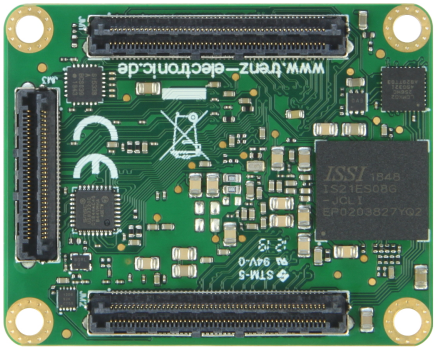

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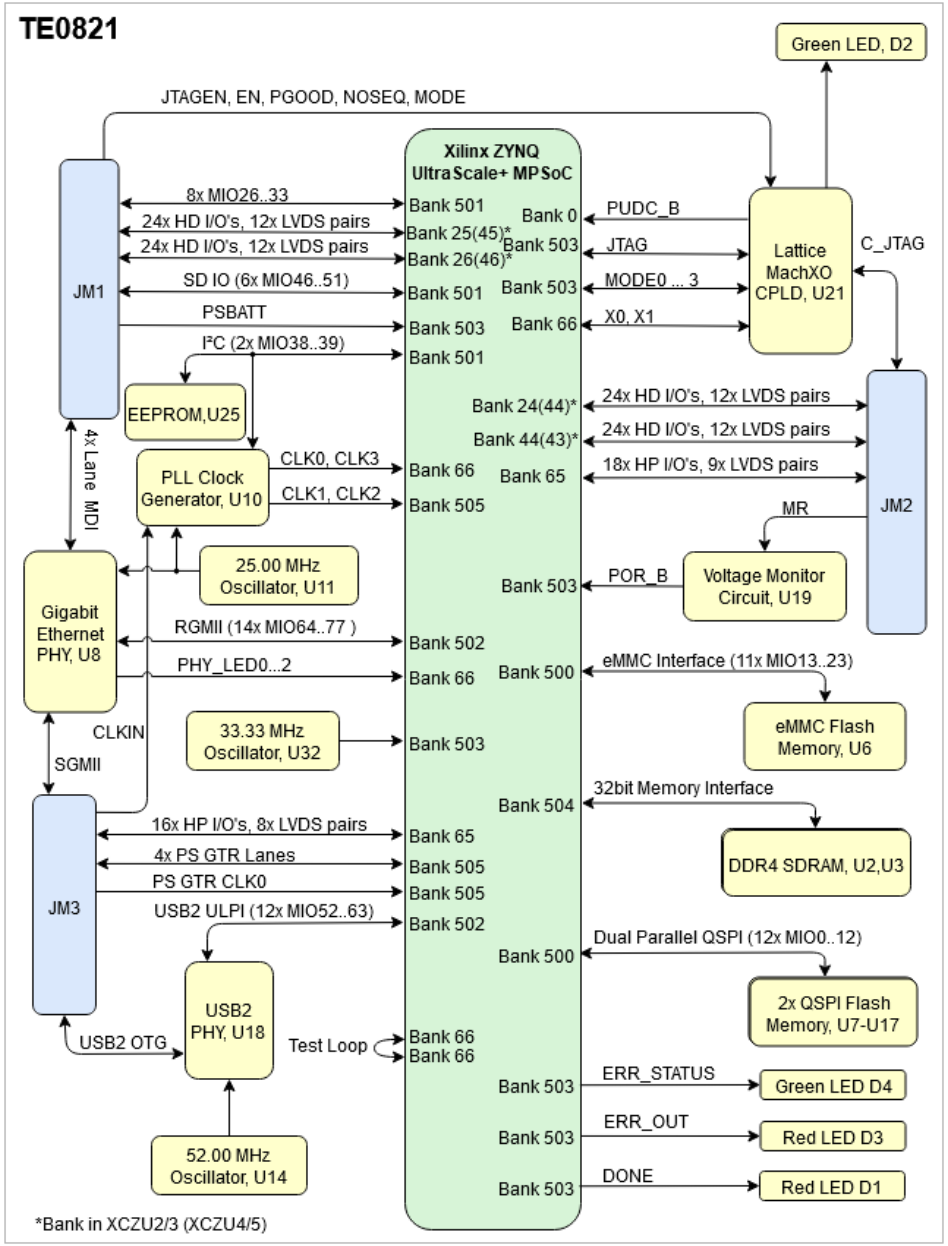
Project is protected under copyright and we strongly and strictly prohibit the reverse engineering or recreation, even if the design is just adapted or modified. TE0821is protected under such right and in case of plagiarism we will have to do anything necessary in order to protect our assets.

Schematics and other handouts serve for informational purposes only!

trenz electronic	Title: Module TE0821		
	A4	Number: TE0821 2AE31PA	Rev. 01
	Date: 14.08.2020	Copyright: Trenz Electronic GmbH / TT	Page 1 of 24
	Filename: Legal Notices Modules.SchDoc		



trenz electronic	Title: Module TE0821 - System Overview		
	A4	Number: TE0821 2AE31PA	Rev. 01
	Date: 18.01.2022	Copyright: 2015 Trenz Electronic GmbH	Page 2 of 24
	Filename: TE0821-Overview.SchDoc		

U_USB-PHY
USB-PHY.SchDoc

U_ETH-PHY
ETH-PHY.SchDoc

U_B_HD
B_HD.SchDoc

U_B64
B64.SchDoc

U_B65
B65.SchDoc

U_B66
B66.SchDoc

U_CONFIG
CONFIG.SchDoc

U_B_MIO
B_MIO.SchDoc

U_B_PS_GT
B_PS_GT.SchDoc

U_CLK
CLK.SchDoc

U_Overview
TE0821-Overview.SchDoc

U_LN
Legal Notices Modules.SchDoc

U_B2B-Connectors
B2B-Connectors.SchDoc

U_B2B-Connectors_2
B2B-Connectors_2.SchDoc

U_eMMC
eMMC.SchDoc

U_PS_DDR
PS_DDR.SchDoc

U_ZU_POWER
ZU_POWER.SchDoc

U_ZU_PS_POWER
ZU_PS_POWER.SchDoc

U_DDR4-RAM_2
DDR4-RAM_2.SchDoc

U_DDR4-RAM
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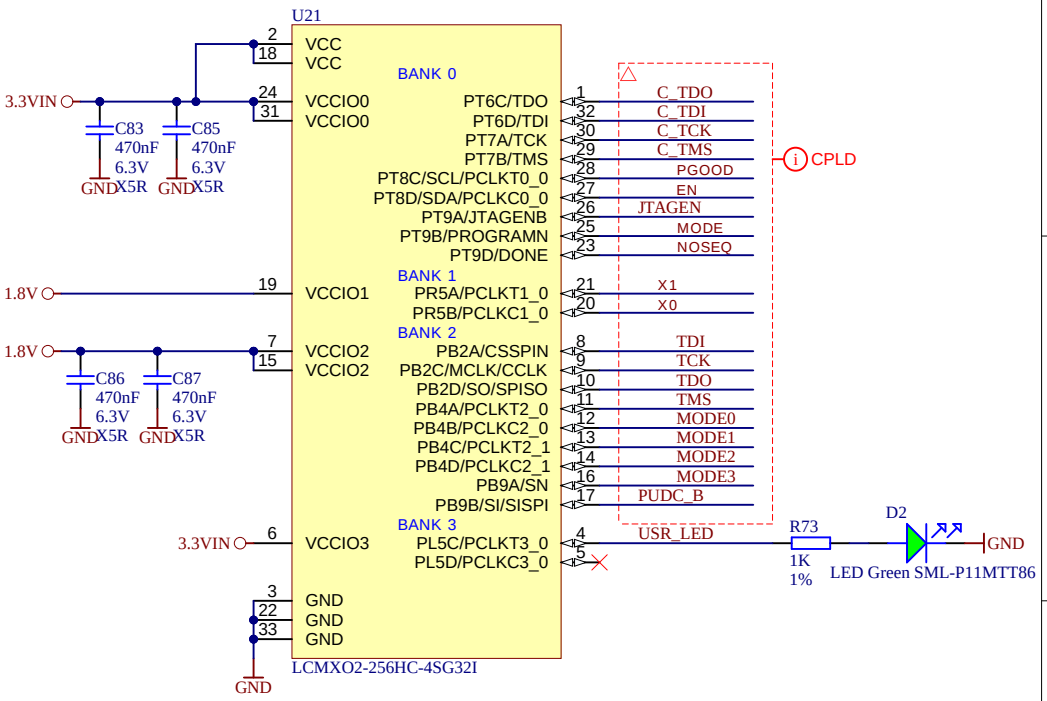
U_POWER
POWER.SchDoc

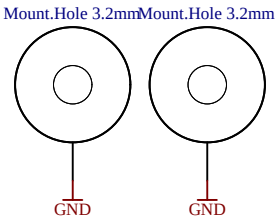
U_POWER_1
POWER_1.SchDoc

U_Revision_changes
Revision Changes.SchDoc



Serial
Serial
Serialnumber 6,3 x 6.3mm

PM1
FIDU-DOT - mini
PM2
FIDU-DOT - mini
PM3
FIDU-DOT - mini
PM4
FIDU-DOT - mini
PM5
FIDU-DOT - mini
PM6
FIDU-DOT - mini

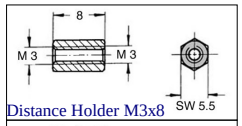



Screw M3x4

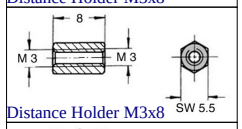

Screw M3x4


Screw M3x4


Screw M3x4



Distance Holder M3x8



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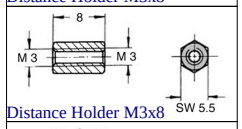
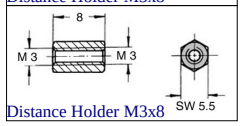


Distance Holder M3x8



Distance Holder M3x8


Screw M3x6


Screw M3x6


Screw M3x6


Screw M3x6

Special notes:

