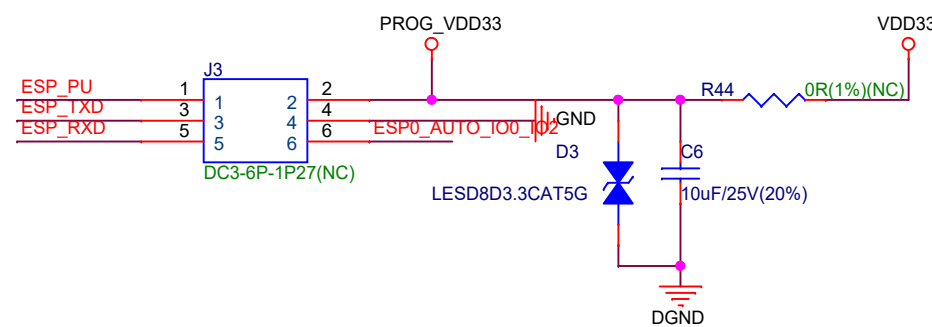
Leaving Blank



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

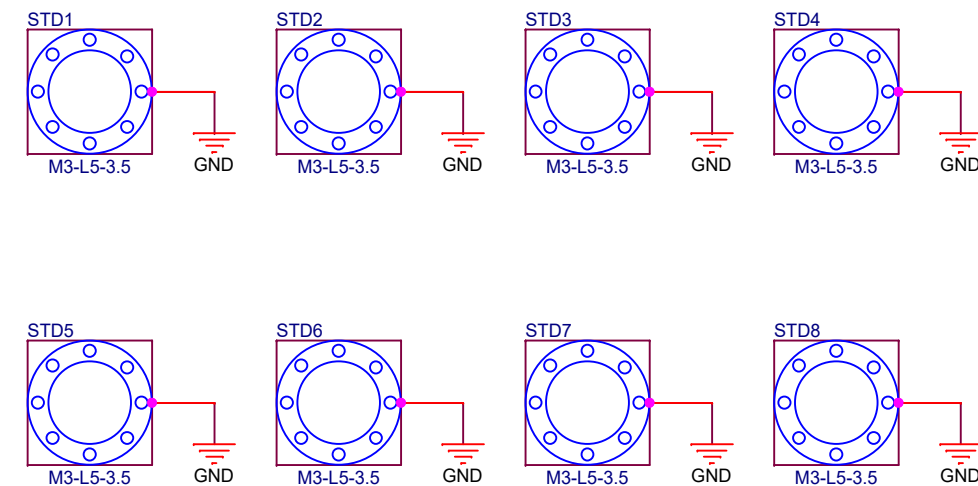


Programming CNN Reserved:



