

COVER

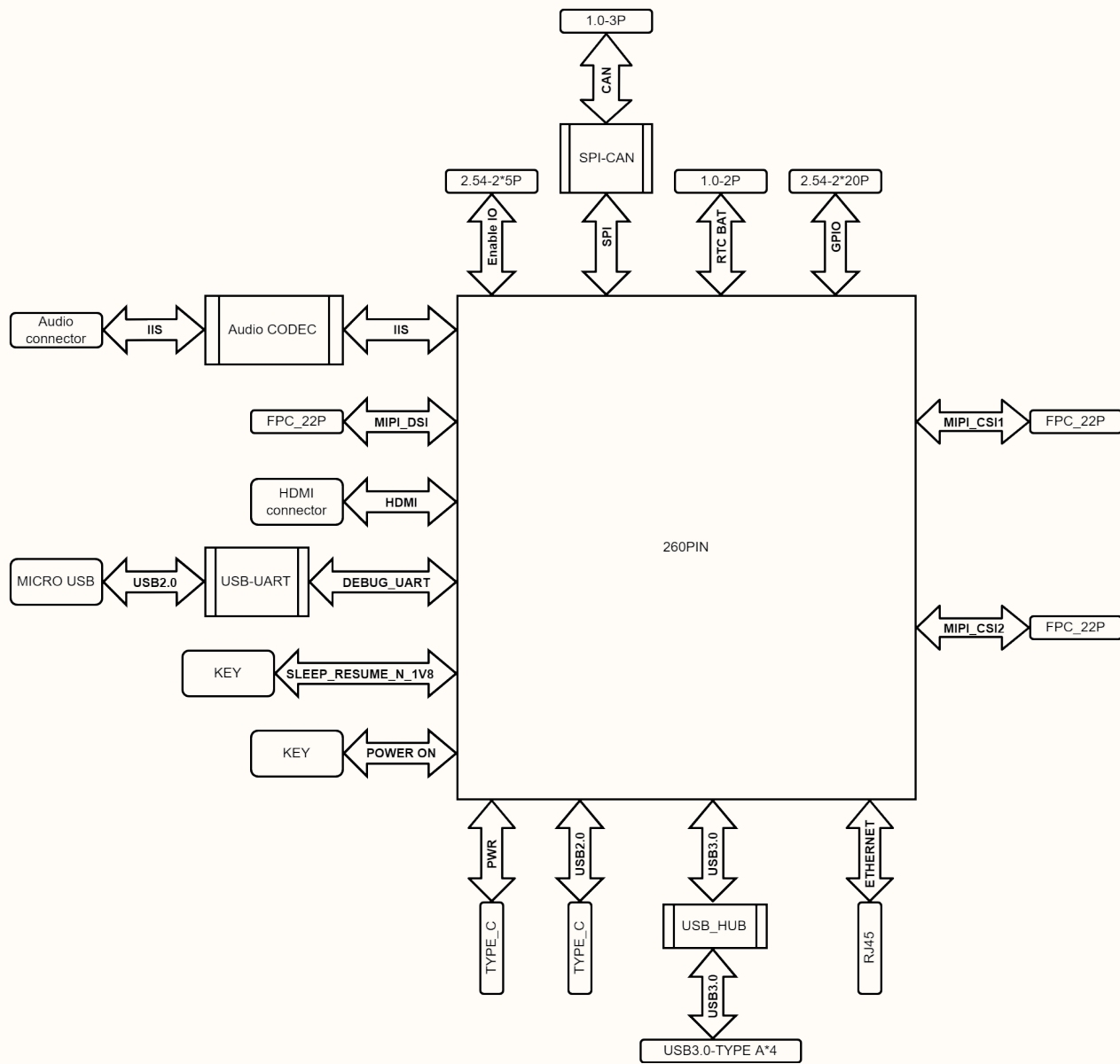
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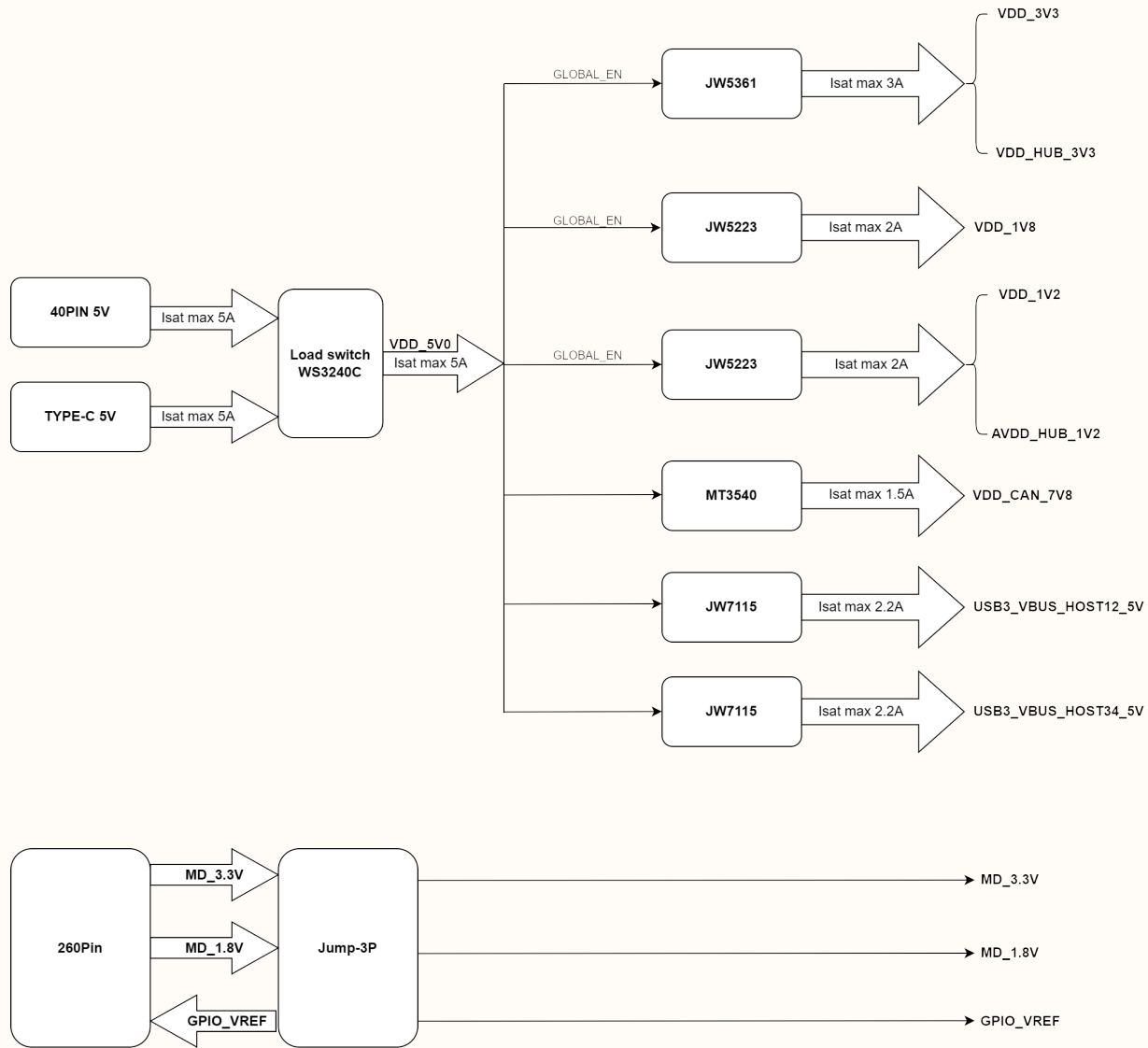
Revision History

