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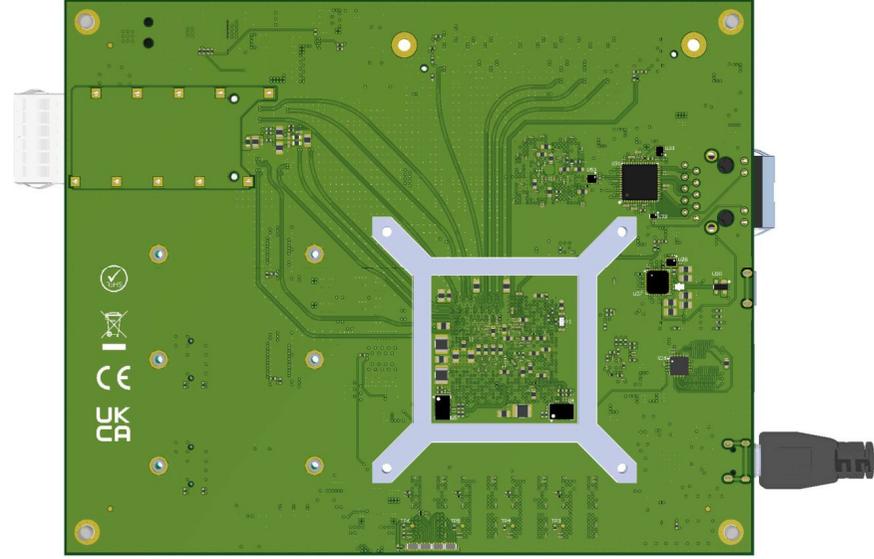
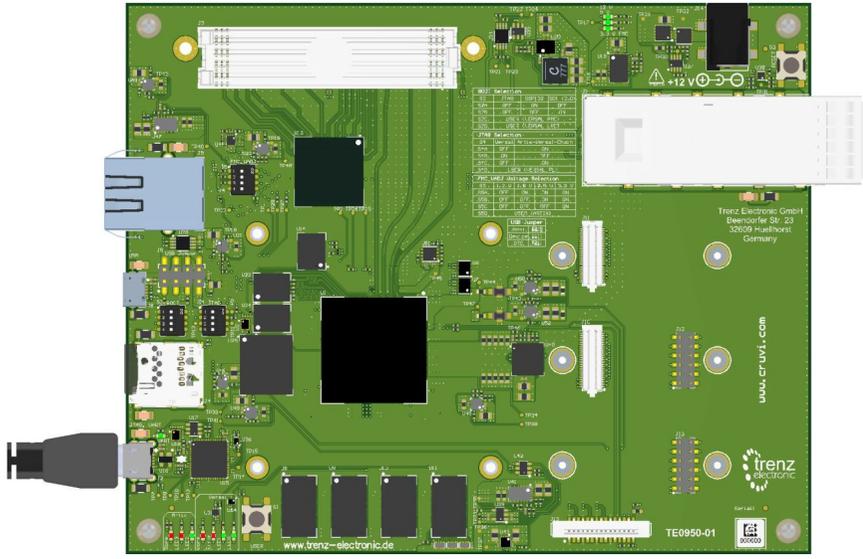
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Project is protected under copyright and we strongly and strictly prohibit the reverse engineering or recreation, even if the design is just adapted or modified. TE0950 is protected under such right and in case of plagiarism we will have to do anything necessary in order to protect our assets.

Schematics and other handouts serve for informational purposes only!

Drawn by	MR
Checked by	ED
Assembly variant	EGBE21A
Created by	MR
Modified by	MR
Modified at	2023-06-22



Title: Legal Notices		
A4	Number: TE0950 EGBE21A	Rev. 02
Date: 20.06.2023	Copyright: Trenz Electronic GmbH	Page 1 of 38
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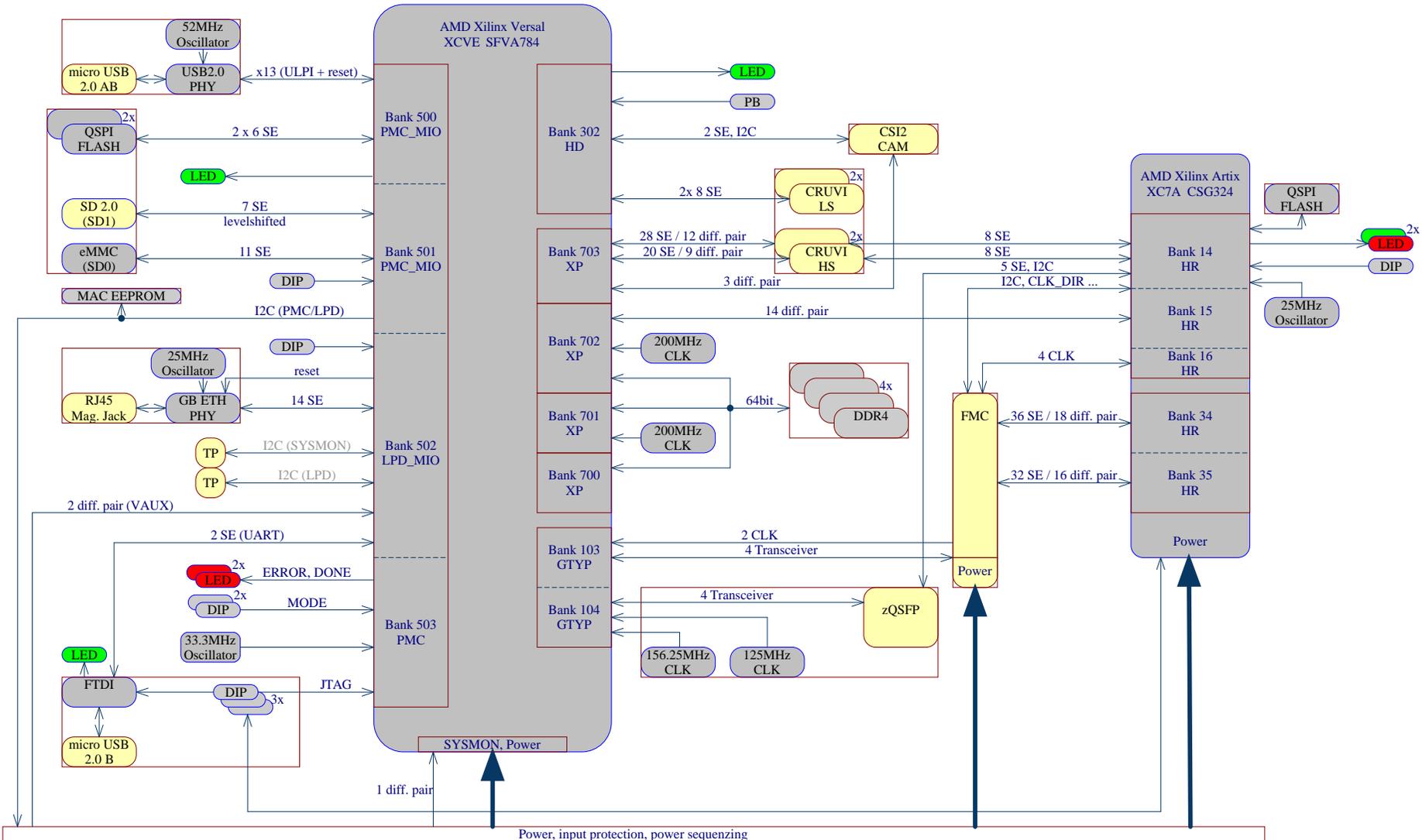
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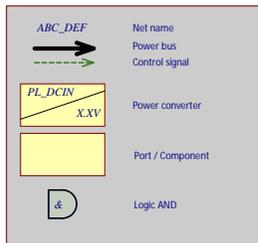
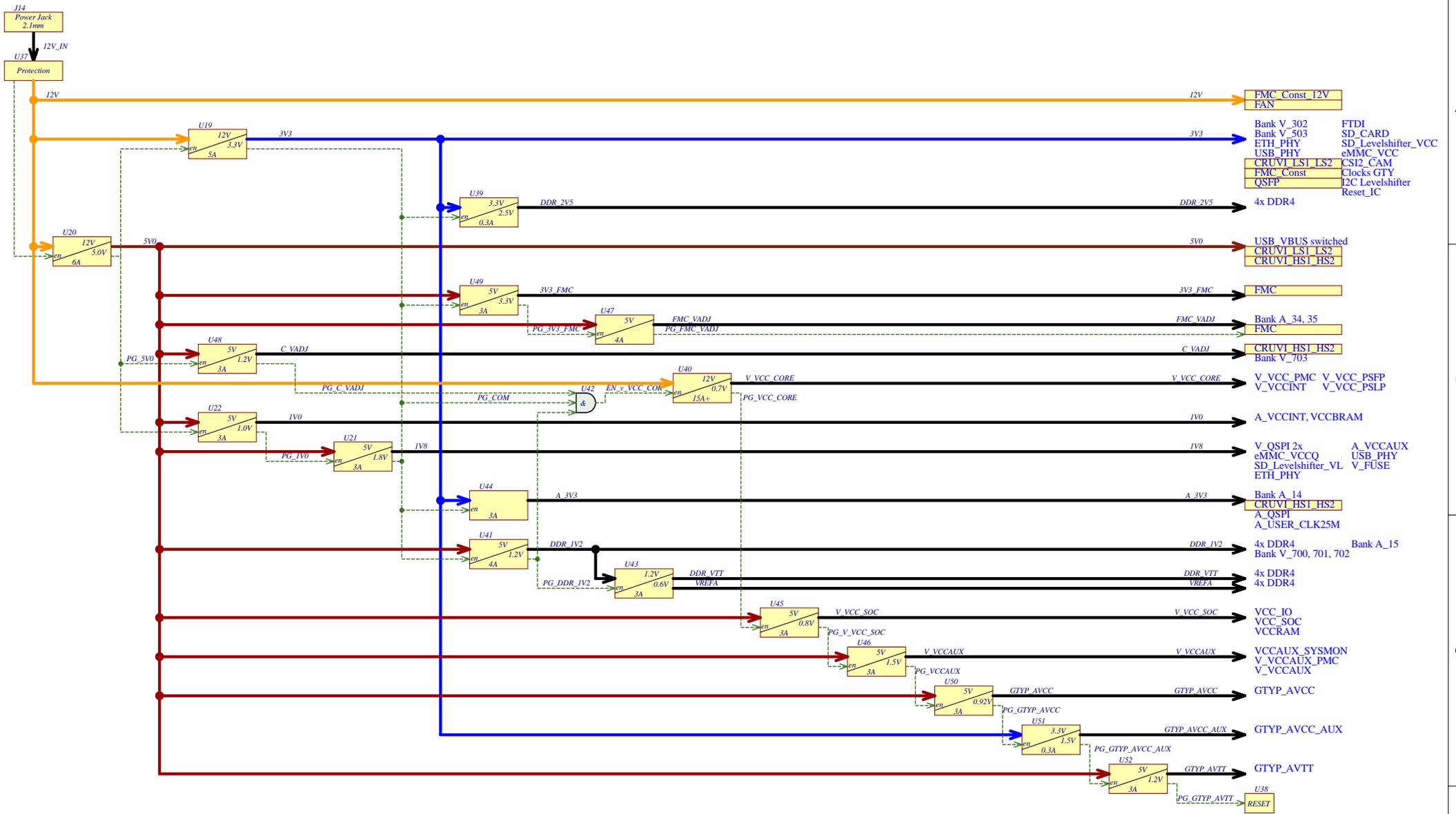
REV	Description	
-01	Initial revision	MR
-02	<ul style="list-style-type: none"> 1. Inverted card detect (pullup-> pulldown) 2. Increased number of capacitors on VTT (C388,C389) 3. Added 1K pullup on FAULTn_12V (R5) 4. Added 4-pin connector J17 for FAN and corresponding circuit. PWM and TACHO connected to ARTIX 5. VERSAL JTAG connection corrected 6. Added CRUVI Connector description on silkscreen 7. Changed polarity for CSI2-CAM diff pairs 8. Update from library 9. Changed R266 to 12K and added R281 10. Changed enable 3V3 after 5V0 (R99), Pullup on PG_5V0 connected to 5V0 rail. 11. Replaced C256 (2,2µF) by 2x 1µF 12. Set R131 and R132 to not fitted (2023-08-18) 	MR

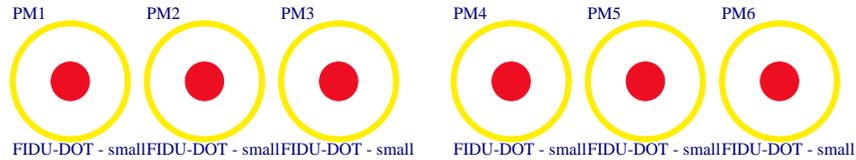
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Special notes:

		Title: System Overview	
		A4	Number: TE0950 EGBE21A
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Filename: Overview.SchDoc		Rev. 02	Page 3 of 38





I2C Addresses:

Device	Bus	Address	Note
24AA025E48	PMC_I2C	1010000 50H	EEPROM for MAC with user area
MP8869SGL-Z	PMC_I2C	1100001 61H	5V DCDC

MECH1
TE Address Overlay

LOGO ADDRESS

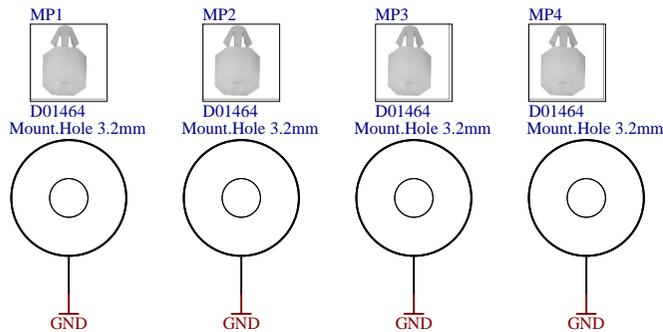
LOGO1
TE Logo PRINT Layer

LOGO PRINT

Serial1
Serial
Serialnumber 6,3 x 6.3mm

Supported Voltage Ranges:

Power Rail	Direction	Range	Tolerance	Description	Note
12V_IN	IN	12V	+/-5%	Board Power	-
5V0	OUT	5.0V	+/-3%	CRUVI LS and HS 5V	Shared with onboard 5V supplies and with further switch (U29) for rail USB_VBUS_SUP via jumper (J5) connectable to USB (J8).
3V3	OUT	3.3V	+/-3%	QSFP, CRUVI LS 3.3V, CSI-2 CAM	Shared with VERSAL VCCO Bank 302 and onboard peripherals.
C_VADJ	OUT	1.2V	+/-3%	CRUVI HS IO	Shared with VERSAL VCCIO XPIO Bank 703.
A_3V3	OUT	3.3V	+/-3%	CRUVI HS 3.3V	Shared with ARTIX VCCIO Bank 14 and onboard peripherals.
12V	OUT	12V	+/-5%	FMC	Derived from 12V_IN after input protection. Shared with onboard peripherals.
3V3_FMC	OUT	3.3V	+/-3%	FMC	-
FMC_VADJ	OUT	1.2V - 3.3V	+/-3%	FMC	Selectable by dip settings.