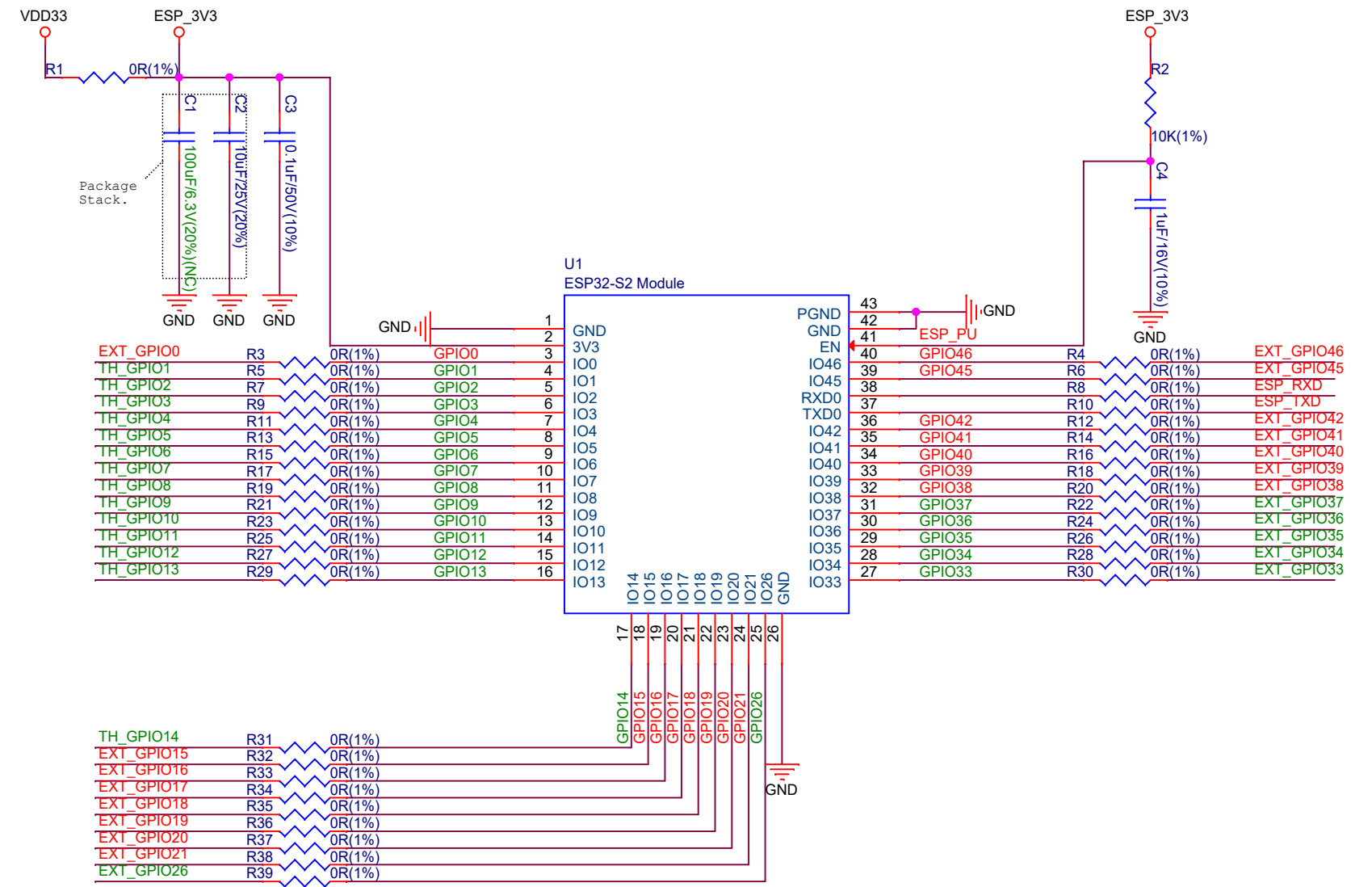
Locating Holes:

1. Supporting Motherboard;
2. Drilling vias around holes;
3. D = 3MM;

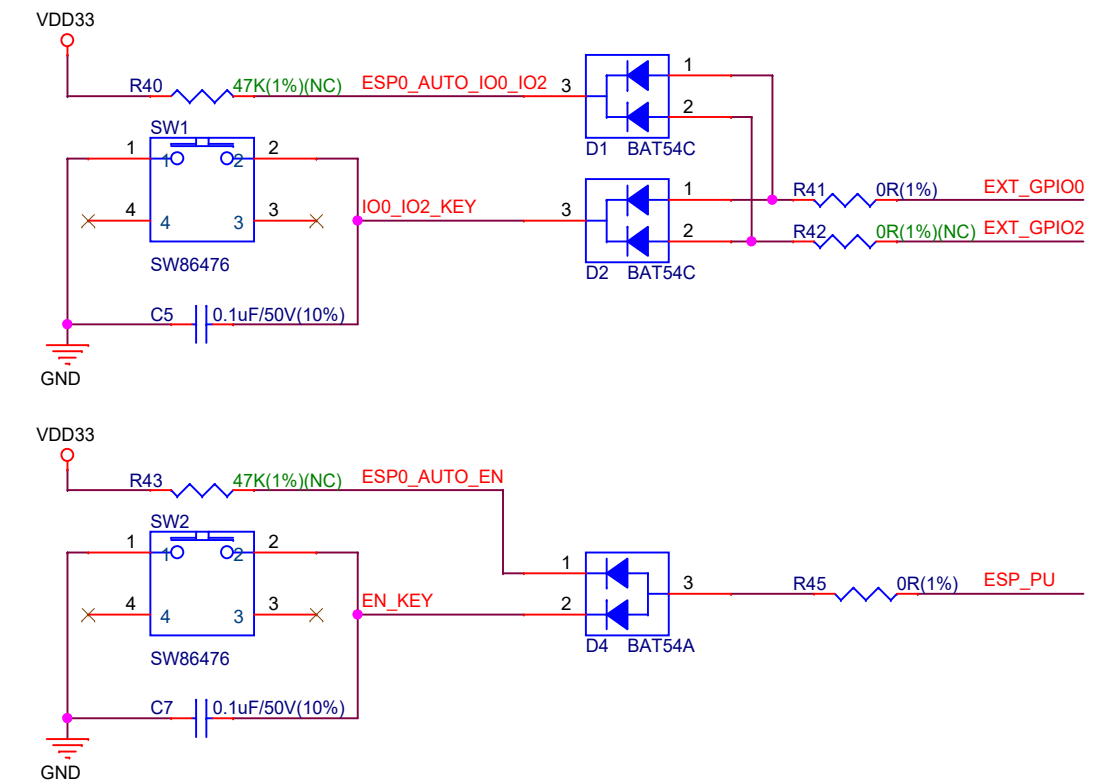


1. Supporting Daughterboards;
2. Drilling vias around holes;
3. D = 3MM;

ESP32-S2 Module:

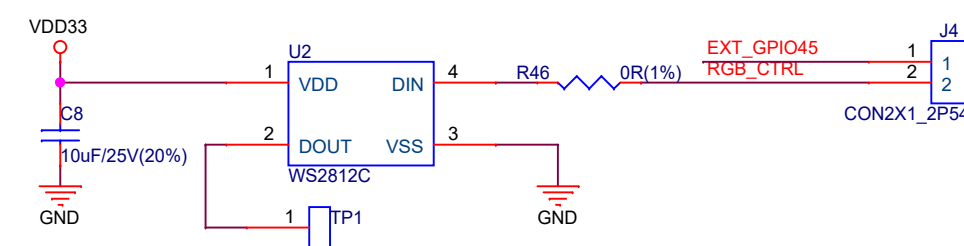


Reset Download & Button:



RGB LED:

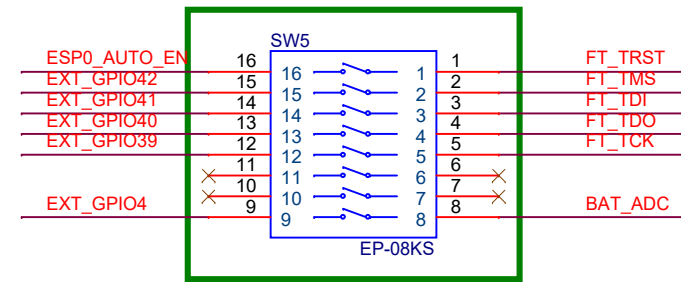
1. Put J4 jumper on if wanna control RGB.