Rev. Code	Description
V0.1	Initial release, under development and verification
V0.2	The pin definitions of the 260-pin interface have been modified (PIN224, 226, 232, 234, 236), which are incompatible with Version V0.1.
V0.3	Modify the USB2.0 HostDevice Selection design.
V1.0	1. Modify the USB2.0 HostDevice Selection design. 2. Add R130 to identify booting from emmc. 3. The P and N data exchange of D2 and D3 in CAM2.
V1.1	Update some notes and network names, no changes to electrical connections.

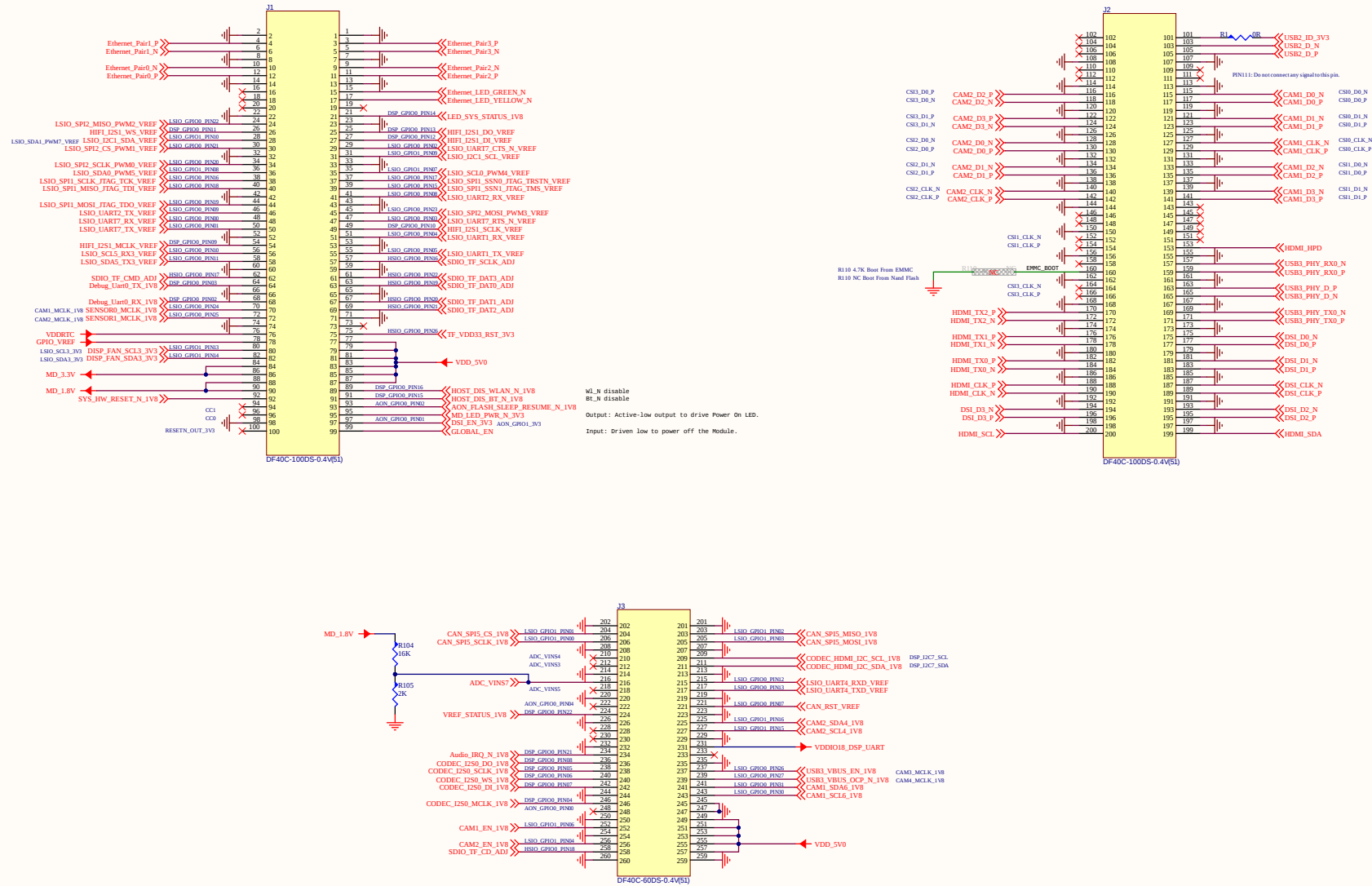
BLOCK



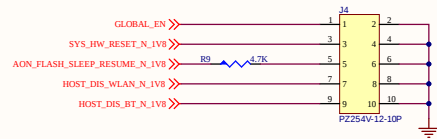
POWER_TREE



260 Pins Connector