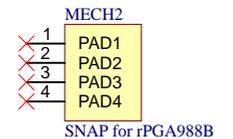


CE1
CE Logo on Top Overlay

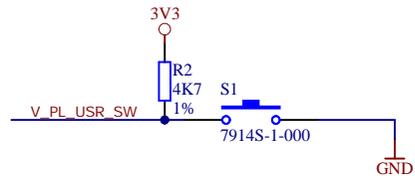
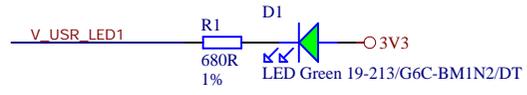
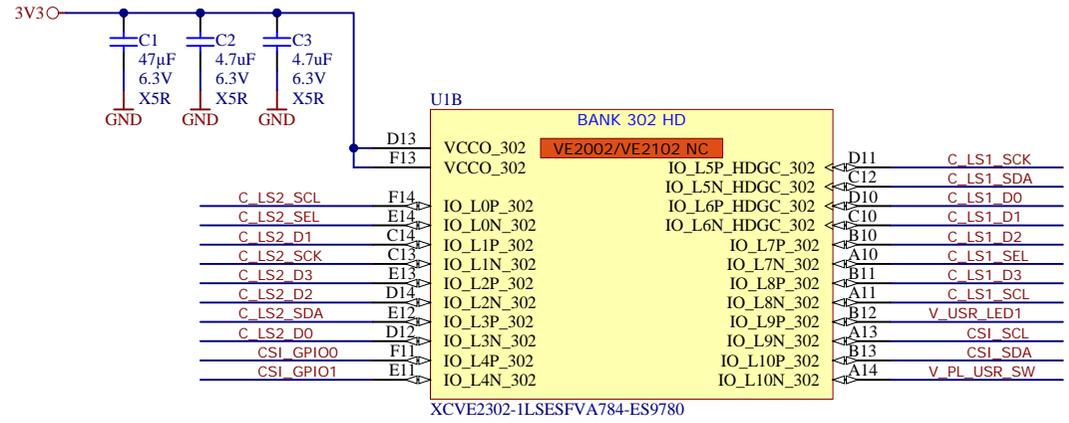
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UKCA1
UKCA Logo on Top Overlay

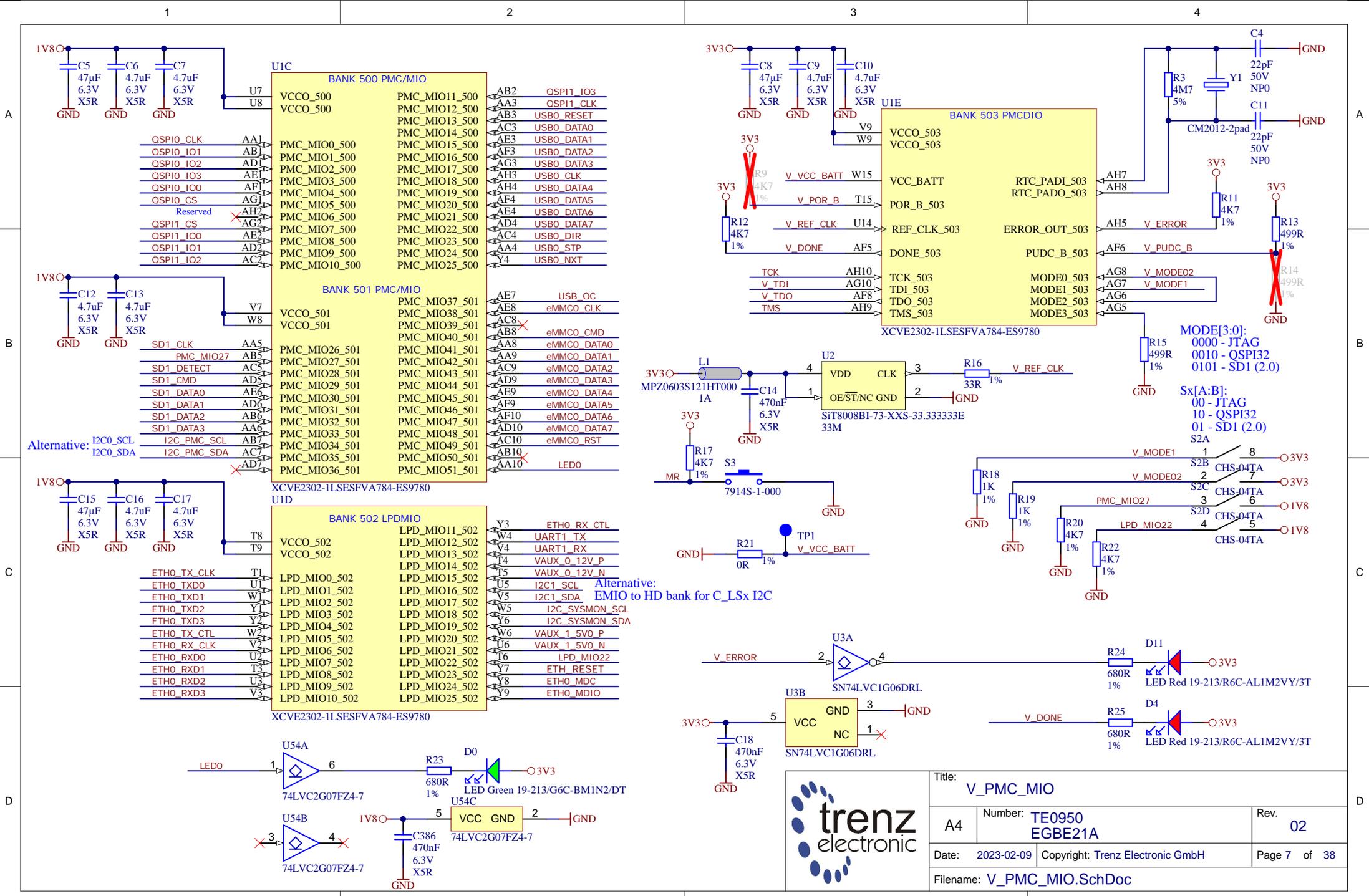
UKCA-TOPOVERLAY



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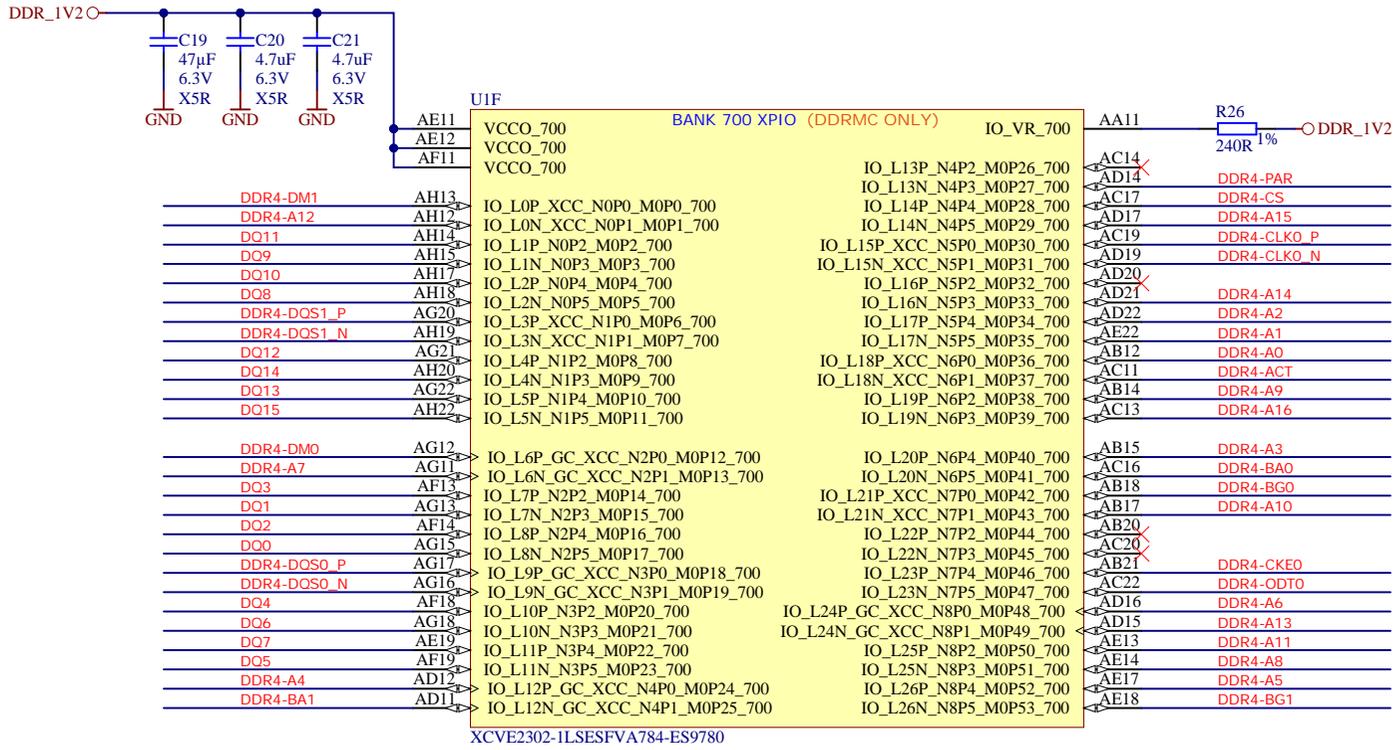
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XCV E2302-ILSESFVA784-ES9780