Component RC0201FR-0710KL removed

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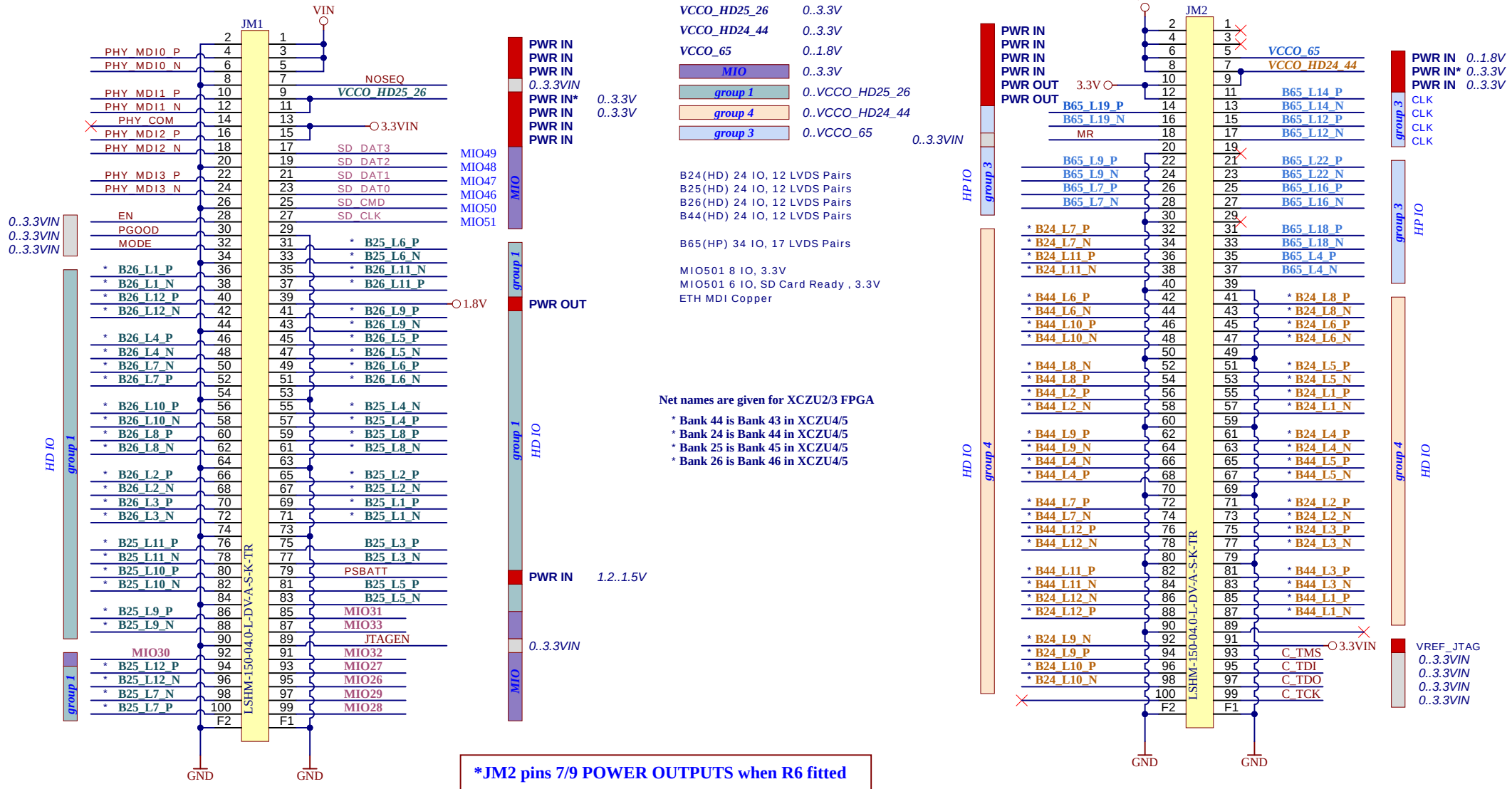
Title: Module TE0821			
A4	Number: TE0821 2AE31PA		Rev. 01
Date: 20.02.2019	Copyright: 2015 Trenz Electronic GmbH		Page 3 of 24
Filename: TE0821.SchDoc			



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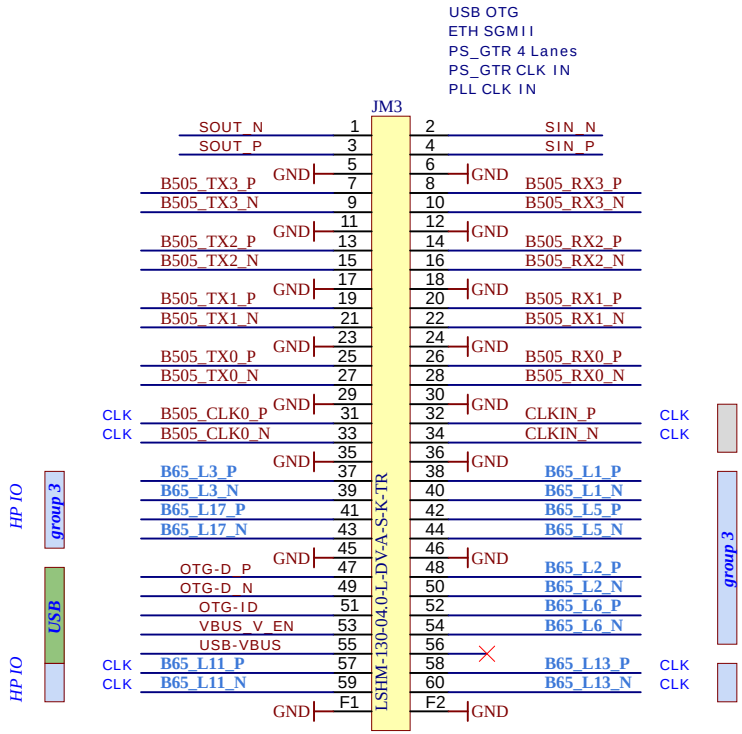
Date: 04.07.2019	Copyright: 2015 Trenz Electronic GmbH		Page 4 of 24
Filename: B2B-Connectors.SchDoc			



trenz electronic	Title: Module TE0821 - B2B Connectors	
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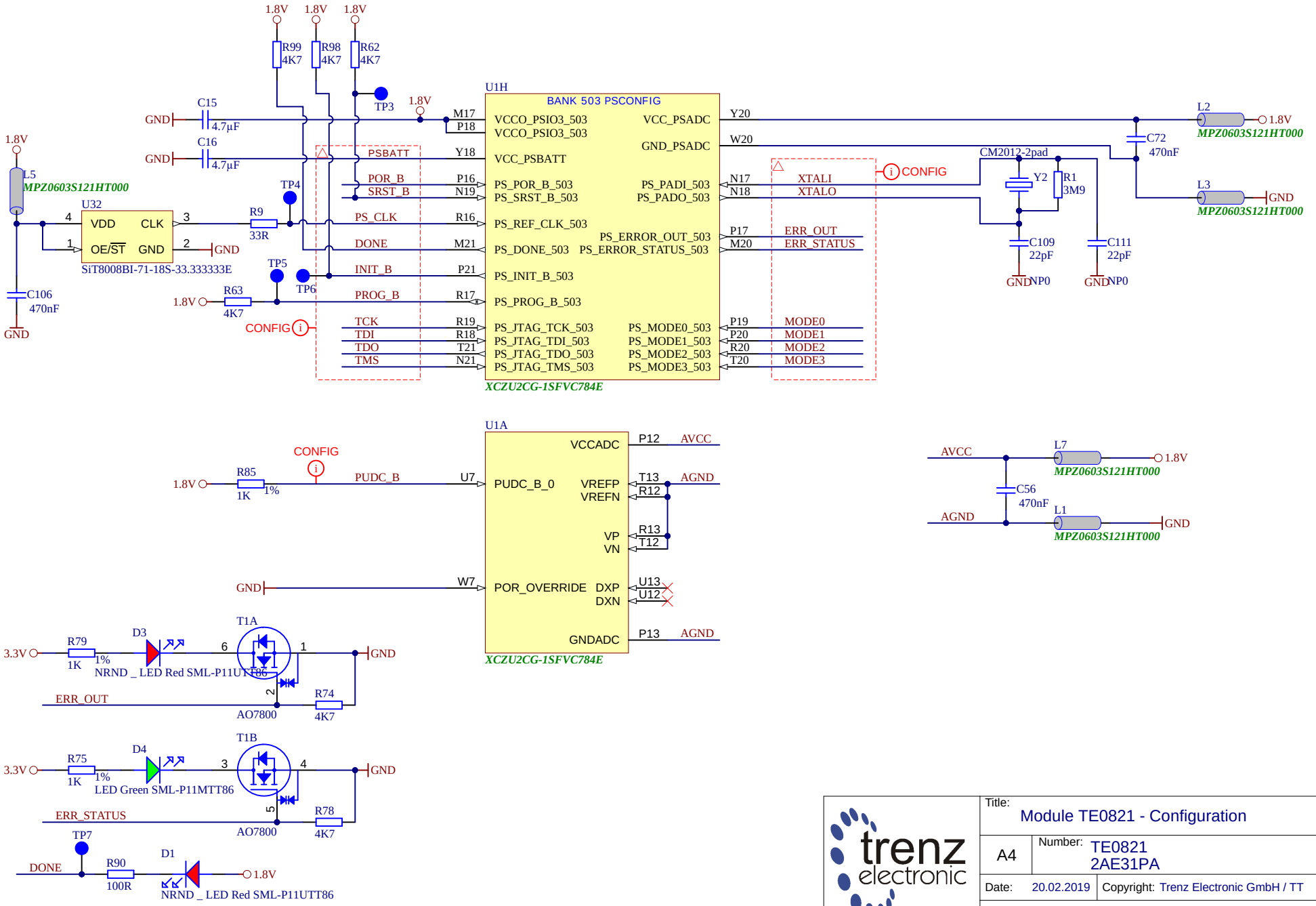
Date: 20.02.2019	Copyright: 2015 Trenz Electronic GmbH	Page 5 of 24
Filename: B2B-Connectors_2.SchDoc		