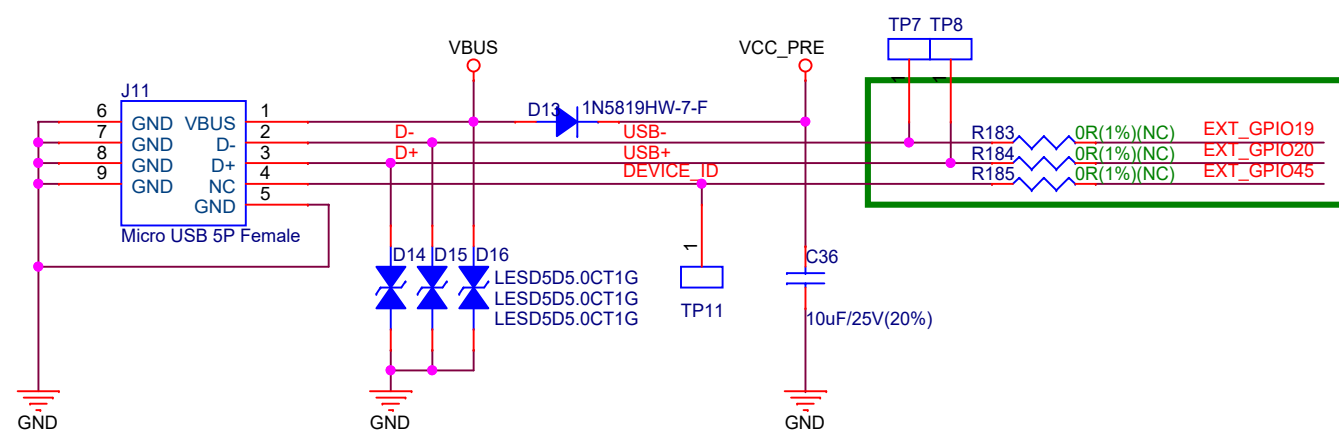
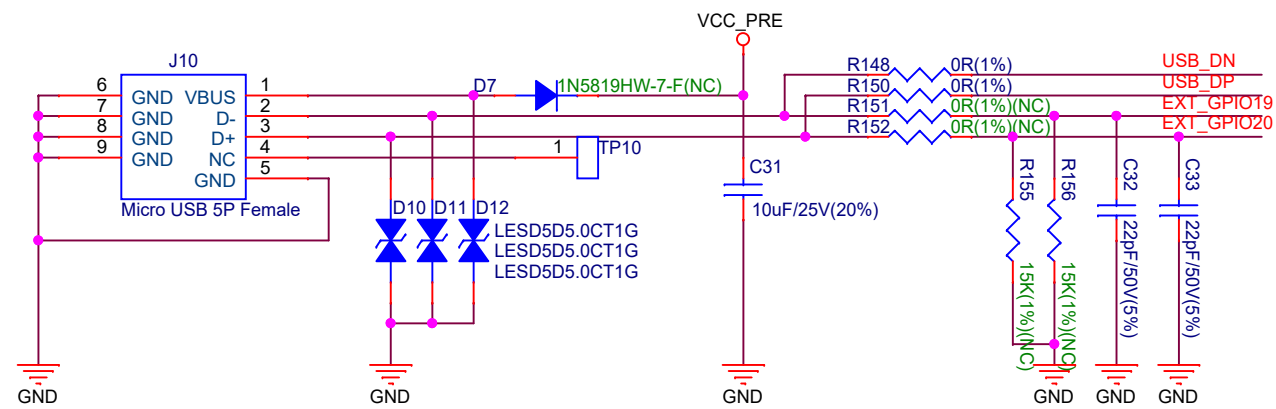
ESPRESSIF		
乐鑫信息科技(上海)股份有限公司		
Title ESP32-S2-Kaluga-1		
Size	Document Number	Rev
C	02_ESP32-S2	V1.3
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JTAG Switch:

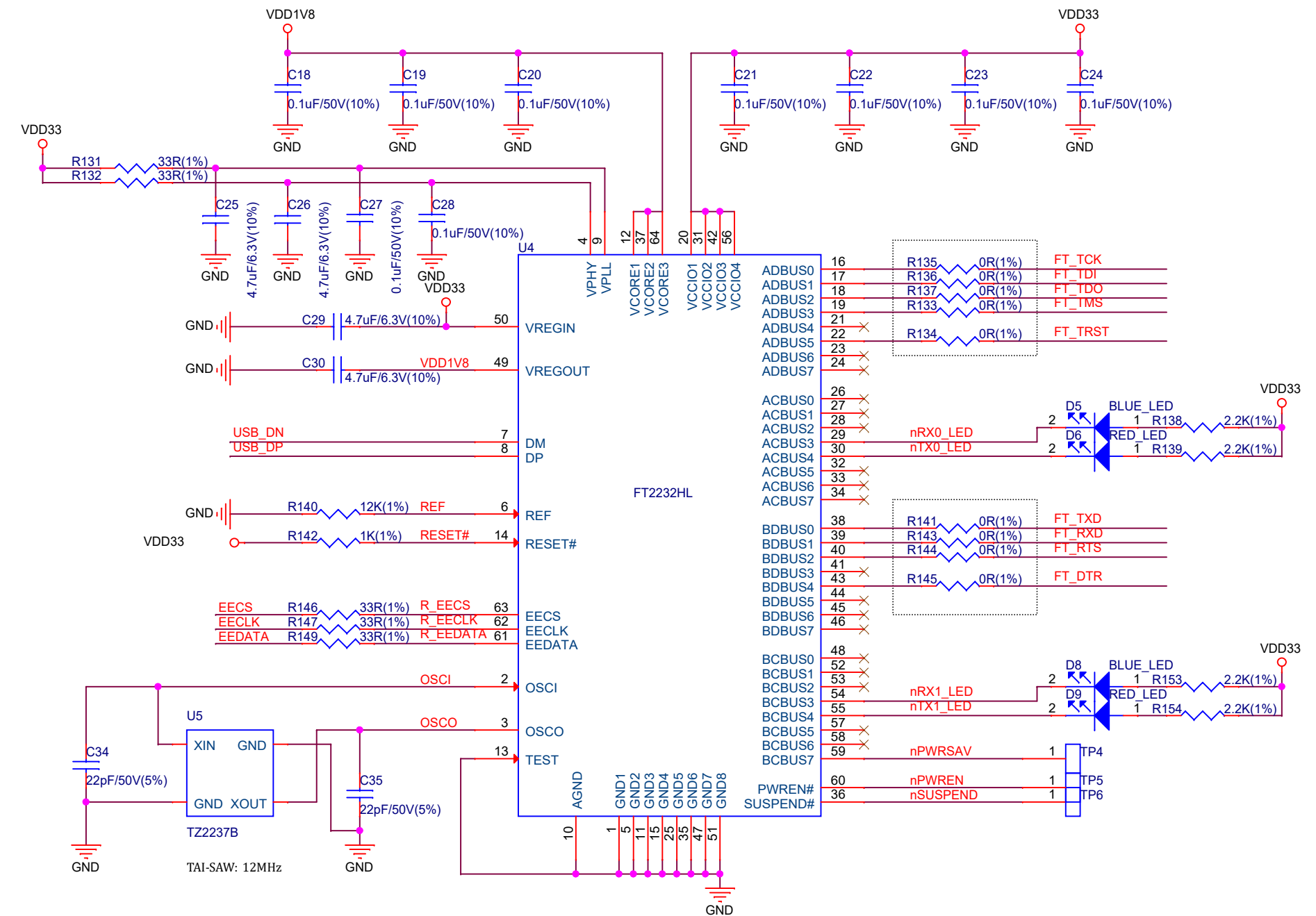
1. Switch for JTAG: default, JTAG off/NC.
2. Switch ON for JTAG debug;



