

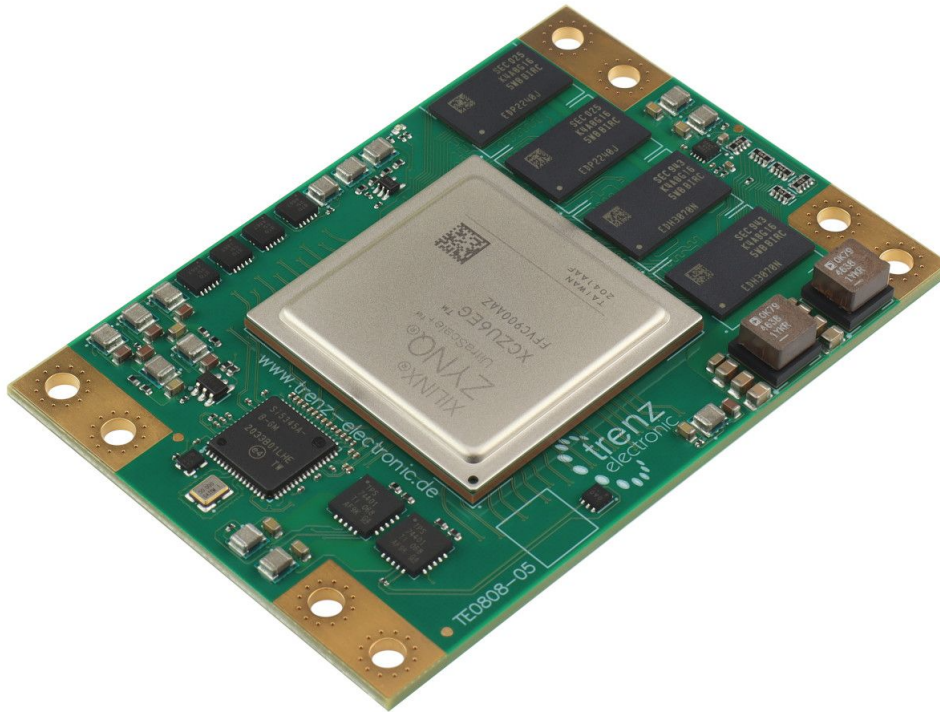


Photo Shows Similar Product

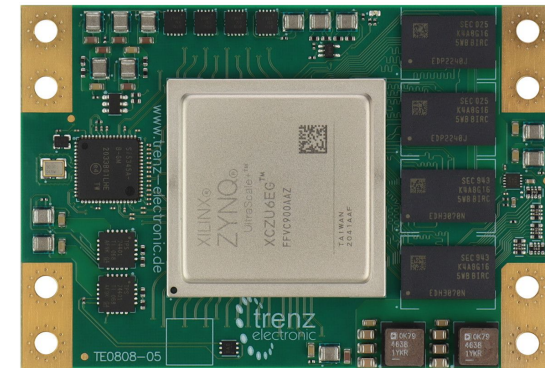


Photo Shows Similar Product

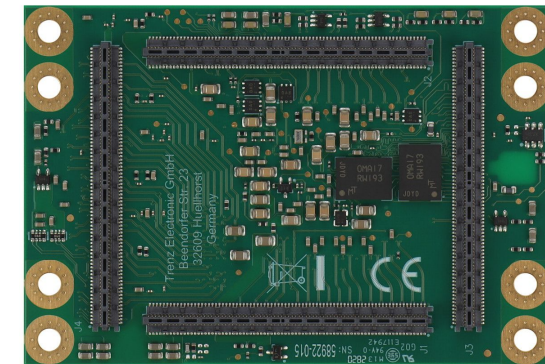


Photo Shows Similar Product

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Schematics and other handouts serve for informational purposes only!

	Title: TE0808 - Legal Notices		
	A4	Number: TE0808 6BE51-F	Rev. 06
	Date: 12/4/2025	Copyright: Trenz Electronic GmbH	Page 1 of 32
	Filename: Legal Notices.SchDoc		

1		2		3		4												
A	<table><tr><td>REV</td><td>Description</td><td></td></tr><tr><td>-01</td><td>Initial revision</td><td></td></tr><tr><td>-04</td><td>1) Added resistors R65,R82,R86,R87 (240R) for each DDR4-chip for supporting DDP DDR4 chips 2) Full library update</td><td></td></tr><tr><td>-04a</td><td>1) R19 value was changed to 10K (was: 4K99) to set PS_MGTRAVCC 0.85V</td><td>VY</td></tr></table>		REV	Description		-01	Initial revision		-04	1) Added resistors R65,R82,R86,R87 (240R) for each DDR4-chip for supporting DDP DDR4 chips 2) Full library update		-04a	1) R19 value was changed to 10K (was: 4K99) to set PS_MGTRAVCC 0.85V	VY				
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Date: 2/26/2026	Copyright: Trenz Electronic GmbH	Page 2 of 32																
Filename: Revision_Changes.SchDoc																		
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A

D

EN_XY Net name

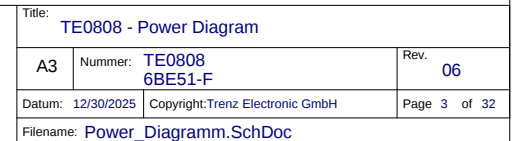
Power bus

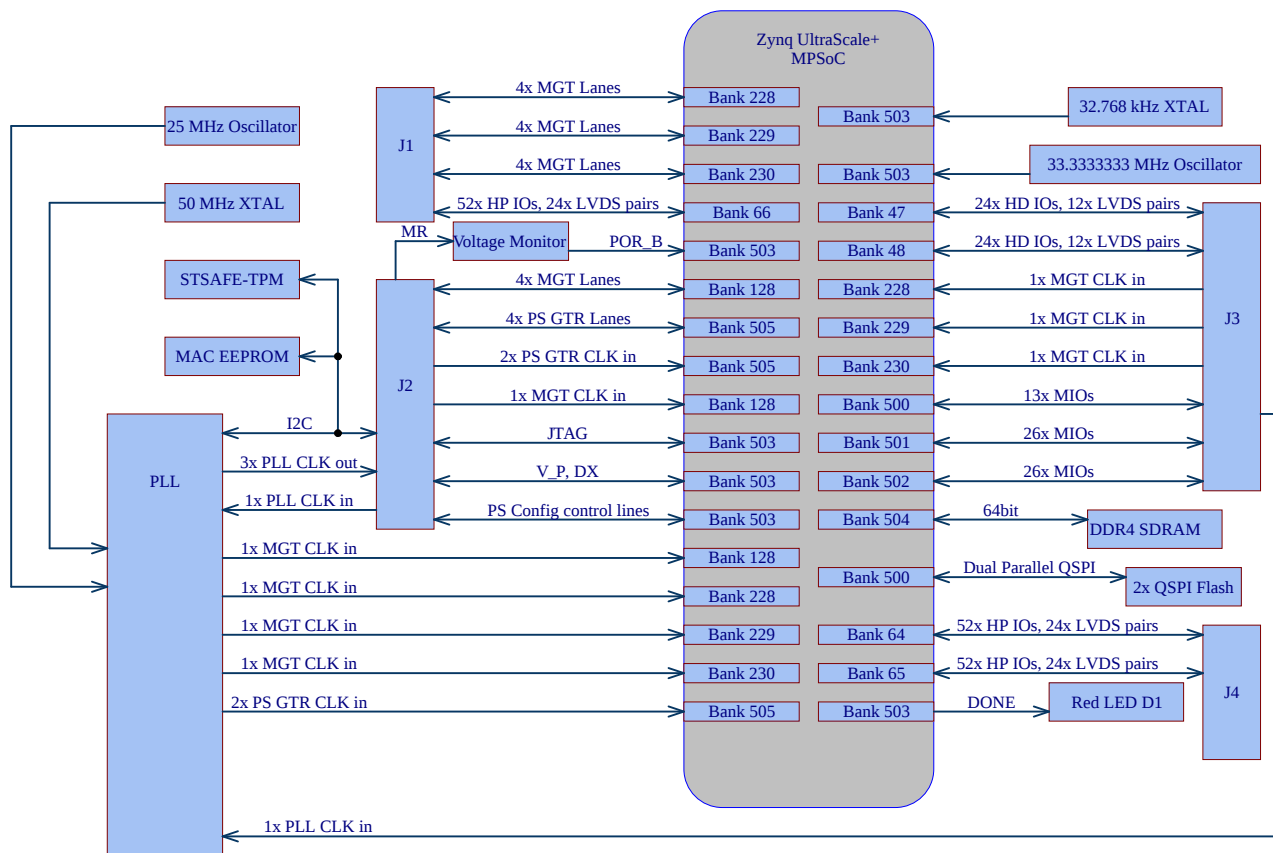
Control signal

U2

VOUT PG Power converter / Switch

B2B Board-to-Board Samtec Connector





I2C Address Table

U4	EEPROM	0x50
U5	PLL	0x69
U47	TPM	0x2E

ZU_PS_POWER

DDR4-RAM_2

DDR4-RAM_4

POWER_2

TE0808

ZU_POWER

DDR4-RAM_3

POWER

POWER_3

DDR4-TERM



Title:

TE0808 - System Overview

A4

Number:

TE0808

Rev.