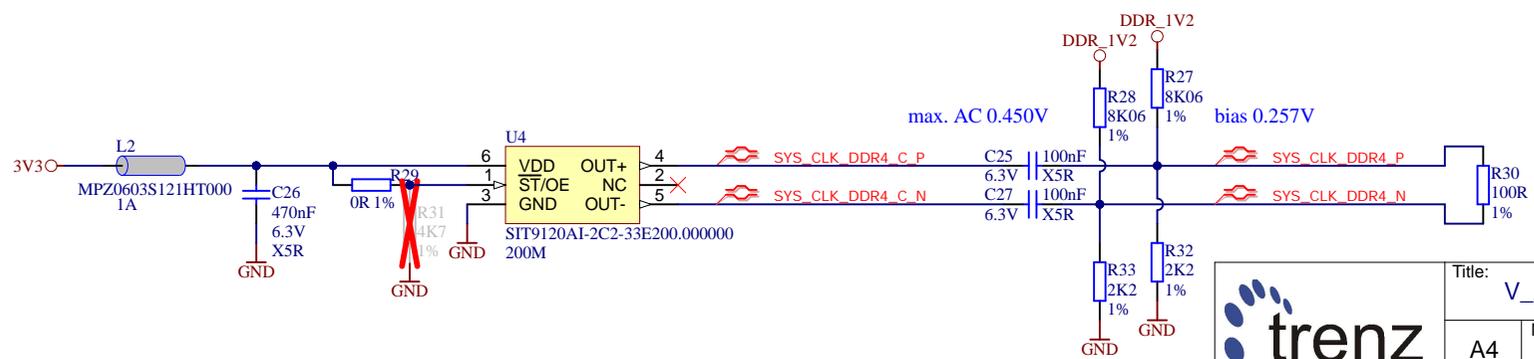
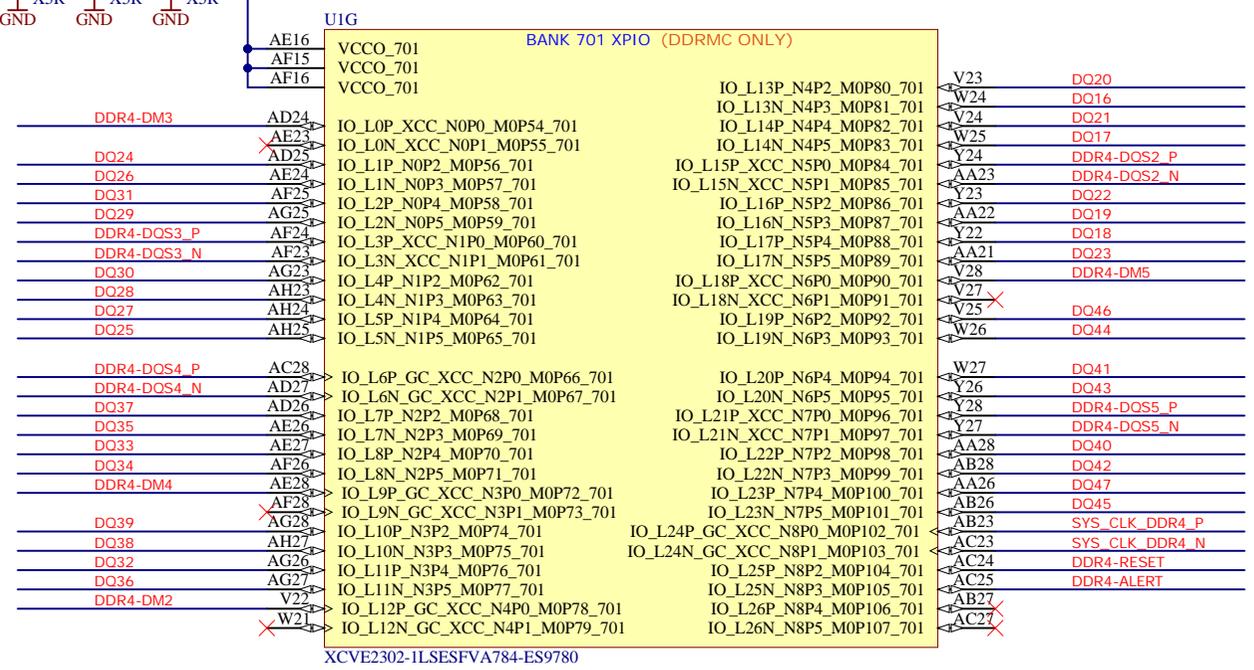
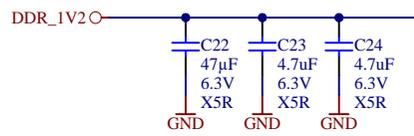
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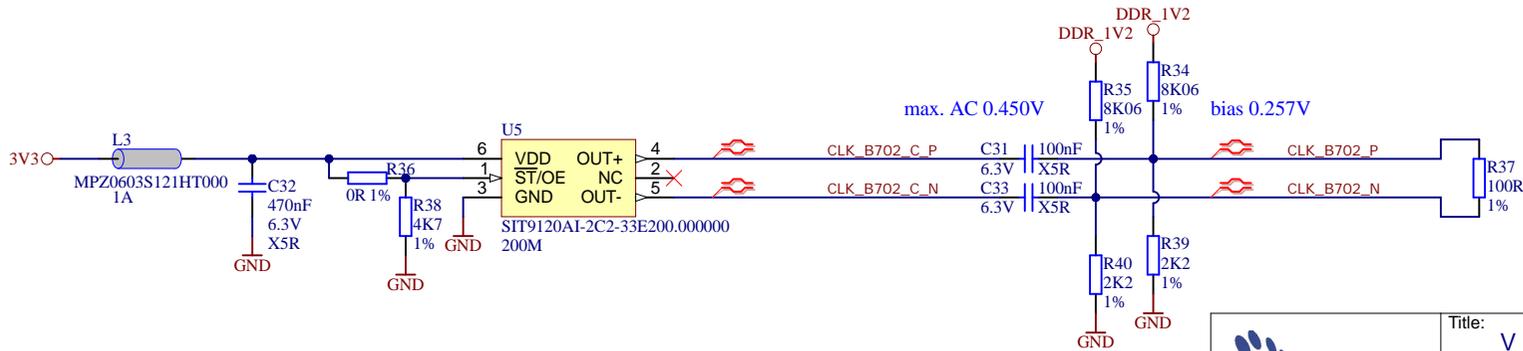
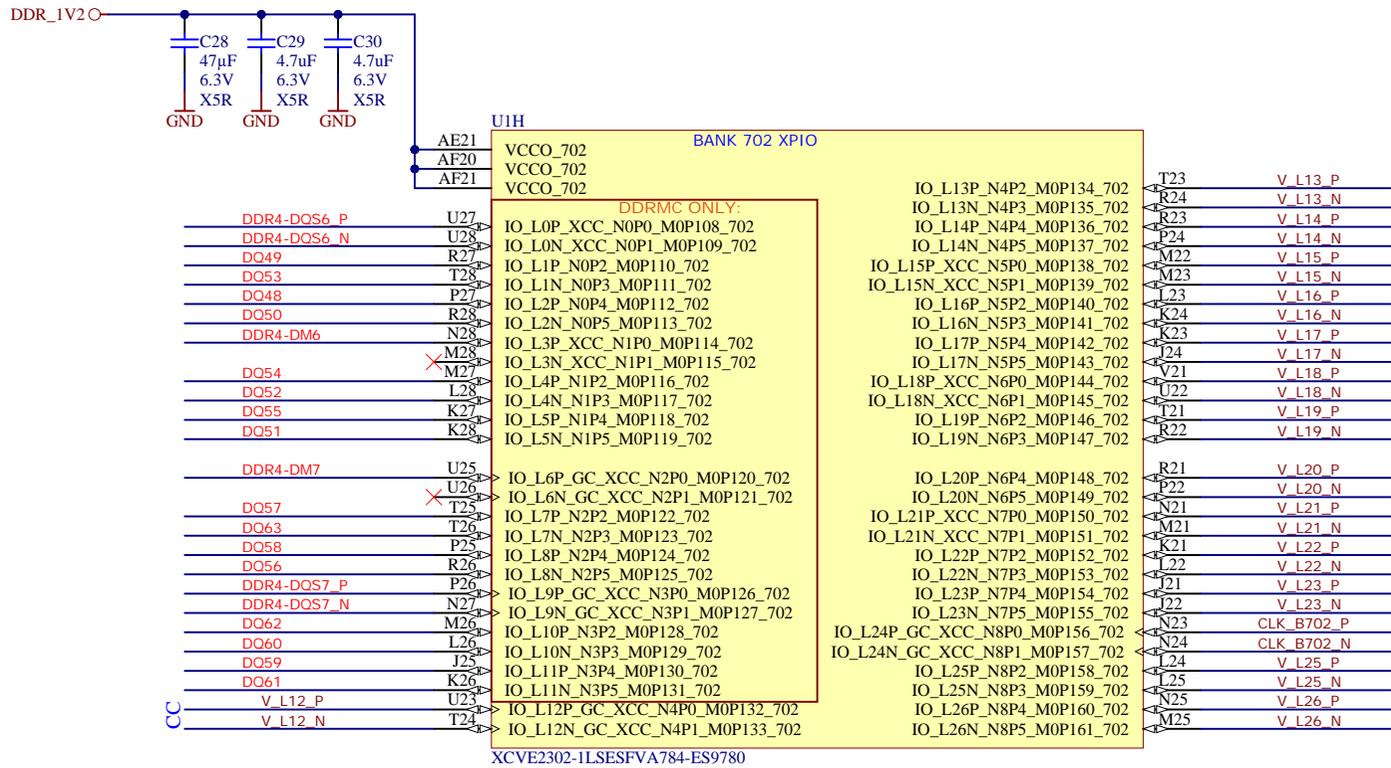
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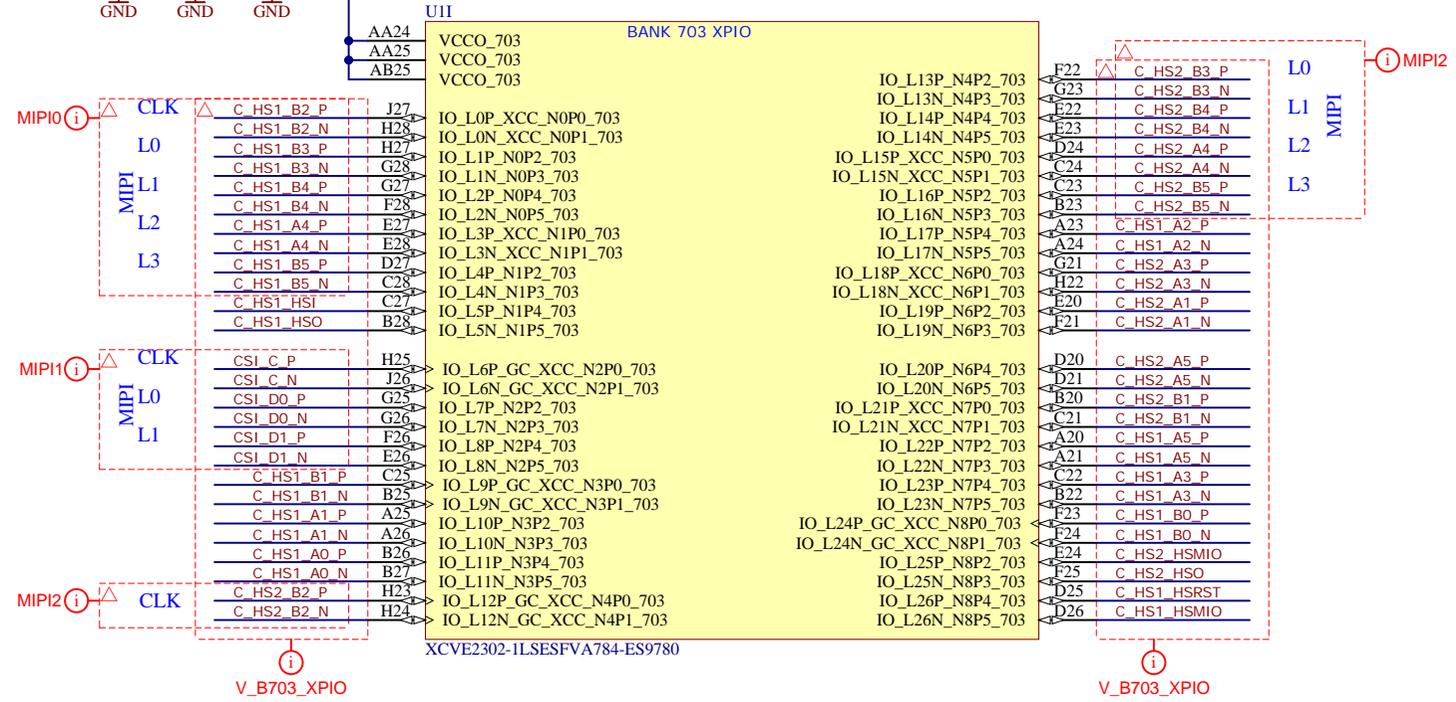
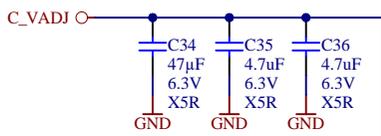
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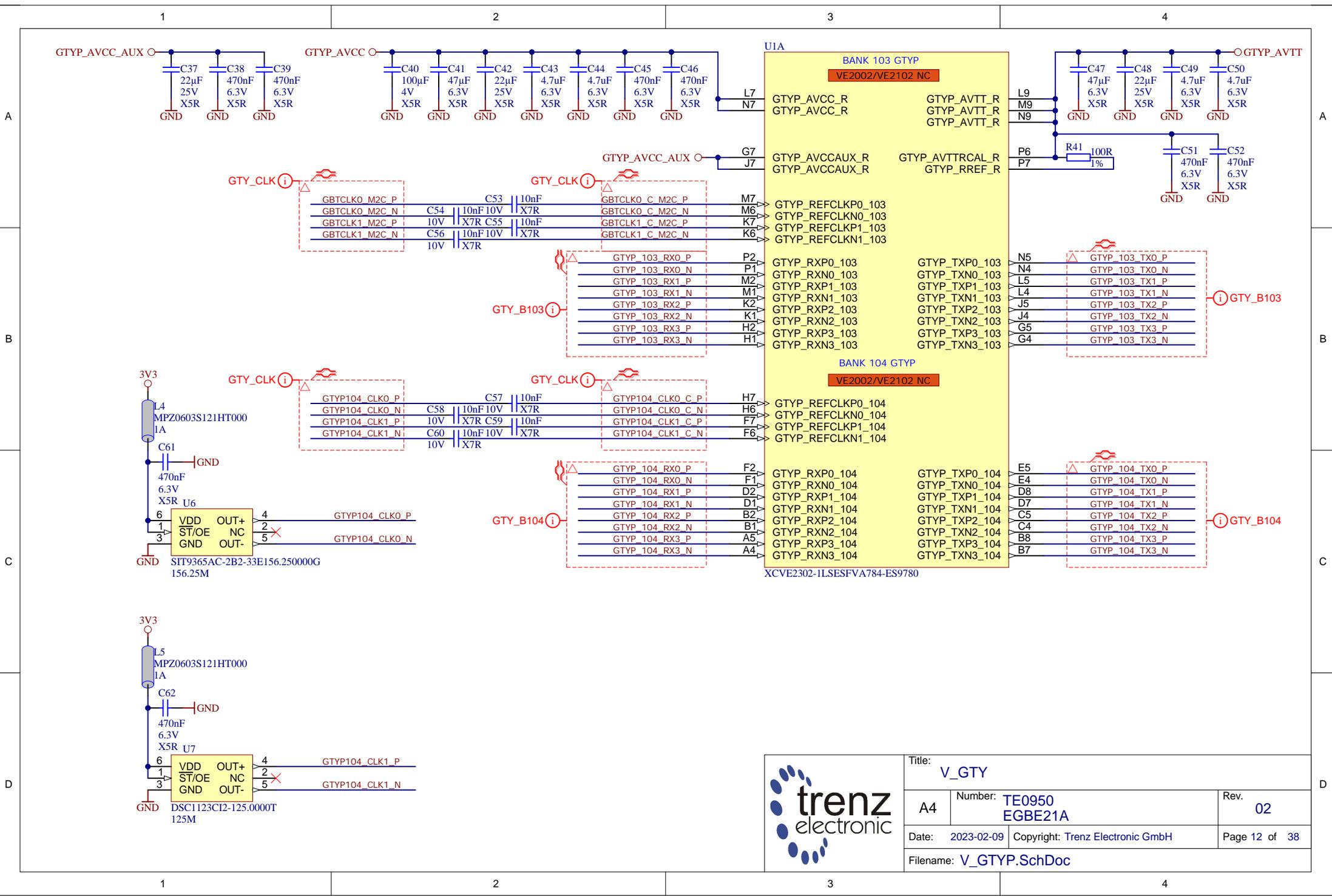
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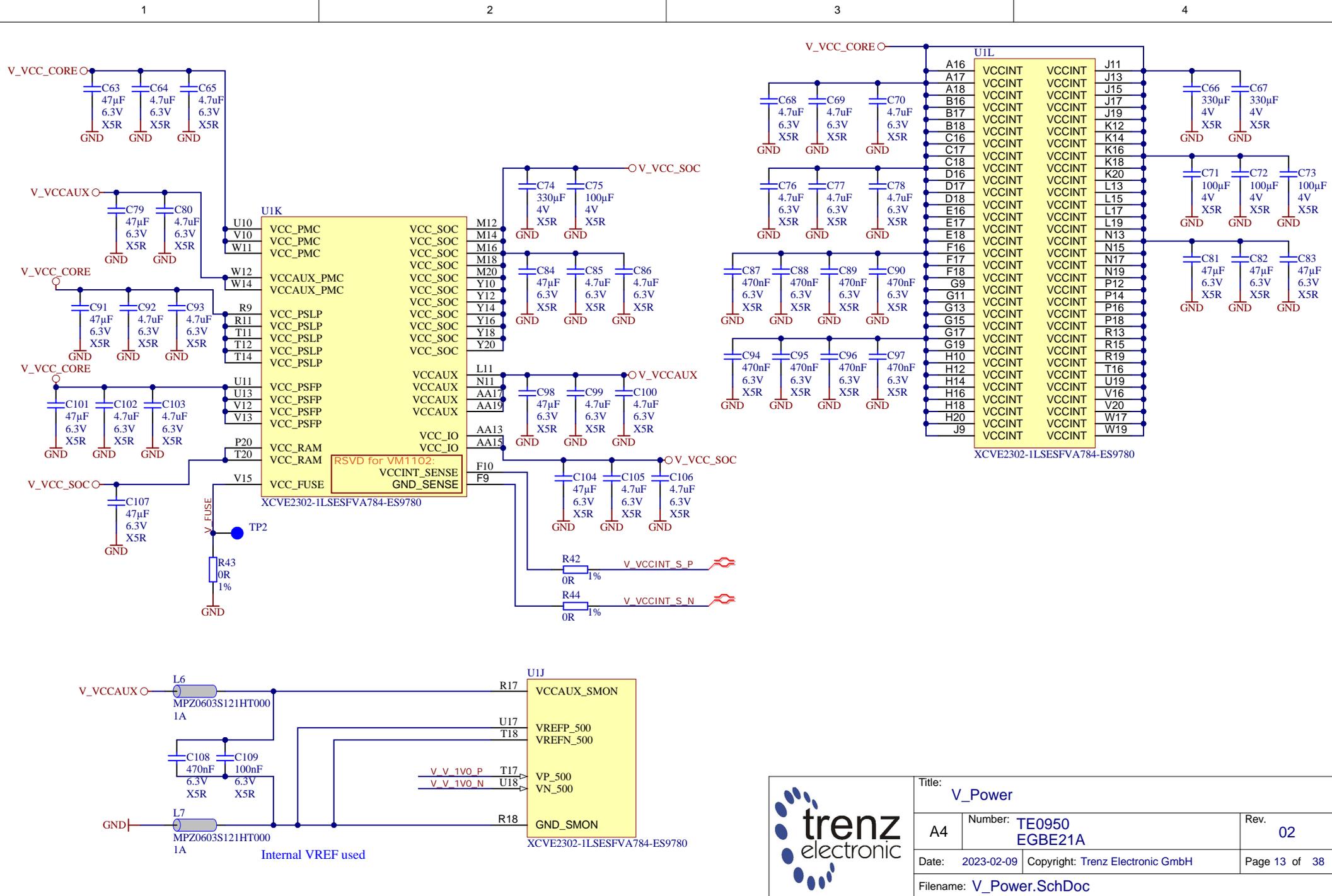
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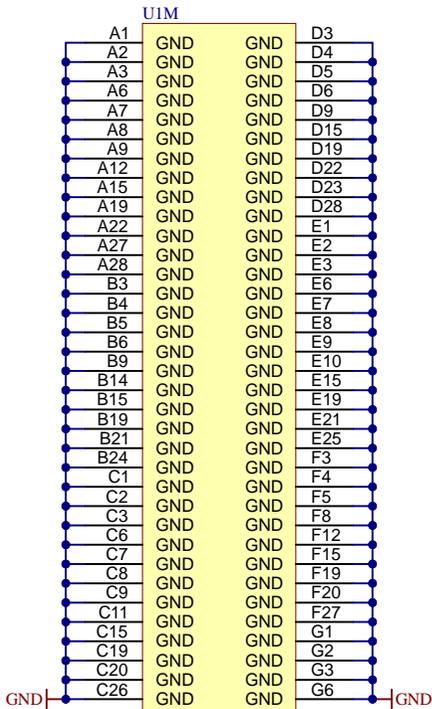
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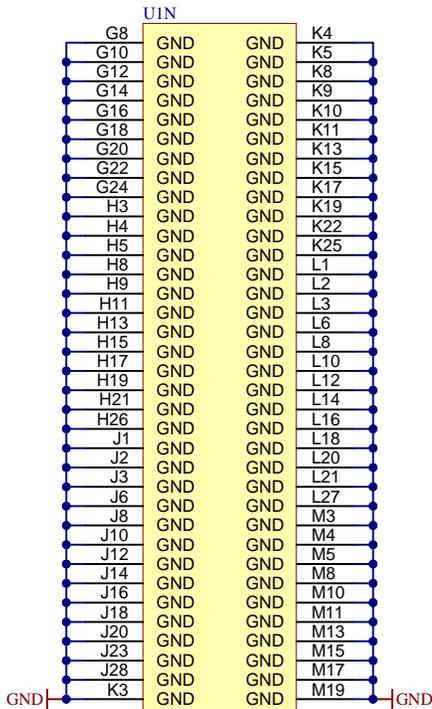
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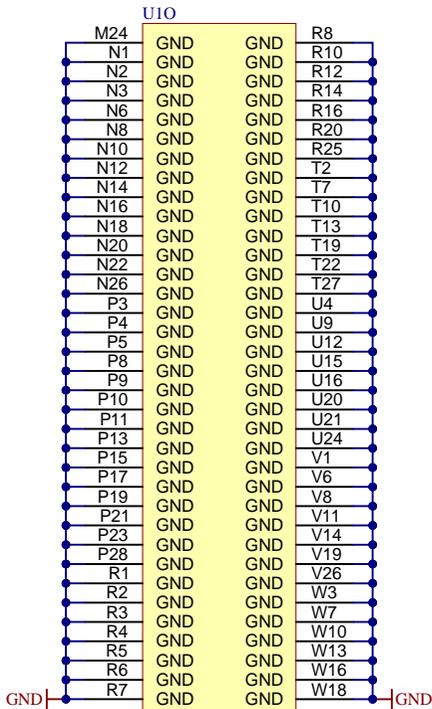
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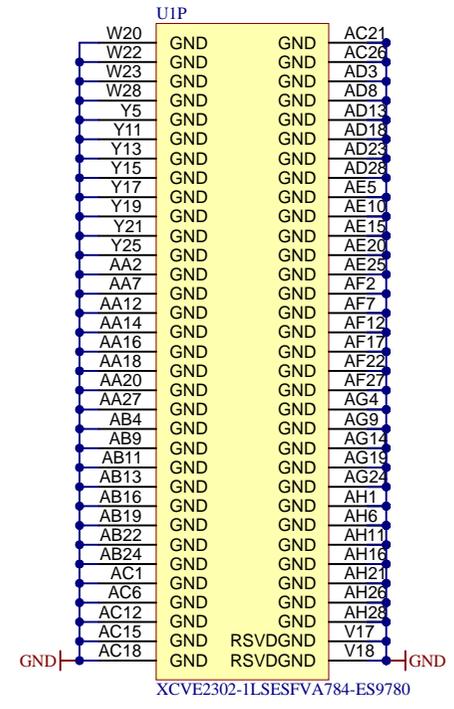
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XCVE2302-1LSESFVA784-ES9780



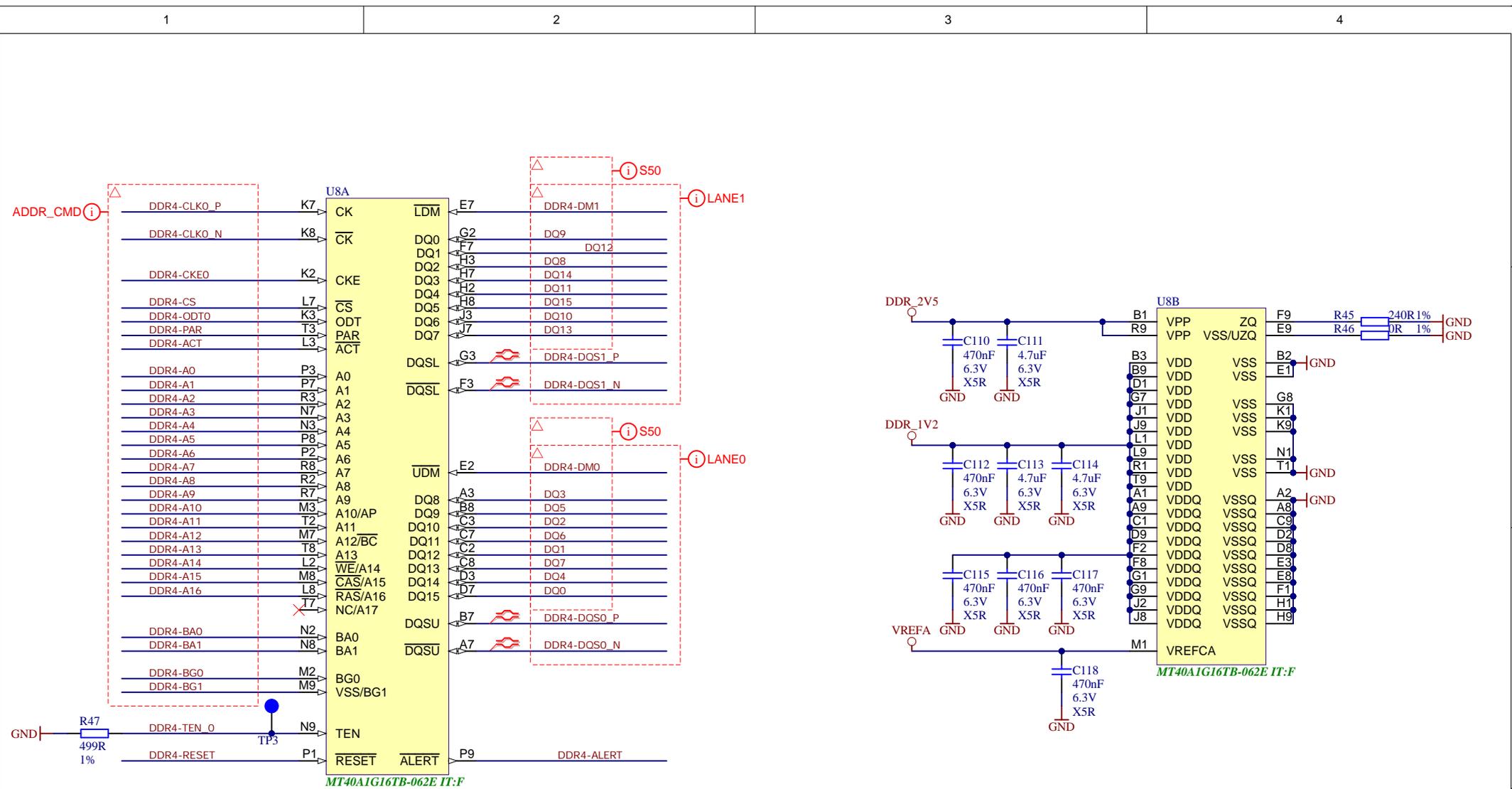
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XCVE2302-1LSESFVA784-ES9780



