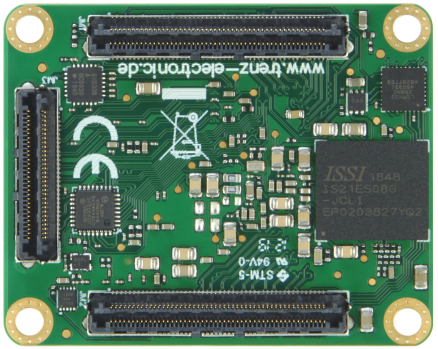

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Project is protected under copyright and we strongly and strictly prohibit the reverse engineering or recreation, even if the design is just adapted or modified. TE0821 is protected under such right and in case of plagiarism we will have to do anything necessary in order to protect our assets.

Schematics and other handouts serve for informational purposes only!

trenz electronic	Title: TE0821 - Legal Notices		
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REV	Description	
-01	Initial revision	
-01A	1) R38 value was changed to 20K (was: 40K2) to set VCU 0.9V	VY
-01B	1) Updated Block diagram	VY
-02	1) Q1 was changed from TPS27081ADDCR to MP5077GG-Z 2) R82 was removed 3) C143 and C144 were added 4) Signal trace lengths were changed. PCB routing was improved 5) D5 was added 6) Pins N9 (TEN) of U2A and U3A were connected together 7) R100 was added 8) U5 was changed from EN6363QI to MPM3860GQW-Z 9) U28 was added 10) Net "PG_ALL" was connected to pin 5 of CPLD U21 11) T2A and R113 - R115 were added (R113 DNP by default) 12) Net "RST_EN" was connected to pin 27 of CPLD U21 13) Net EN was connected to pin 16 of U5 and pin 1 of U12 14) R116 and R117 were added (R116 DNP by default) 15) All unconnected pins for Bank64 U1D were connected together 16) TP17 , TP18 , TP21 , TP22 were added. Some testpoints were moved 17) C178 was added 18) R118 - R121 were added 19) C179 - C185 were added 20) C136 , C140 were changed from 22u to 47u 21) C186 , C187, C188, C189 were added 22) C15 , C16 were changed from 4.7u to 10u 23) C48 was changed from 16V to 10V, C45 was changed from 4.7u to 10u 24) C49 , C52 , C53 , C57 were changed from 4.7u to 10u 25) C2 was changed from 16V to 10V 26) C37 , C41 , C89 , C94 , C107 , C130 , C134 were changed from 16V 0603 to 10V 0402 27) FPGA speedgrade table was changed on page "POWER.SchDoc" 28) C24 , C25 , C96 , C110 were changed from 0805 to 0603 29) C19 , C21 , C23 , C67 , C84 , C93 , C129 , C133 , C135 were changed from 6.3V to 10V 30) C61 was changed from 16V 0402 to 6.3V 0201 31) Power Diagram page was added, System Overview was updated 32) Nets were renamed: "PS_AVCC" -> PS_MGTRAVCC , "PG_AVCC" -> PG_MGTRAVCC "OTG-RCLK" -> OTG-REFCLK , "PS_AVTT" -> PS_MGTRAVTT , "PG_DDR" -> PG_DDR1V2 33) Connection for pin "SENSE" of U19 was changed from net PS_LP0V85 to net PS_FP0V85 34) Net PG_0V85 was connected to pin 1 (EN) of U27 35) Net "PG_PS_LP" was renamed to PG_PSLP_INTIO and connected with pin 2 (PG) of U27 , pin 1 (EN) of U20 (instead net PG_0V85) 36) Net PG_FP0V85 was created and connected to pin 2 (PG) of U26 , pin 3 (EN) of U23 (instead net "PG_PS_LP") and pin 1 (EN) of U4 (instead net "PG_PS_LP") 37) Net PG_DDR2V5 was created, pin 2 (PG) of U4 was connected to pin 1 (EN) of U9 (instead net "PG_PS_LP") 38) R70 was unconnected from pin 1 of U9 and connected to pin 1 of U26 39) R122 was added 40) U11 was changed from SiT8008BI-73-XXS-25.000000E to SIT8008BI-73-18S-25.000000E 41) VDD for U10 and U11 was changed from 3.3V to 1.8V	MT

