

1	2	3	4	5	6
A					
Table of Content					

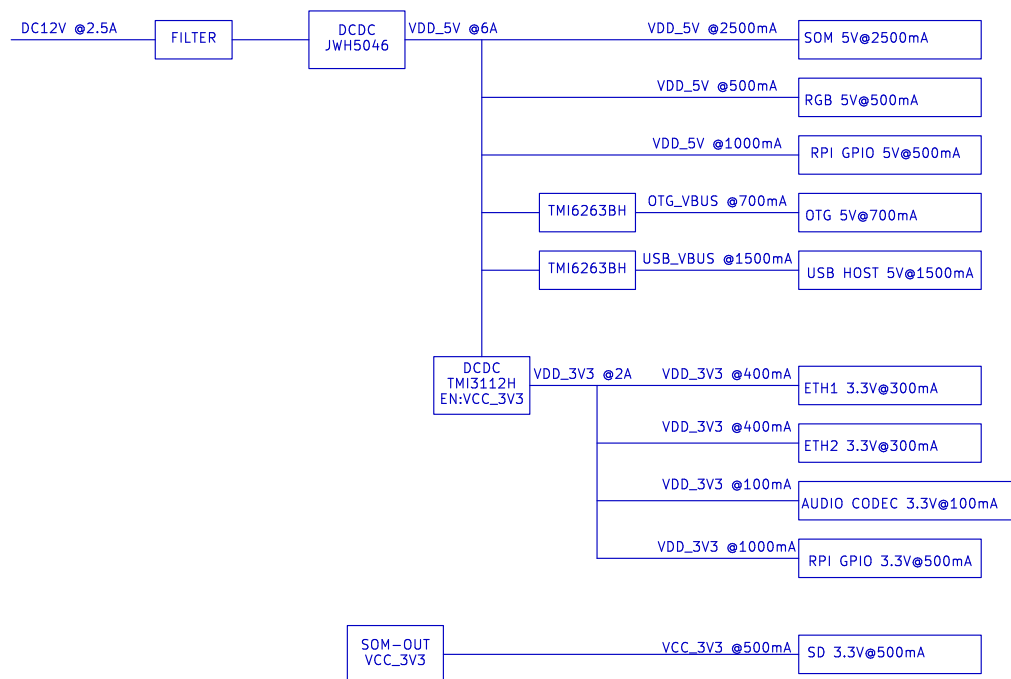
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SOM		GPIO			
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POWER		KEY&LED			
File: POWER.kicad_sch		File: KEY&LED.kicad_sch			
RGB					
File: RGB.kicad_sch					
ETH1					
File: ETH1.kicad_sch					
ETH2					
File: ETH2.kicad_sch					
TF_CARD					
File: TF_CARD.kicad_sch					
DEBUG					
File: DEBUG.kicad_sch					
OTG&USB					
File: OTG&USB.kicad_sch					
AUDIO					
File: AUDIO.kicad_sch					
B					
Revision History					
V1.0-2025.08-14-WJ 1、初始版本。					
C					
D					
1	2	3	4	5	6