USB Power&Communication:

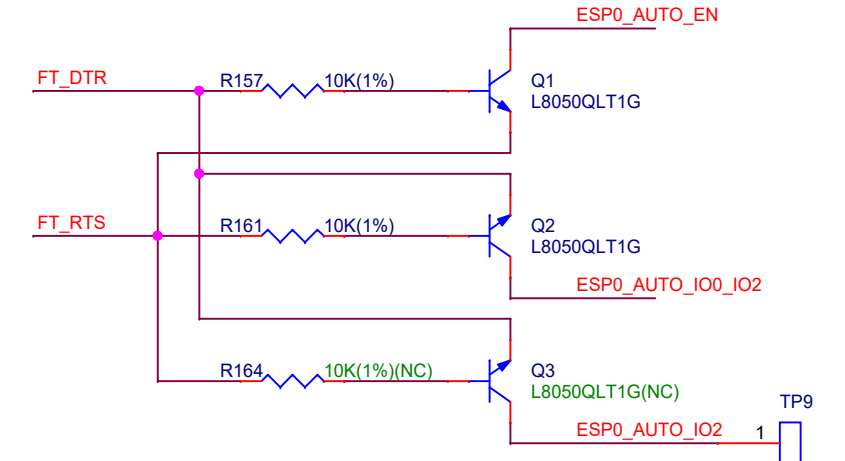
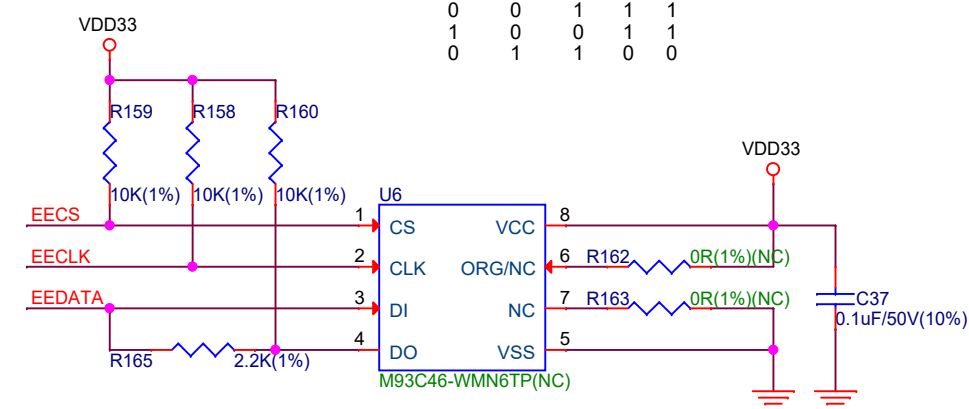