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Title: Module TE0821 - Configuration			
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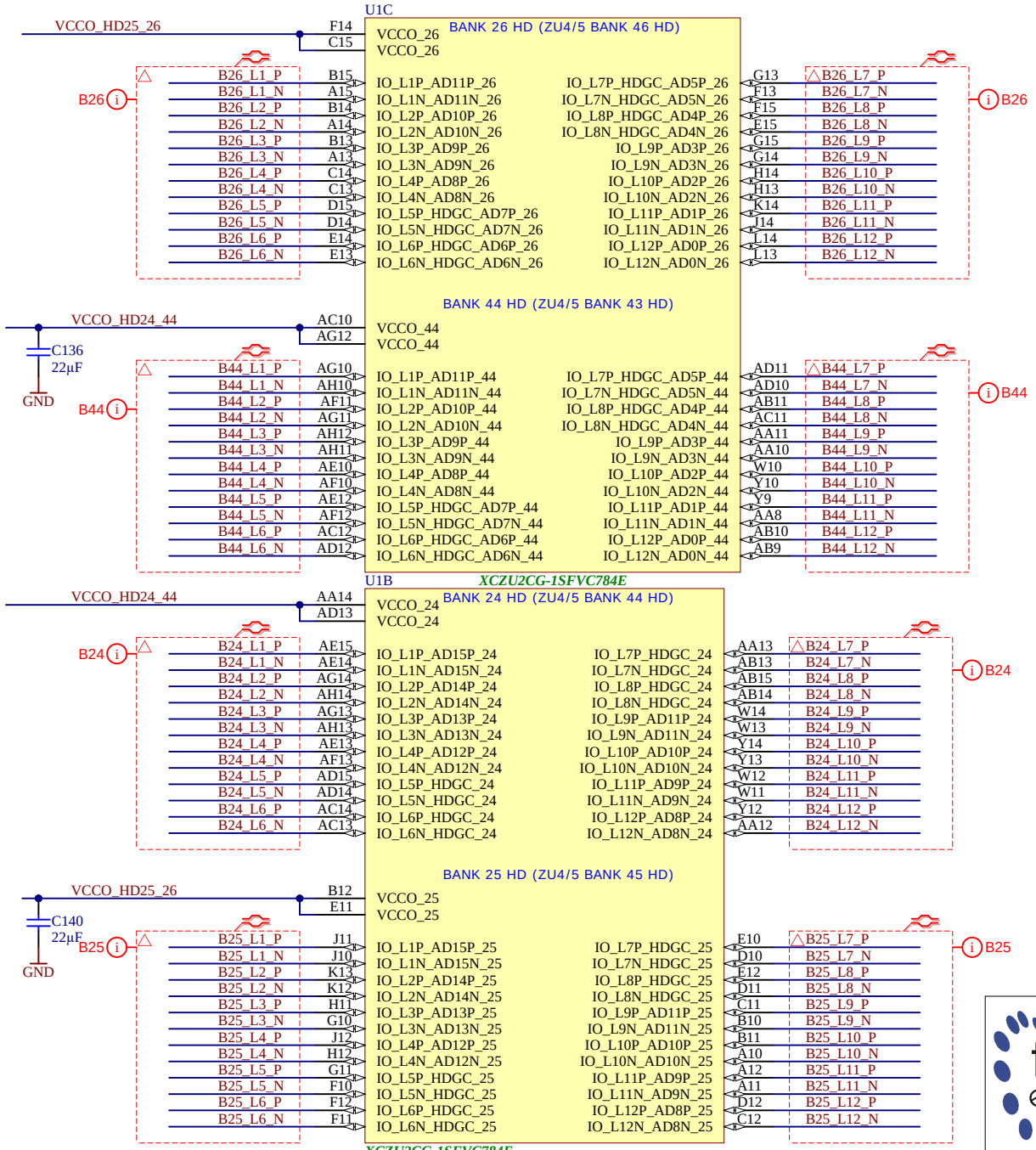
Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT		Page 6 of 24
Filename: CONFIG.SchDoc			



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Title: Module TE0821 - HD Banks			
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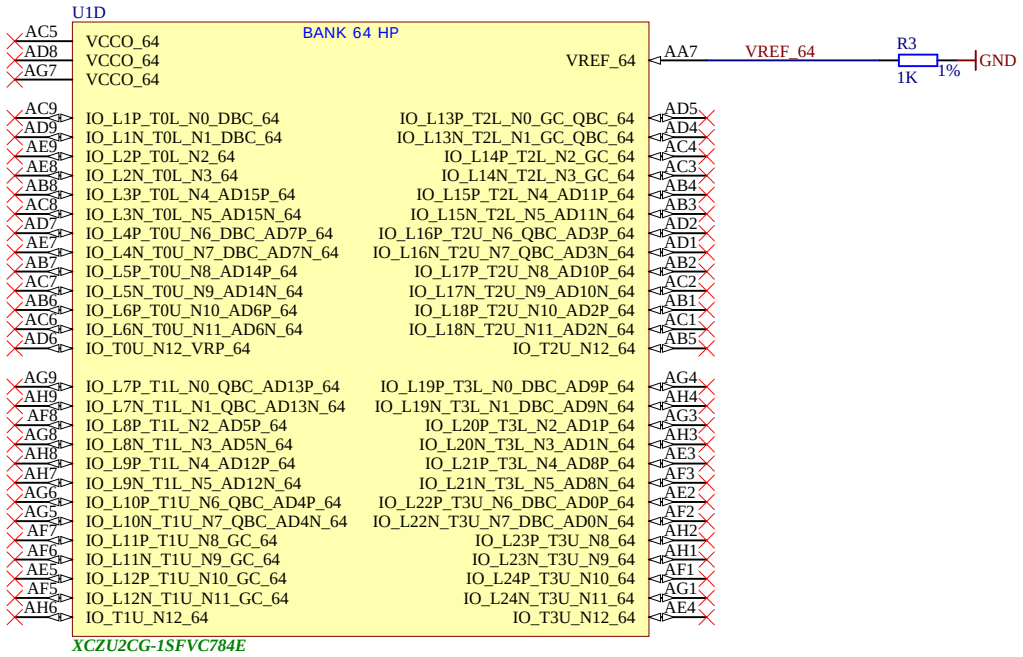
Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT		Page 7 of 24
Filename: B_HD.SchDoc			



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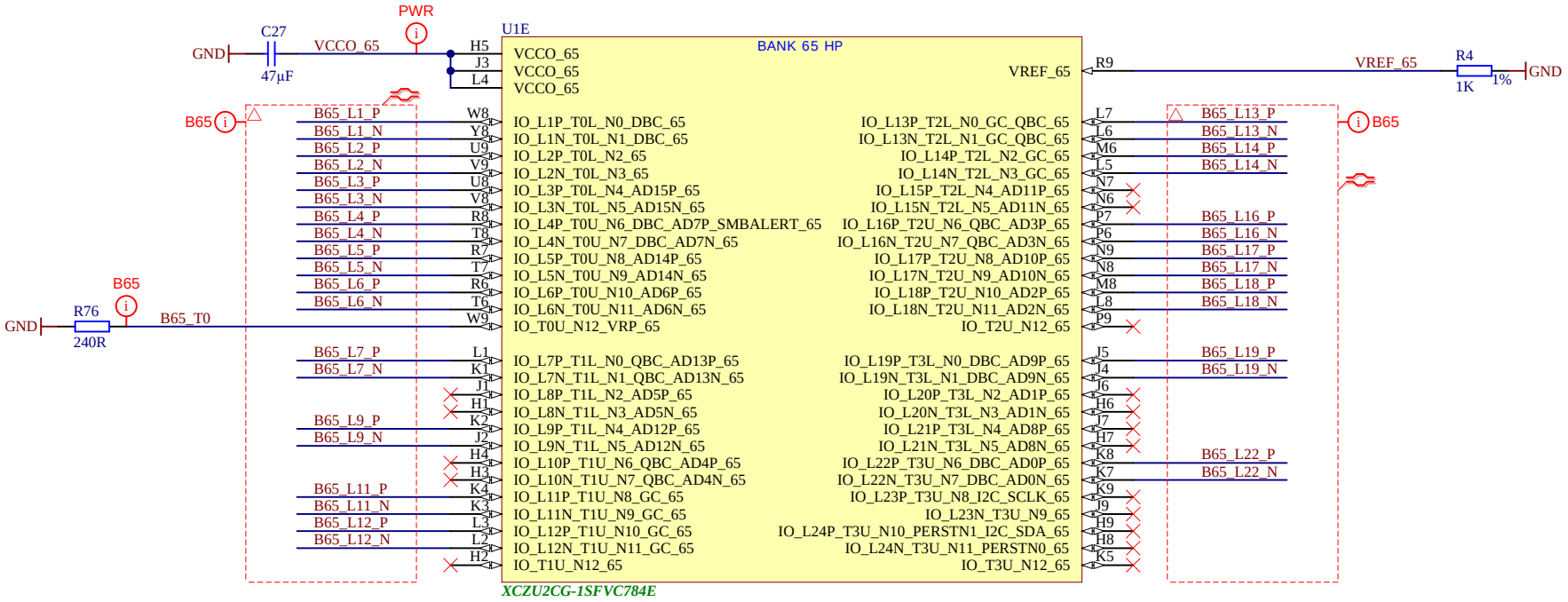
Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT		Page 8 of 24
Filename: B64.SchDoc			