06

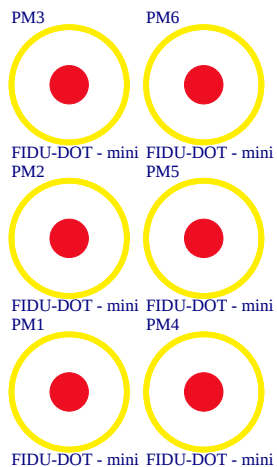
Date: 1/6/2026

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Page 4 of 32

Filename: System_Overview.SchDoc

Special notes:



~~Serial1~~
Serialnumber 6,3 x 6.3mm

Serial2
Serial
Serialnumber 6,3 x 6.3mm
AD only

UKCA1

UKCA Logo on Top Overlay

UKCA-TOPOVERLAY

Design drawn by: MT
Checked by: VY

Assembly variant: 6BE51-F
Created by: MT
Modified by: MT
Modified at: 2025-12-18



Title:
TE0808

A4

Number: TE0808
6BE51-F

Rev. 06

Date: 2/2/2026

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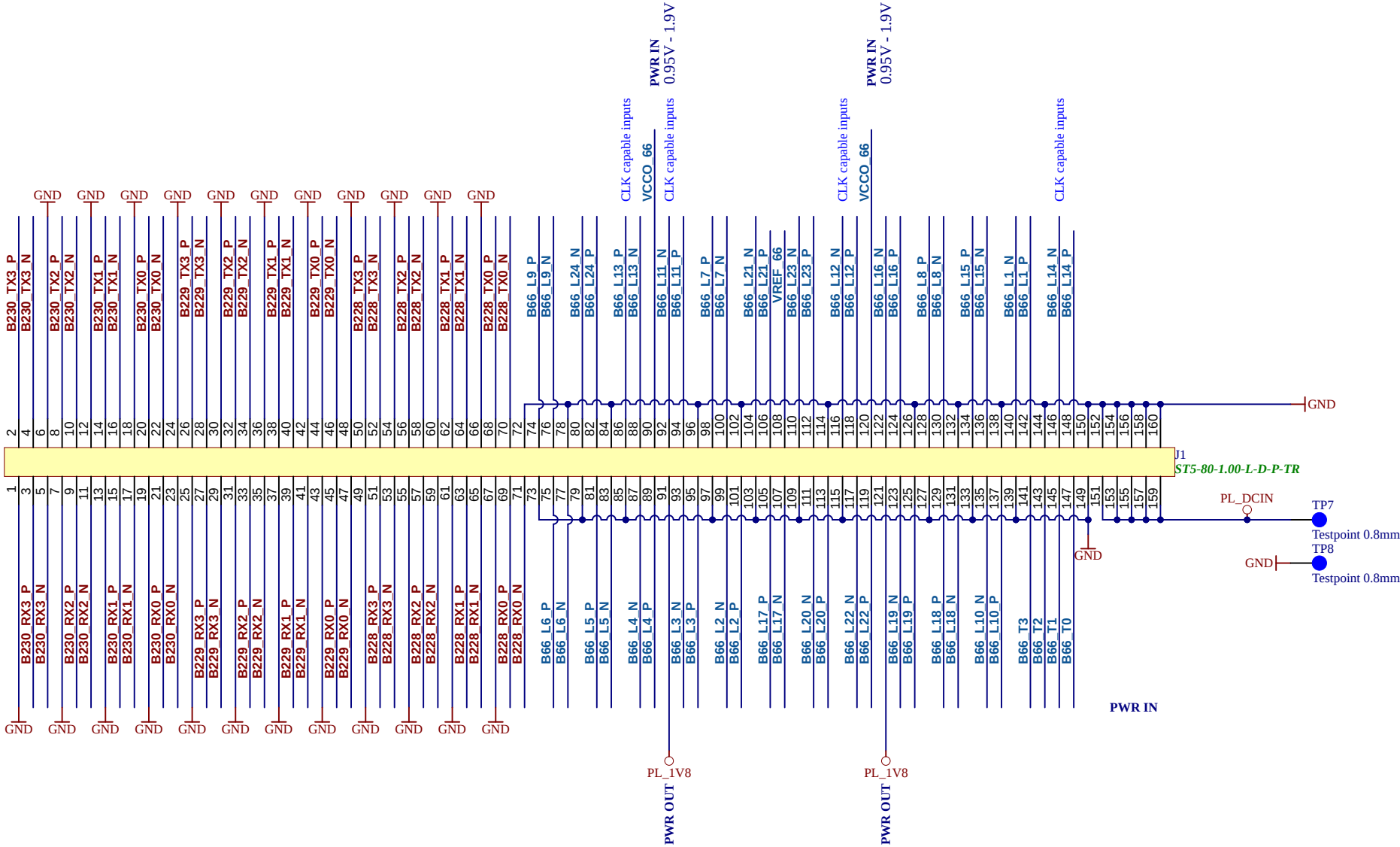
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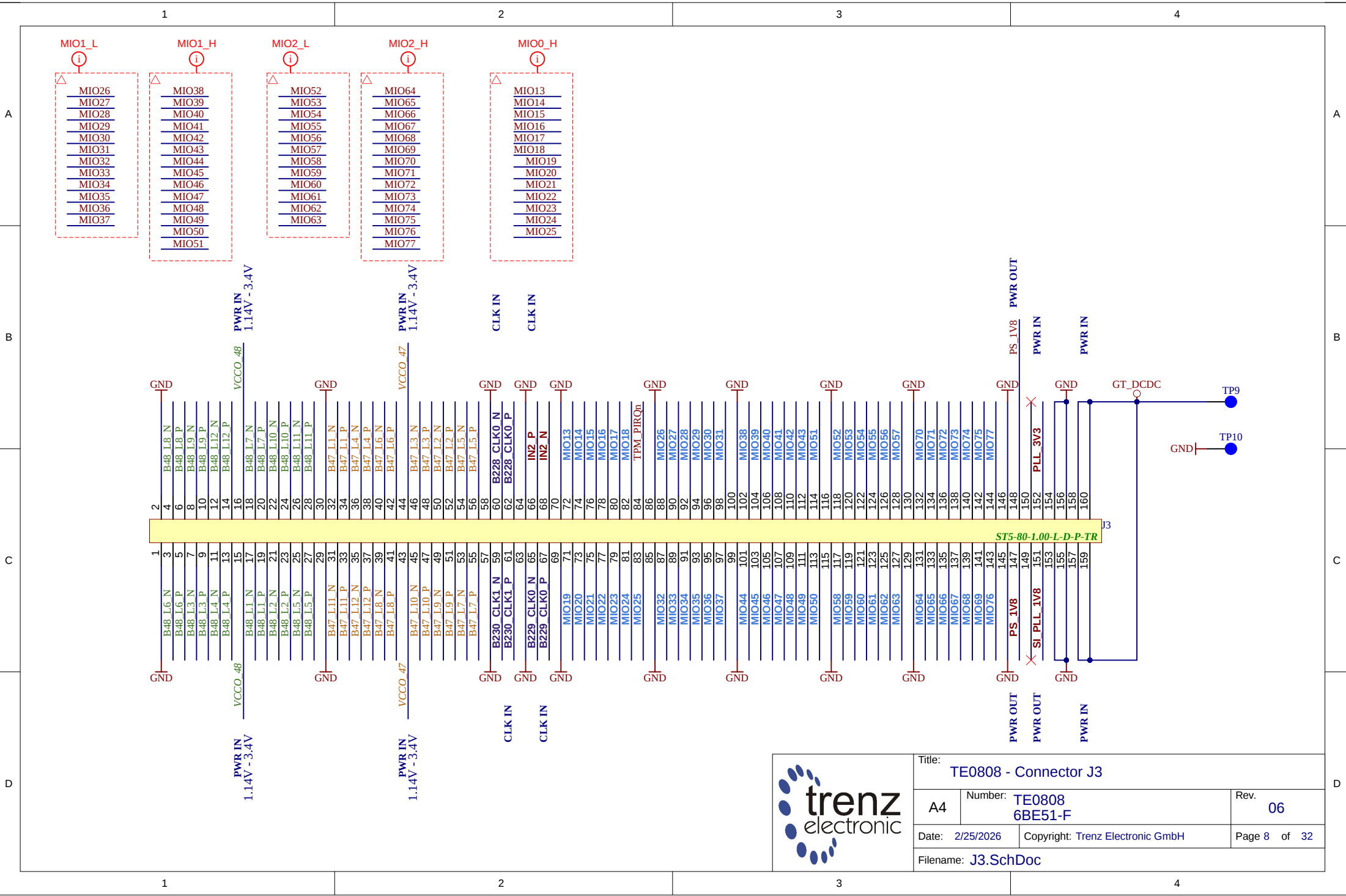
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	Filename: J1.SchDoc		