FT2232HL:

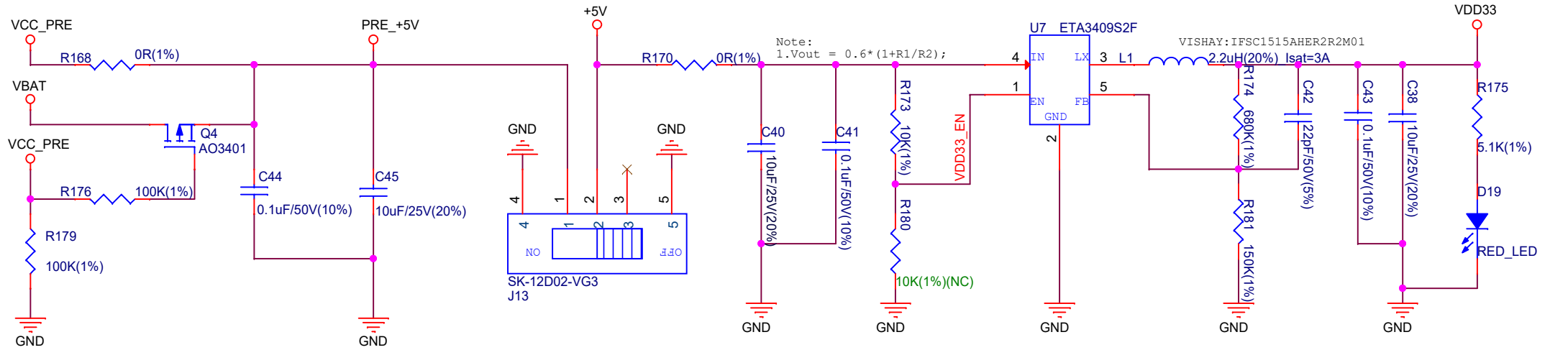
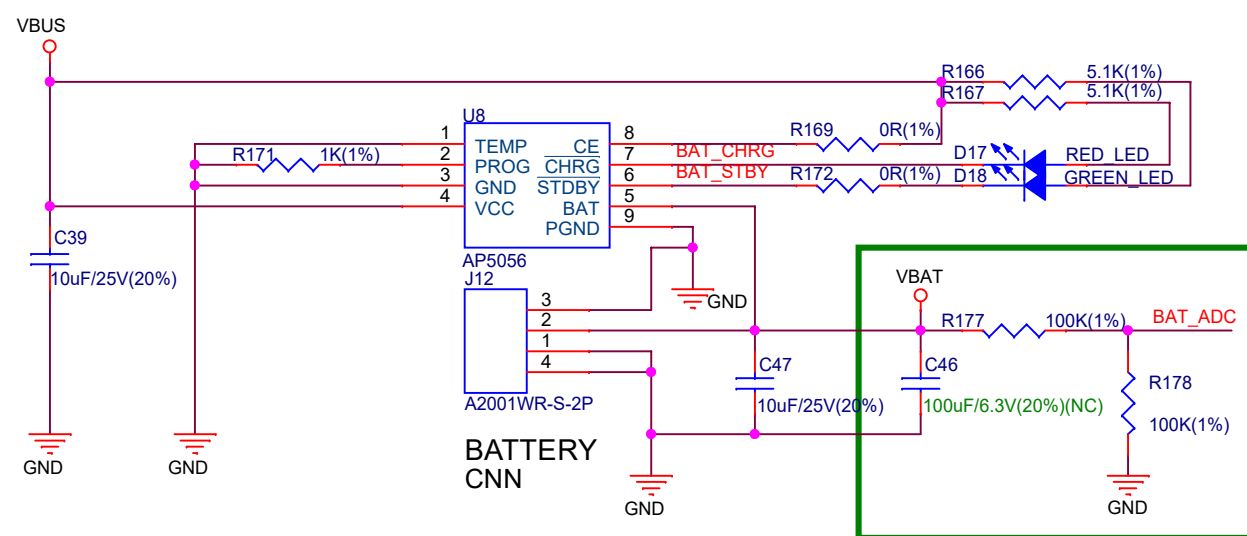


Auto program

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:



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