trenz electronic	Title: Module TE0821 - B65		
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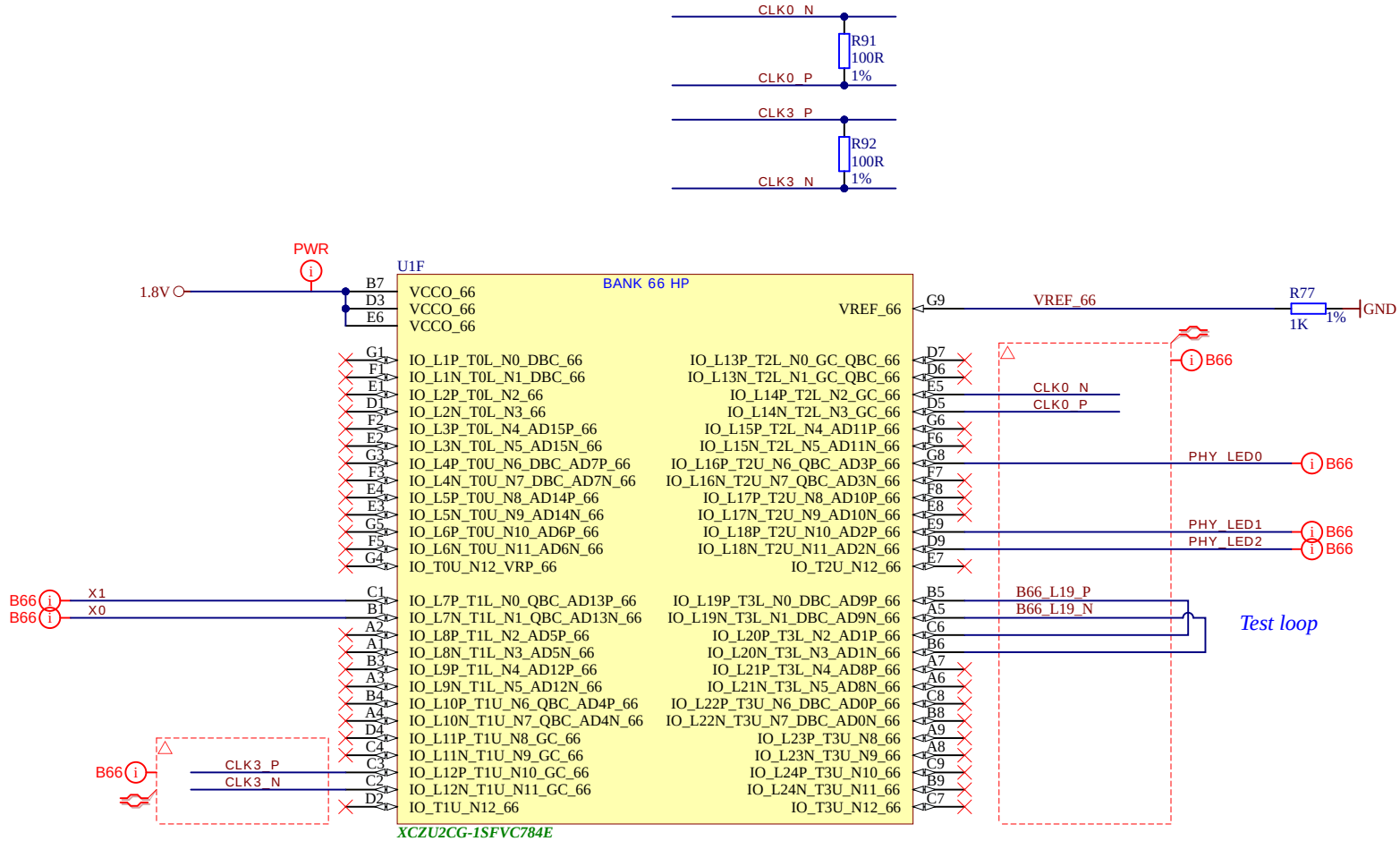
	Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT	Page 9 of 24
	Filename: B65.SchDoc		



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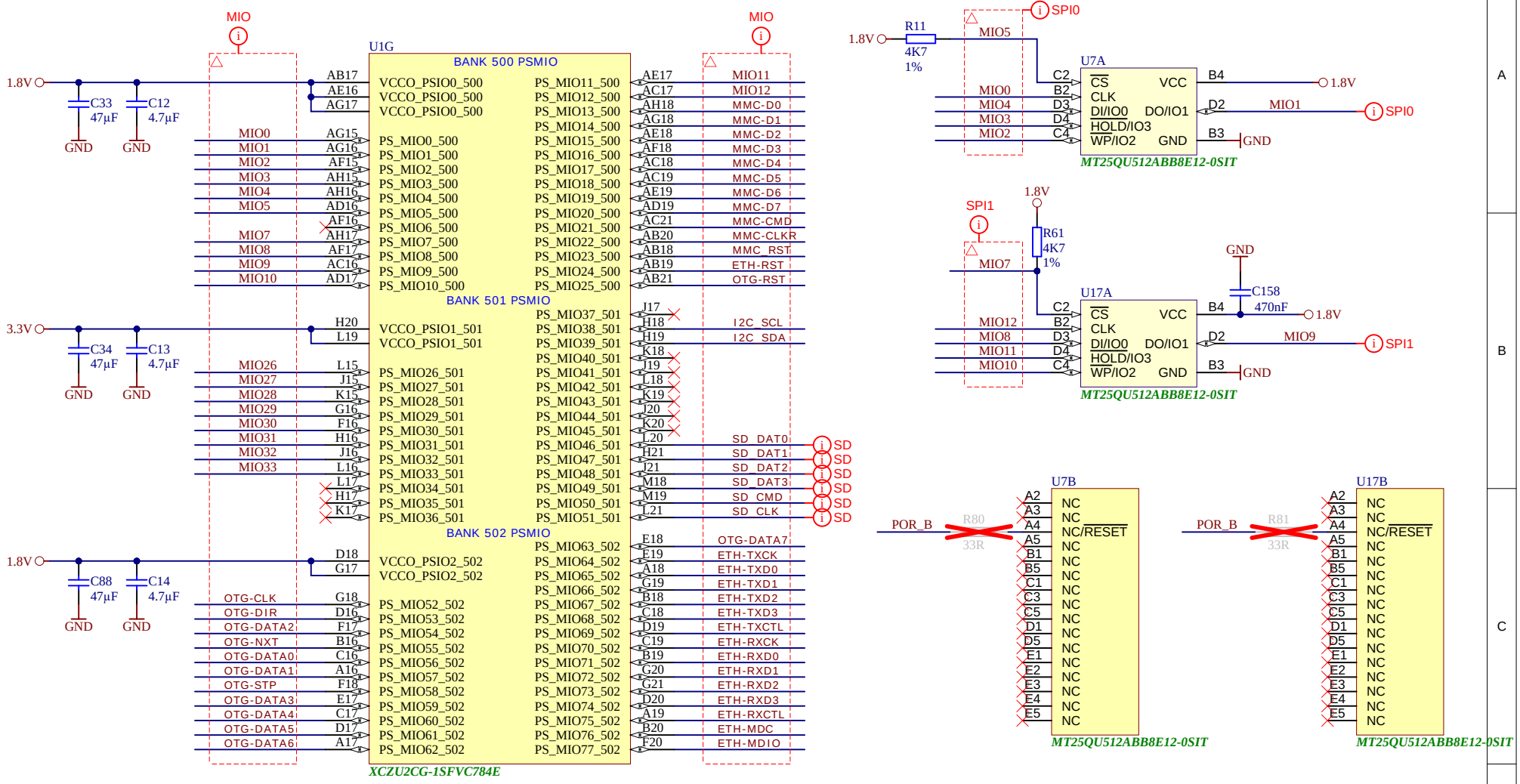
Filename: B66.SchDoc			



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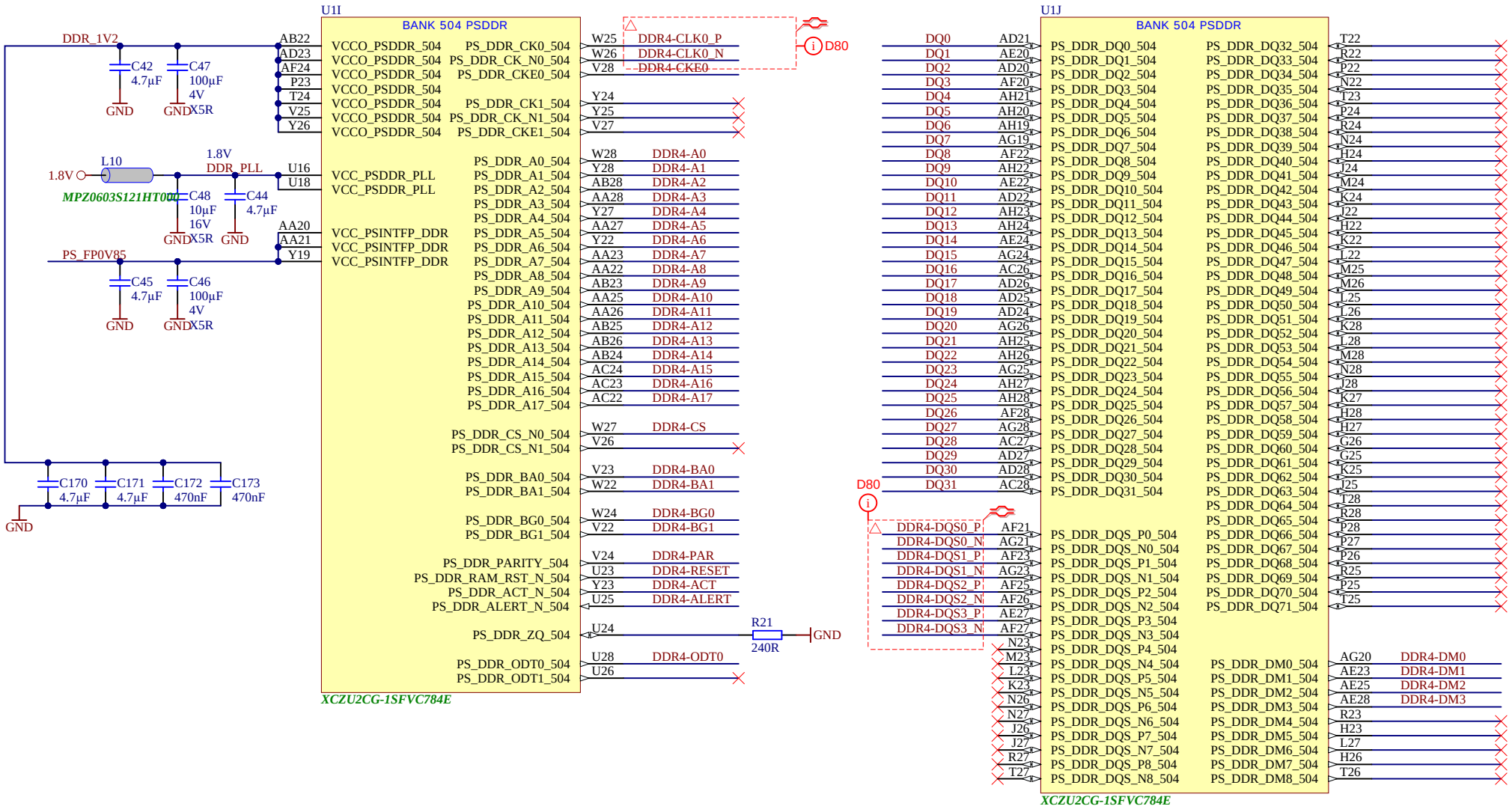
Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT		Page 11 of 24
Filename: B_MIO.SchDoc			