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Title: TE0808 - Connector J3		
A4	Number: TE0808 6BE51-F	Rev. 06
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Filename: J3.SchDoc		

A

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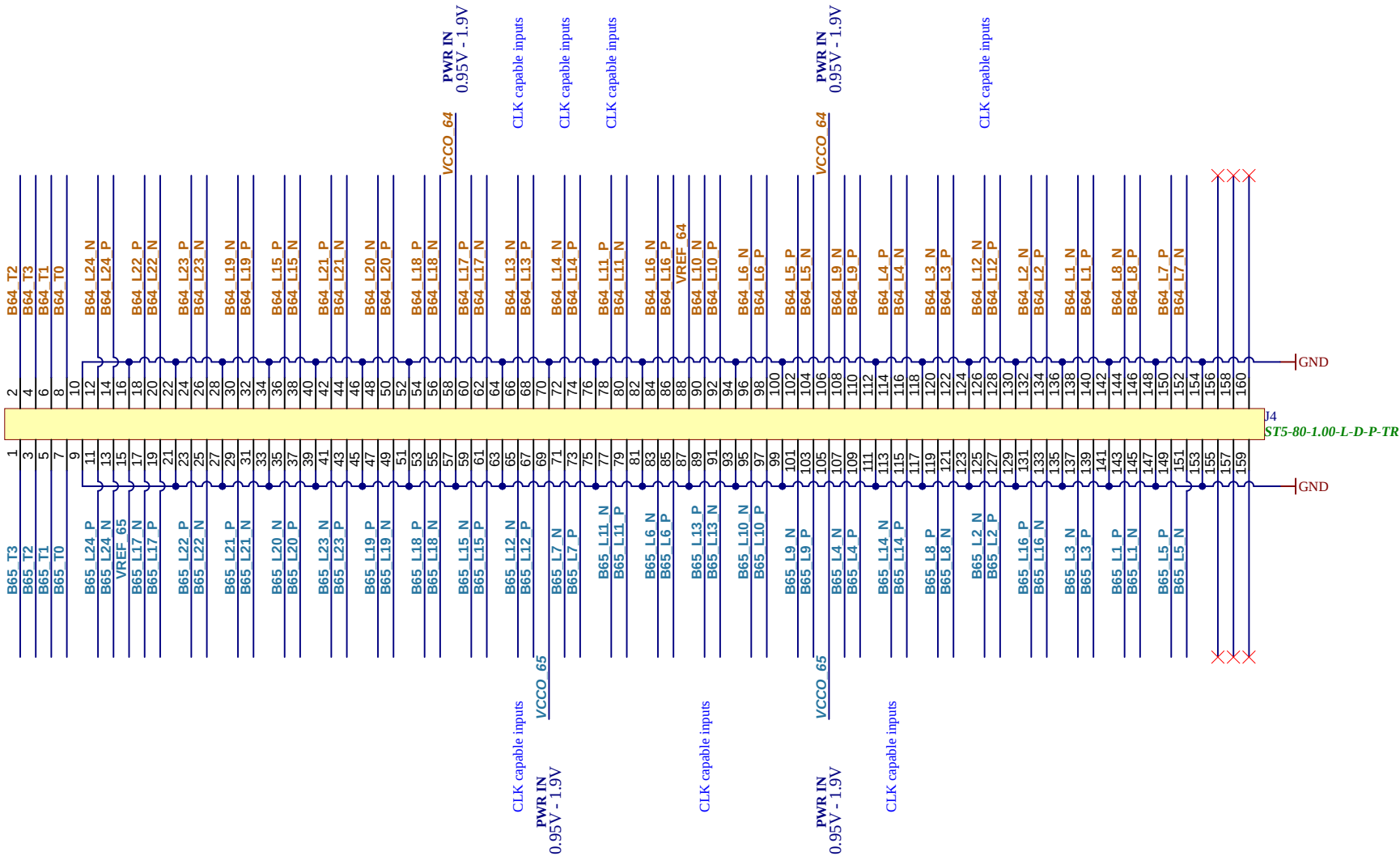
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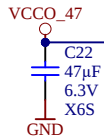
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1.14V - 3.4V



PWR

B47

U1B

VCCO_47
VCCO_47

BANK 47 HD

B47_L1_P
B47_L1_N
B47_L2_P
B47_L2_N
B47_L3_P
B47_L3_N
B47_L4_P
B47_L4_N
B47_L5_P
B47_L5_N
B47_L6_P
B47_L6_N

B15
A15
B14
A14
B13
A13
C14
C13
D15
D14
E14
E13

IO_L1P_AD11P_47
IO_L1N_AD11N_47
IO_L2P_AD10P_47
IO_L2N_AD10N_47
IO_L3P_AD9P_47
IO_L3N_AD9N_47
IO_L4P_AD8P_47
IO_L4N_AD8N_47
IO_L5P_HDGC_AD7P_47
IO_L5N_HDGC_AD7N_47
IO_L6P_HDGC_AD6P_47
IO_L6N_HDGC_AD6N_47

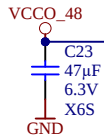
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IO_L7N_HDGC_AD5N_47
IO_L8P_HDGC_AD4P_47
IO_L8N_HDGC_AD4N_47
IO_L9P_AD3P_47
IO_L9N_AD3N_47
IO_L10P_AD2P_47
IO_L10N_AD2N_47
IO_L11P_AD1P_47
IO_L11N_AD1N_47
IO_L12P_AD0P_47
IO_L12N_AD0N_47

F15
E15
G13
F13
G15
G14
K15
J15
K14
J14
H14
H13

B47_L7_P
B47_L7_N
B47_L8_P
B47_L8_N
B47_L9_P
B47_L9_N
B47_L10_P
B47_L10_N
B47_L11_P
B47_L11_N
B47_L12_P
B47_L12_N

B47

1.14V - 3.4V



PWR

B48

H10

VCCO_48
VCCO_48

BANK 48 HD

B48_L1_P
B48_L1_N
B48_L2_P
B48_L2_N
B48_L3_P
B48_L3_N
B48_L4_P
B48_L4_N
B48_L5_P
B48_L5_N
B48_L6_P
B48_L6_N

C12
B11
A12
A11
B10
A10
D11
C11
E12
D12
E10
D10

IO_L1P_AD15P_48
IO_L1N_AD15N_48
IO_L2P_AD14P_48
IO_L2N_AD14N_48
IO_L3P_AD13P_48
IO_L3N_AD13N_48
IO_L4P_AD12P_48
IO_L4N_AD12N_48
IO_L5P_HDGC_48
IO_L5N_HDGC_48
IO_L6P_HDGC_48
IO_L6N_HDGC_48

IO_L7P_HDGC_48
IO_L7N_HDGC_48
IO_L8P_HDGC_48
IO_L8N_HDGC_48
IO_L9P_AD11P_48
IO_L9N_AD11N_48
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IO_L11P_AD9P_48
IO_L11N_AD9N_48
IO_L12P_AD8P_48
IO_L12N_AD8N_48