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- DDR4_2.SchDoc
- DDR4_3.SchDoc
- DDR4_4.SchDoc
- DDR4_TERM.SchDoc

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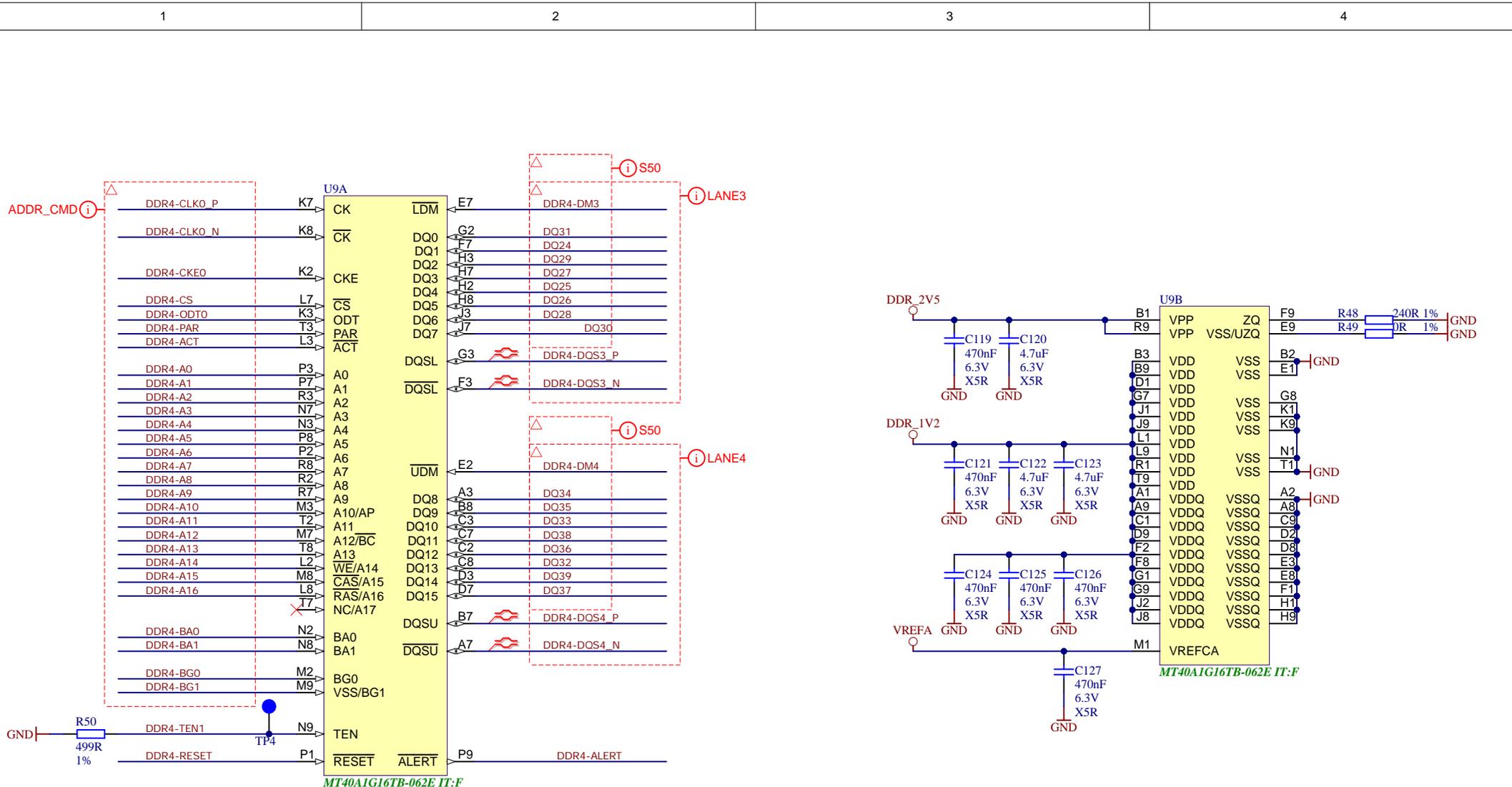
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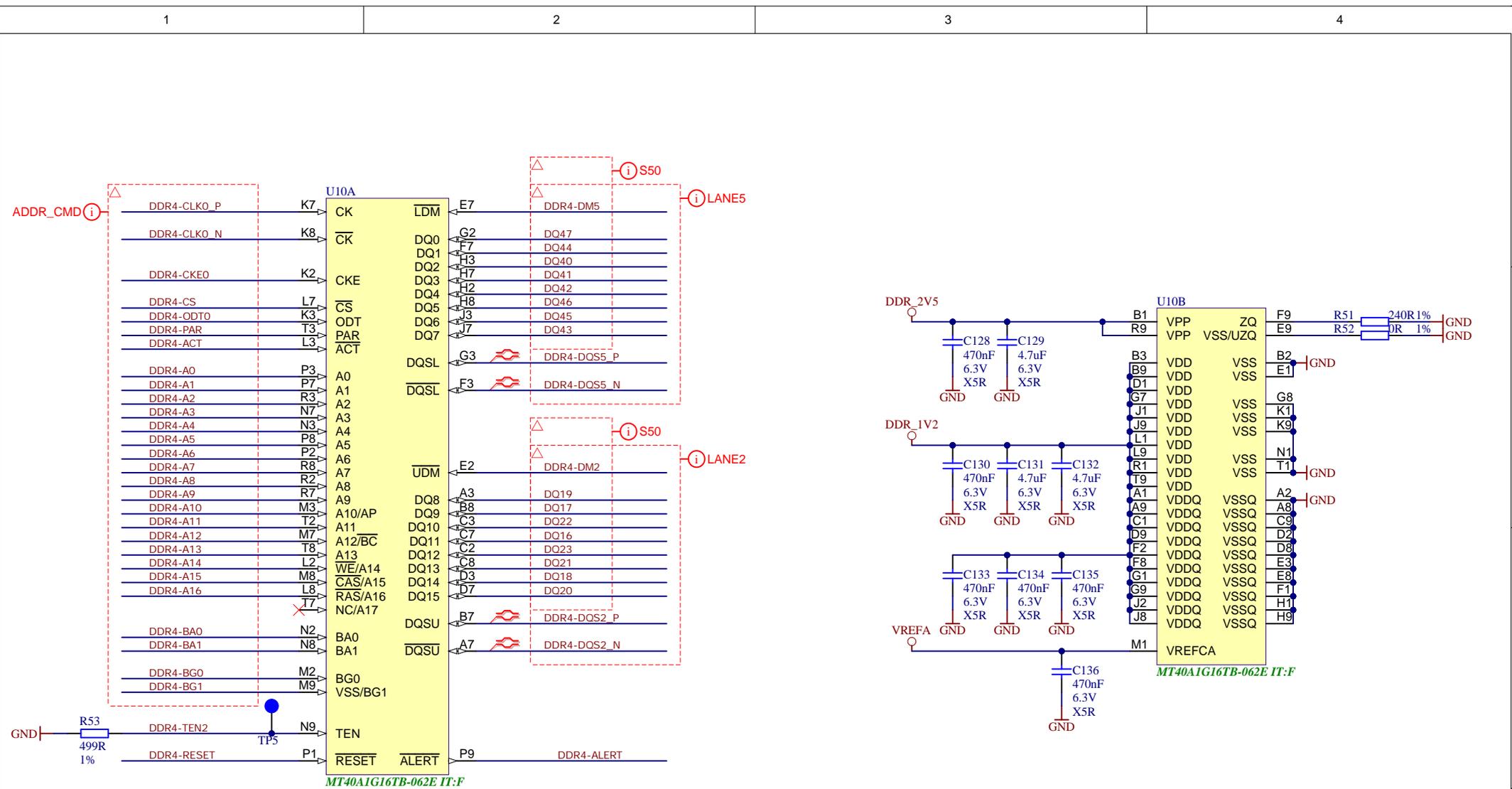
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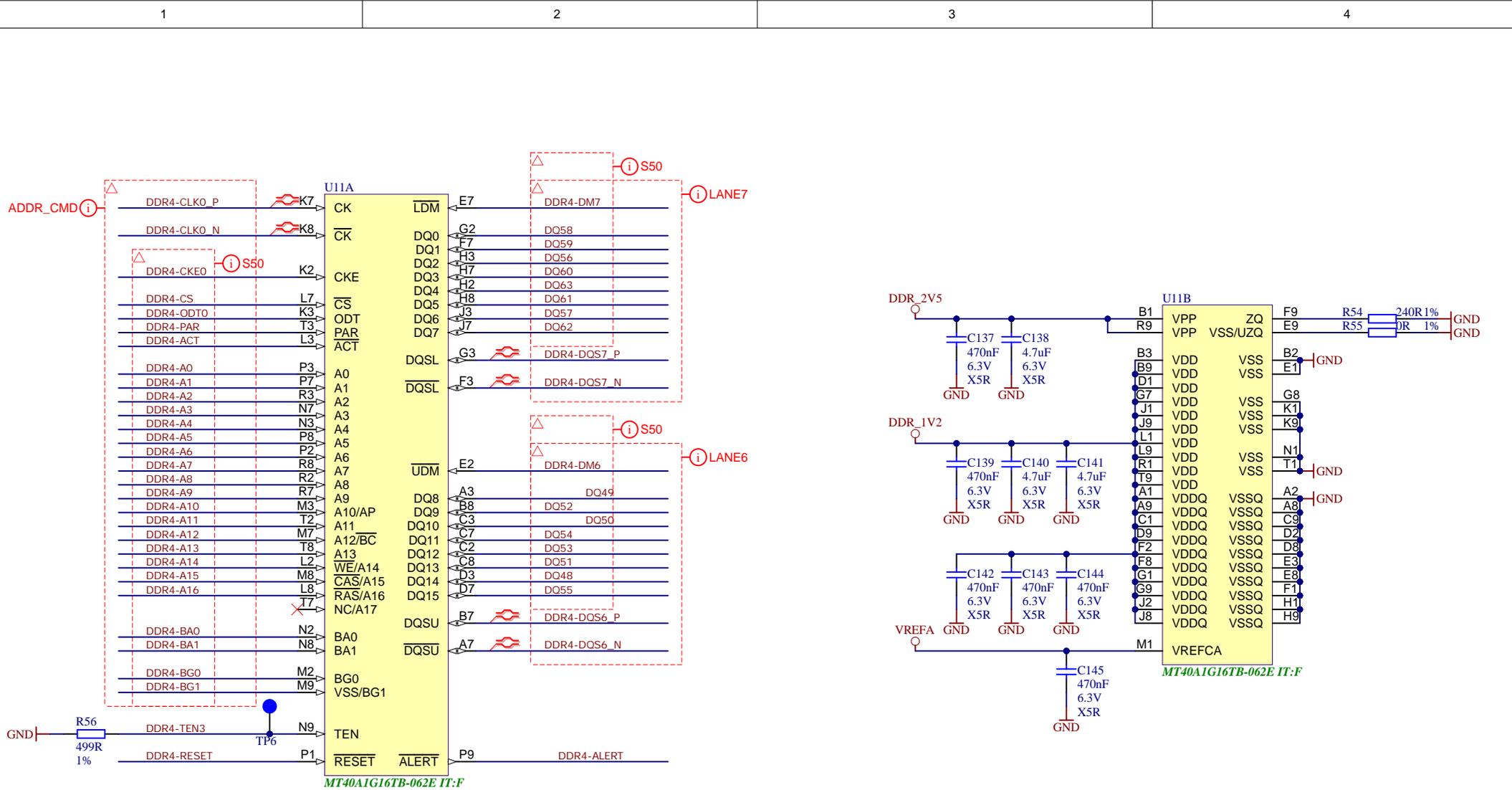
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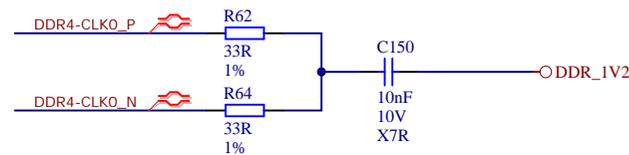
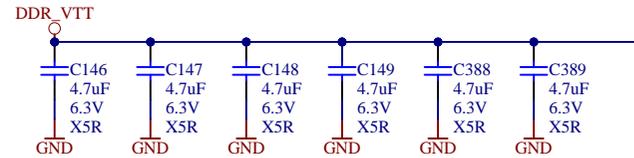
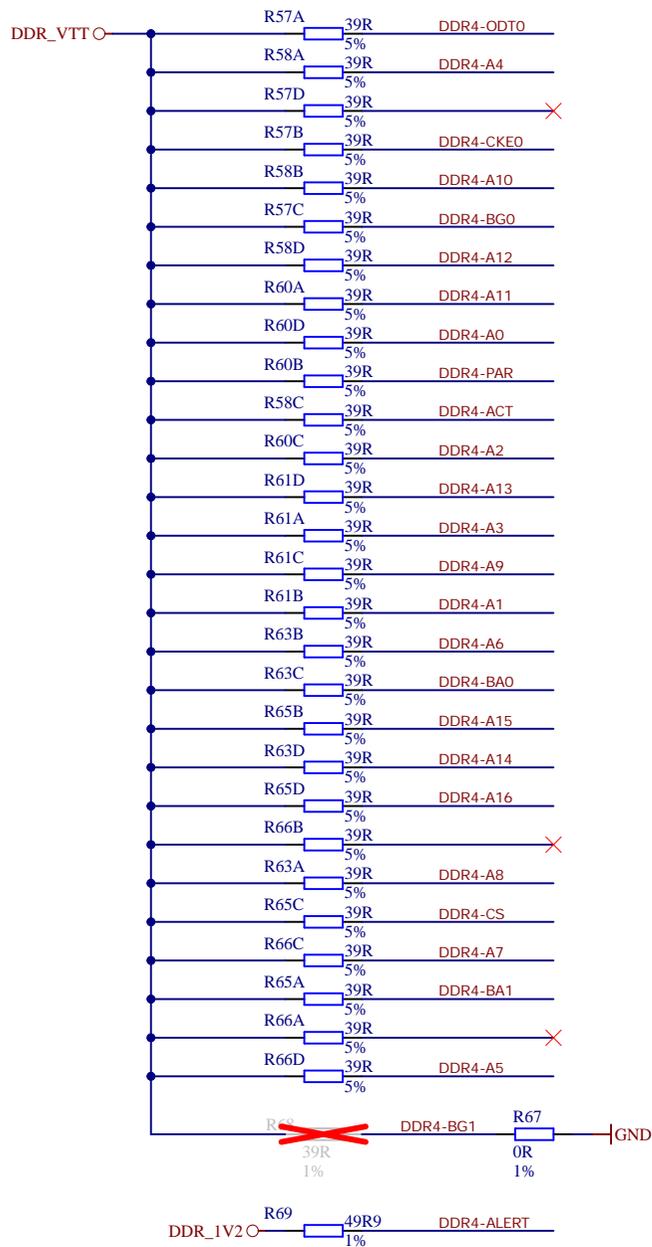