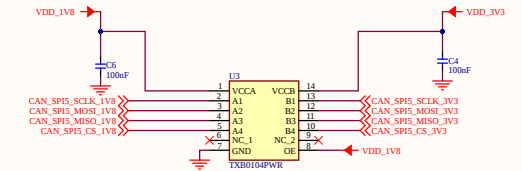
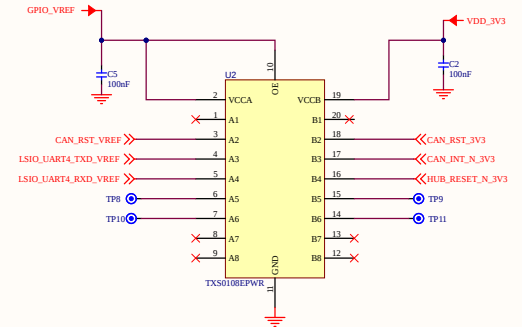
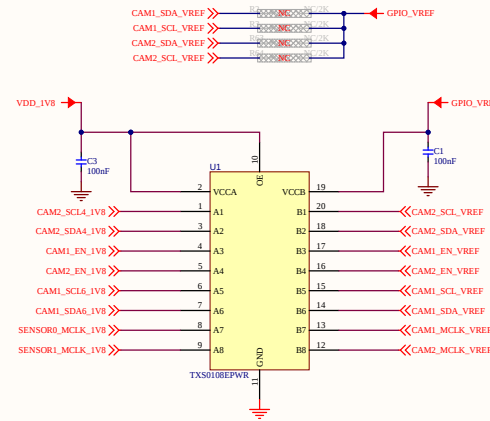
Mode SEL



VDD_5V0 → GLOBAL_EN

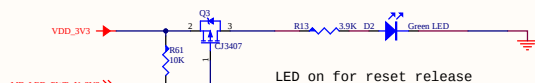
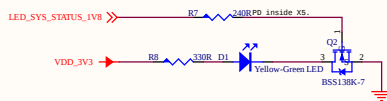
GLOBAL_EN is low, and all power to the module is turned off.

IO Level Shifter

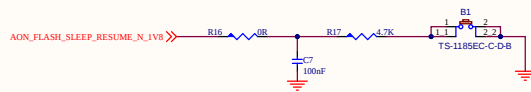


LED

Module Sate LED: running, flashing

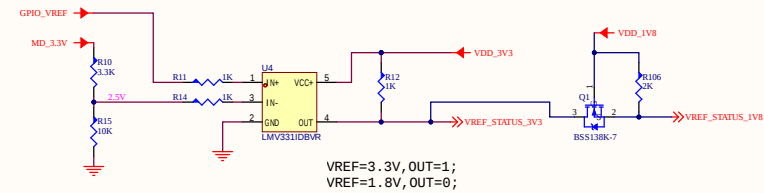
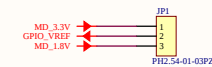


LED on for reset release



VREF SEL

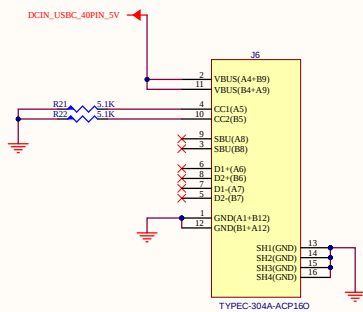
GPIO_VREF default 3V3, optional 1V8
(Requires 1V8 level software for the module)