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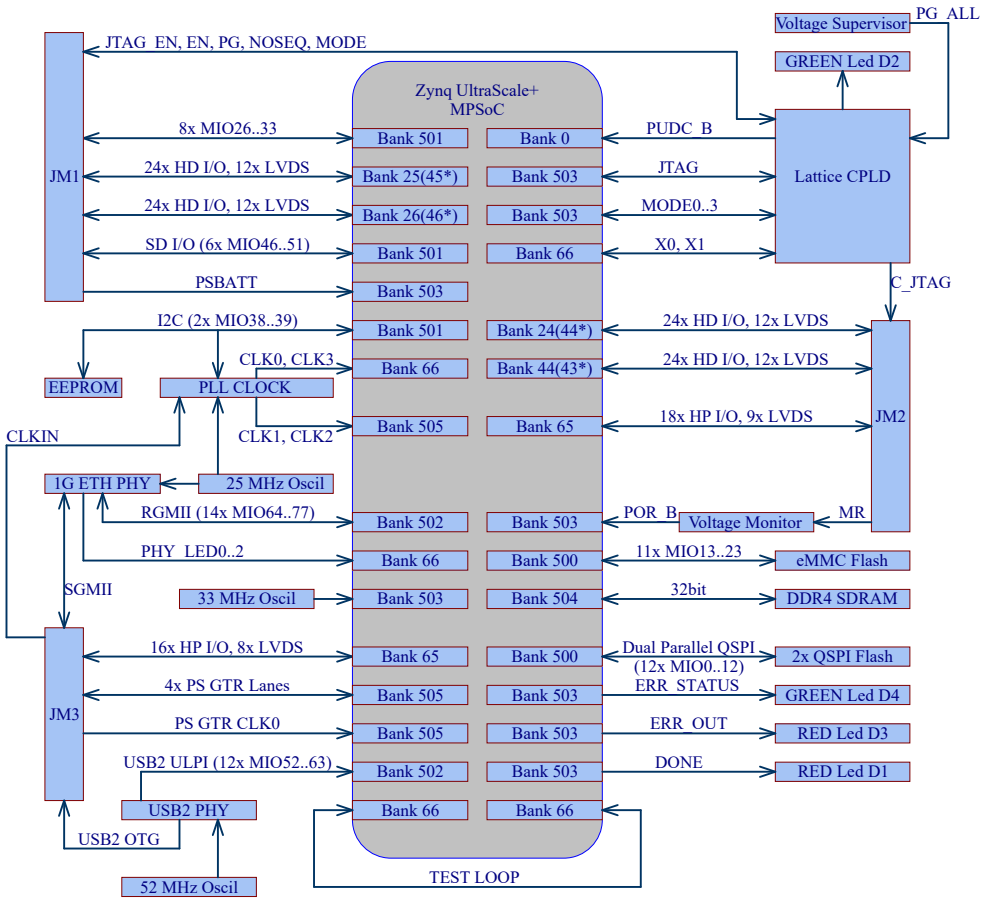

*Bank in XCZU2/3 (XCZU4/5)

U_B64
B64.SchDoc

U_ZU_POWER
ZU_POWER.SchDoc

U_ZU_PS_POWER
ZU_PS_POWER.SchDoc

U_POWER
POWER.SchDoc

U_POWER_1
POWER_1.SchDoc

U_DDR4-RAM_2
DDR4-RAM_2.SchDoc

Table of I2C devices and addresses

Designator	I2C Address	Description
U25	0x50	I2C MAC EEPROM
U10	0x70	QUAD CLOCK GEN

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Title: TE0821 - System Overview			
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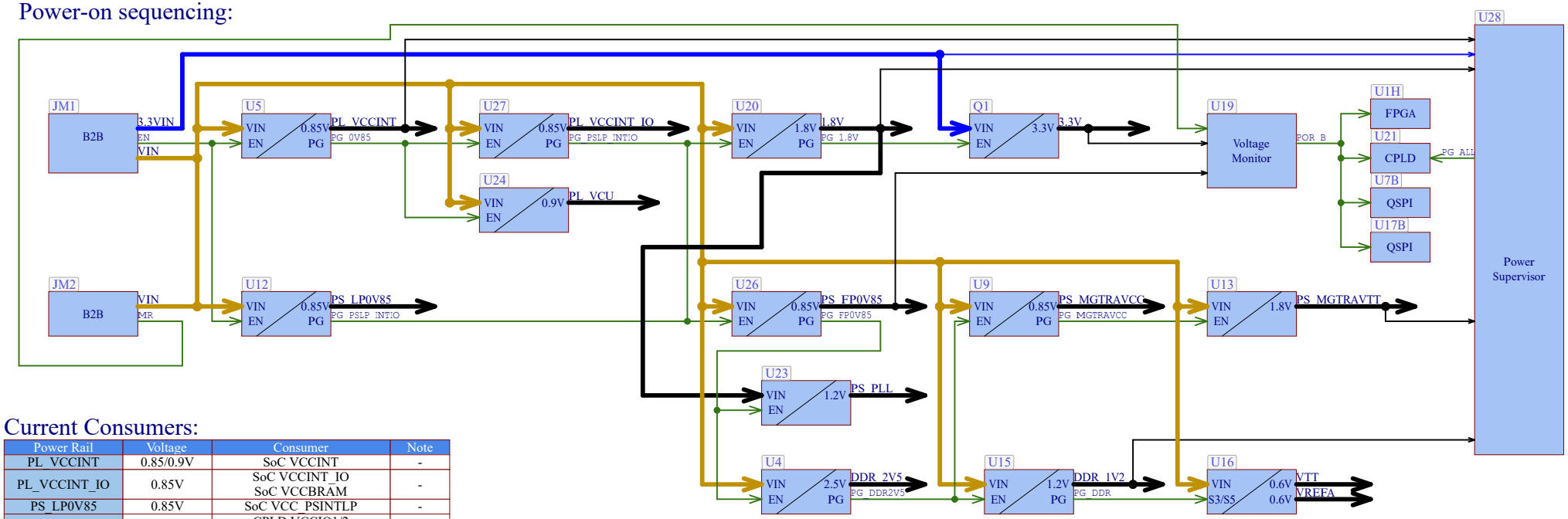
Power-on sequencing:



Current Consumers:

Power Rail	Voltage	Consumer	Note
PL_VCCINT	0.85/0.9V	SoC VCCINT	-
PL_VCCINT_IO	0.85V	SoC VCCINT_IO SoC VCCBRAM	-
PS_LP0V85	0.85V	SoC VCC_PSINTLP	-
1.8V	1.8V	CPLD VCCIO1/2 B2B JM1 SoC VCCO_66 QSPI FLASH QUAD CLK VDDO SoC VCCO_PS_503 eMMC VCCQ ETH PHY VDDO SoC VCCPSDDR_PLL USB PHY VDD18 SoC VCC_AUX SoC VCC_AUX_IO SoC VCC_PS_AUX	-
PL_VCU	0.9V	SoC VCCINT_VCU	-
PS_AVCC	0.85V	SoC PS_MGTRAVCC	-
PS_FP0V85	0.85V	SoC VCC_PS_INTFP_DDR SoC VCC_PS_INTFP	-
PS_PLL	1.2V	SoC VCC_PSPLL	-
DDR_2V5	2.5V	DDR VPP	-
3.3V	3.3V	B2B JM2 SoC VCCO_PSIO1_501 QUAD CLK VDD eMMC VCC EEPROM VCC CLK GEN 25M VDD USB PHY VDD33/VBAT CLK GEN 52M VDD	-
PS_AVTT	1.8V	SoC PS_MGTRAVTT	-
DDR_1V2	1.2V	DDR VDD/VDDQ SoC VCCO_PSDDR_504	-
VREFA	0.6V	DDR VREFCA	-

Supported Voltage Ranges:

Power Rail	Direction	Range	Tolerance	Description	Note
VIN	IN	3.3V-5.7V	+/-5%	Micromodule Power	-
3.3VIN	IN	3.3V	+/-5%	Micromodule Power	-
	OUT			Power for JTAG	
PSBATT	IN	1.2 - 1.5V	+/-3%	SoC Vbatt	-
VCCO_65	IN	1.0 - 1.8V	+/-3%	IO Bank65	-
VCCO_HD25_26	IN	1.2 - 3.3V	+/-3%	IO Banks 25/26	-
VCCO_HD24_44	IN	1.2 - 3.3V	+/-3%	IO Banks 24/44	
1.8V	OUT	1.8V	+/-3%	Power for Carrier	-

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Title: TE0821 - Power Diagram