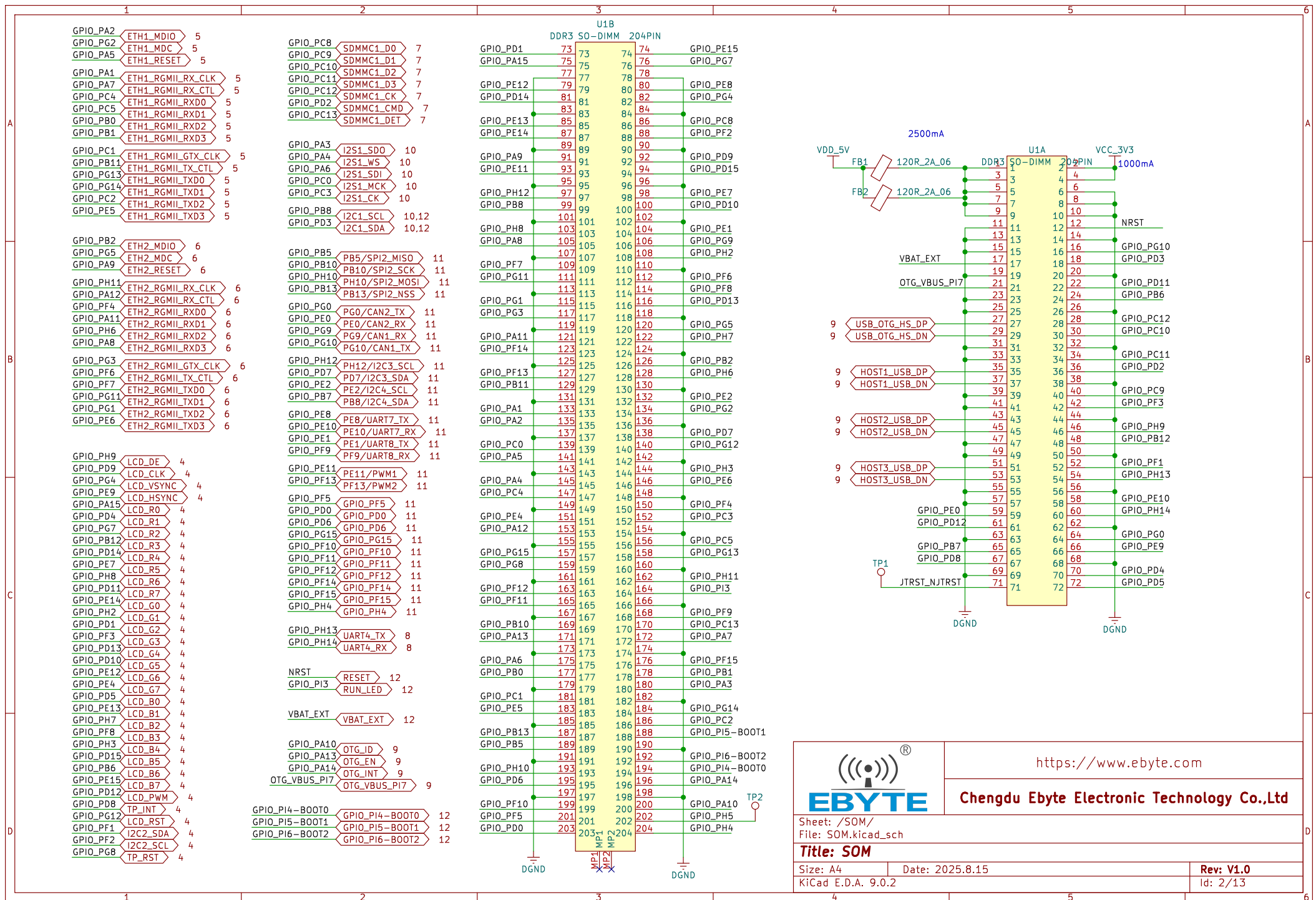
30037

P2025-EC008

Revision History

V1.0-2025.08-14-WJ 1、初始版本。





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Sheet: /SOM/
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Title: SOM

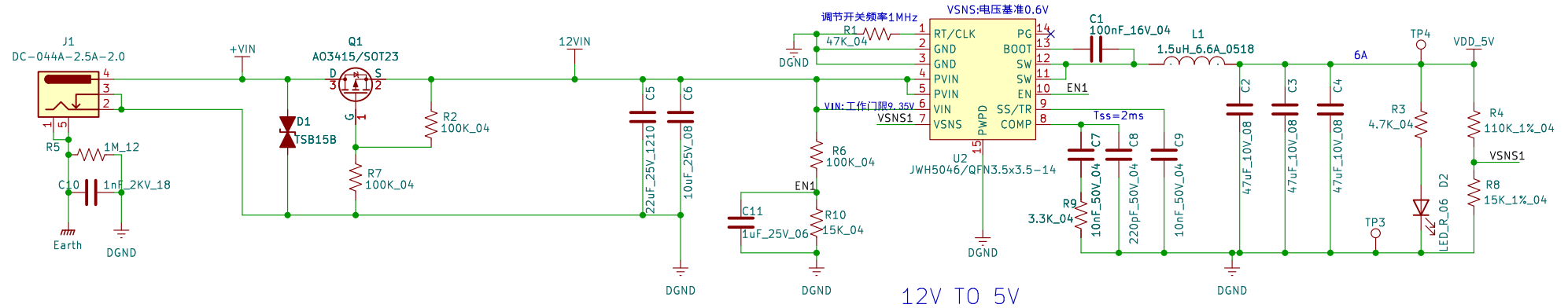
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KiCad E.D.A. 9.0.2