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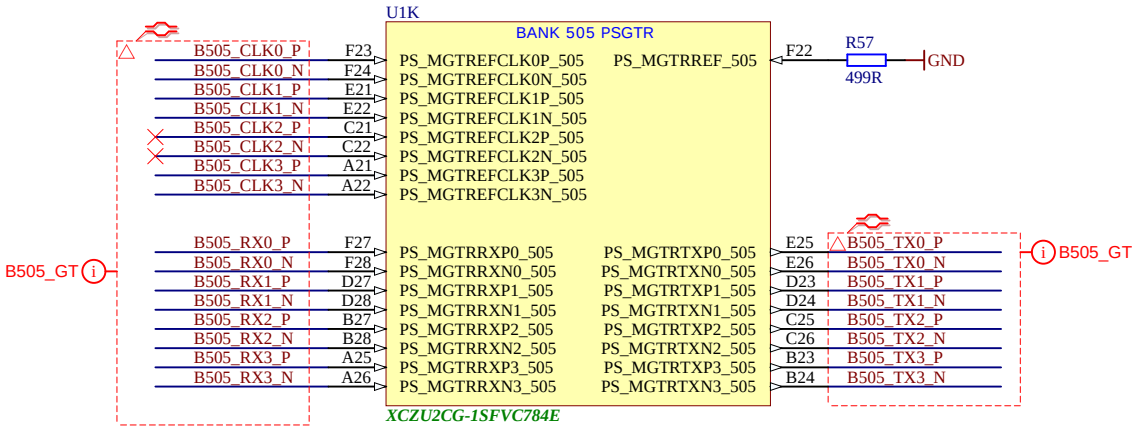
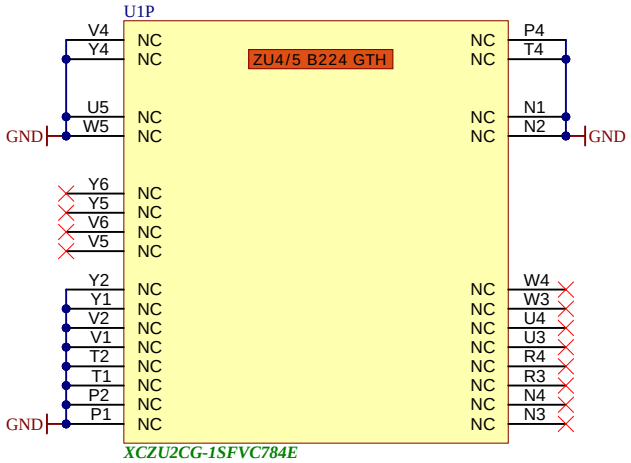
Filename: PS_DDR.SchDoc			





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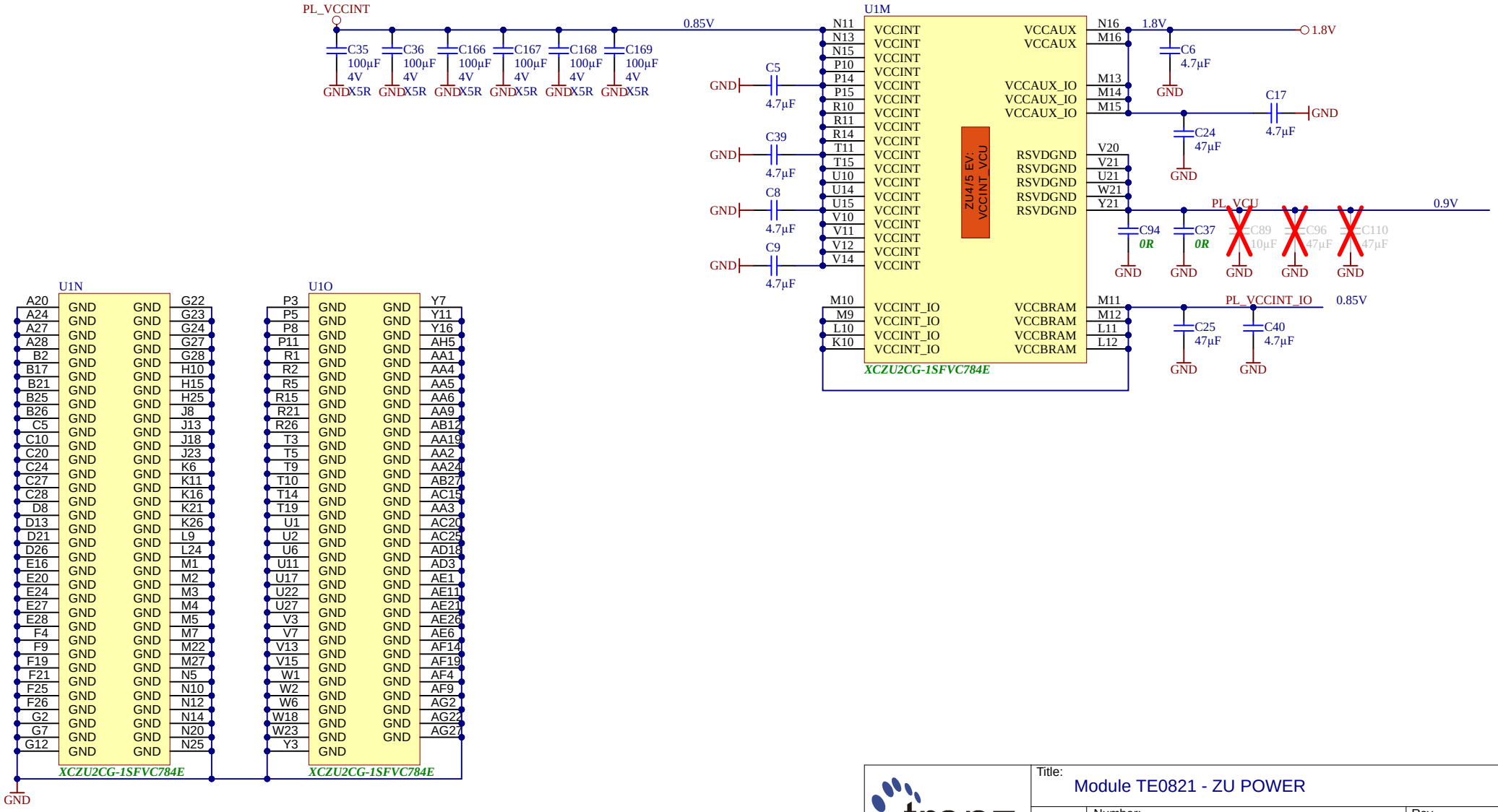
Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT	Page 13 of 24
Filename: B_PS_GT.SchDoc		



trenz electronic	Title: Module TE0821 - ZU POWER	
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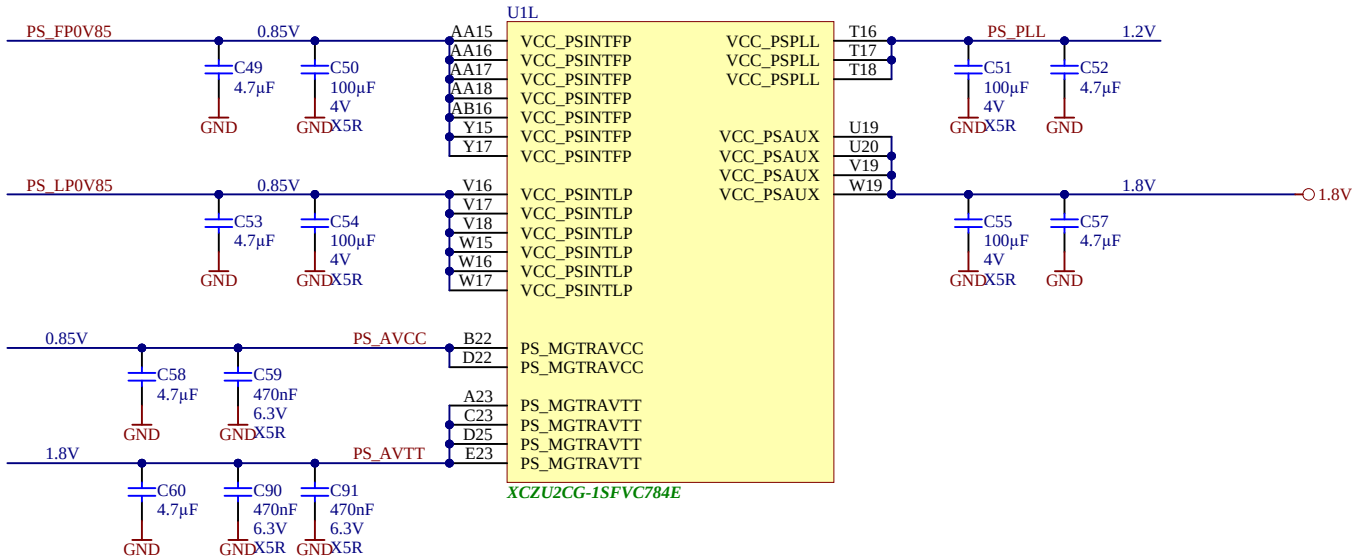
Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT	Page 14 of 24
Filename: ZU_POWER.SchDoc		