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Serial

Serial

Serialnumber 6,3 x 6.3mm

CE

CE Logo on Top Overlay

CE-TOPOVERLAY

UKCA

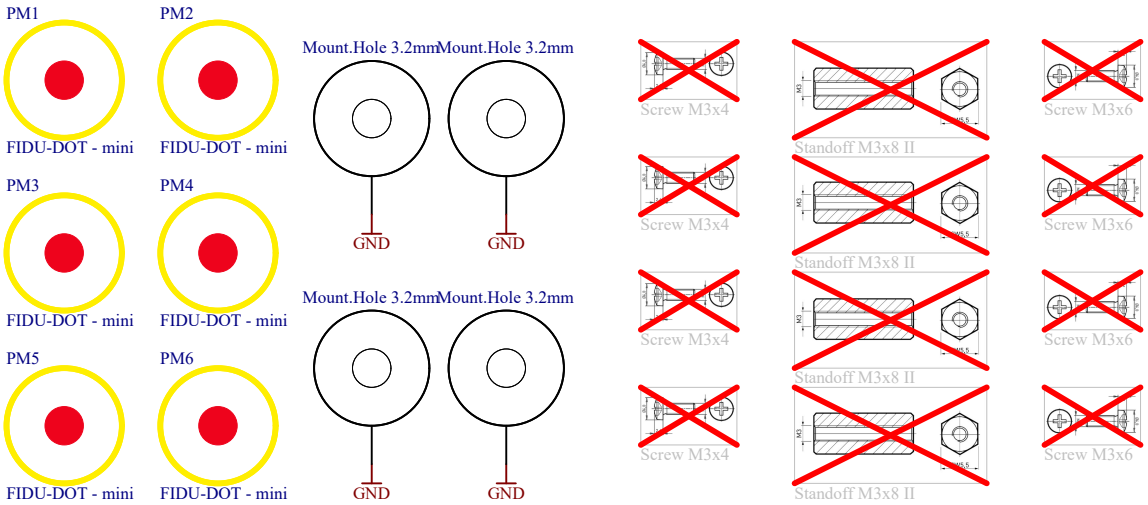
UKCA Logo on Top Overlay

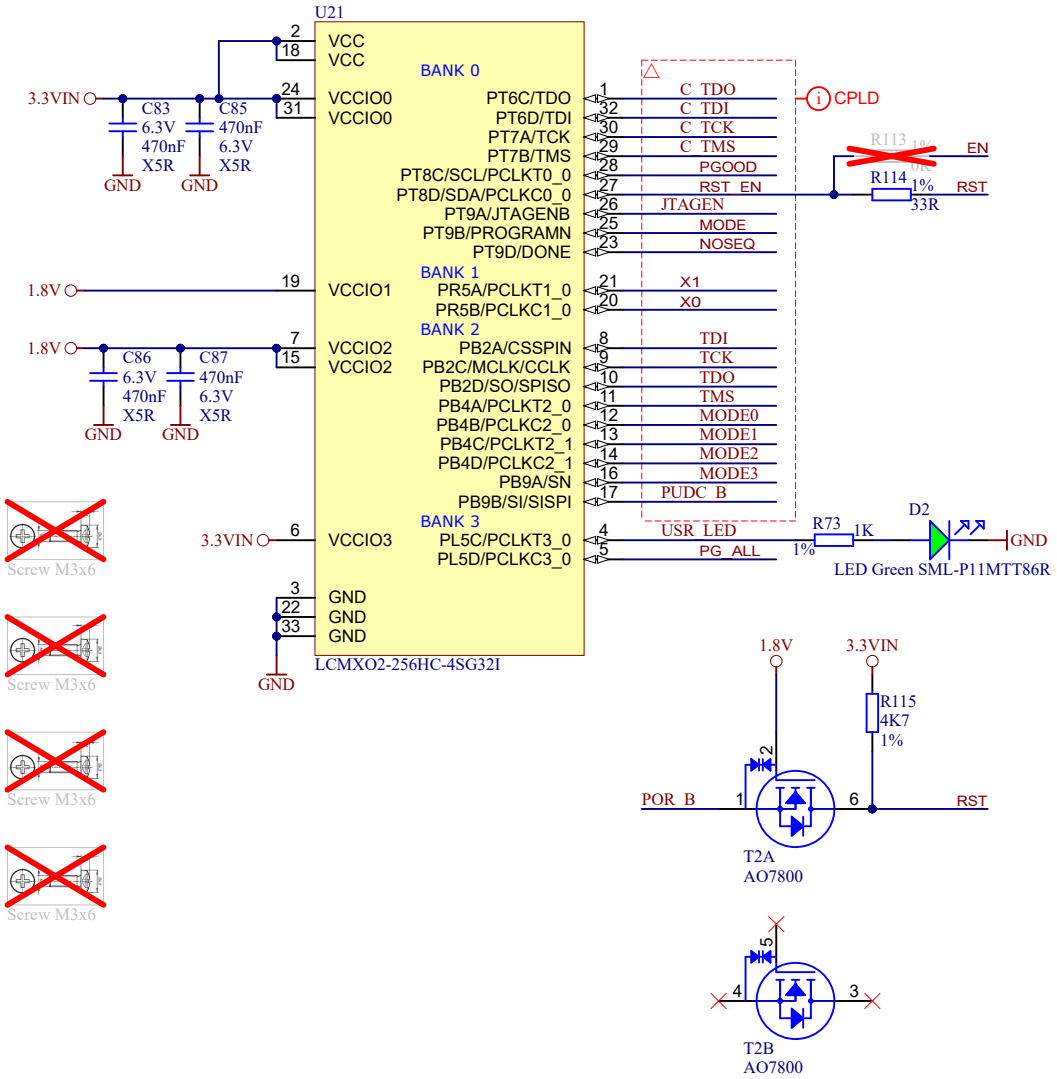
UKCA-TOPOVERLAY

RoHS

RoHS Logo on Top Overlay

RoHS-TOPOVERLAY





Special notes:

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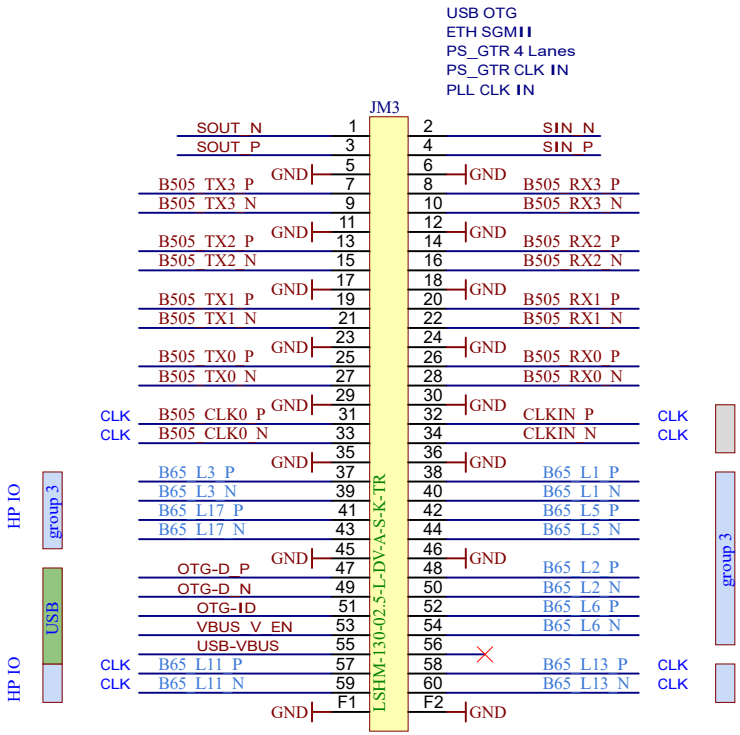
Date: 08-Apr-24	Copyright: 2015 Trenz Electronic GmbH		Page 6 of 25
Filename: B2B-Connectors.SchDoc			