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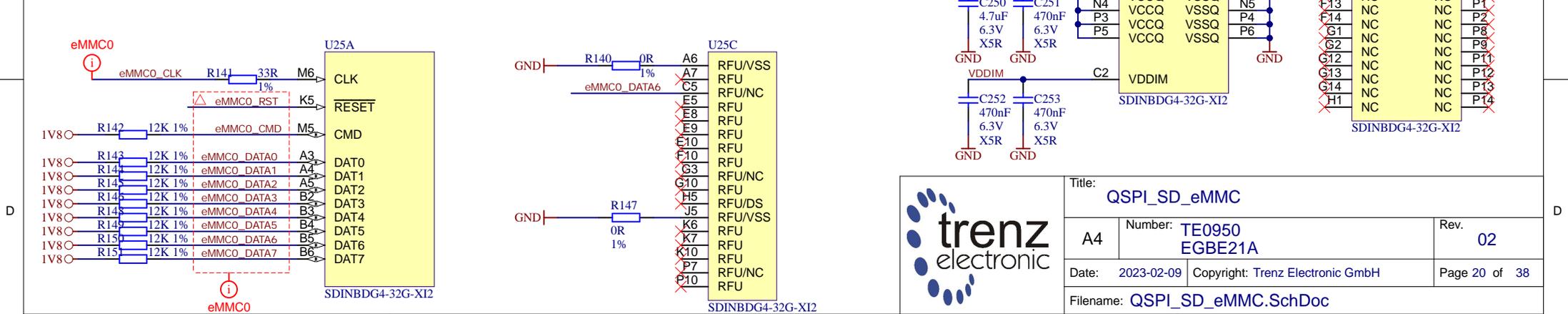
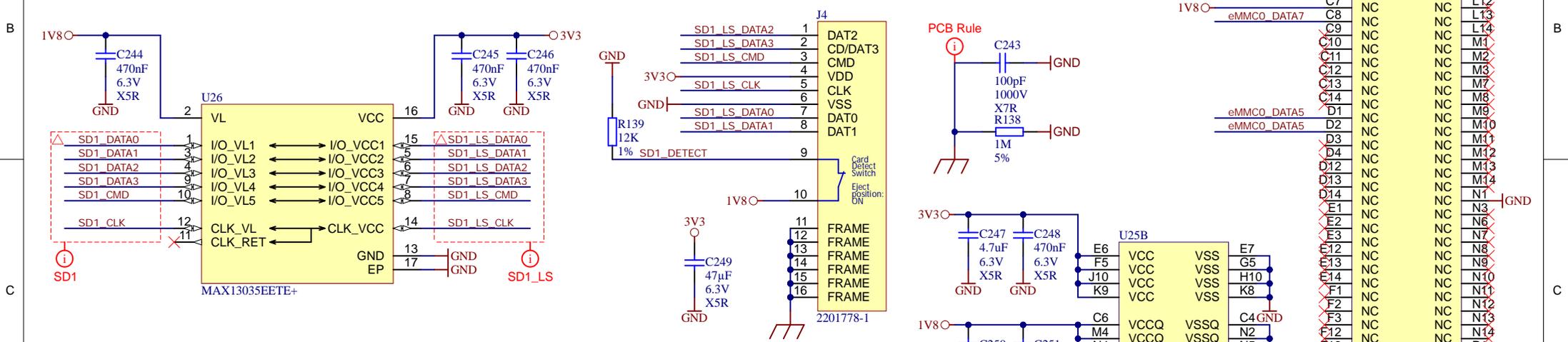
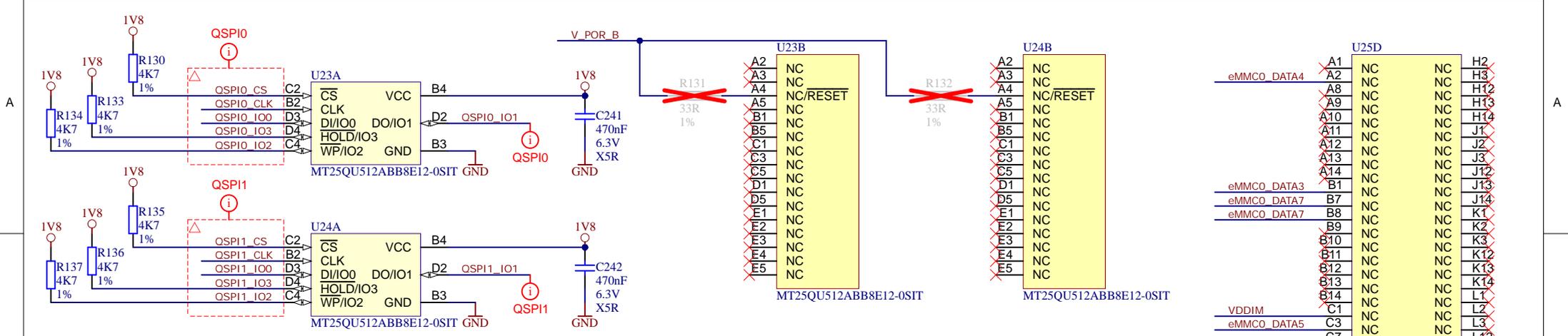
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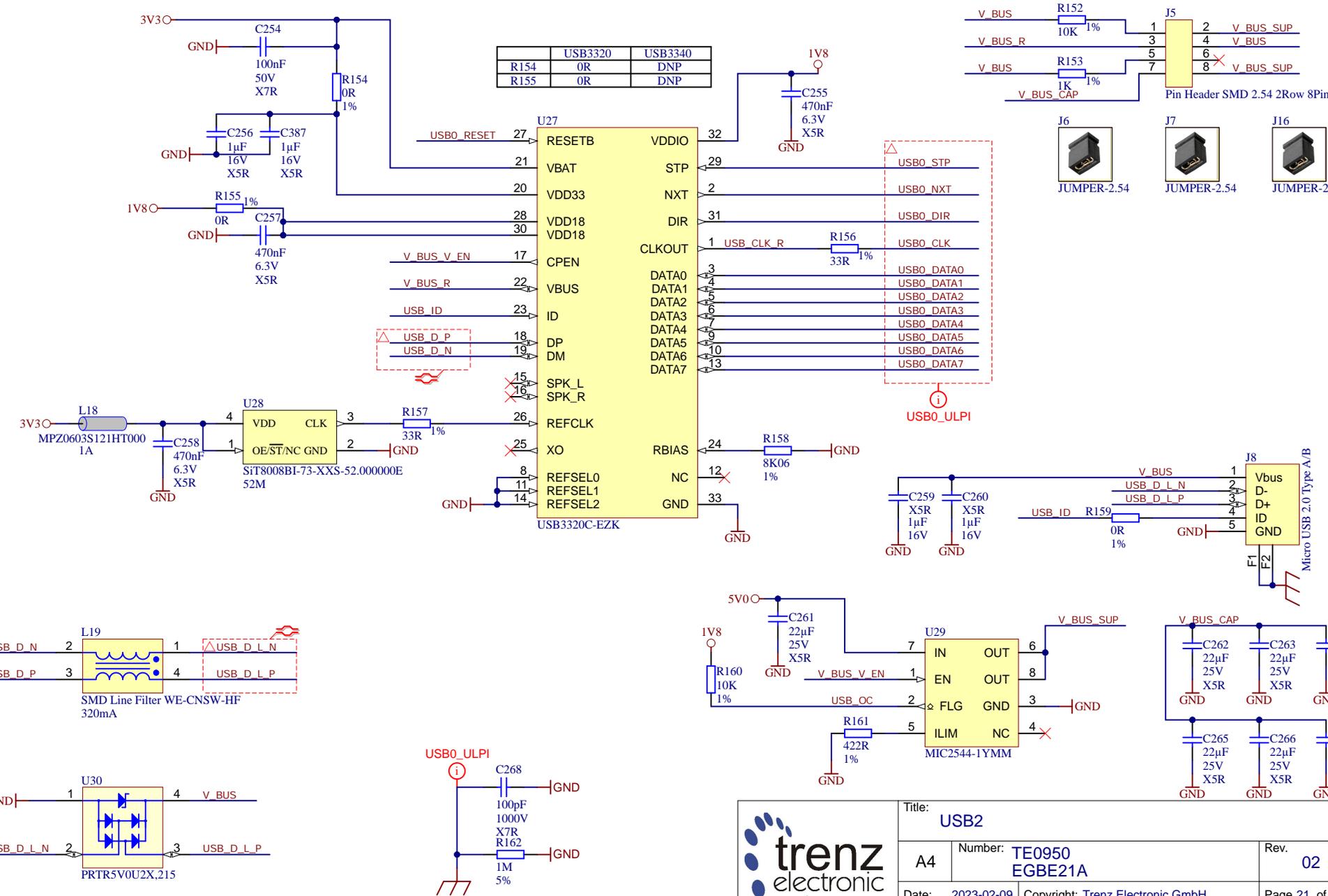
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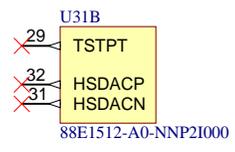
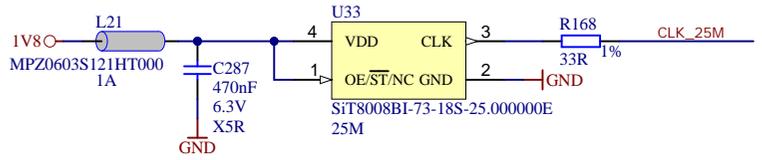
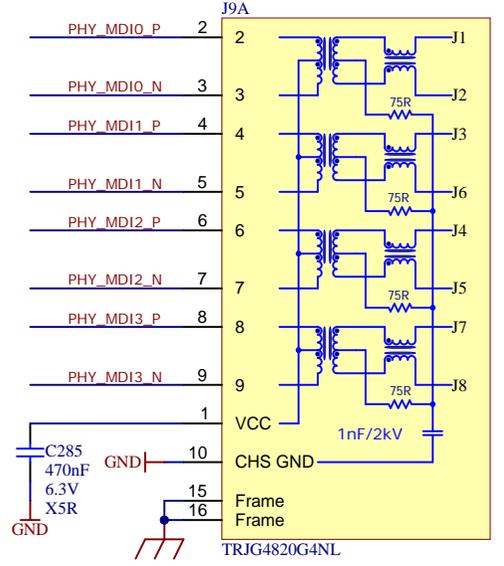
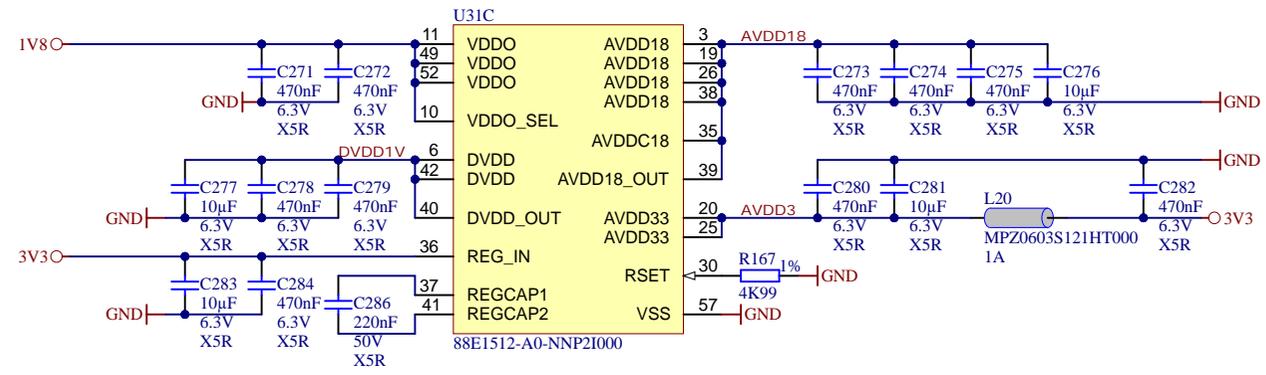
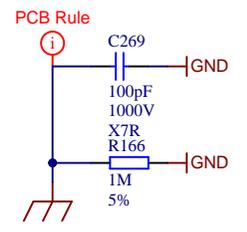
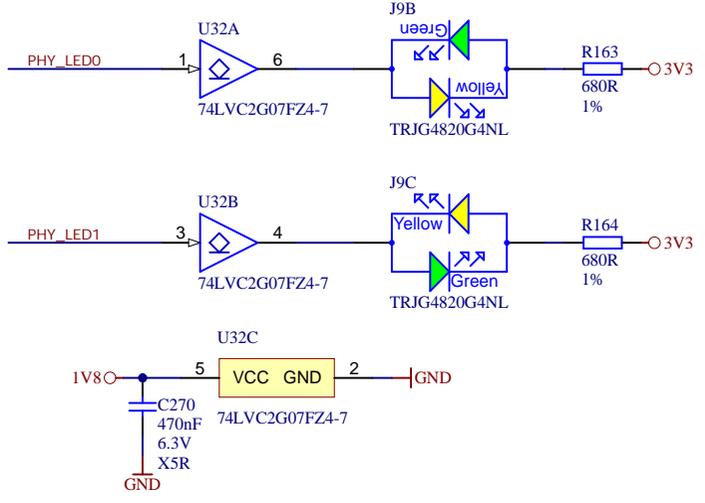
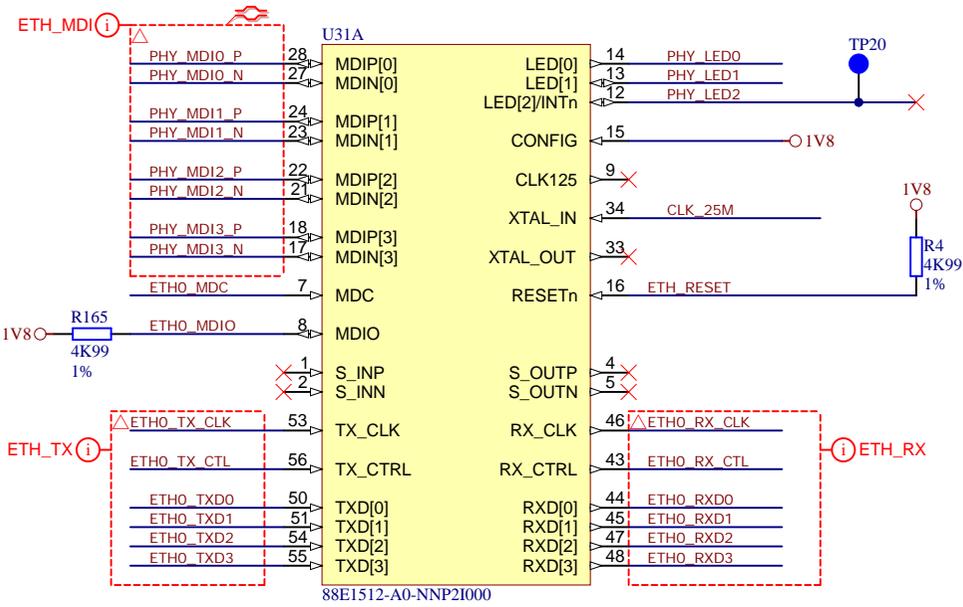