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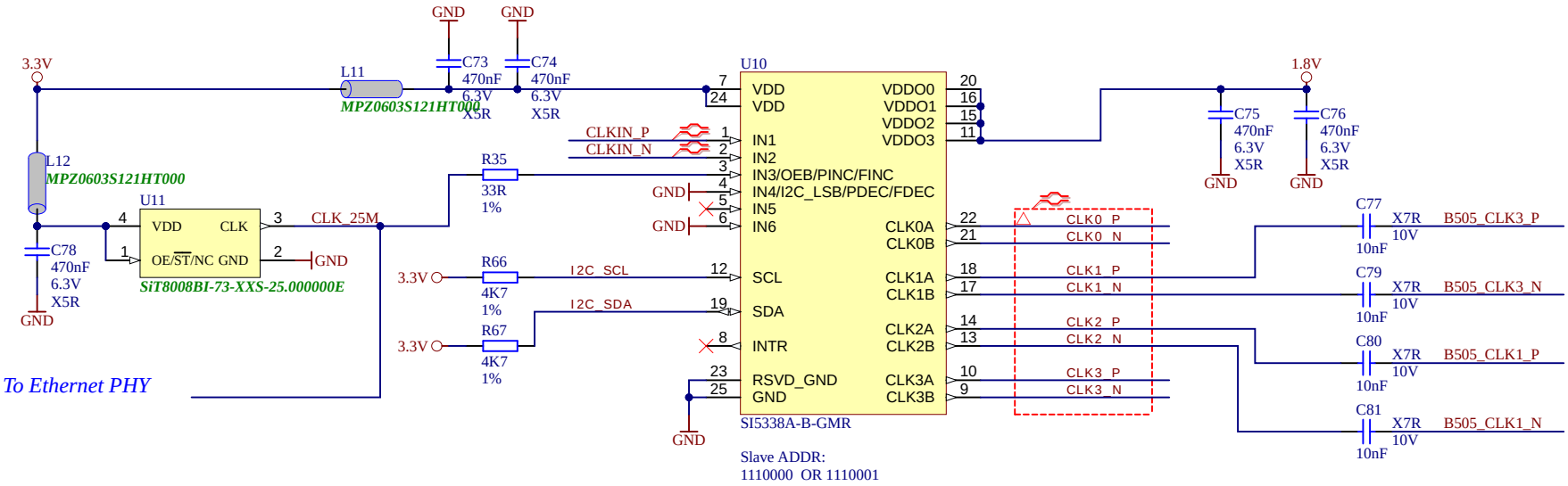
Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT		Page 15 of 24
Filename: ZU_PS_POWER.SchDoc			



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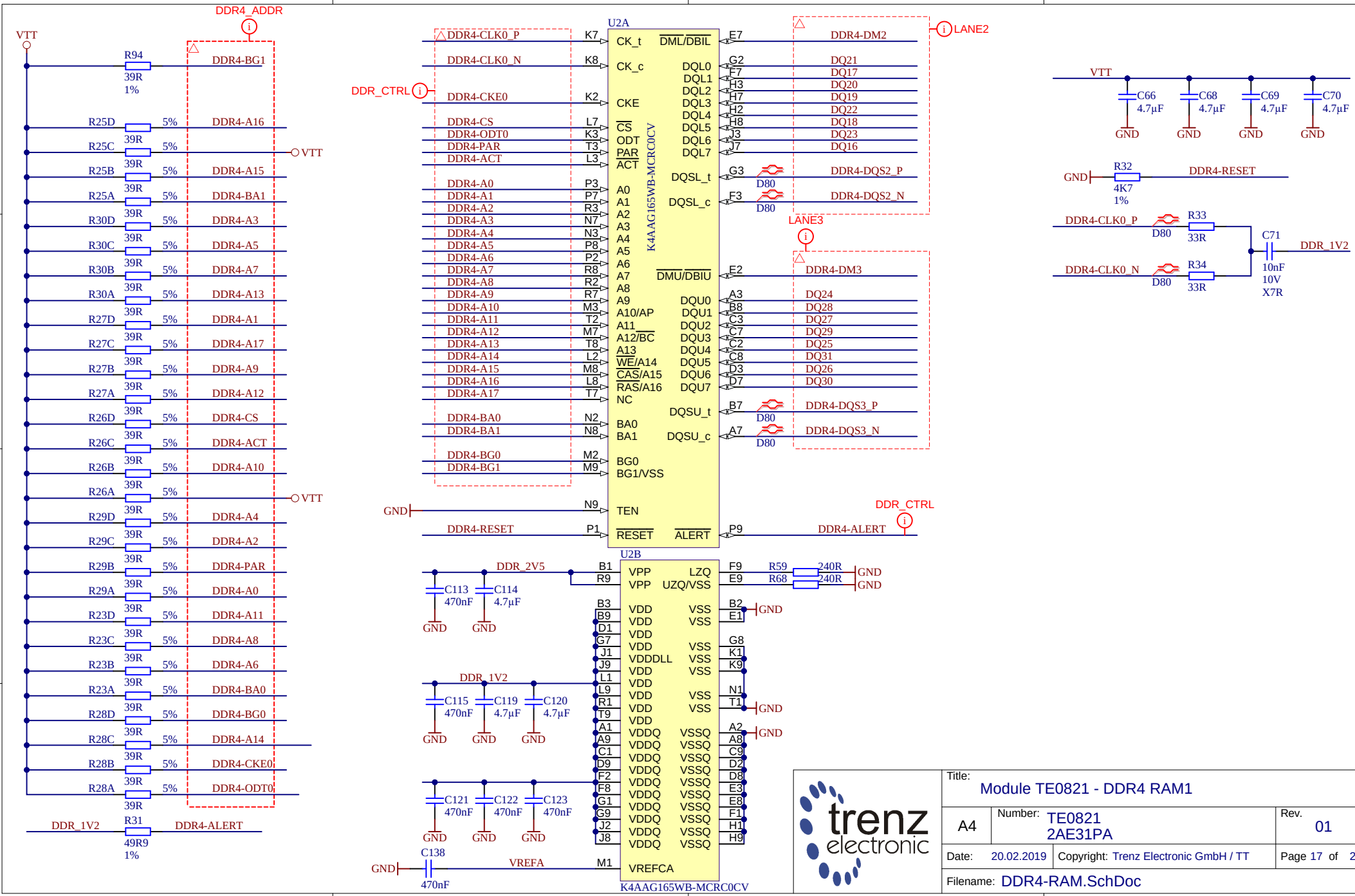

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Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT		Page 17 of 24
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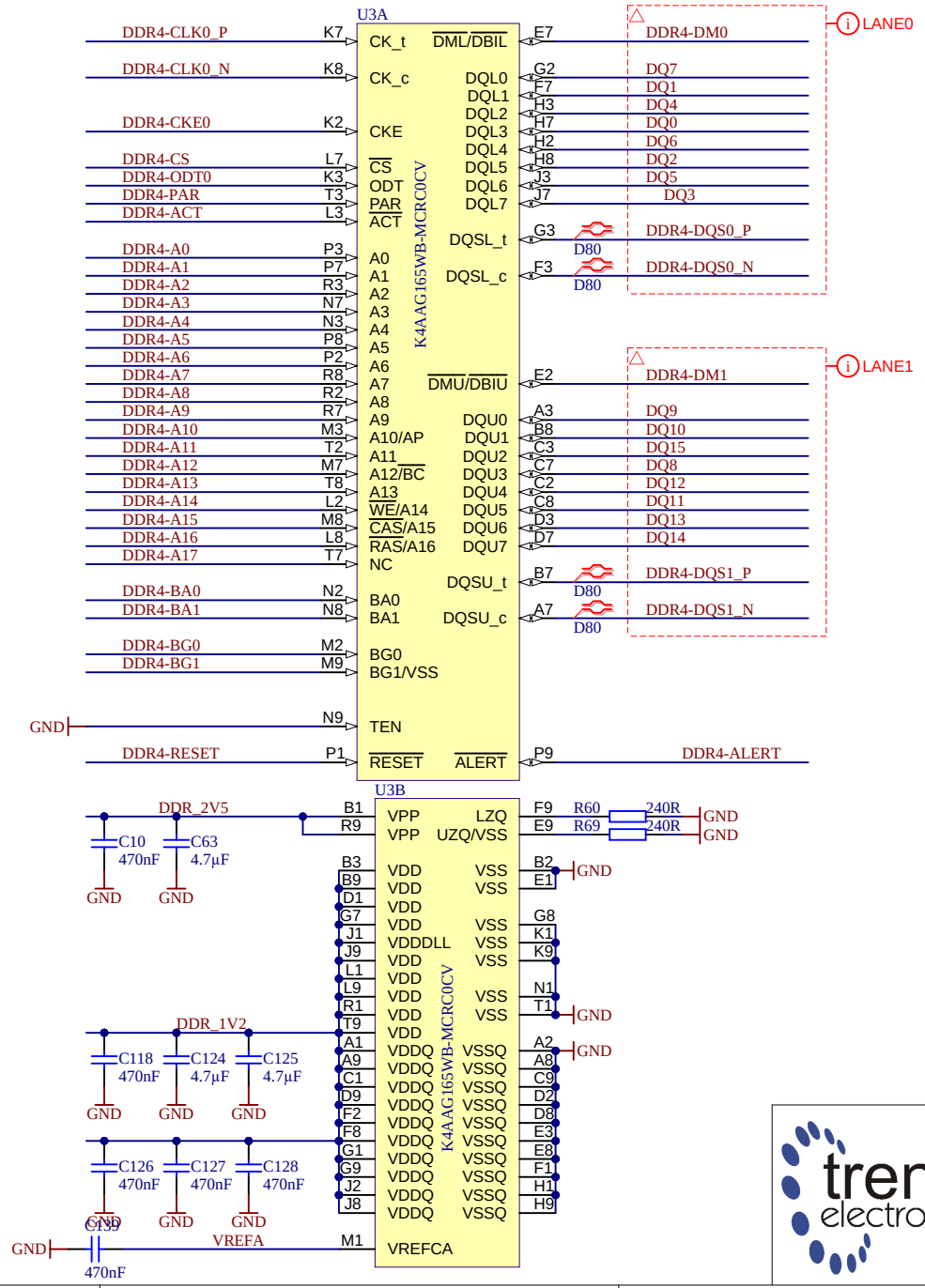