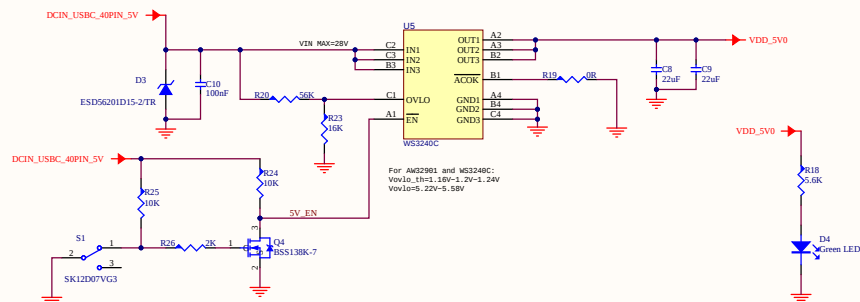
VREF=3.3V, OUT=1;
VREF=1.8V, OUT=0;

Title:	D-Robotics			
Project:	RDK_X5_MD_Carrier_Board_V1P1			
File:	P05_LED_LEVEL_SHIFTER.SchDoc			
Page Size:	A2	Rev:	V1.1	
Design by:	D-Robotics Hardware Team	Sheet:	5	of 13
Date:	2025/10/29			

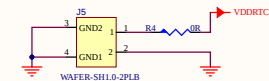
USB-C POWER (MAX 5A@5V)



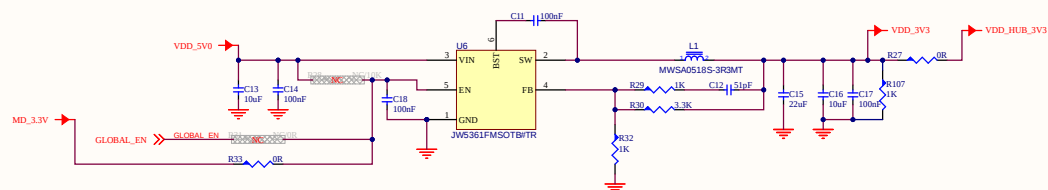
DC INPUT OVP



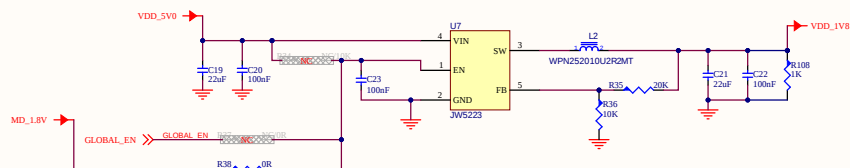
RTC BATT



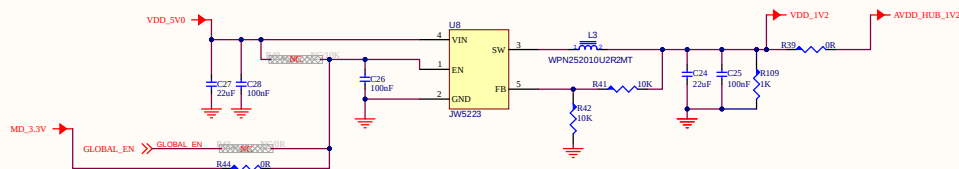
VDD_3V3



VDD_1V8

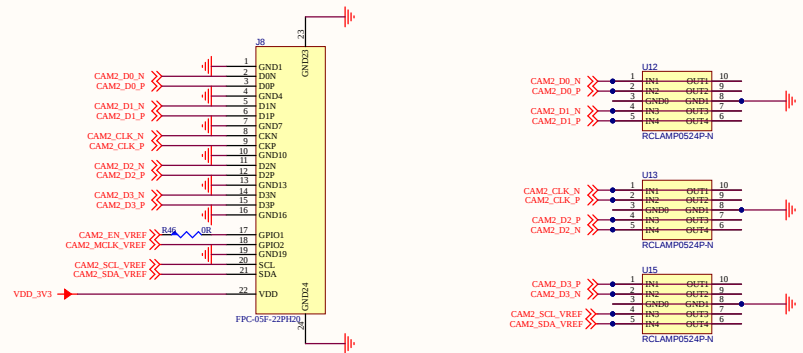
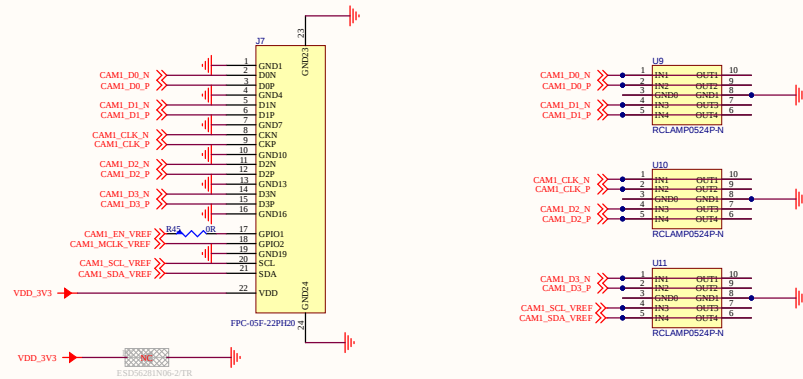