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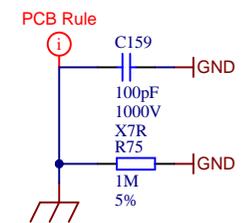
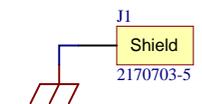
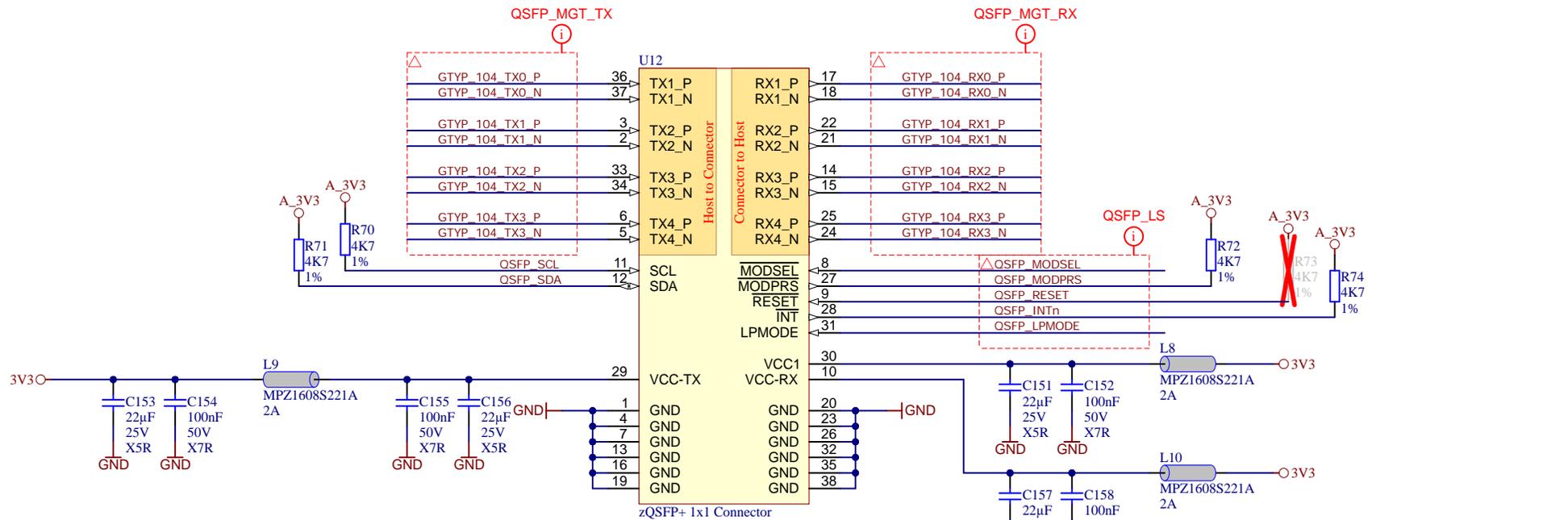