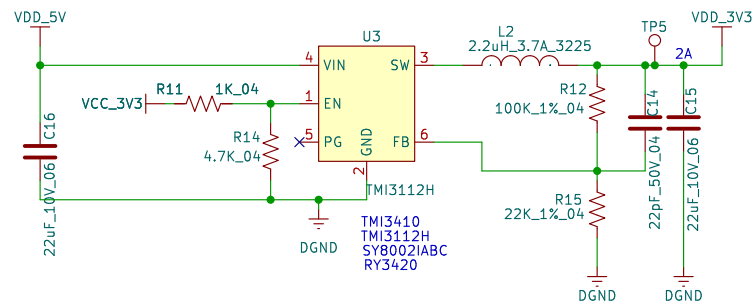
Rev: V1.0

Id: 2/13

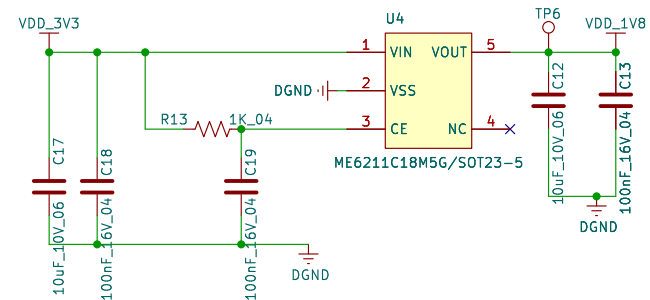
12V TO 5V



5V TO 3.3V



3.3V TO 1.8V



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Sheet: /POWER/
File: POWER.kicad_sch

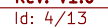
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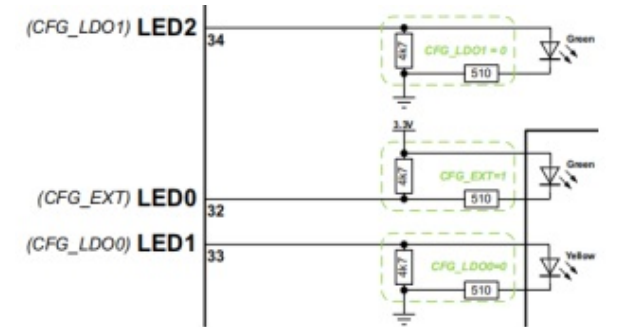
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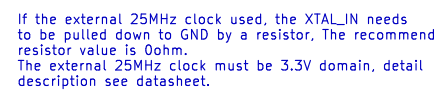
Rev: V1.0

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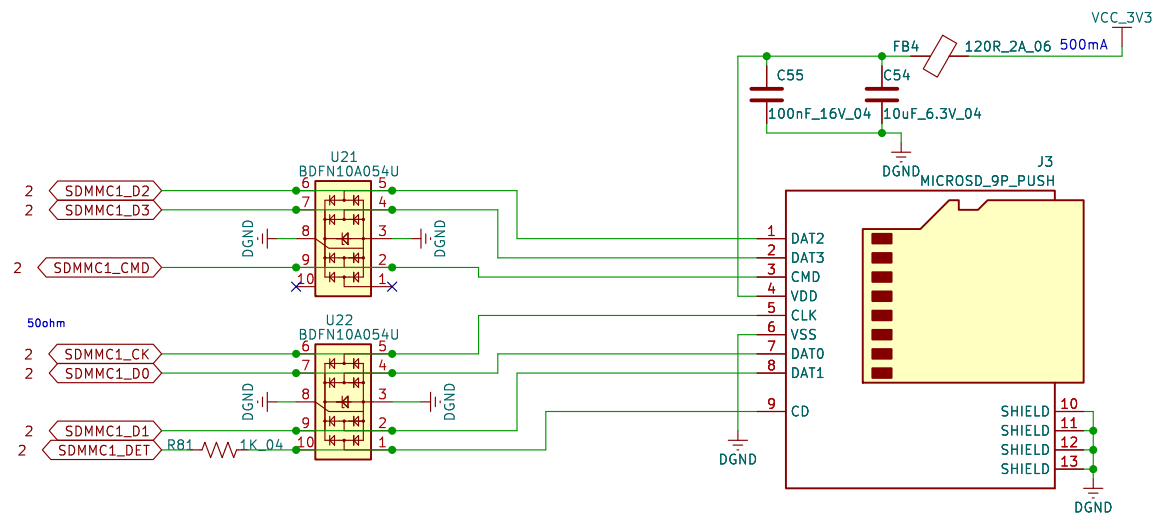


EXT: external power source.
LDO: 3.3V.