VDD_1V2

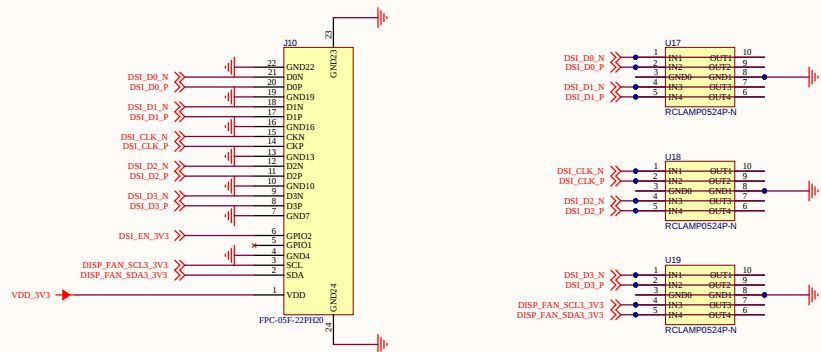


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Date:	2025/10/29		

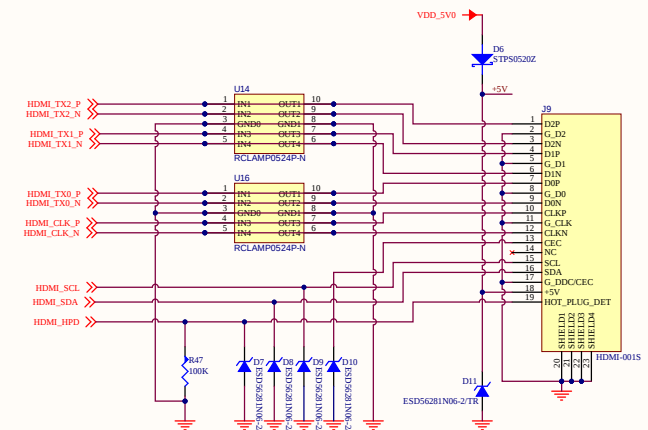
MIPI CSI



MIPI DSI

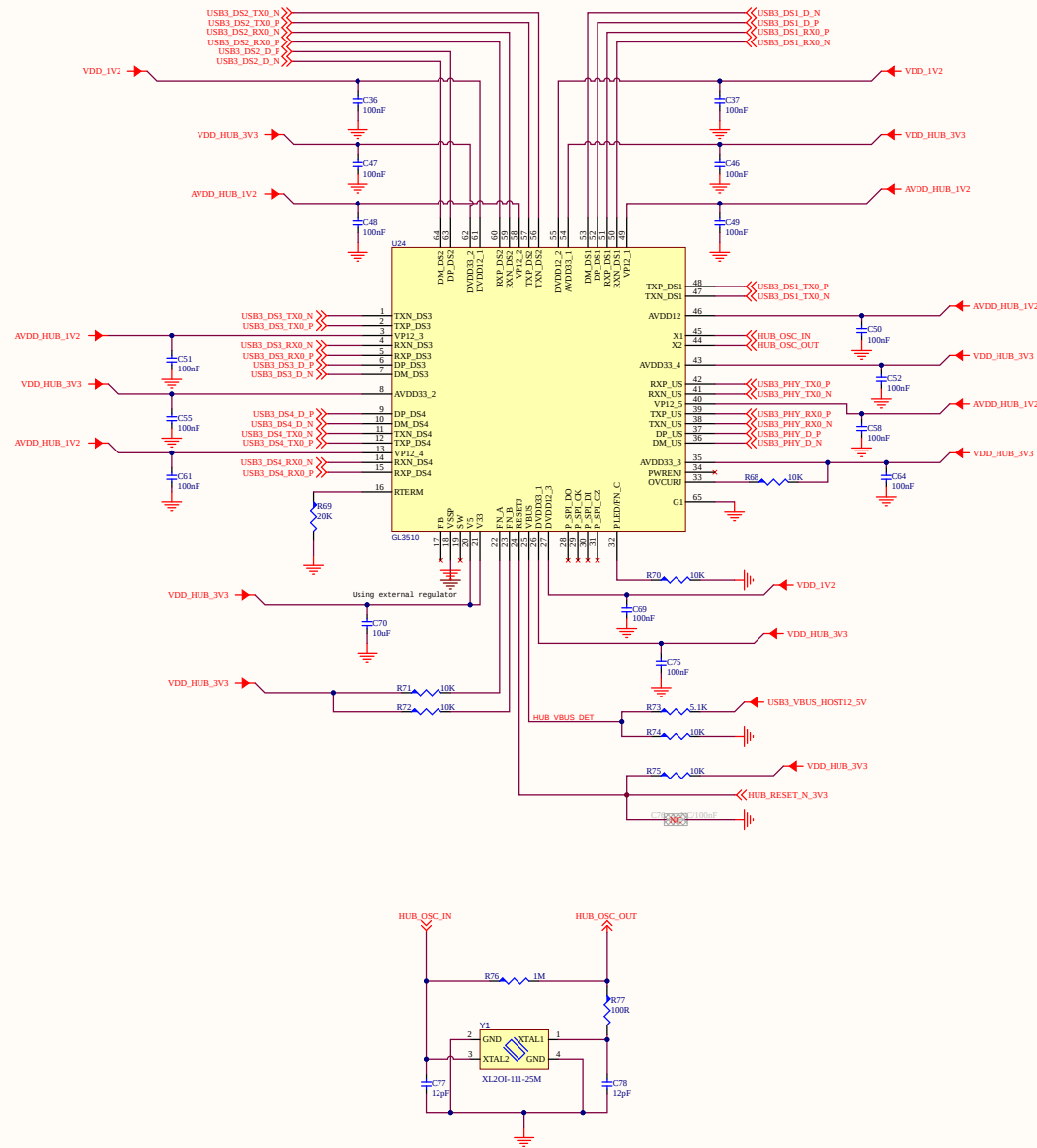


HDMI Type-A



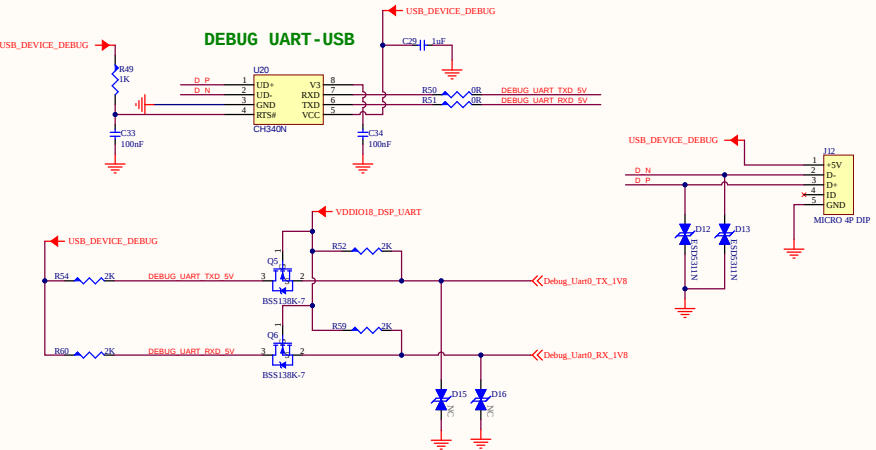
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USB 3.0 HUB