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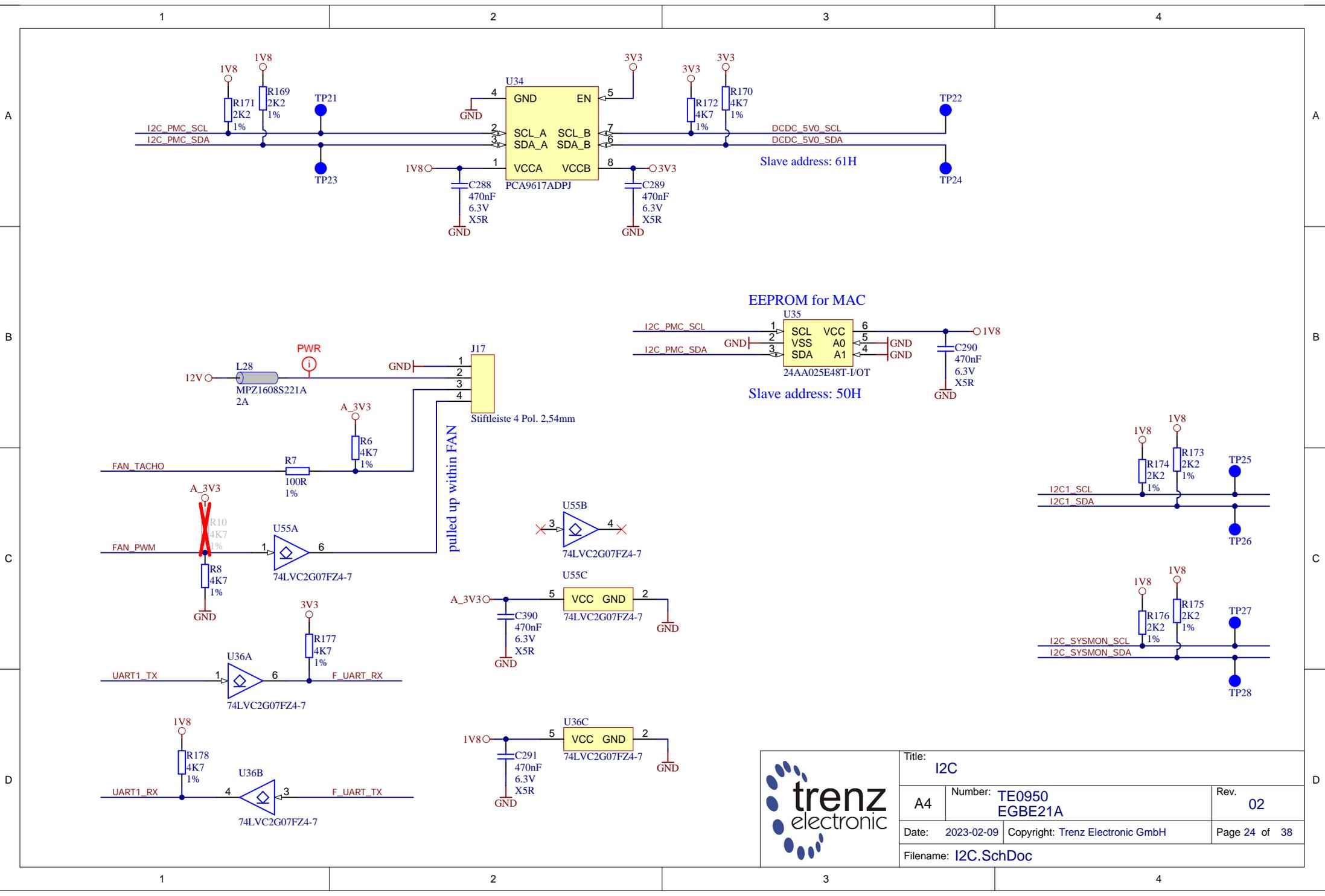




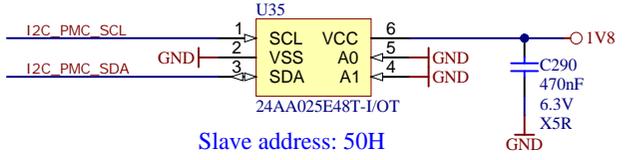
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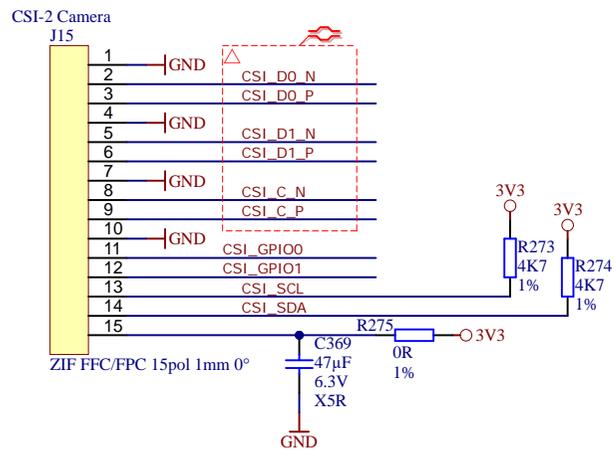
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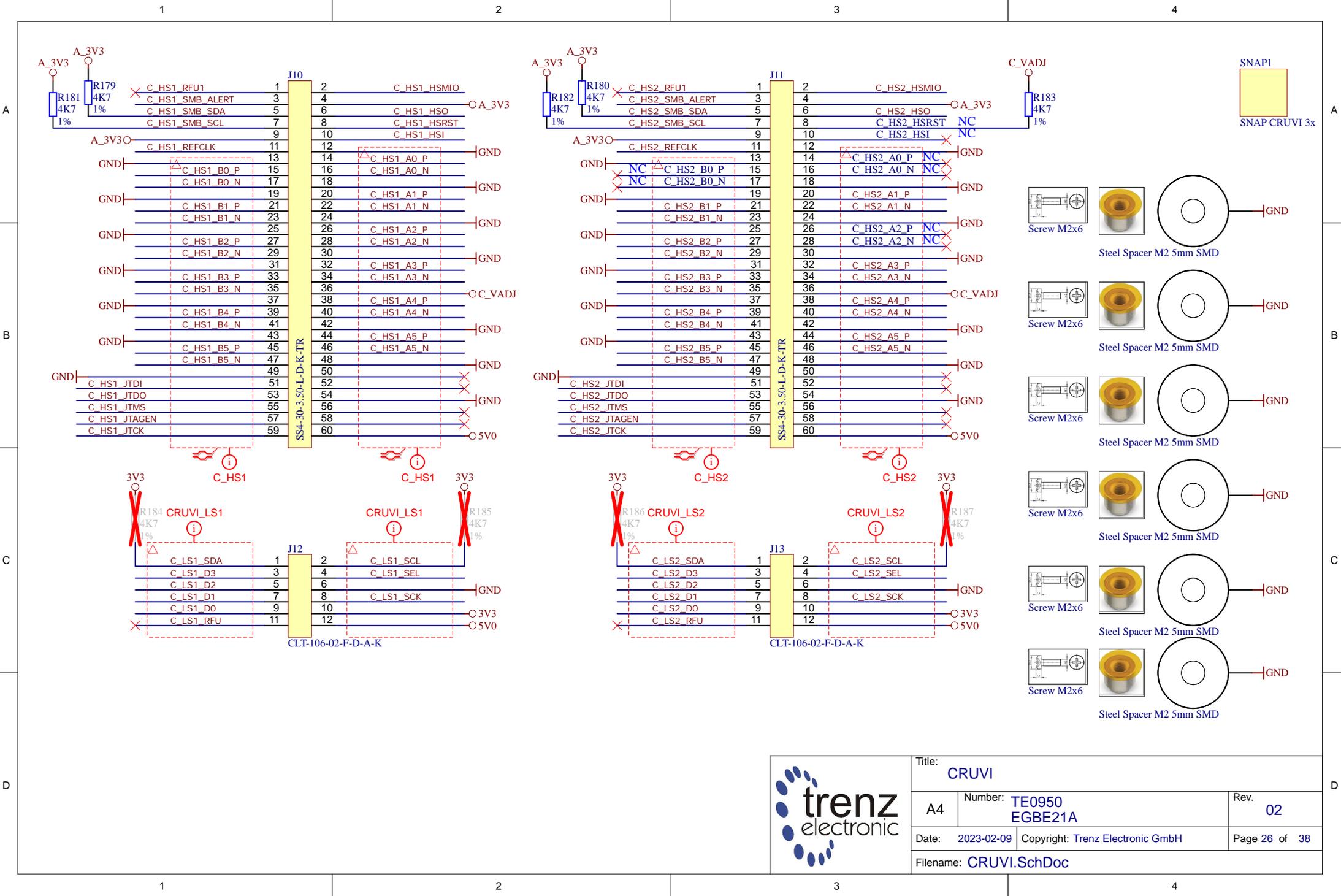
EEPROM for MAC



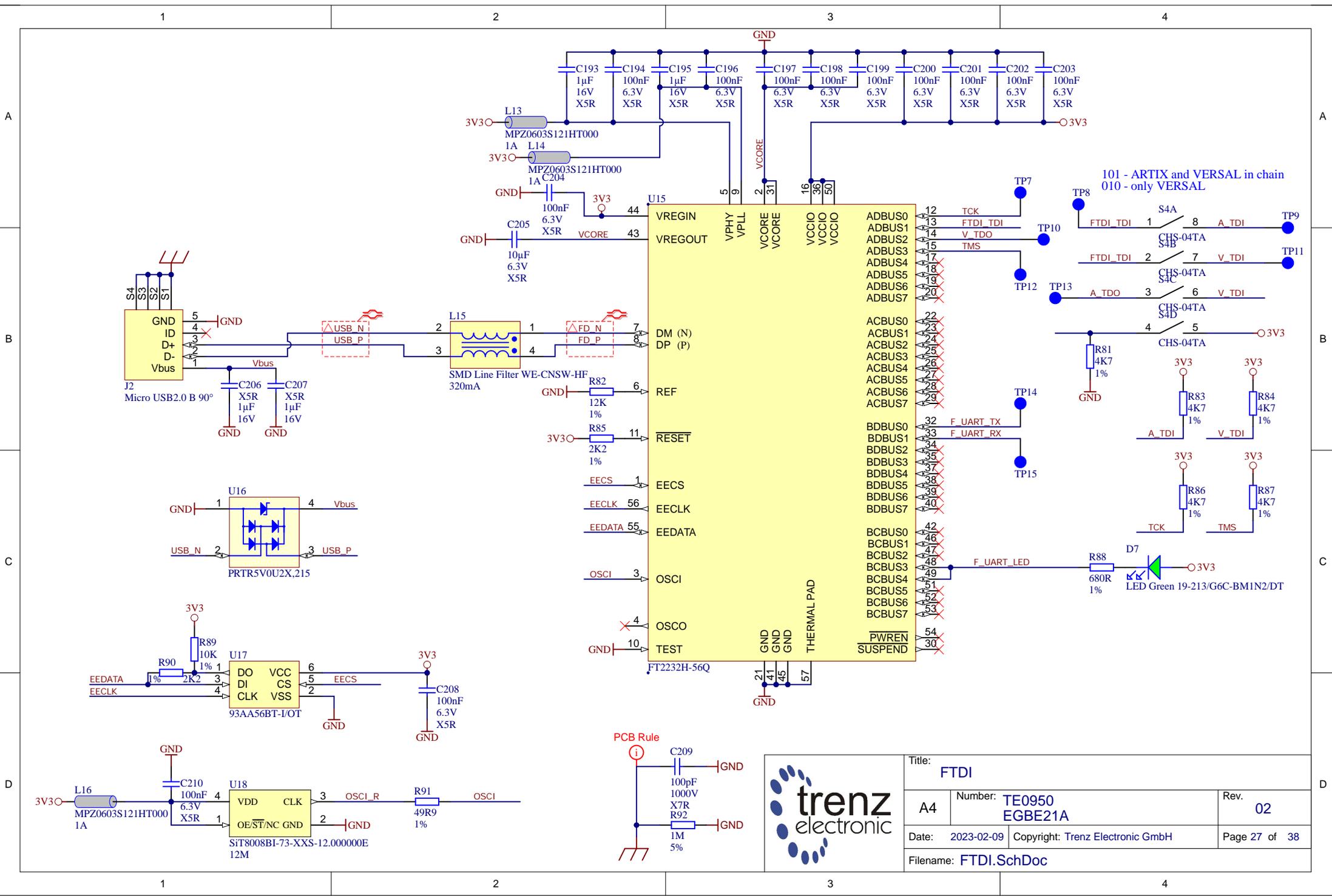
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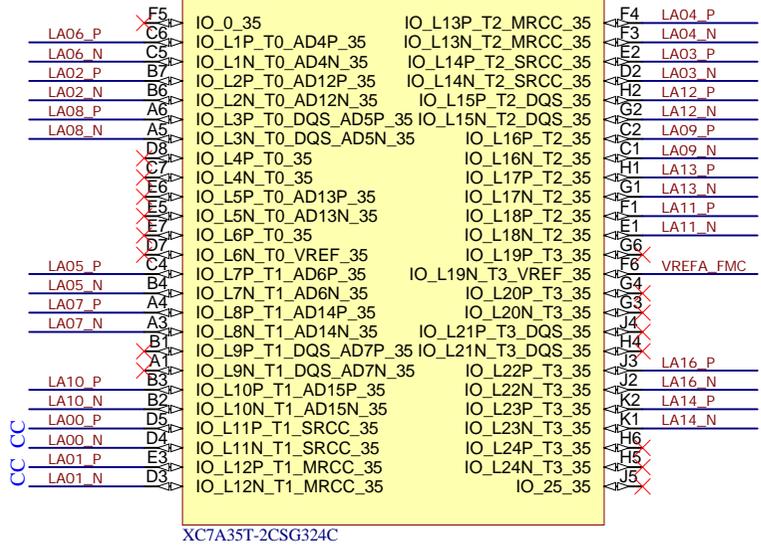
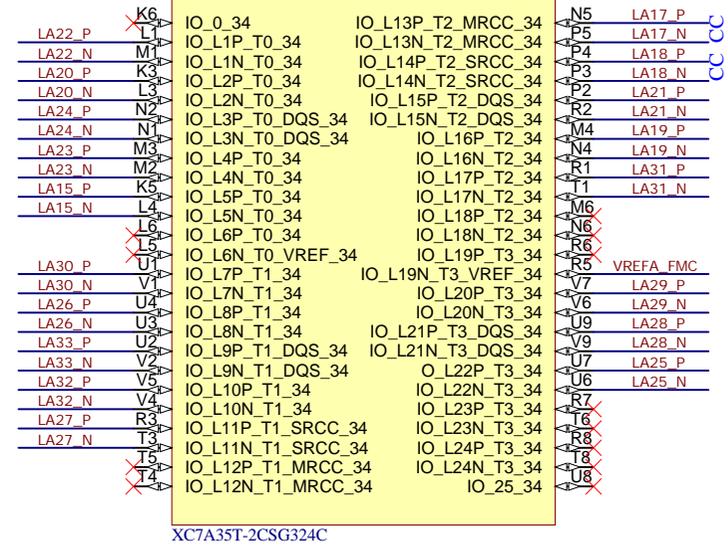
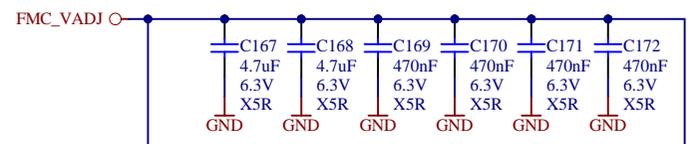
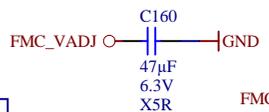
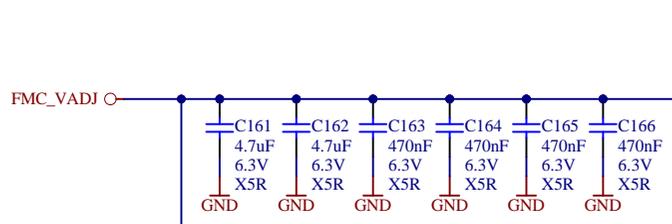
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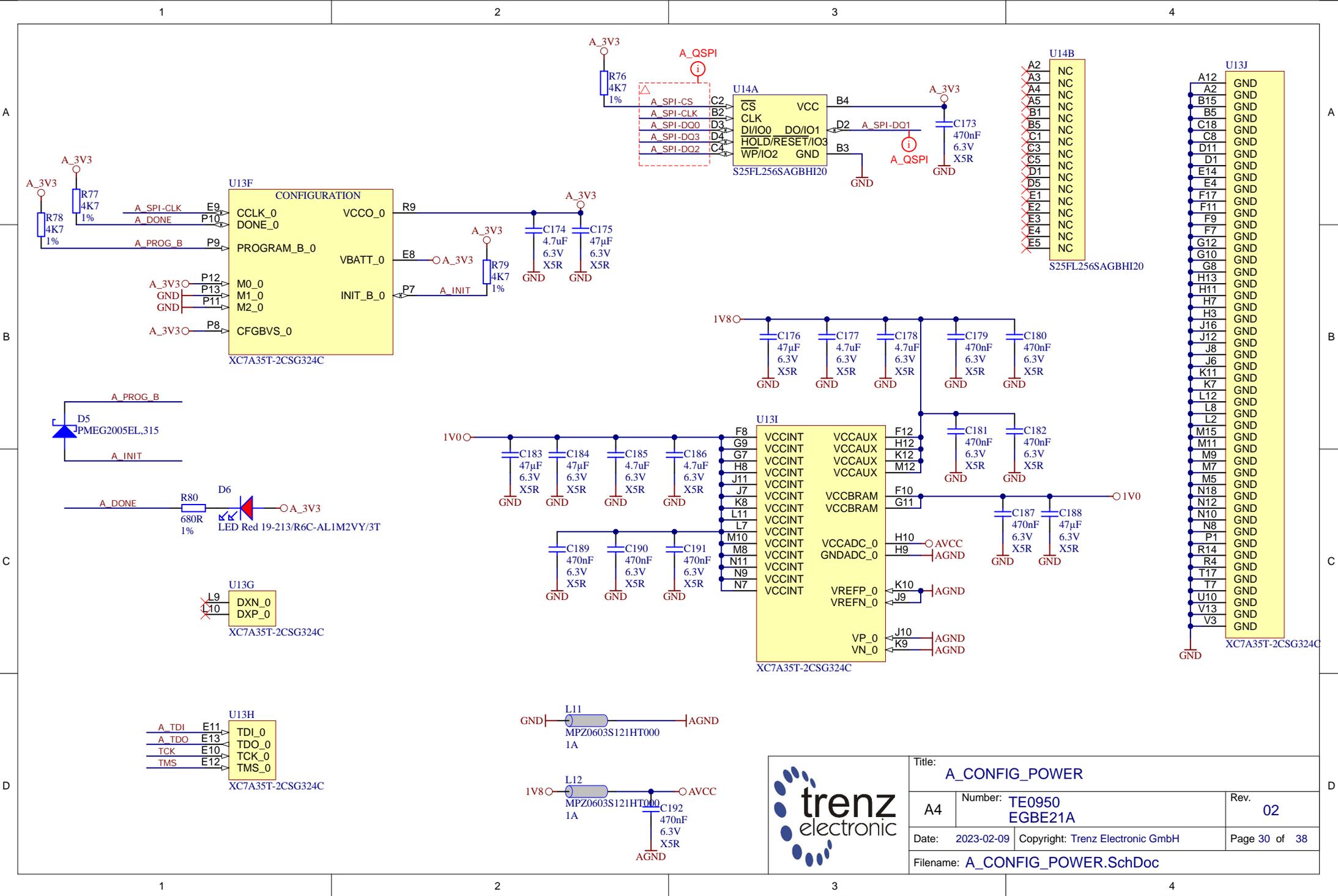
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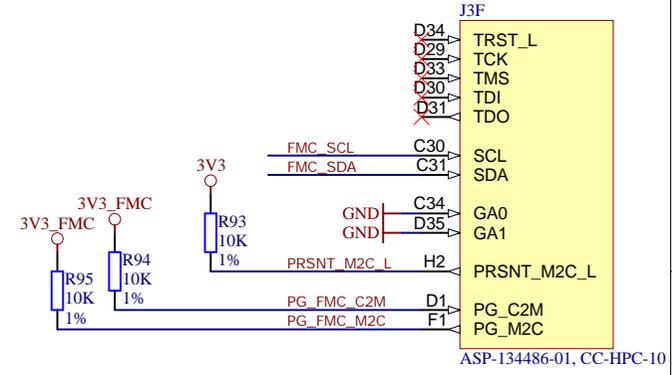
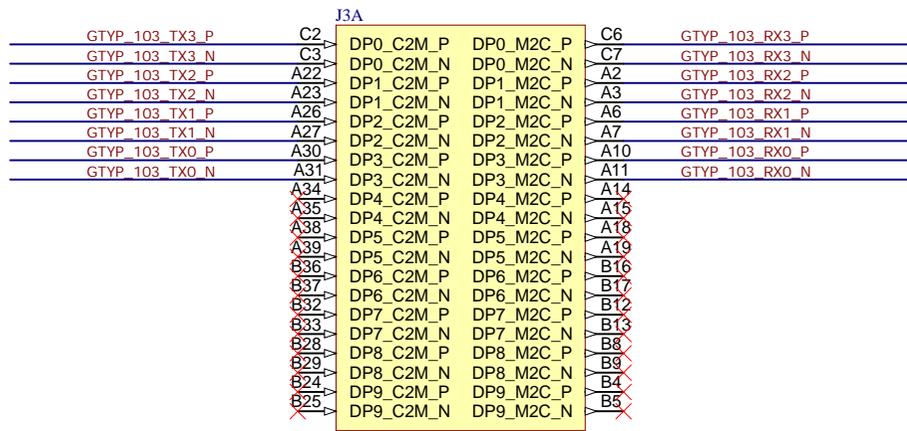
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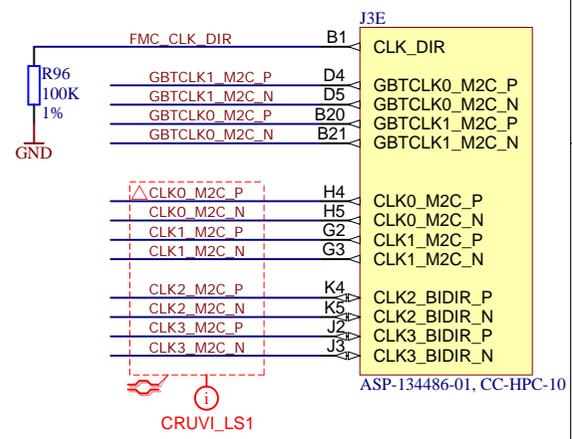
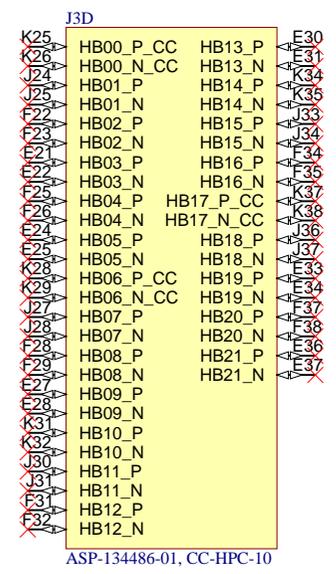
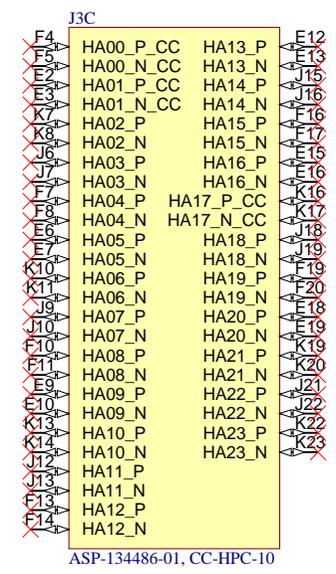
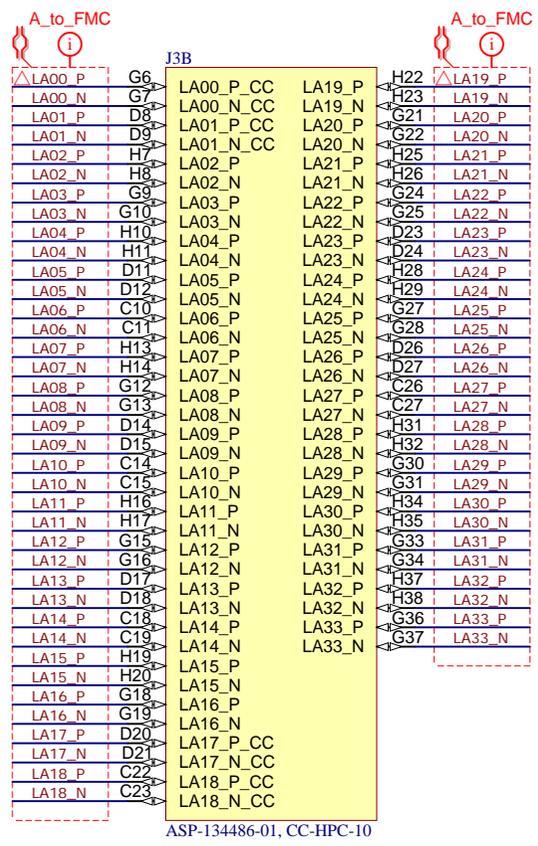
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B