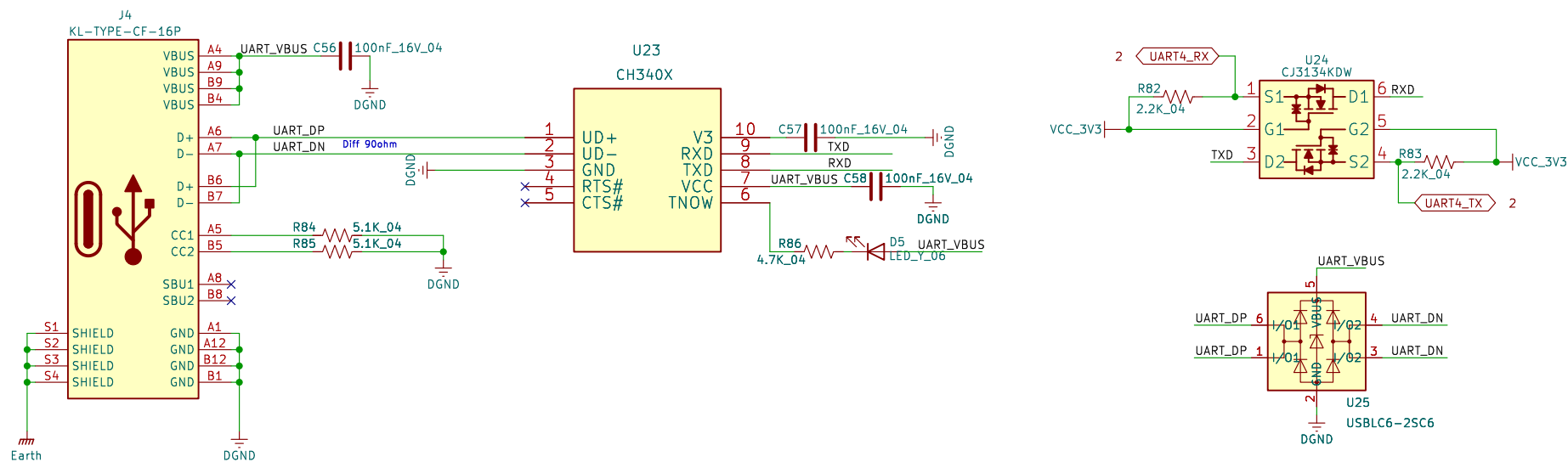
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KiCad E.D.A. 9.0.2



TF CARD

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Sheet: /TF CARD/ File: TF CARD.kicad_sch		
Title: TF CARD		
Size: A4	Date: 2025.8.15	Rev: V1.0
KiCad E.D.A. 9.0.2	Id: 7/13	



DEBUG_UART



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Sheet: /DEBUG/
File: DEBUG.kicad_sch