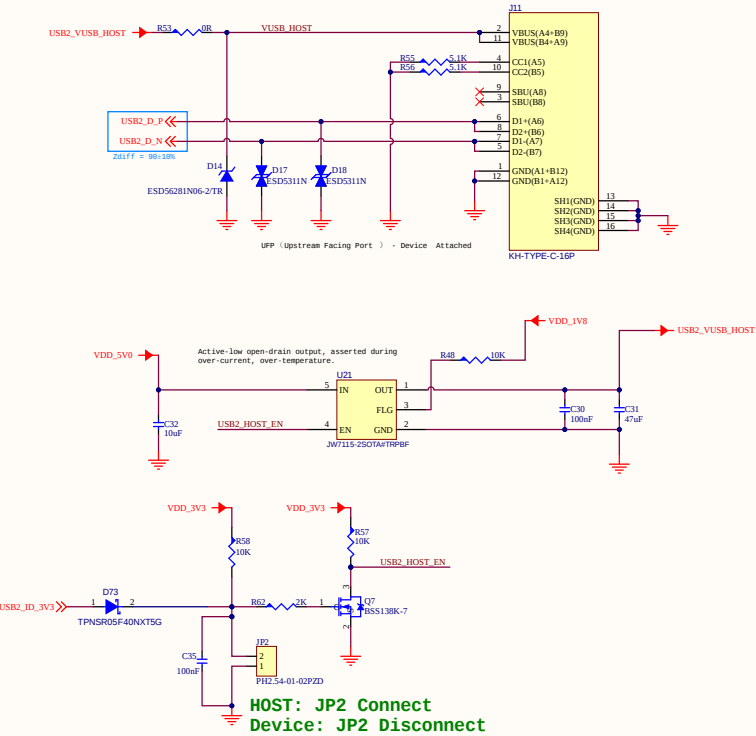


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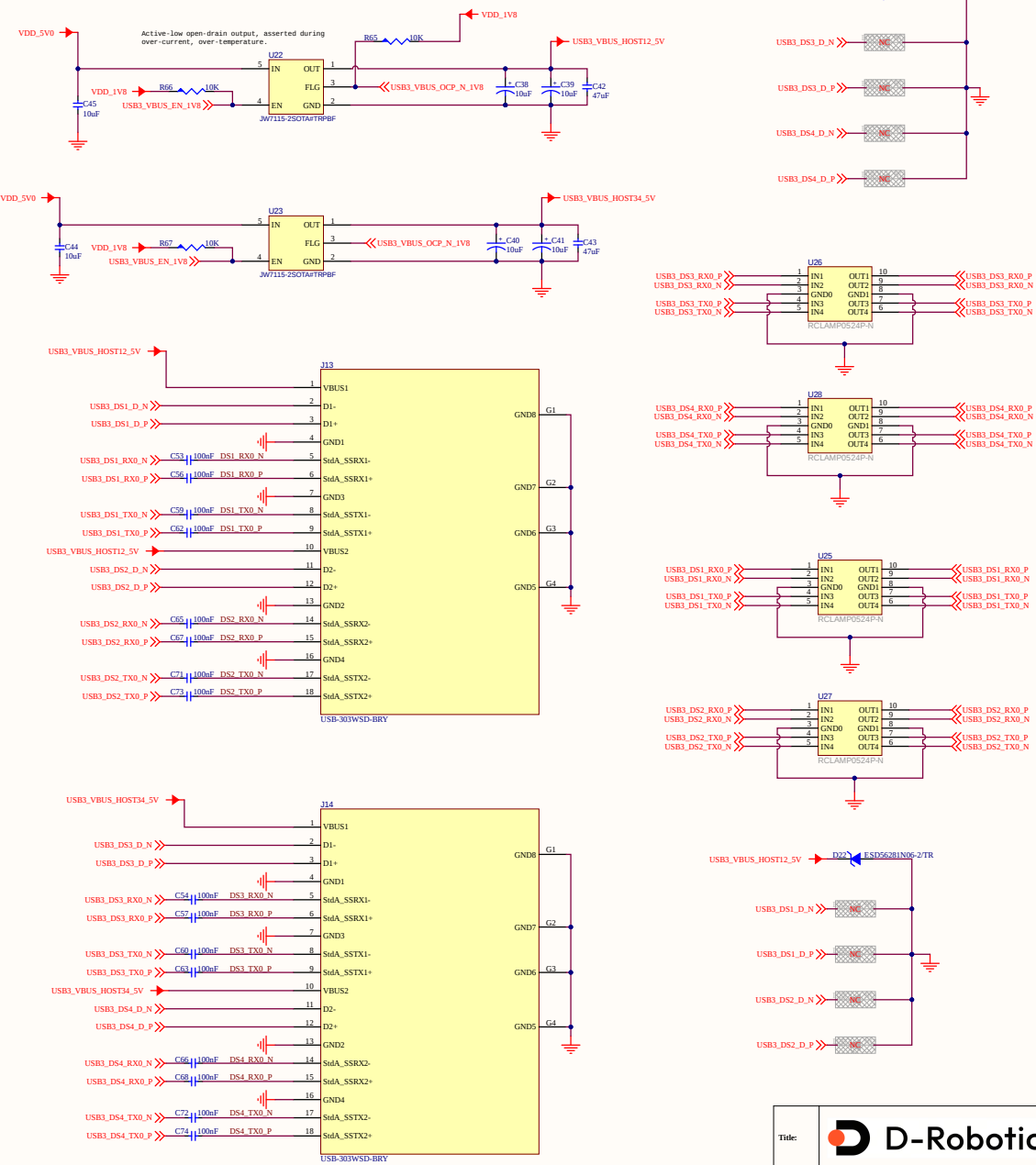
DEBUG UART MICRO-B



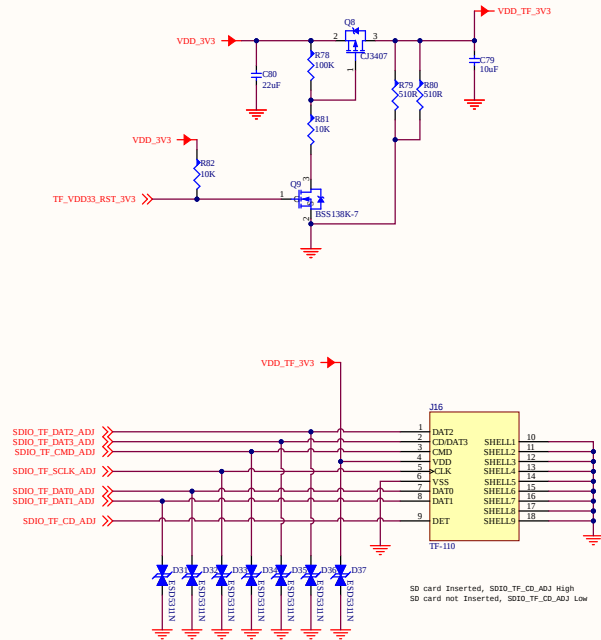