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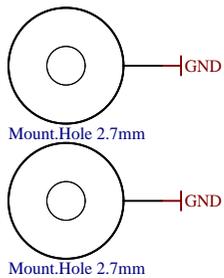
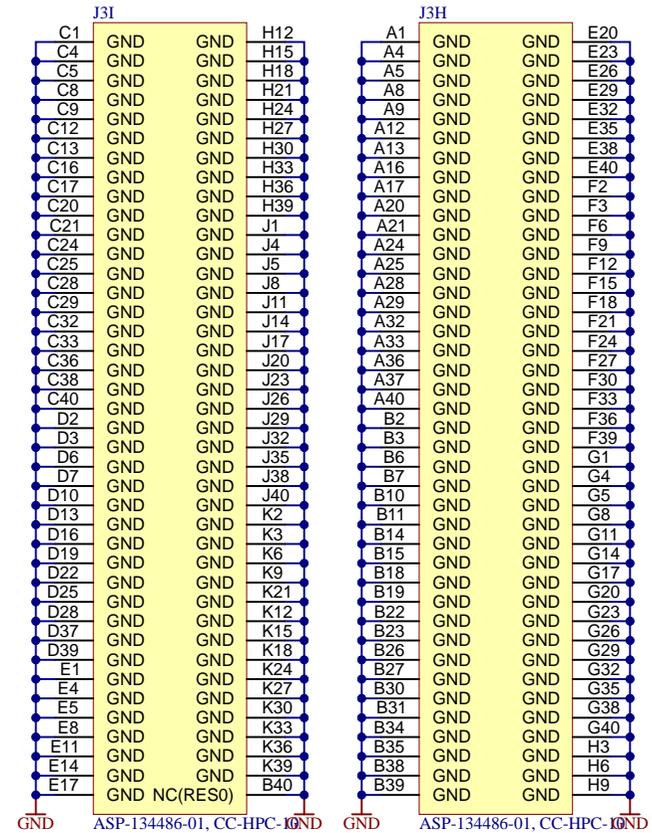
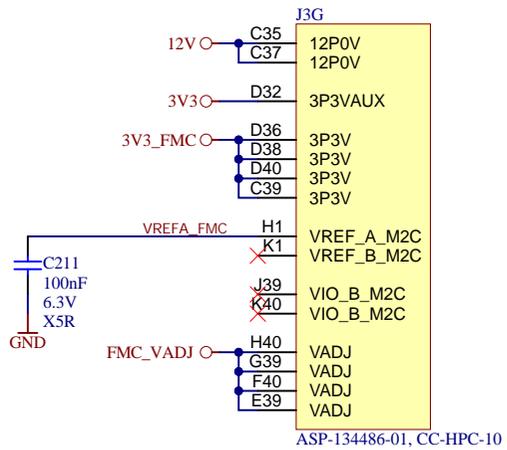
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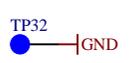
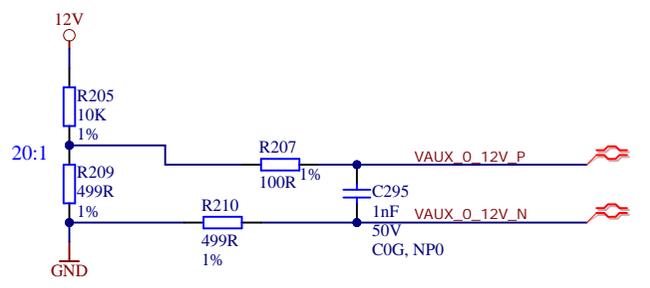
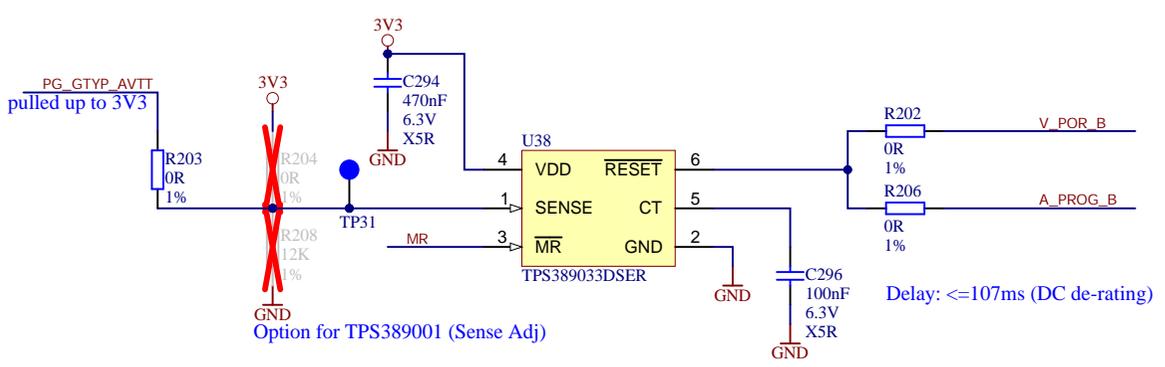
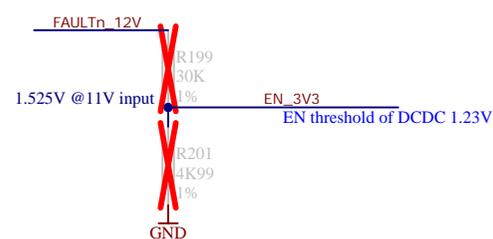
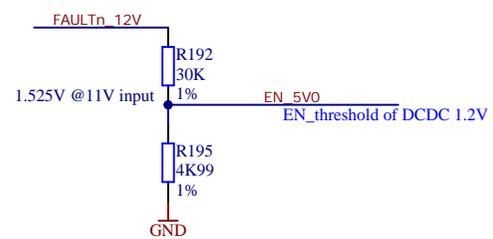
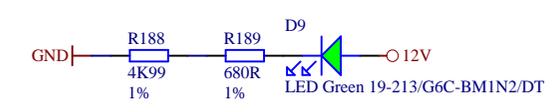
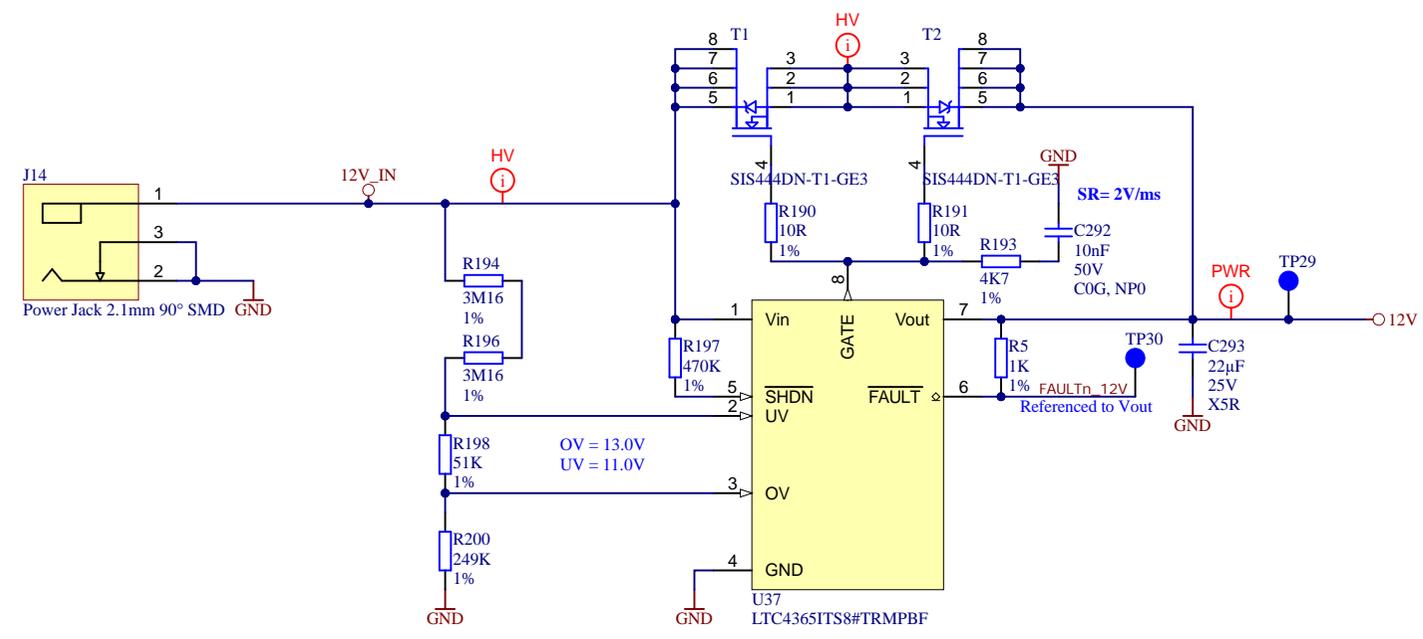
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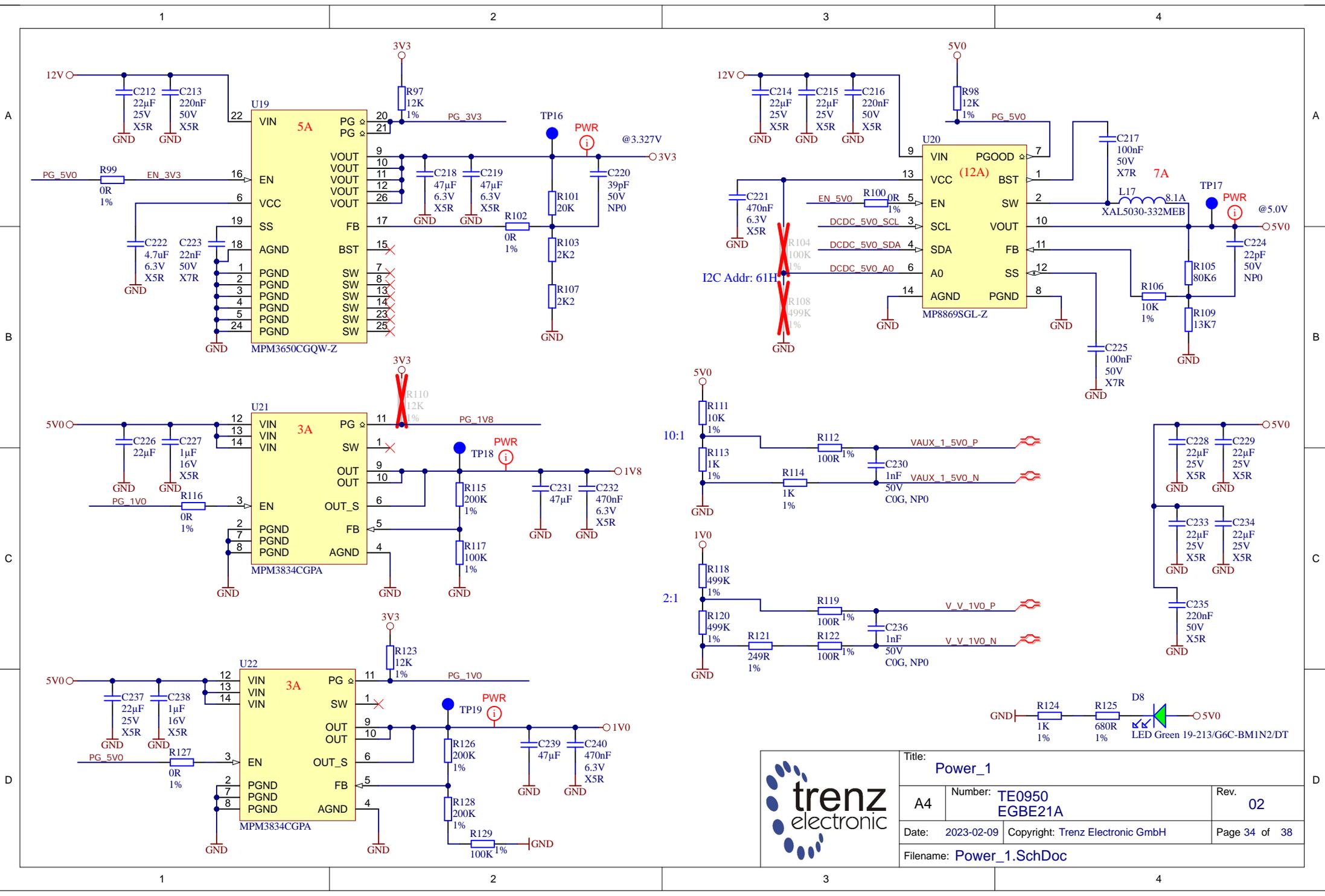
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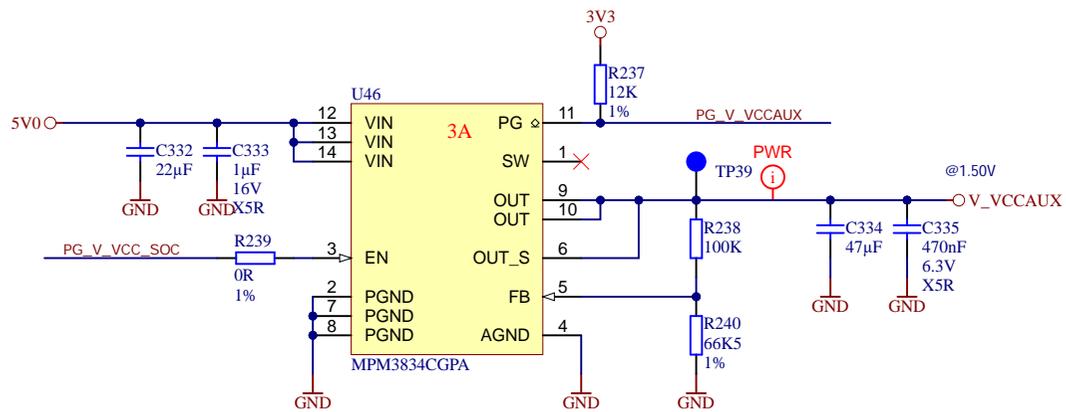
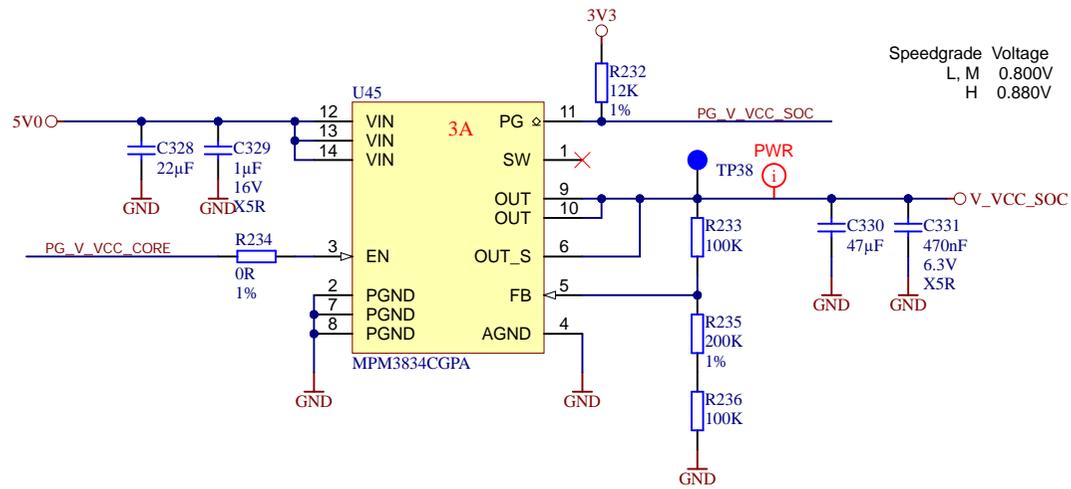
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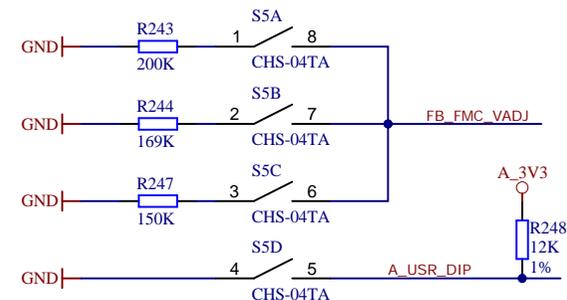
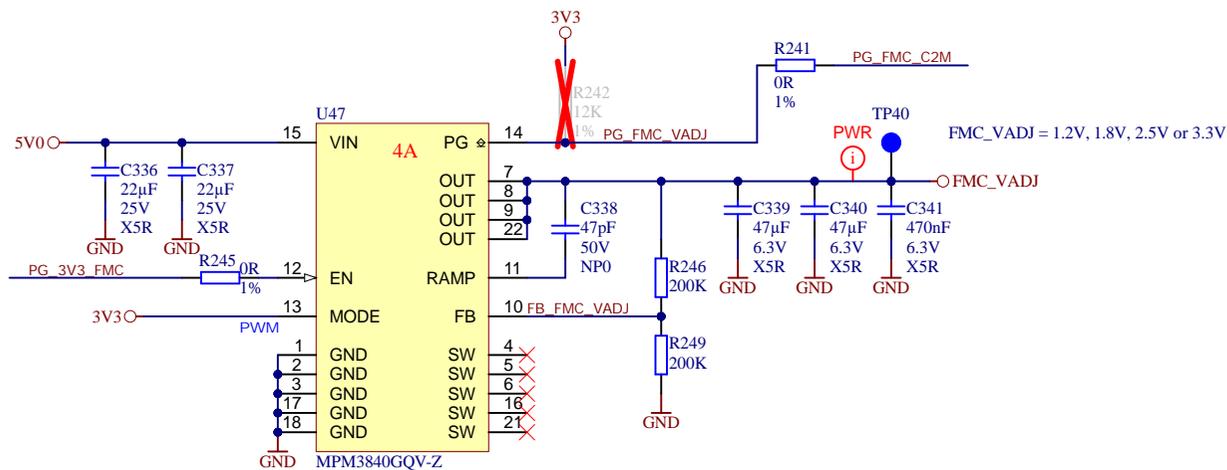
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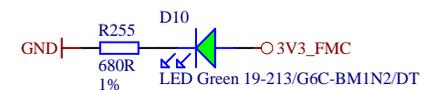
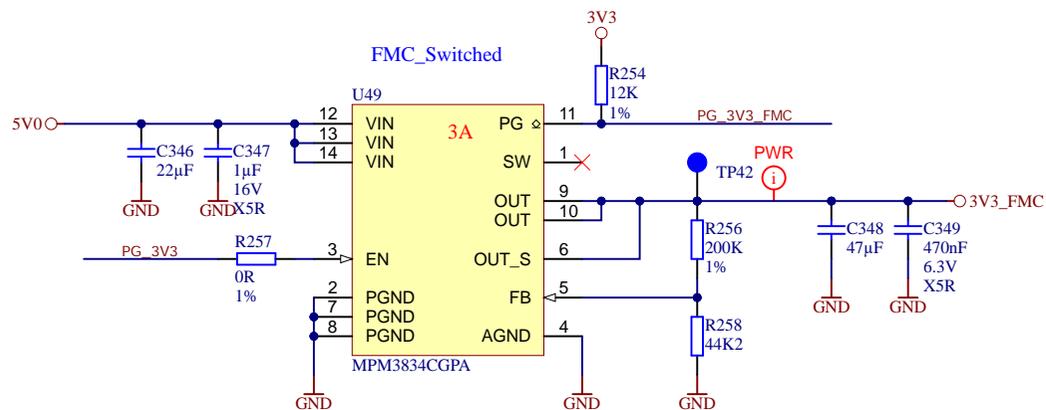
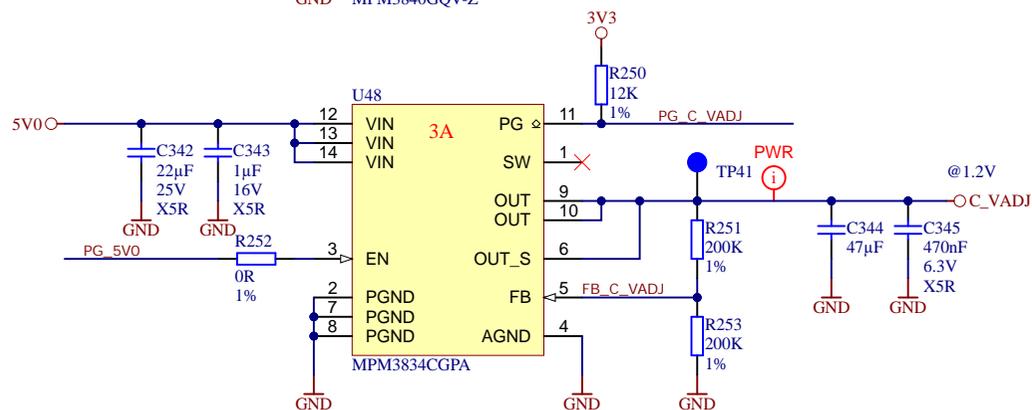
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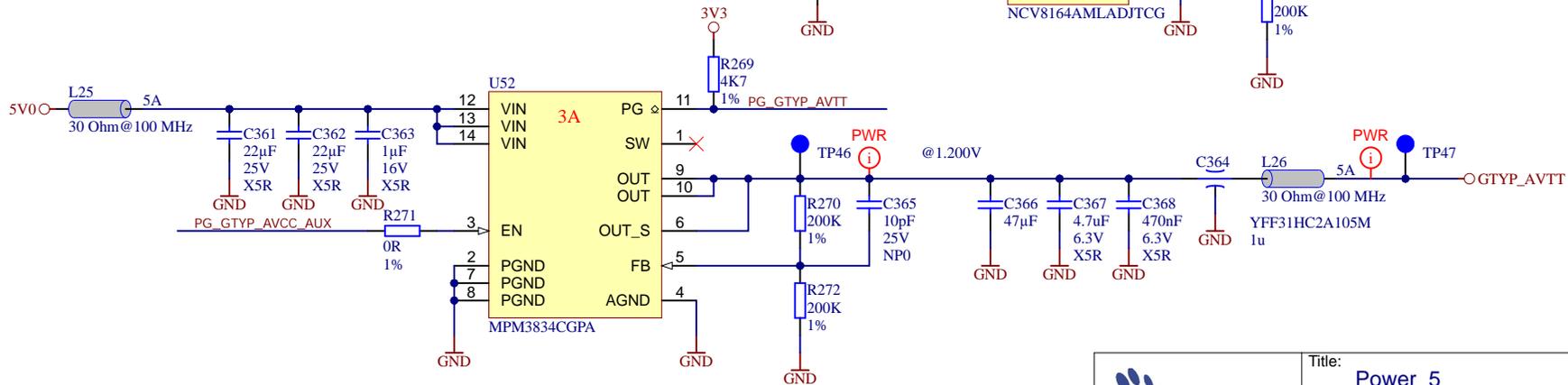
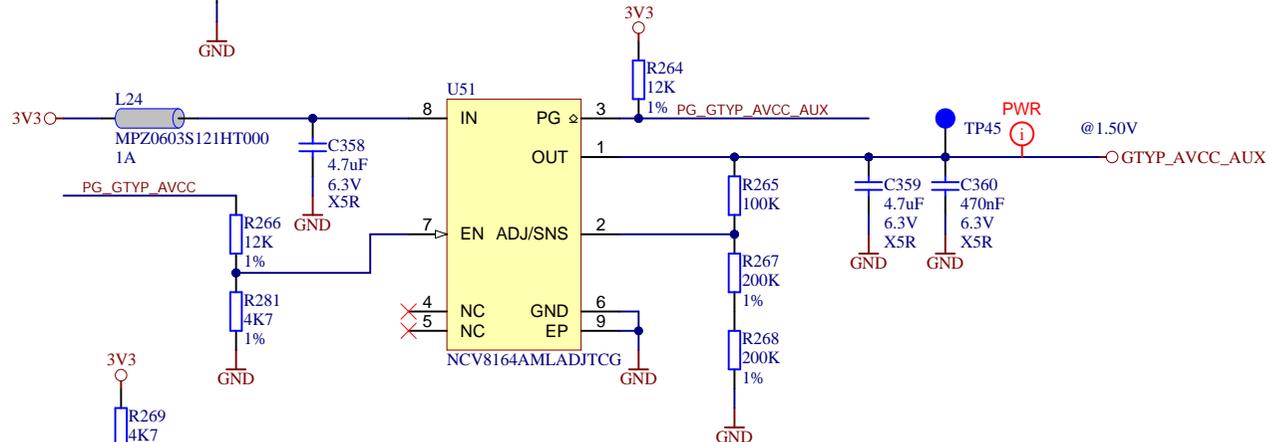
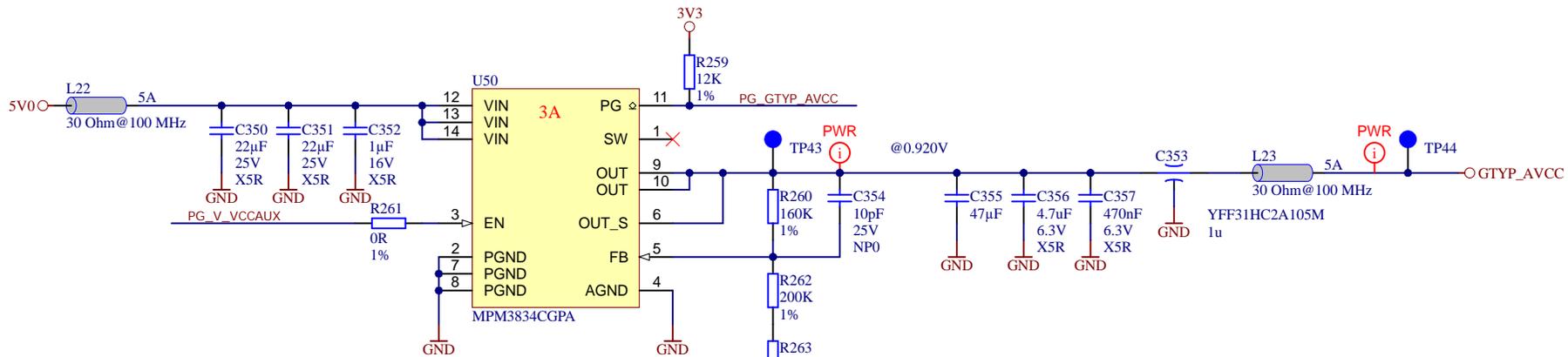
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1.2V 1.8V 2.5V 3.3V
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