F12
F11
G10
F10
K13
K12
H12
G11
J12
H11
J11
J10

B48_L7_P
B48_L7_N
B48_L8_P
B48_L8_N
B48_L9_P
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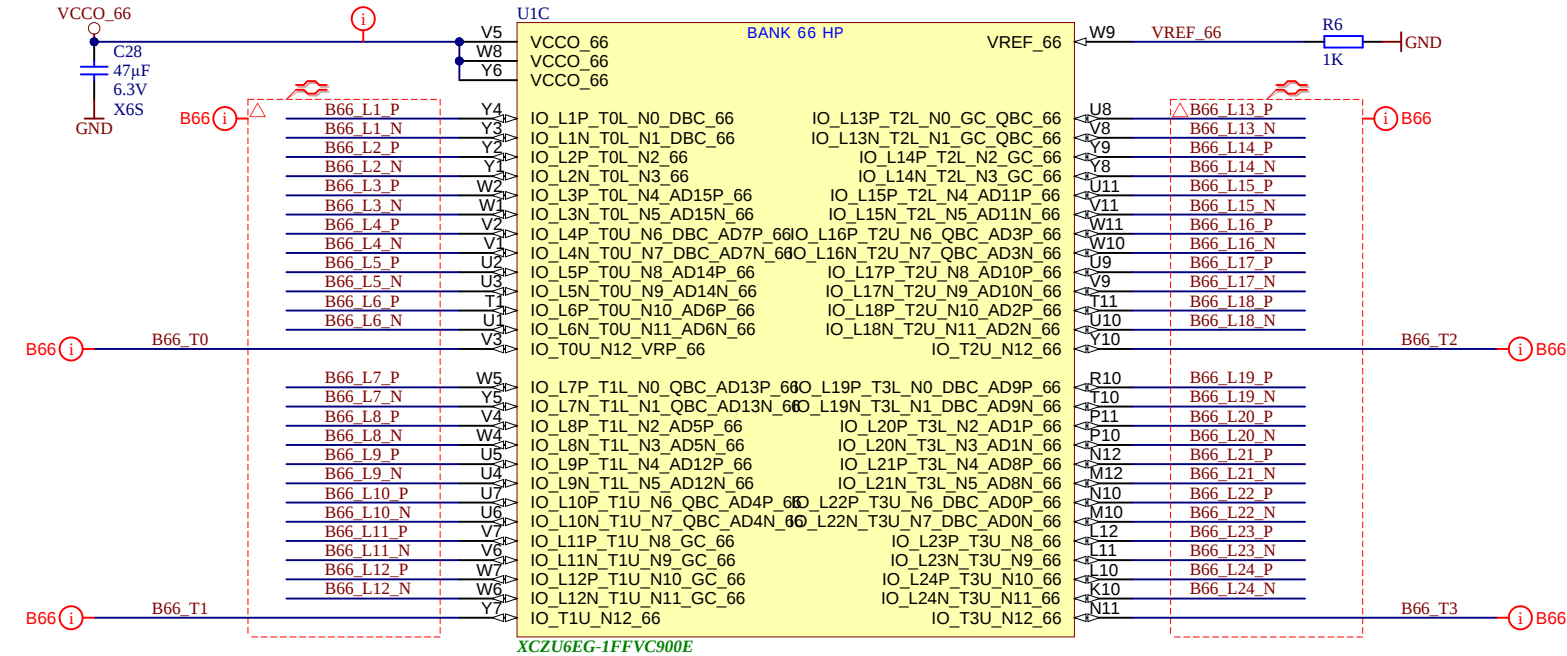
B48

XCZU6EG-1FFVC900E



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Date: 8/15/2025	Copyright: Trenz Electronic GmbH	Page 10 of 32
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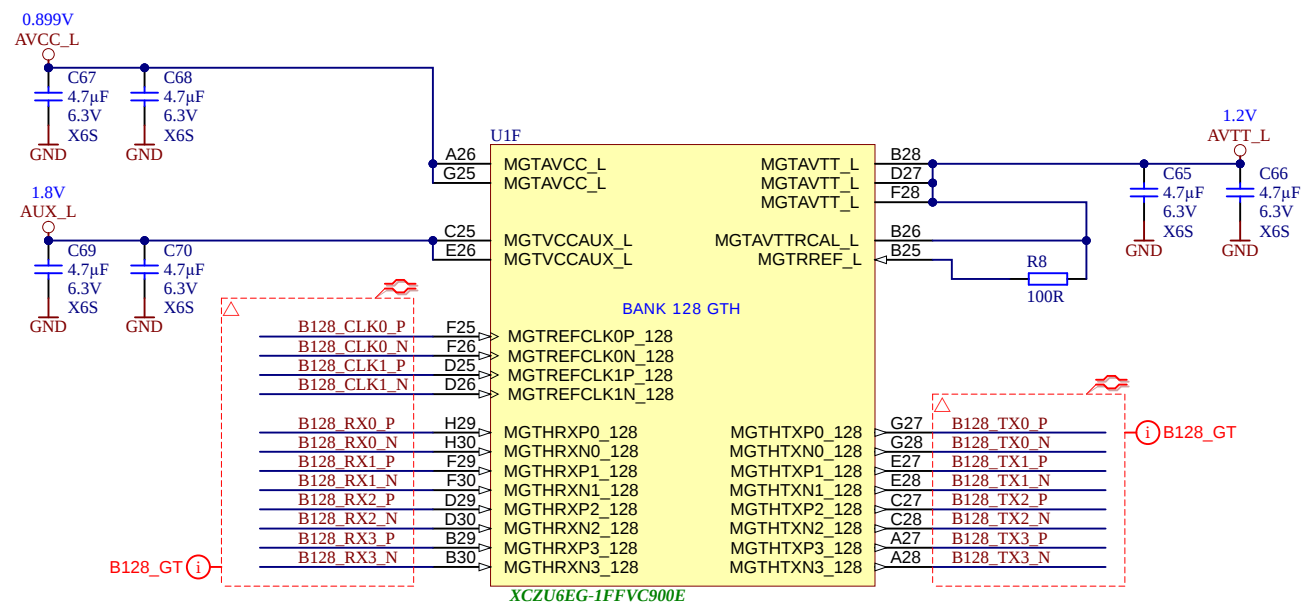
0.95V - 1.9V