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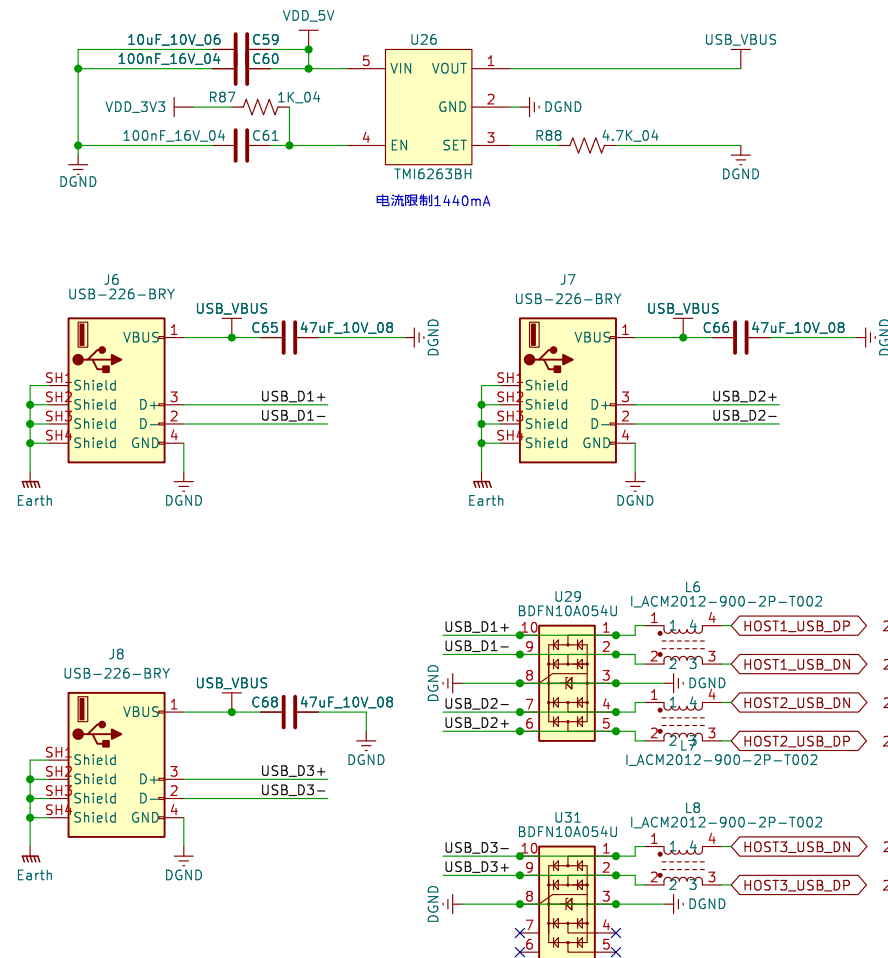
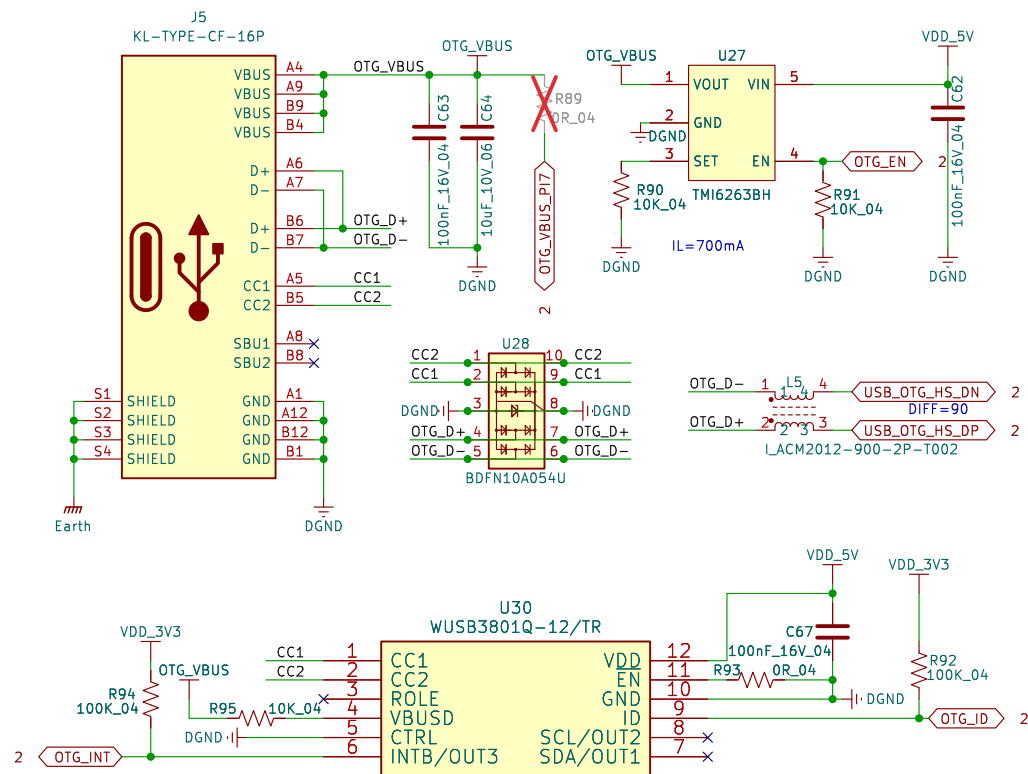