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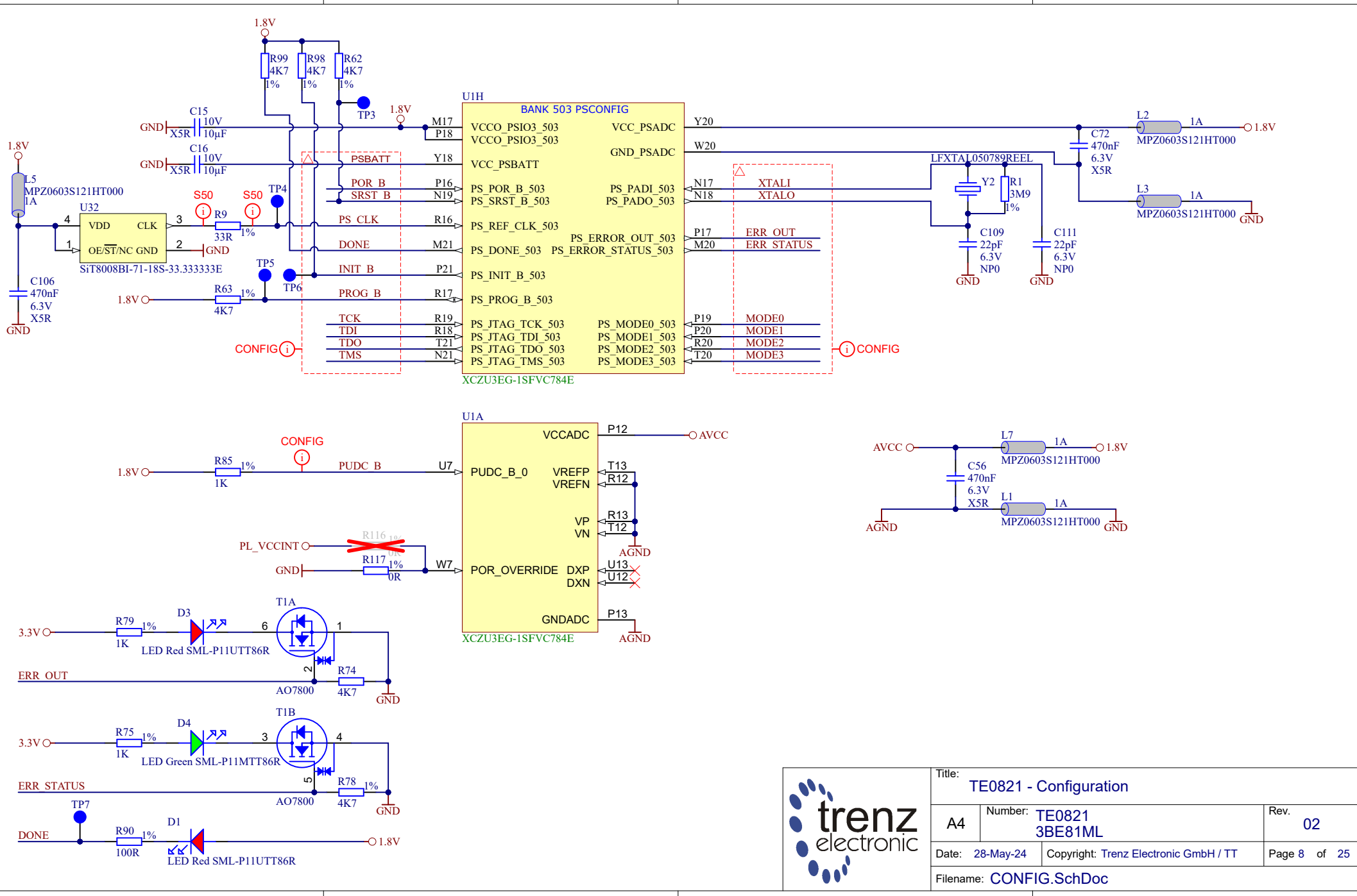
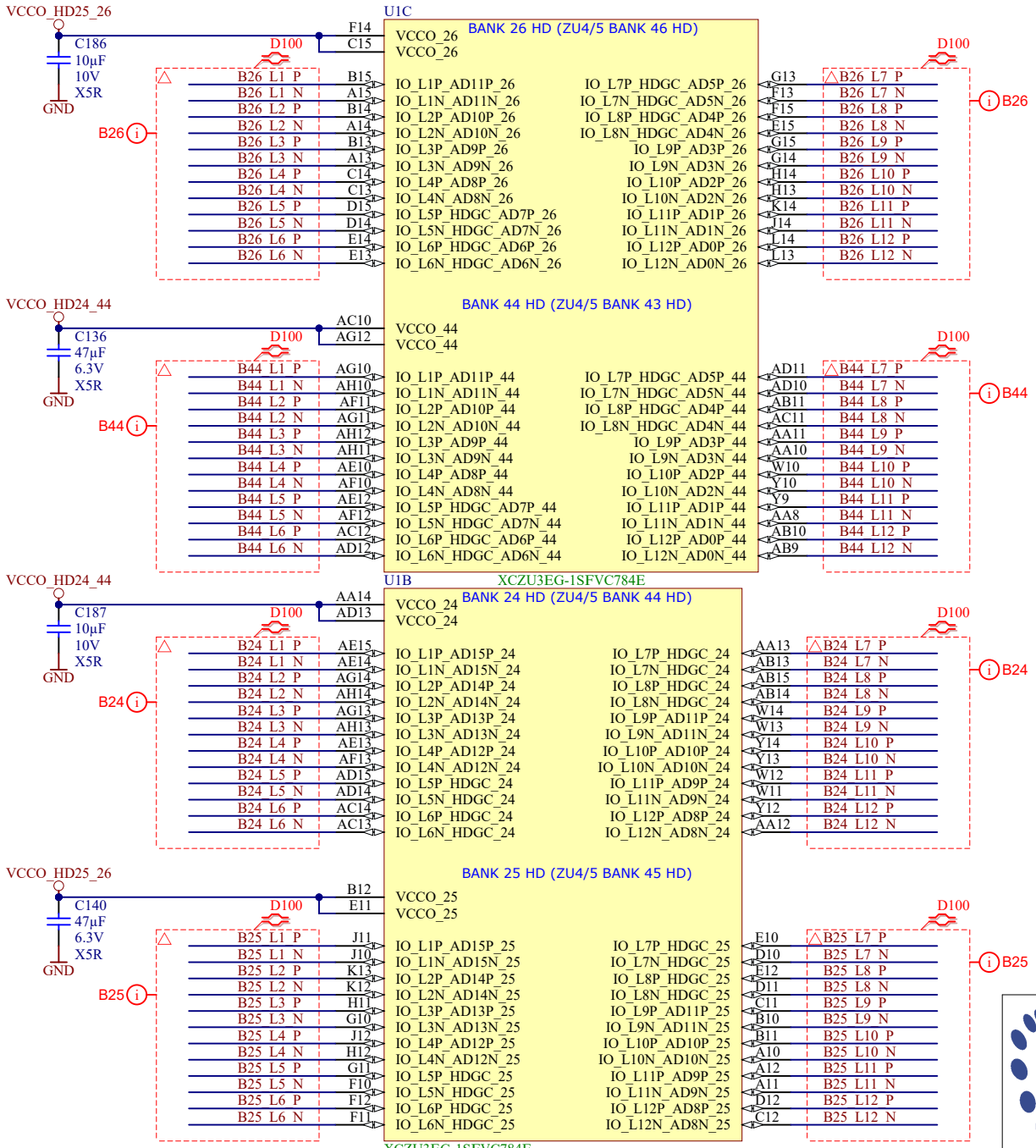
Date: 16-May-24	Copyright: 2015 Trenz Electronic GmbH		Page 7 of 25
Filename: B2B-Connectors_2.SchDoc			