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Filename: B_GT.SchDoc



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		A4 Number: TE0808 6BE51-F	Rev. 06
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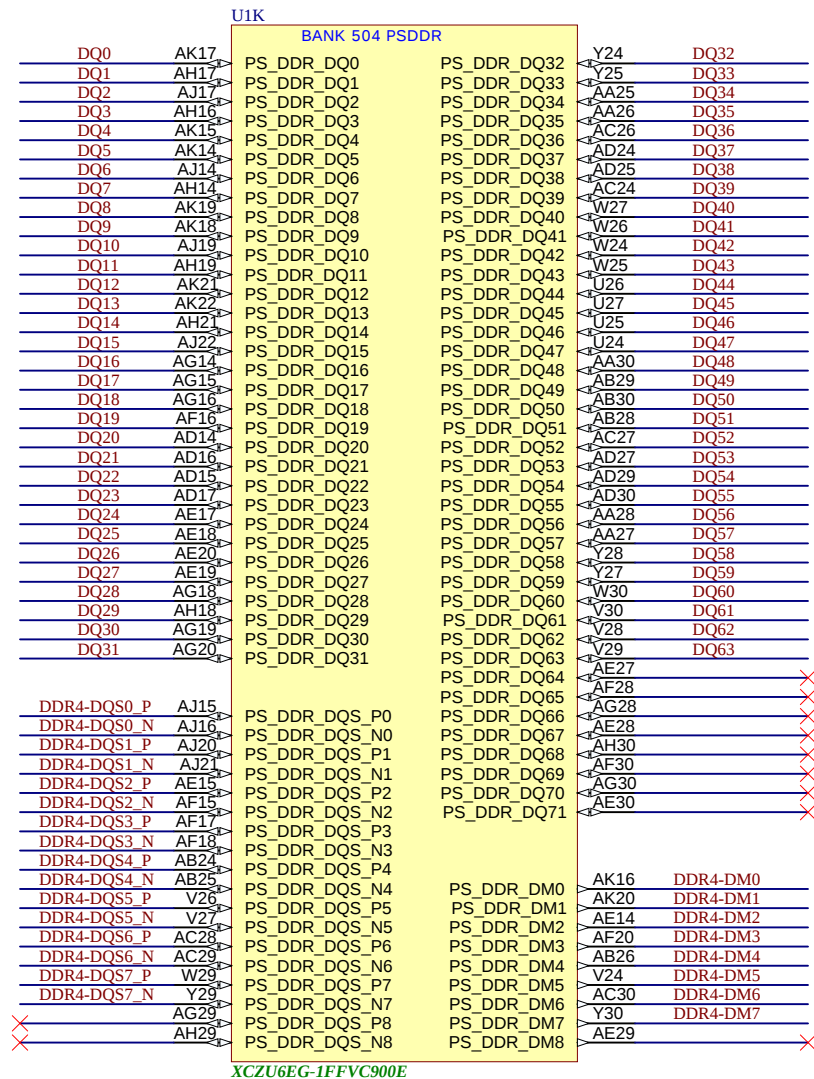
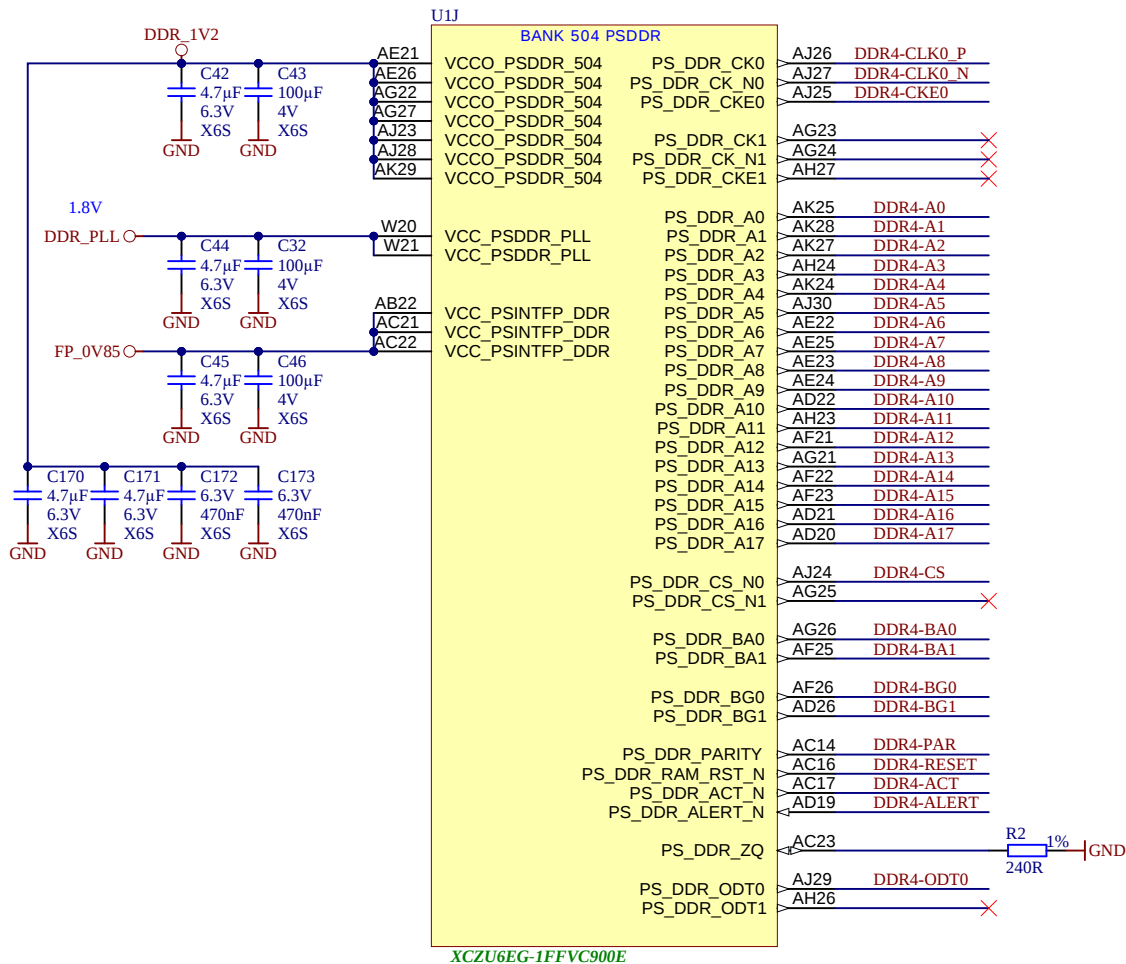