USB 2.0 DEVICE TYPE-C



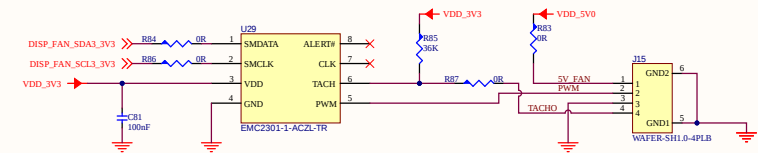
USB 3.0 HOST TYPE-A



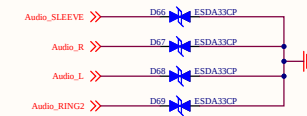
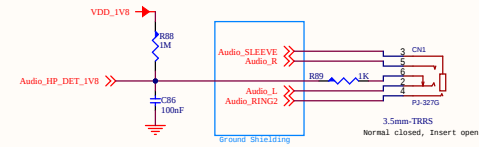
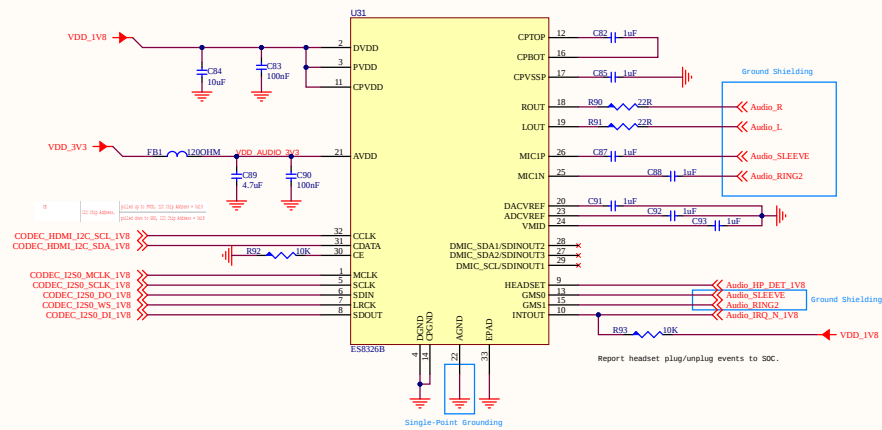
TF CARD