Title: TE0821 - Configuration			
A4	Number: TE0821 3BE81ML		Rev. 02
Date: 28-May-24	Copyright: Trenz Electronic GmbH / TT		Page 8 of 25
Filename: CONFIG.SchDoc			


U1C
BANK 26 HD (ZU4/5 BANK 46 HD)
VCCO_HD25_26
C186
10µF
10V
X5R
GND
F14
C15
VCCO_26
VCCO_26
D100
B26
B26_L1_P
B26_L1_N
B26_L2_P
B26_L2_N
B26_L3_P
B26_L3_N
B26_L4_P
B26_L4_N
B26_L5_P
B26_L5_N
B26_L6_P
B26_L6_N
B15
A15
B14
A14
B13
A13
C14
C13
D15
D14
E14
E13
IO_L1P_AD11P_26
IO_L1N_AD11N_26
IO_L2P_AD10P_26
IO_L2N_AD10N_26
IO_L3P_AD9P_26
IO_L3N_AD9N_26
IO_L4P_AD8P_26
IO_L4N_AD8N_26
IO_L5P_HDGC_AD7P_26
IO_L5N_HDGC_AD7N_26
IO_L6P_HDGC_AD6P_26
IO_L6N_HDGC_AD6N_26
IO_L7P_HDGC_AD5P_26
IO_L7N_HDGC_AD5N_26
IO_L8P_HDGC_AD4P_26
IO_L8N_HDGC_AD4N_26
IO_L9P_AD3P_26
IO_L9N_AD3N_26
IO_L10P_AD2P_26
IO_L10N_AD2N_26
IO_L11P_AD1P_26
IO_L11N_AD1N_26
IO_L12P_AD0P_26
IO_L12N_AD0N_26
G13
F13
F15
E15
G15
G14
H14
H13
K14
J14
L14
L13
B26_L7_P
B26_L7_N
B26_L8_P
B26_L8_N
B26_L9_P
B26_L9_N
B26_L10_P
B26_L10_N
B26_L11_P
B26_L11_N
B26_L12_P
B26_L12_N
BANK 44 HD (ZU4/5 BANK 43 HD)
VCCO_HD24_44
C136
47µF
6.3V
X5R
GND
AC10
AG12
VCCO_44
VCCO_44
B44
B44_L1_P
B44_L1_N
B44_L2_P
B44_L2_N
B44_L3_P
B44_L3_N
B44_L4_P
B44_L4_N
B44_L5_P
B44_L5_N
B44_L6_P
B44_L6_N
AG10
AH10
AF11
AG11
AH12
AH11
AE10
AF10
AE12
AF12
AC12
AD12
IO_L1P_AD11P_44
IO_L1N_AD11N_44
IO_L2P_AD10P_44
IO_L2N_AD10N_44
IO_L3P_AD9P_44
IO_L3N_AD9N_44
IO_L4P_AD8P_44
IO_L4N_AD8N_44
IO_L5P_HDGC_AD7P_44
IO_L5N_HDGC_AD7N_44
IO_L6P_HDGC_AD6P_44
IO_L6N_HDGC_AD6N_44
IO_L7P_HDGC_AD5P_44
IO_L7N_HDGC_AD5N_44
IO_L8P_HDGC_AD4P_44
IO_L8N_HDGC_AD4N_44
IO_L9P_AD3P_44
IO_L9N_AD3N_44
IO_L10P_AD2P_44
IO_L10N_AD2N_44
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IO_L11N_AD1N_44
IO_L12P_AD0P_44
IO_L12N_AD0N_44
AD11
AD10
AB11
AC11
AA11
AA10
W10
Y10
Y9
AA8
AB10
AB9
B44_L7_P
B44_L7_N
B44_L8_P
B44_L8_N
B44_L9_P
B44_L9_N
B44_L10_P
B44_L10_N
B44_L11_P
B44_L11_N
B44_L12_P
B44_L12_N
U1B
XCZU3EG-1SFVC784E
BANK 24 HD (ZU4/5 BANK 44 HD)
VCCO_HD24_44