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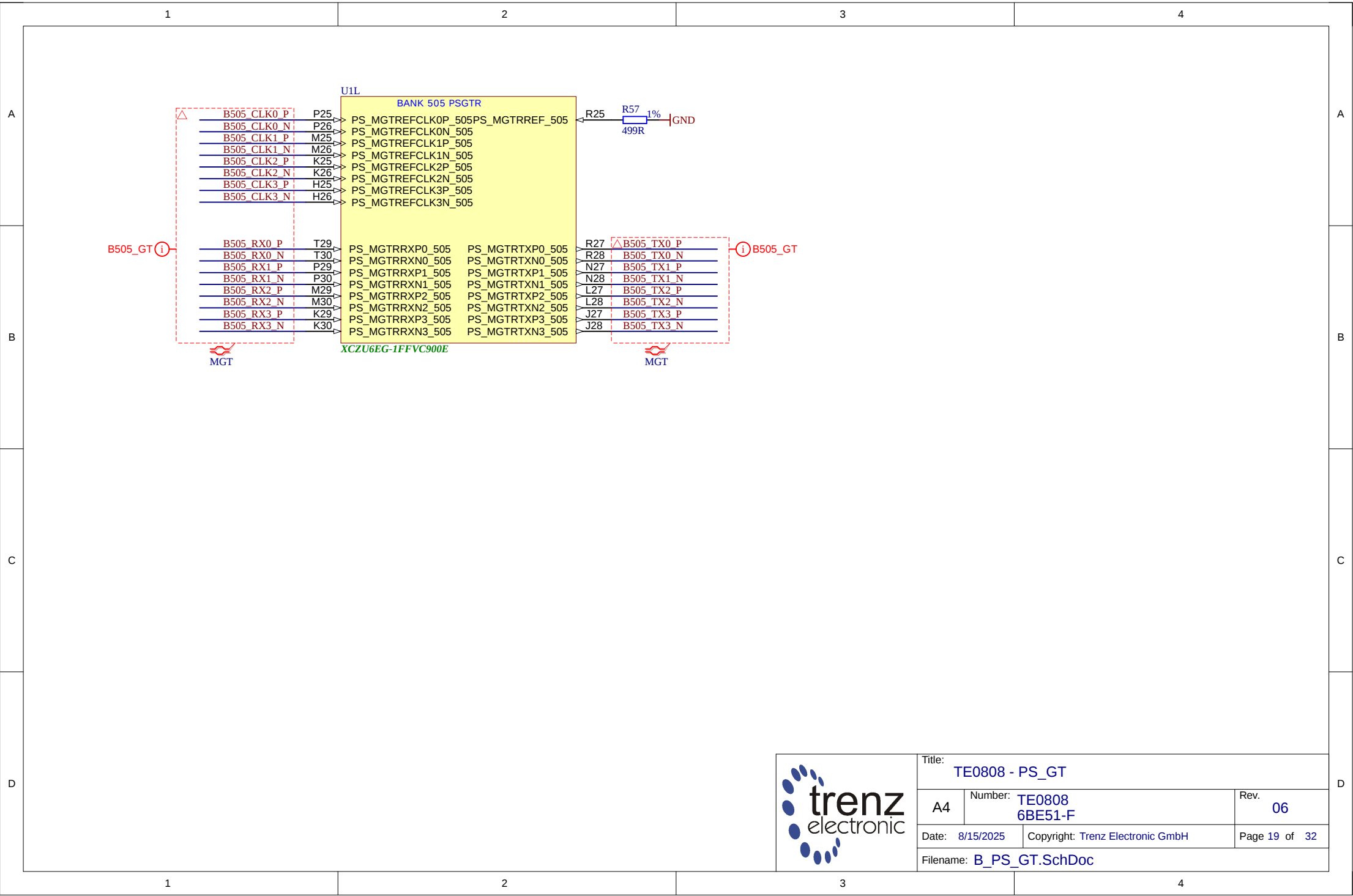
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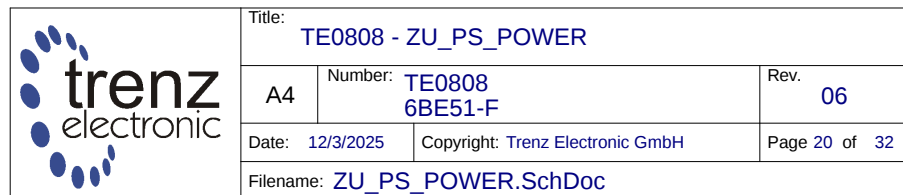
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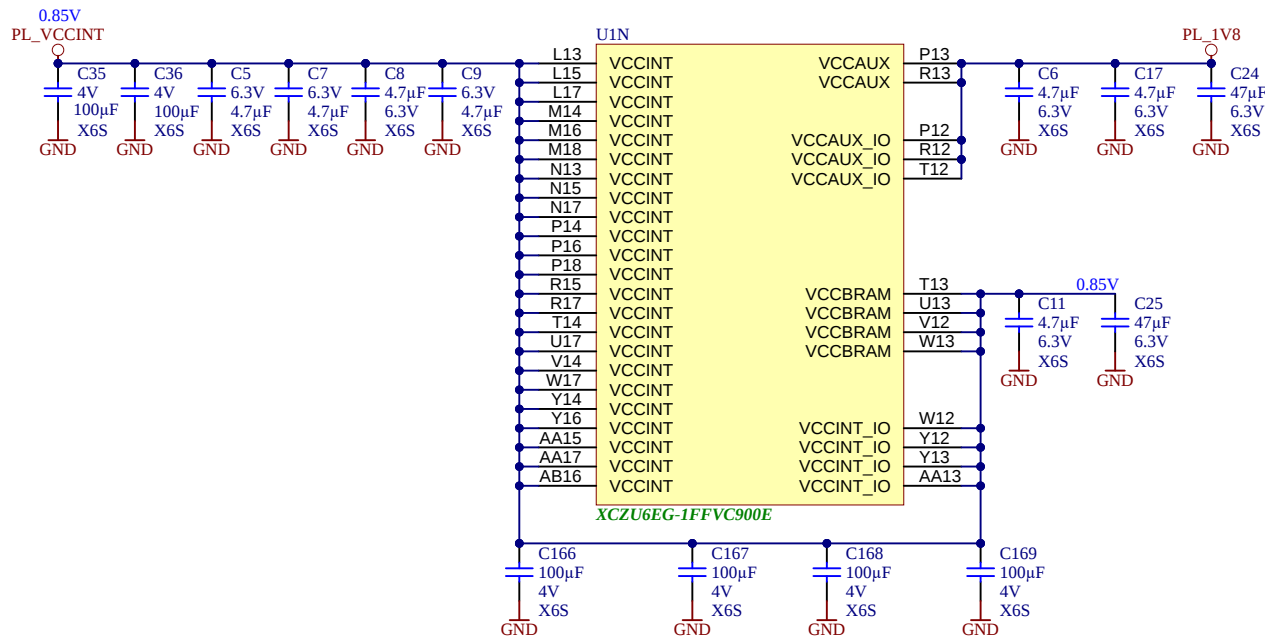
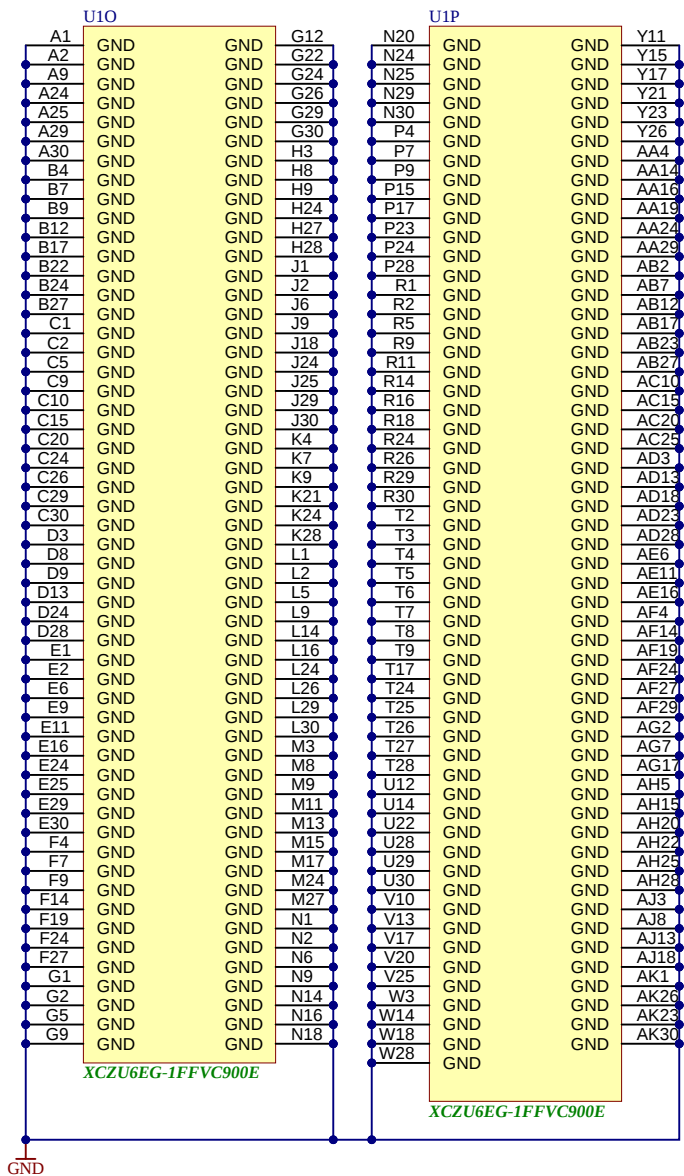
B