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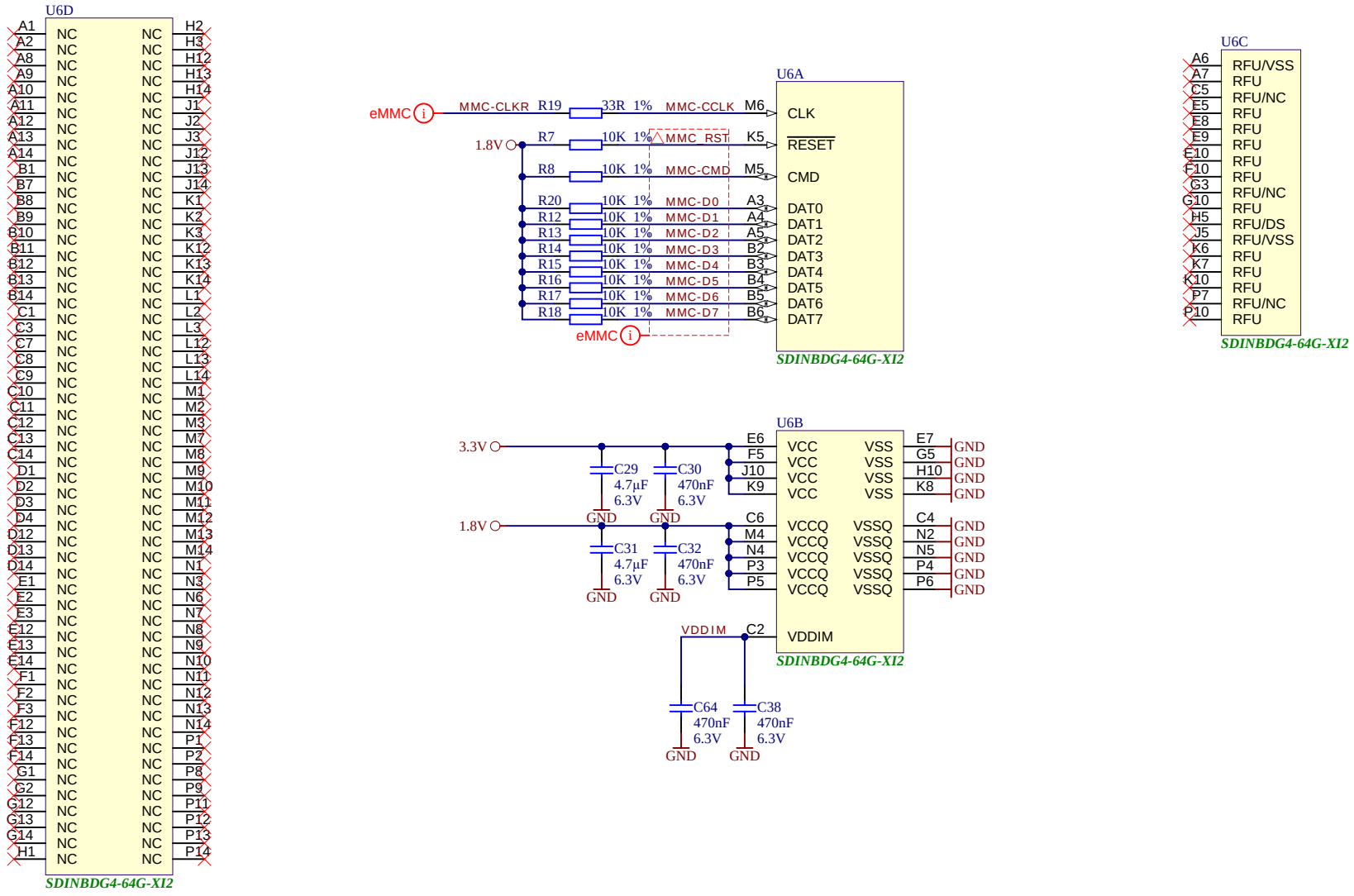
Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT		Page 18 of 24
Filename: DDR4-RAM_2.SchDoc			



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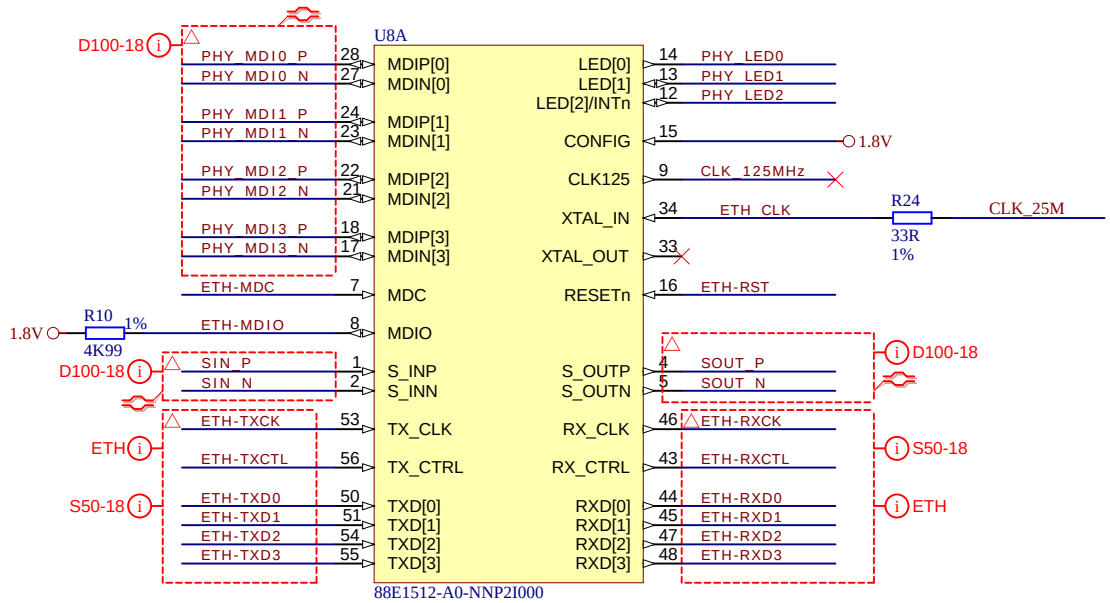
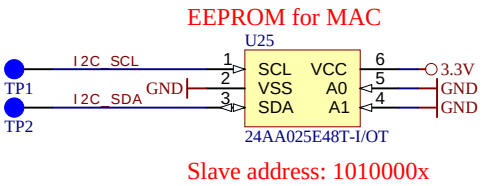
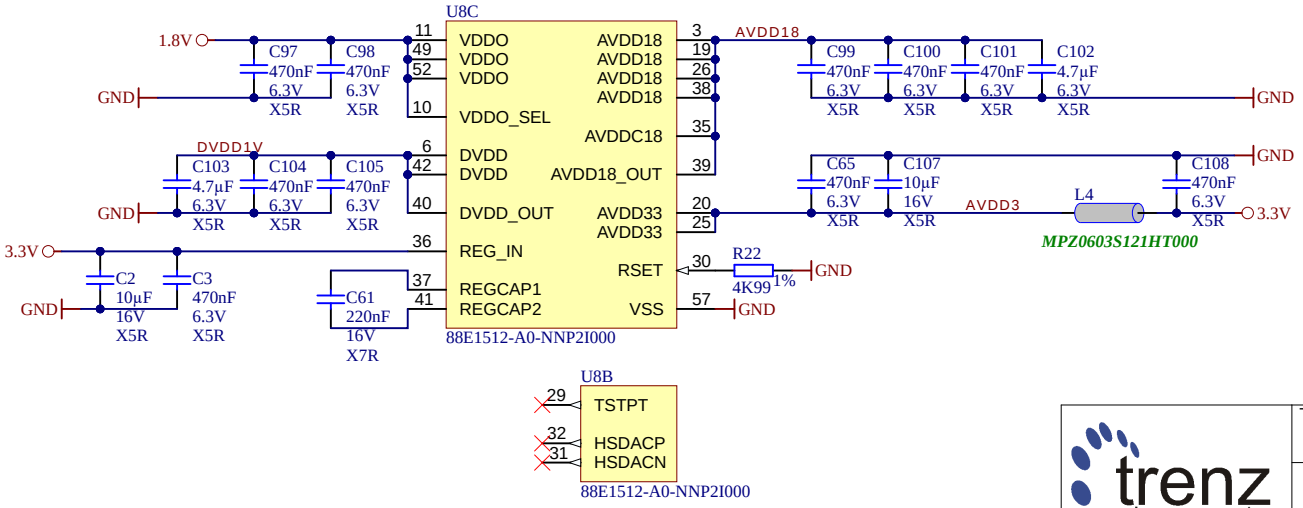
Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT	Page 19 of 24
Filename: eMMC.SchDoc		







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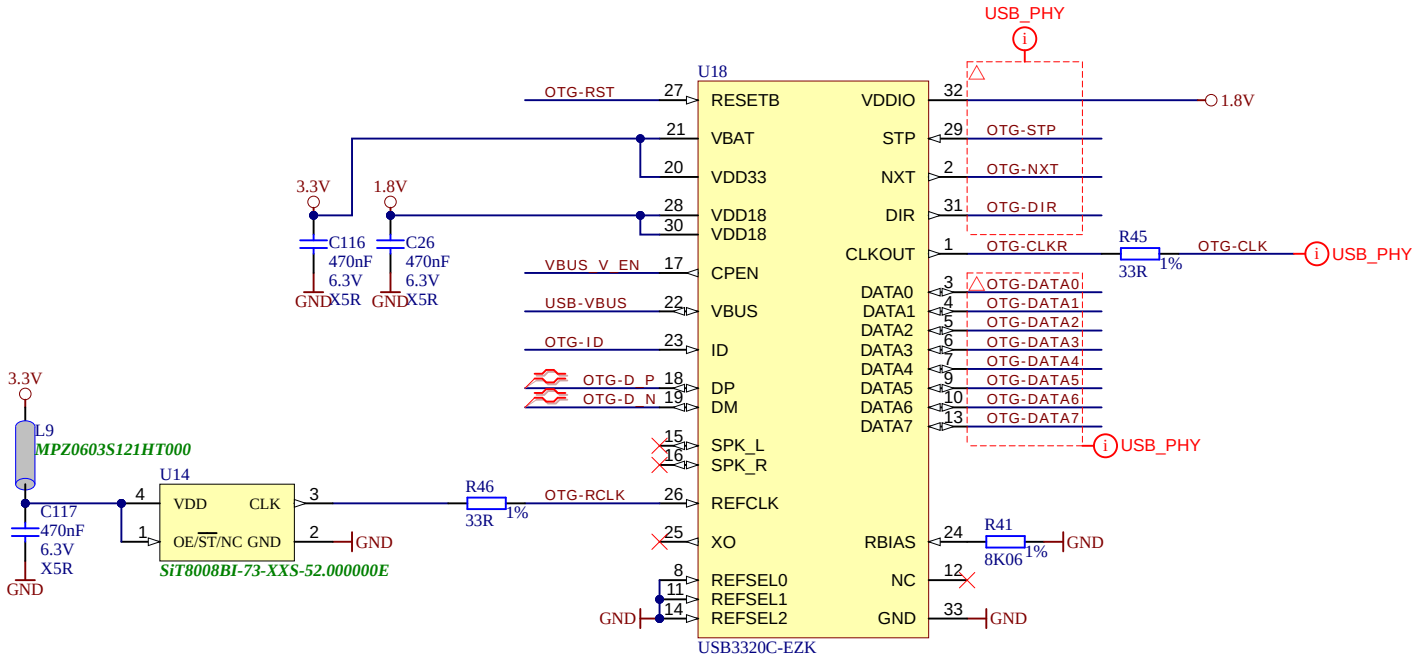
Date: 20.02.2019	Copyright: 2015 Trenz Electronic GmbH		Page 20 of 24
Filename: ETH-PHY.SchDoc			