C187
10µF
10V
X5R
GND
AA14
AD13
VCCO_24
VCCO_24
B24
B24_L1_P
B24_L1_N
B24_L2_P
B24_L2_N
B24_L3_P
B24_L3_N
B24_L4_P
B24_L4_N
B24_L5_P
B24_L5_N
B24_L6_P
B24_L6_N
AE15
AE14
AG14
AH14
AG13
AH13
AE13
AF13
AD15
AD14
AC14
AC13
IO_L1P_AD15P_24
IO_L1N_AD15N_24
IO_L2P_AD14P_24
IO_L2N_AD14N_24
IO_L3P_AD13P_24
IO_L3N_AD13N_24
IO_L4P_AD12P_24
IO_L4N_AD12N_24
IO_L5P_HDGC_24
IO_L5N_HDGC_24
IO_L6P_HDGC_24
IO_L6N_HDGC_24
IO_L7P_HDGC_24
IO_L7N_HDGC_24
IO_L8P_HDGC_24
IO_L8N_HDGC_24
IO_L9P_AD11P_24
IO_L9N_AD11N_24
IO_L10P_AD10P_24
IO_L10N_AD10N_24
IO_L11P_AD9P_24
IO_L11N_AD9N_24
IO_L12P_AD8P_24
IO_L12N_AD8N_24
AA13
AB13
AB15
AB14
W14
W13
Y14
Y13
W12
W11
Y12
AA12
B24_L7_P
B24_L7_N
B24_L8_P
B24_L8_N
B24_L9_P
B24_L9_N
B24_L10_P
B24_L10_N
B24_L11_P
B24_L11_N
B24_L12_P
B24_L12_N
BANK 25 HD (ZU4/5 BANK 45 HD)
VCCO_HD25_26
C140
47µF
6.3V
X5R
GND
B12
E11
VCCO_25
VCCO_25
B25
B25_L1_P
B25_L1_N
B25_L2_P
B25_L2_N
B25_L3_P
B25_L3_N
B25_L4_P
B25_L4_N
B25_L5_P
B25_L5_N
B25_L6_P
B25_L6_N
J11
J10
K13
K12
H11
G10
J12
H12
G11
F10
F12
F11
IO_L1P_AD15P_25
IO_L1N_AD15N_25
IO_L2P_AD14P_25
IO_L2N_AD14N_25
IO_L3P_AD13P_25
IO_L3N_AD13N_25
IO_L4P_AD12P_25
IO_L4N_AD12N_25
IO_L5P_HDGC_25
IO_L5N_HDGC_25
IO_L6P_HDGC_25
IO_L6N_HDGC_25
IO_L7P_HDGC_25
IO_L7N_HDGC_25
IO_L8P_HDGC_25
IO_L8N_HDGC_25
IO_L9P_AD11P_25
IO_L9N_AD11N_25
IO_L10P_AD10P_25
IO_L10N_AD10N_25
IO_L11P_AD9P_25
IO_L11N_AD9N_25
IO_L12P_AD8P_25
IO_L12N_AD8N_25
E10
D10
E12
D11
C11
B10
B11
A10
A12
A11
D12
C12
B25_L7_P
B25_L7_N
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B25_L8_N
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B25_L11_P
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XCZU3EG-1SFVC784E
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Title: TE0821 - HD Banks
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Number: TE0821 3BE81ML
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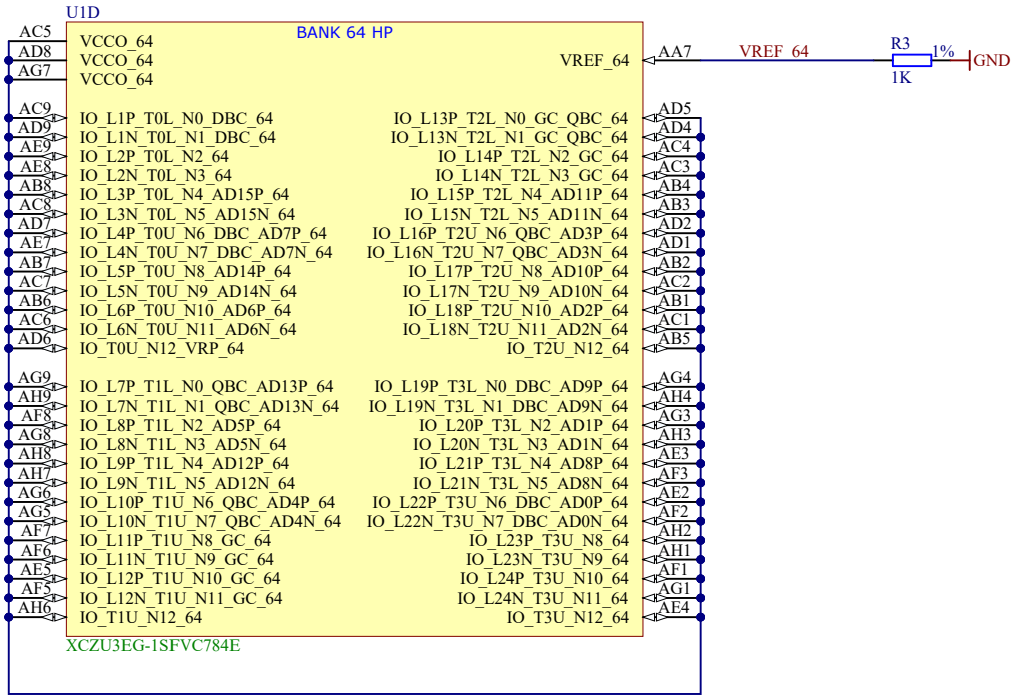
Filename: B_HD.SchDoc