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D



Title: TE0808 - ZU_POWER		
A4	Number: TE0808 6BE51-F	Rev. 06
Date: 12/3/2025	Copyright: Trenz Electronic GmbH	Page 21 of 32
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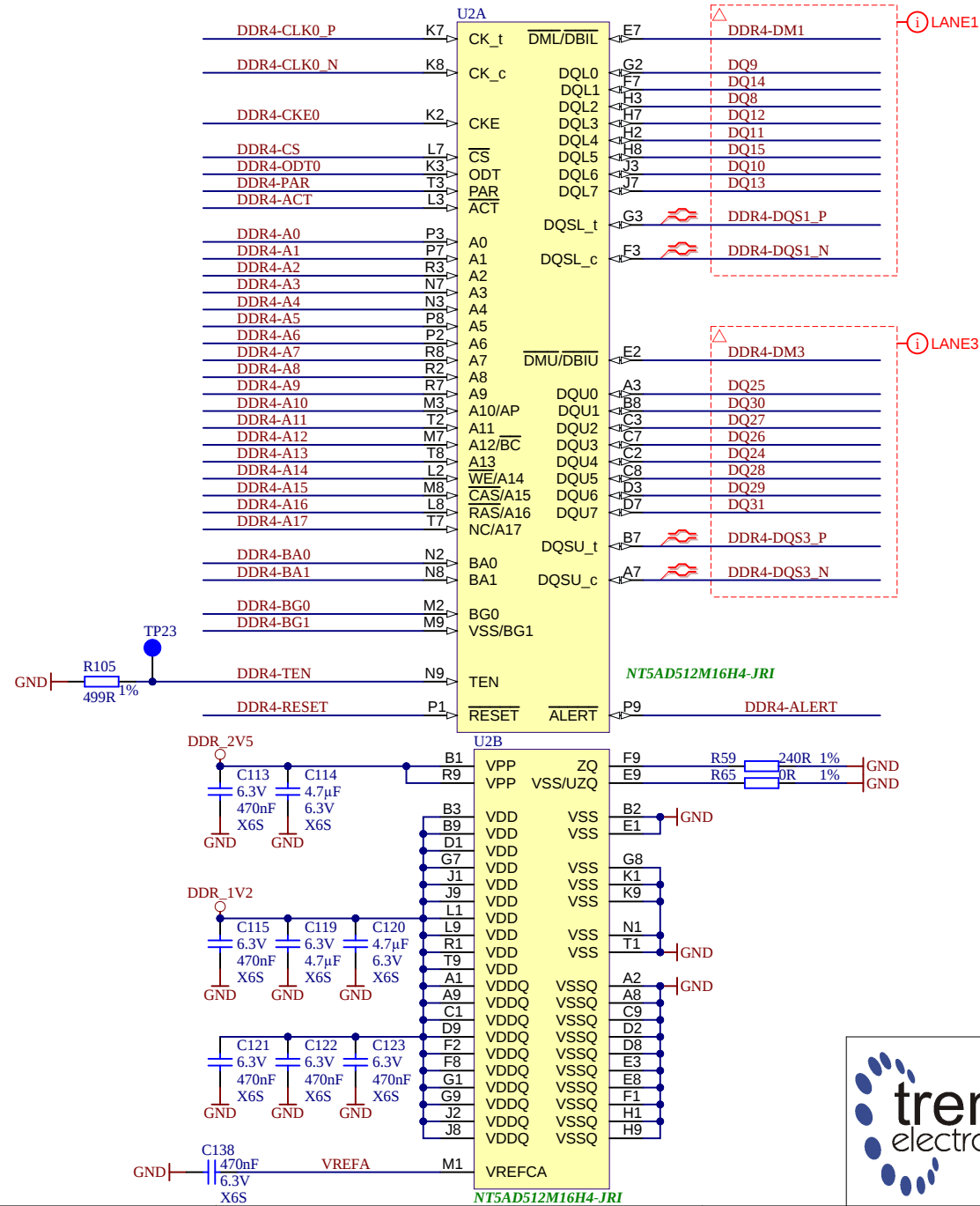
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Title: TE0808 - DDR4_1_RAM		
A4	Number: TE0808 6BE51-F	Rev. 06
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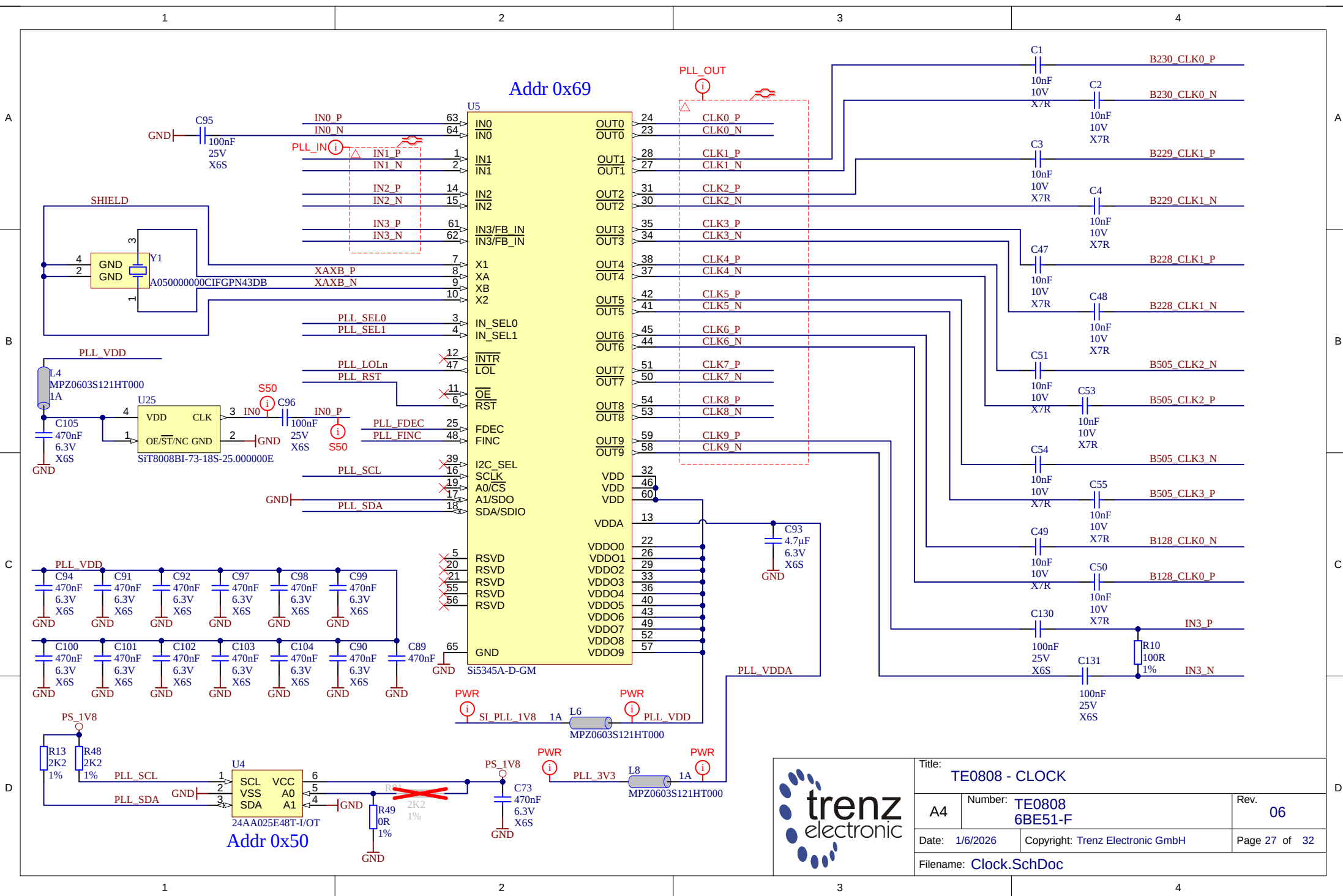
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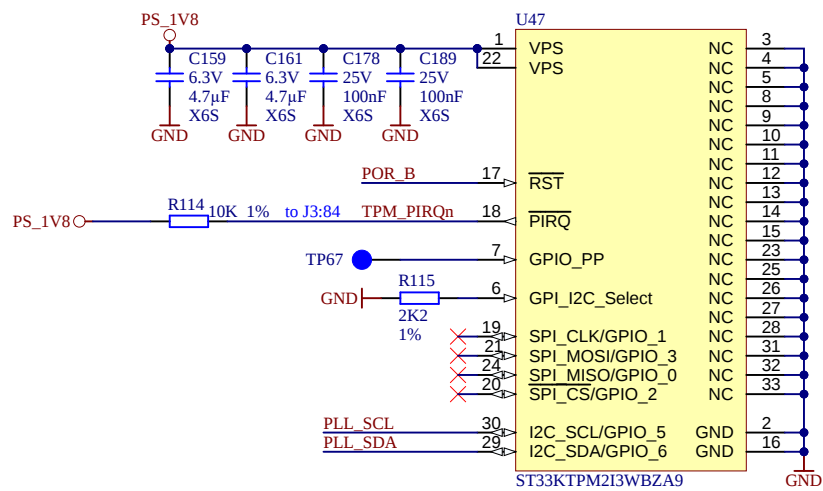
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4



Title: TE0808 - DDR4_3_RAM			
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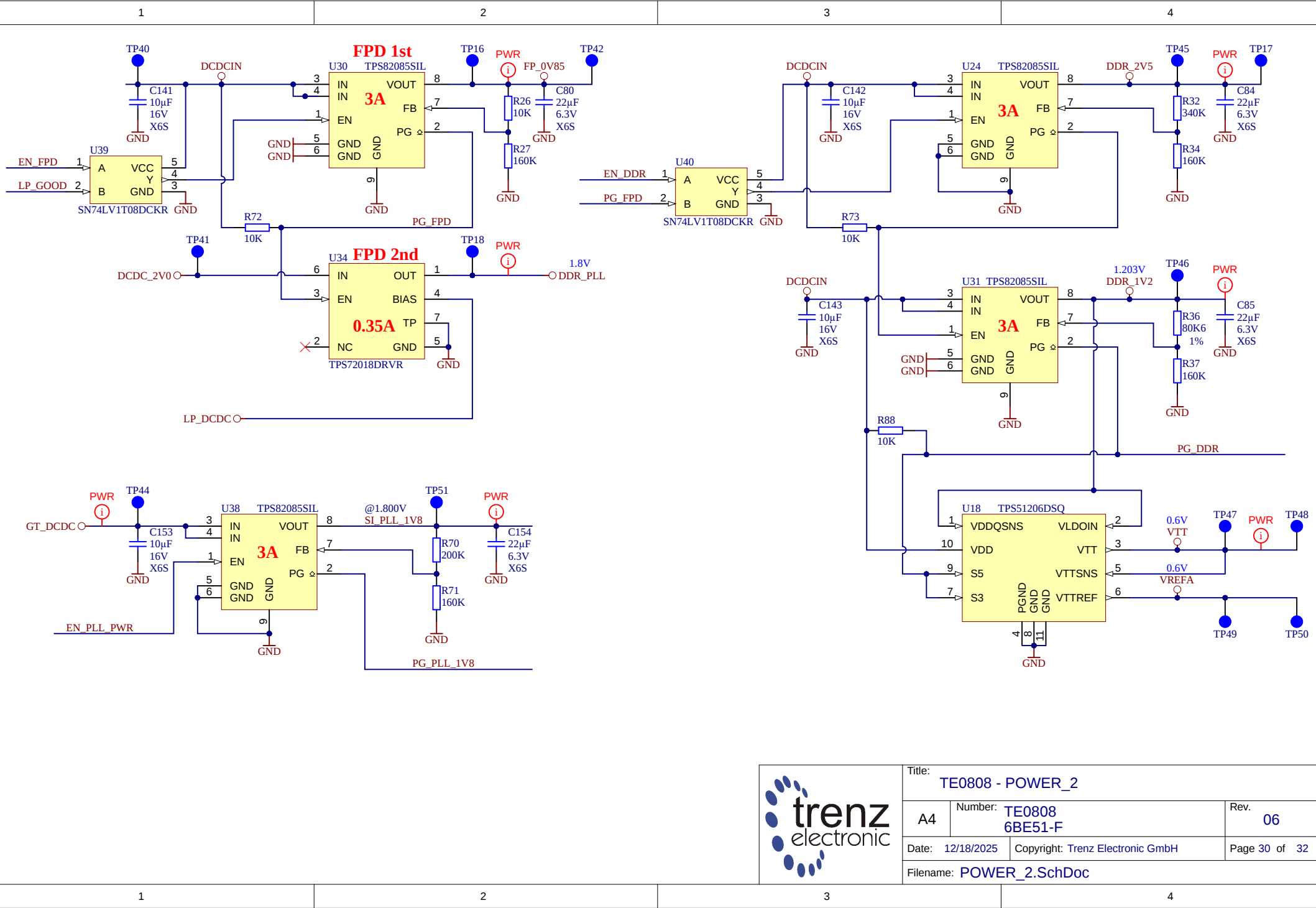