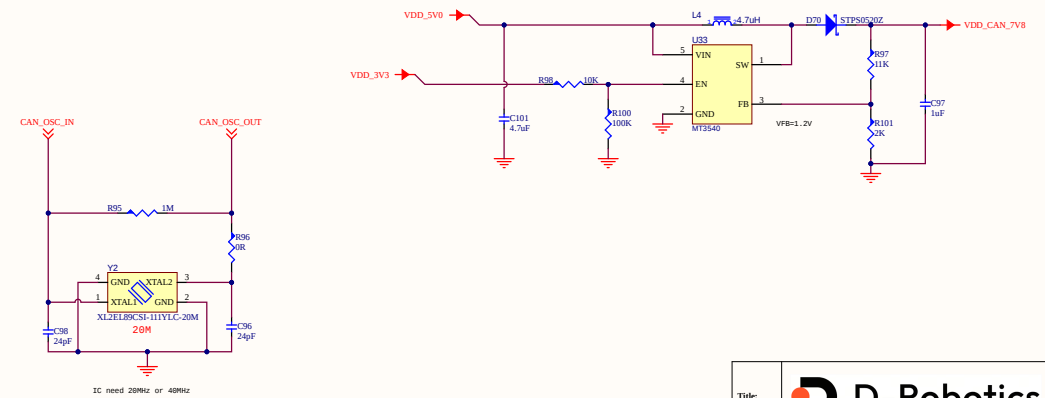
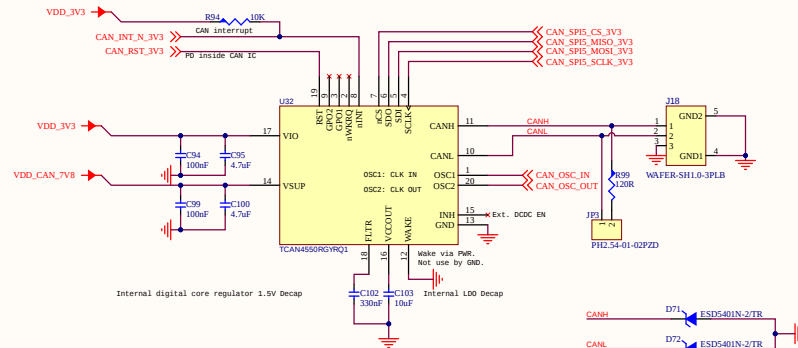
FAN CON



AUDIO



CAN

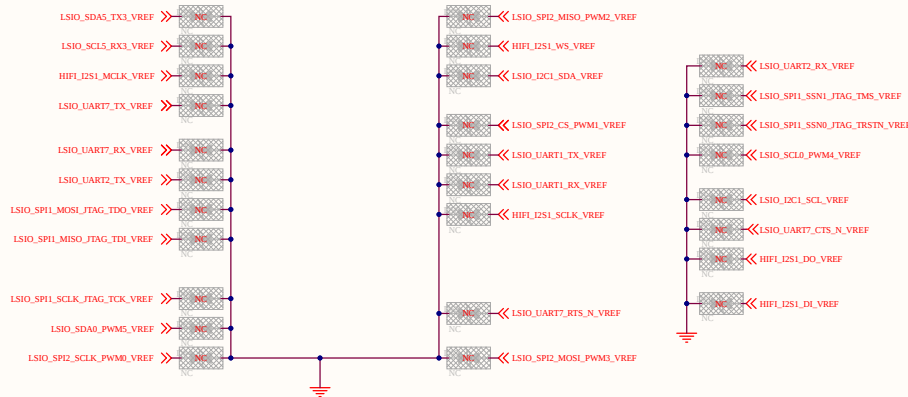
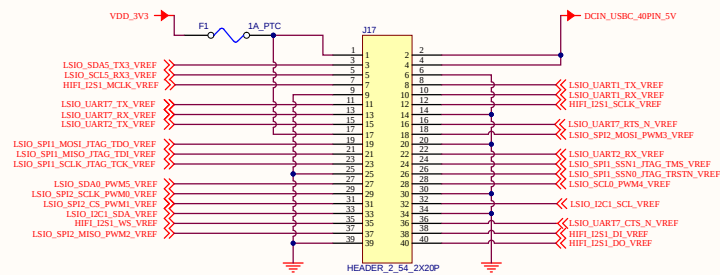


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Date:	2025/10/29		

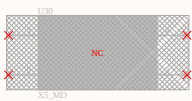
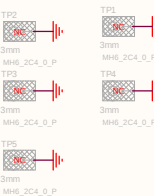
A

D

RDK Extension Interface(40PIN)



Mounting Holes



Title:	 D-Robotics		
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File:	P13_40PINS.SchDoc		
Page Size:	A2	Rev:	V1.1
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