trenz electronic	Title: Module TE0821 - USB PHY		
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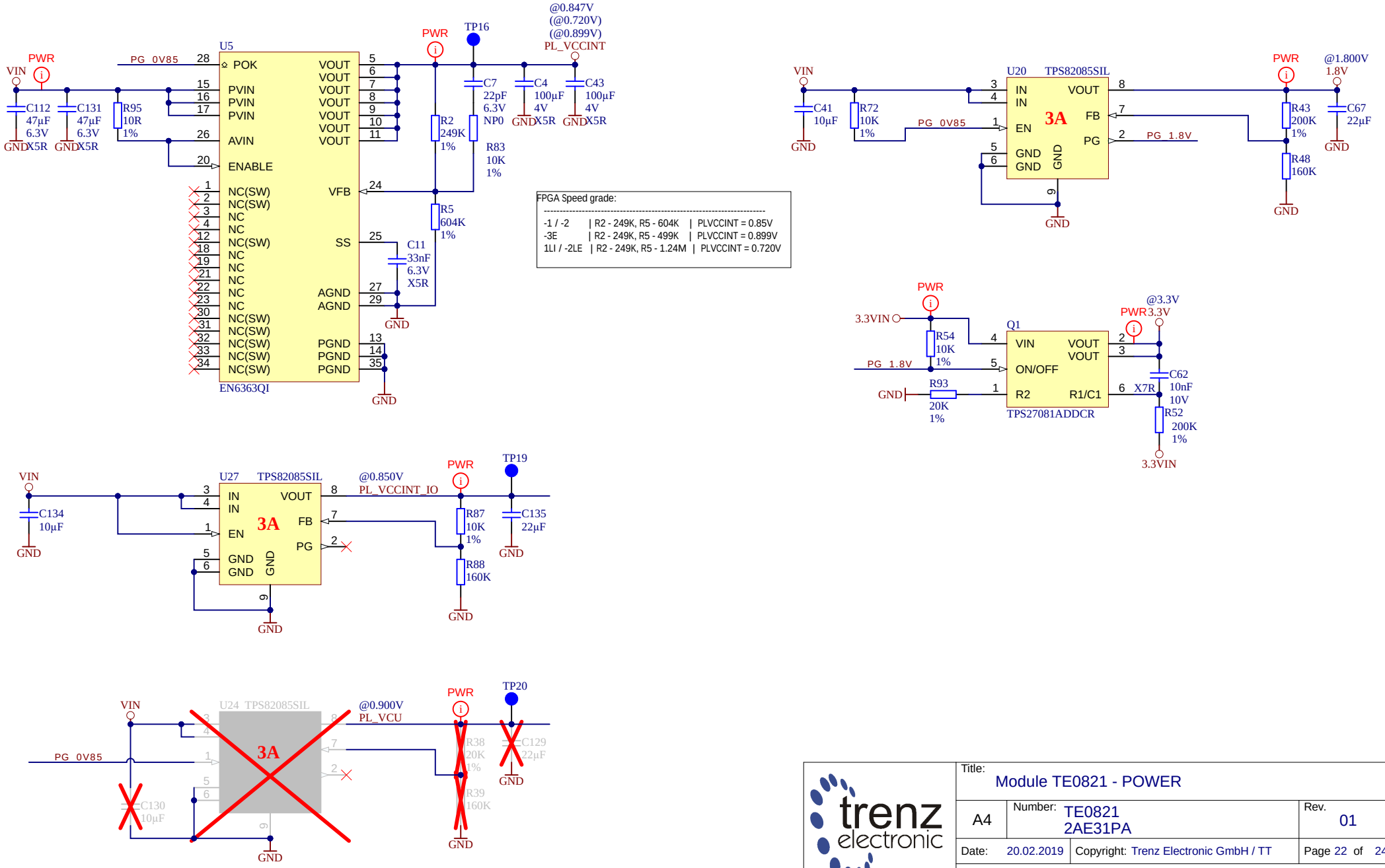
Date: 20.02.2019	Copyright: 2015 Trenz Electronic GmbH		Page 21 of 24
Filename: USB-PHY.SchDoc			



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	Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT	Page 22 of 24
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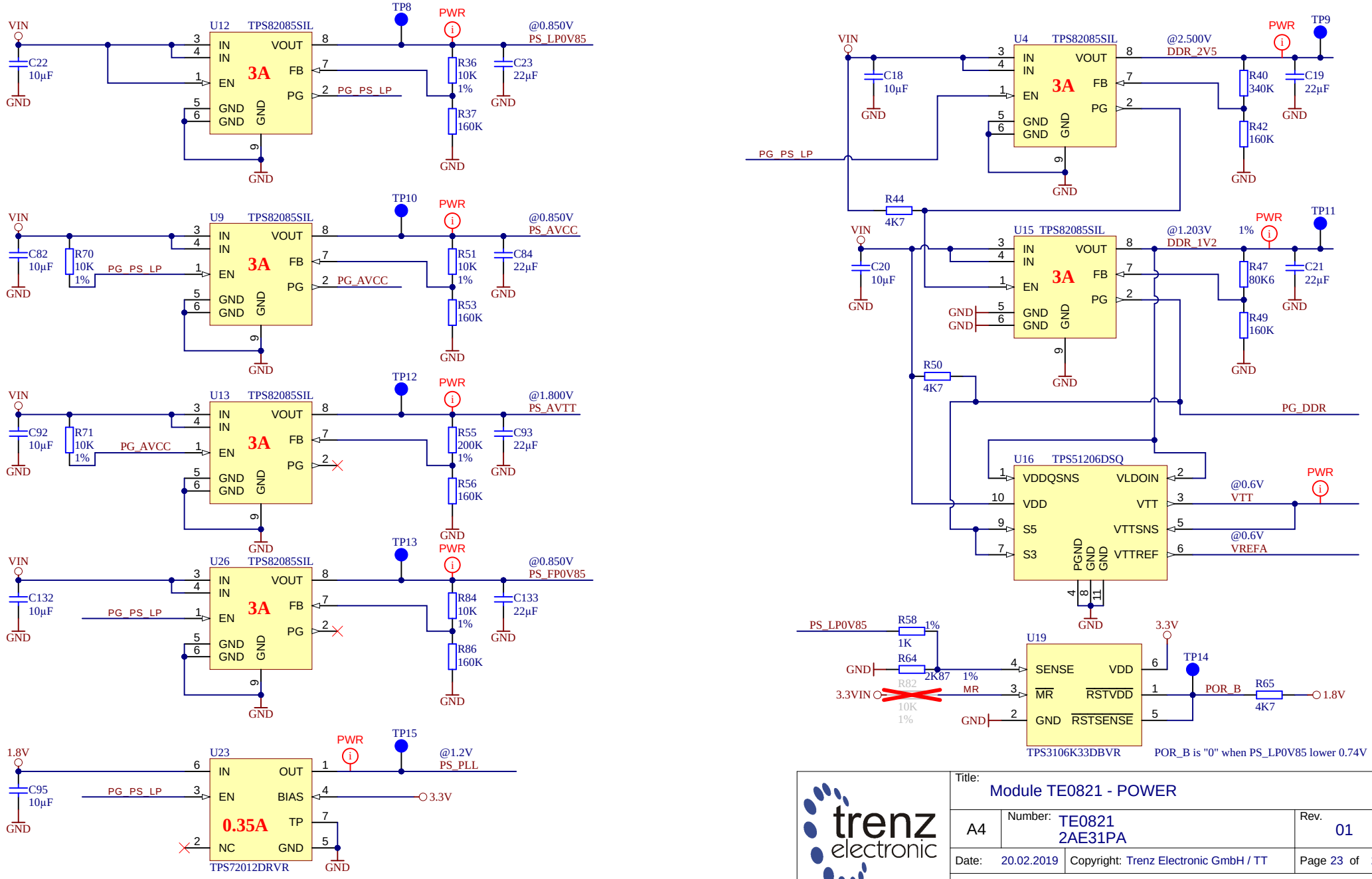

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Title: Module TE0821 - POWER		
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Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT	Page 23 of 24
Filename: POWER_1.SchDoc		

Revision 01a (01.07.2020):
---
1. VY: R38 value was changed to 20K (was: 40K2) to set VCU 0.9V

Revision 01b (29.10.2020):
---
1. VY: Updated Block diagram

(07.02.2024):
2. OT: R82 set to not fitted

trenz electronic	Title: Module TE0821 - Revision Changes		
	A4	Number: TE0821 2AE31PA	Rev. 01
	Date: 20.02.2019	Copyright: Trenz Electronic GmbH / TT	Page 24 of 24
	Filename: Revision Changes.SchDoc		