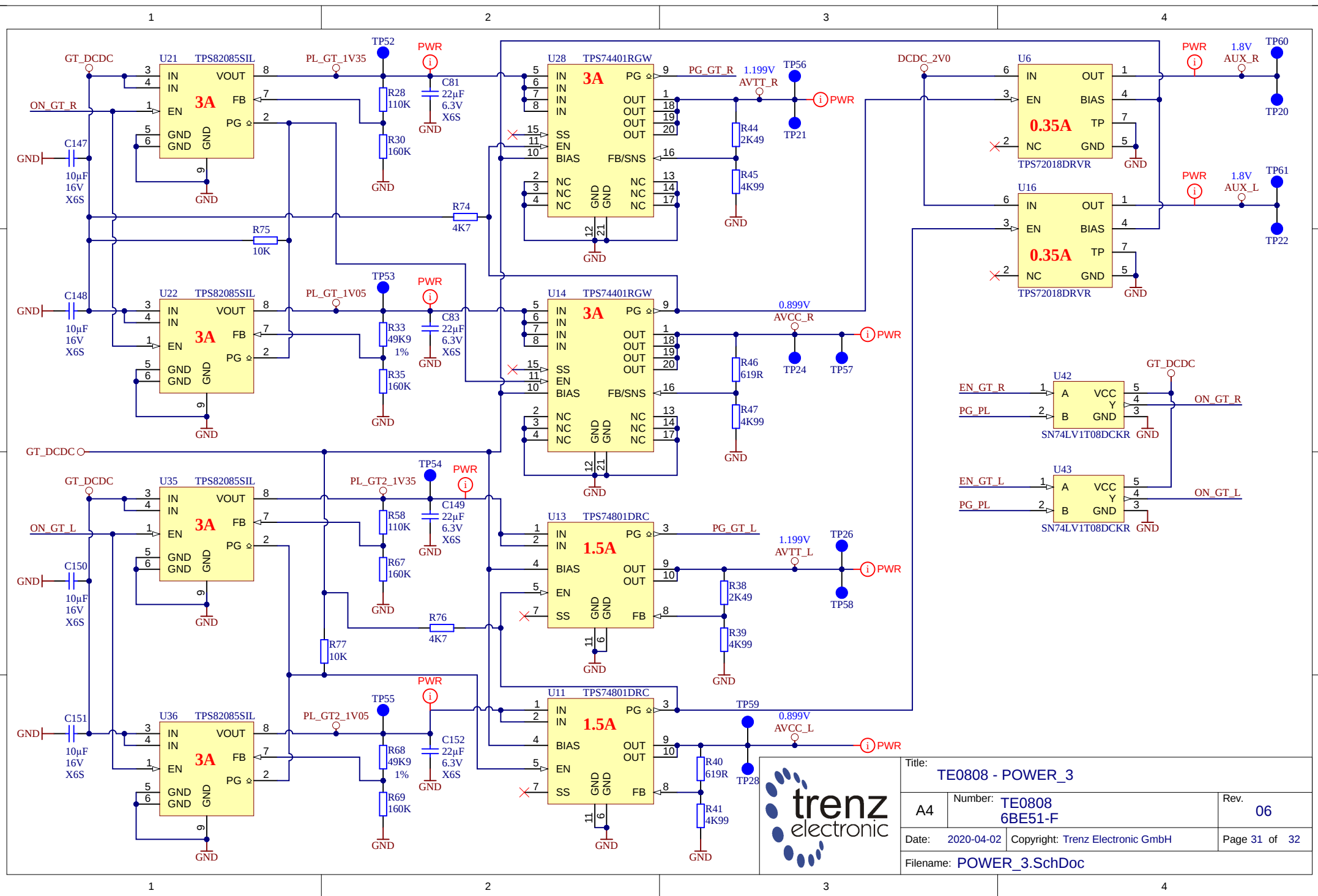


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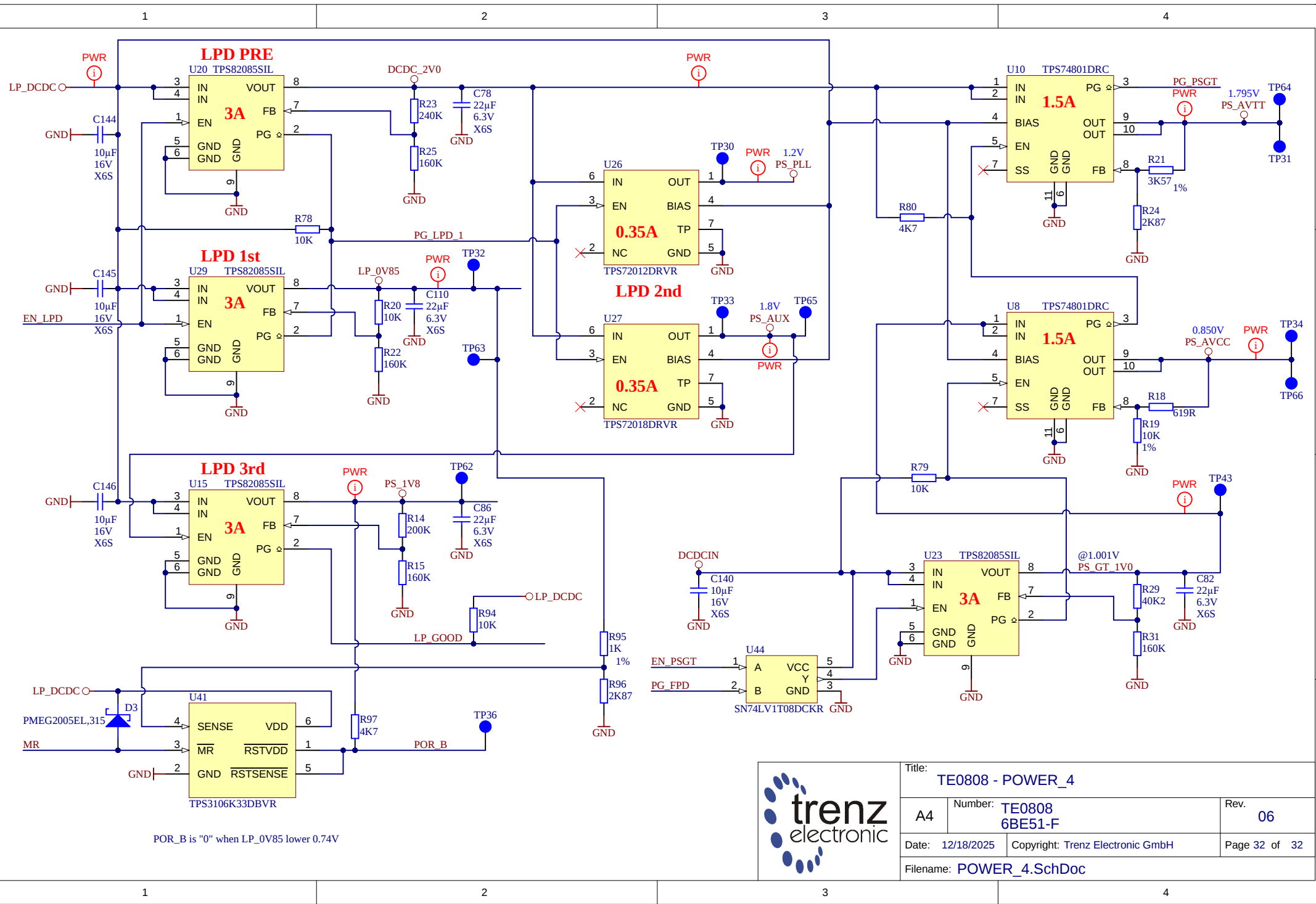
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Date: 1/6/2026		Copyright: Trenz Electronic GmbH	
Filename: TPM.SchDoc		Page 28 of 32	

Rev. 06





Title: TE0808 - POWER_3		
A4	Number: TE0808 6BE51-F	Rev. 06
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