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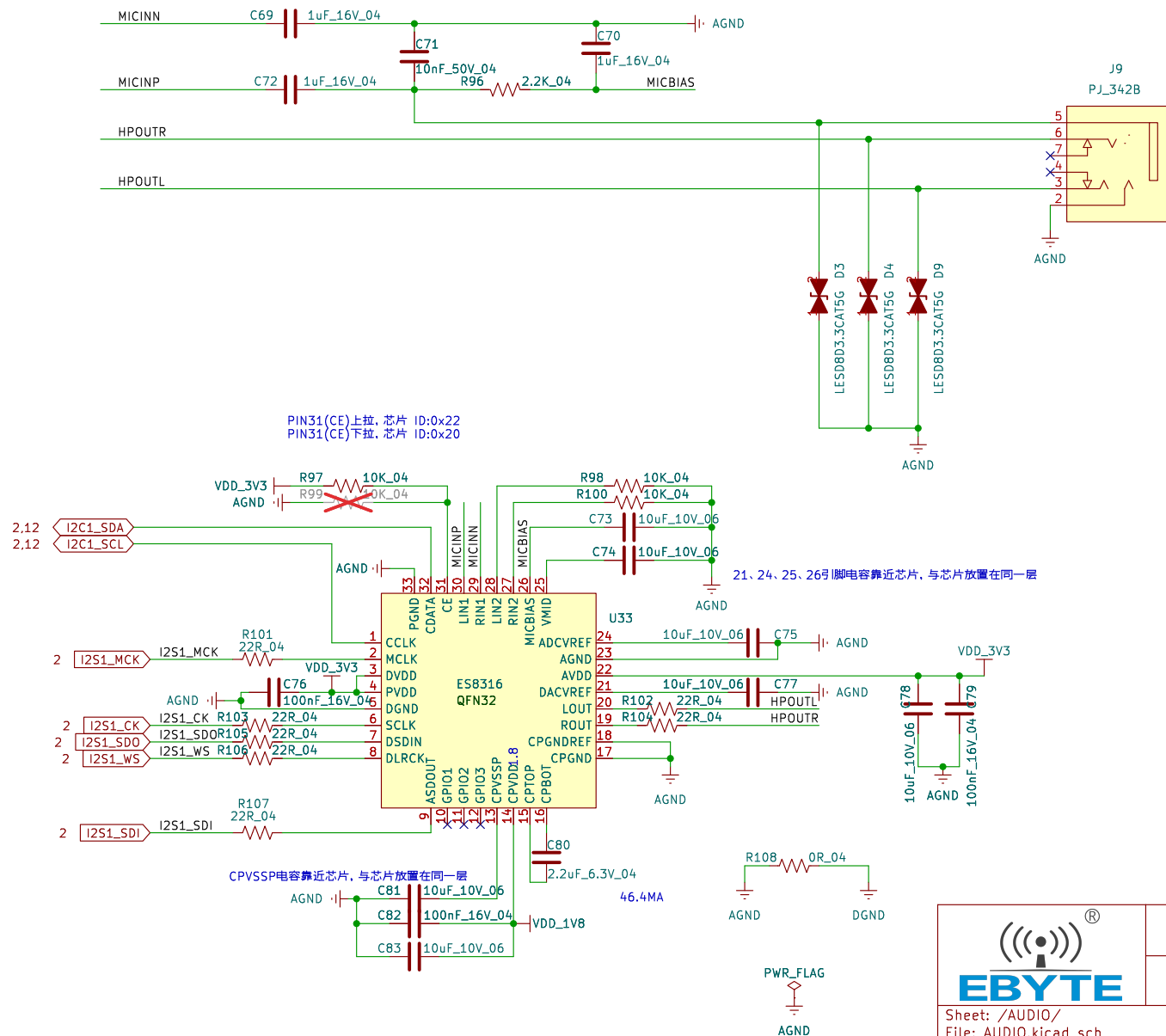
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KiCad E.D.A. 9.0.2

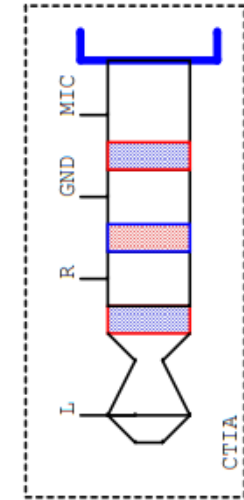
Rev: **V1.0**

Id: 8/13

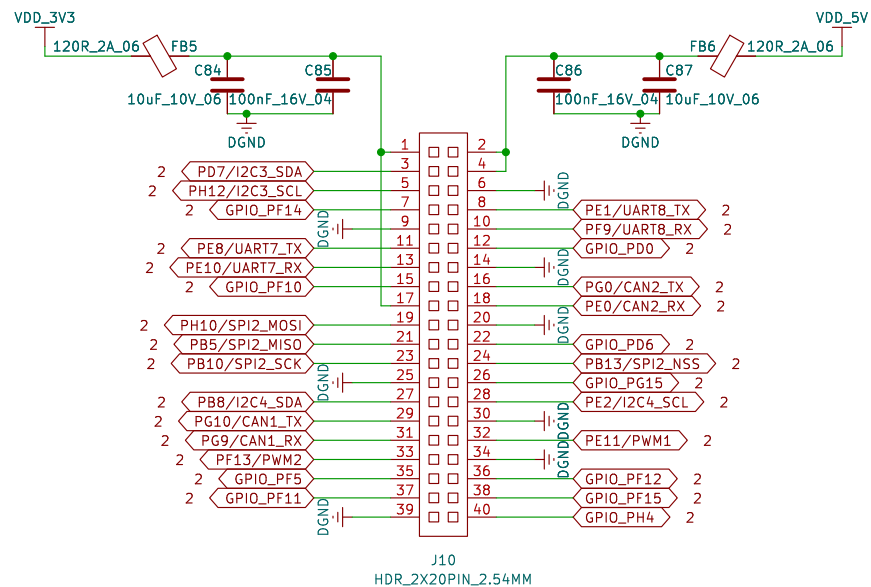




AUDIO

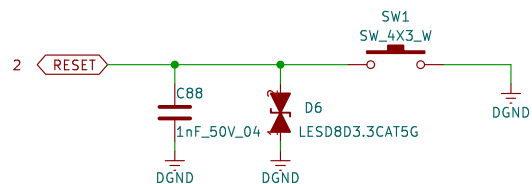


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Title: AUDIO		
Size: A4	Date: 2025.8.15	Rev: V1.0
KiCad E.D.A. 9.0.2		Id: 10/13



Raspberry Pi Connector

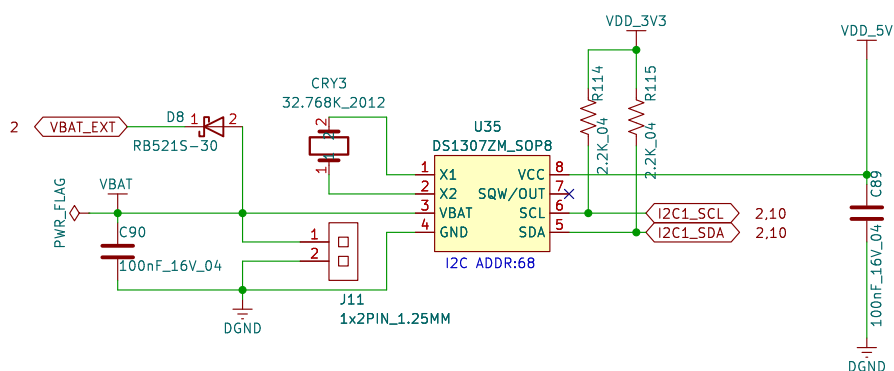
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	Chengdu Ebyte Electronic Technology Co.,Ltd	
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KiCad E.D.A. 9.0.2		Id: 11/13



KEY



LED



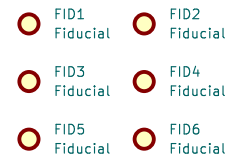
RTC



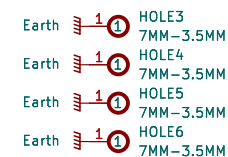
SOM Hole



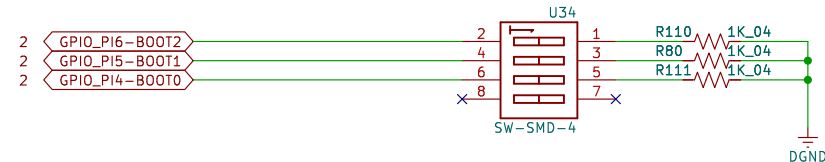
Raspberry Pi Hole



Fiducial Marks



Board Mechanical Hole



B2	B1	B0	Initial boot mode	
0	0	0	UART and USB	
0	1	0	eMMC	
0	1	1	Nand Flash	Don't use
1	0	1	SD Card	
1	1	0	UART and USB	

BOOT



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Sheet: /KEY&LED/
File: KEY&LED.kicad_sch

Title: KEY&BOOT&LED

Size: A4 Date: 2025.8.15
KiCad E.D.A. 9.0.2

Rev: V1.0
Id: 12/13