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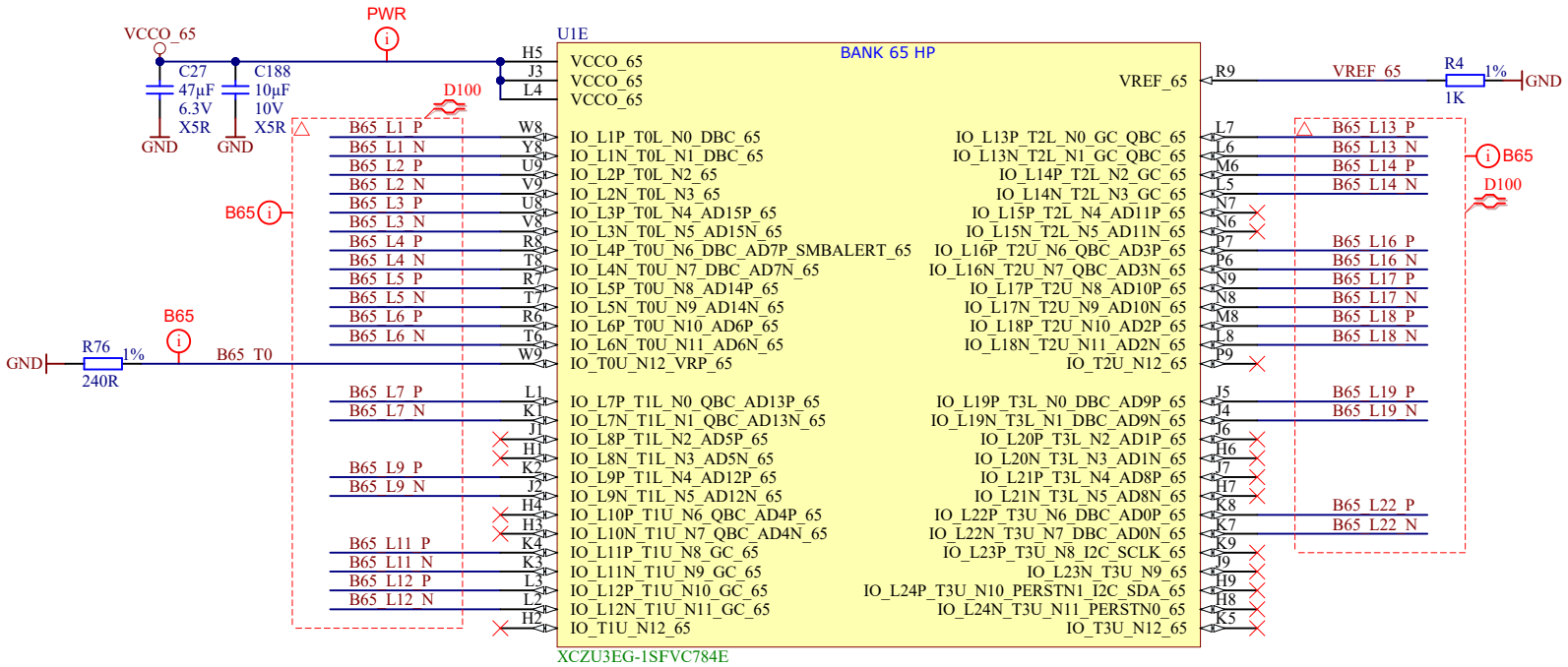

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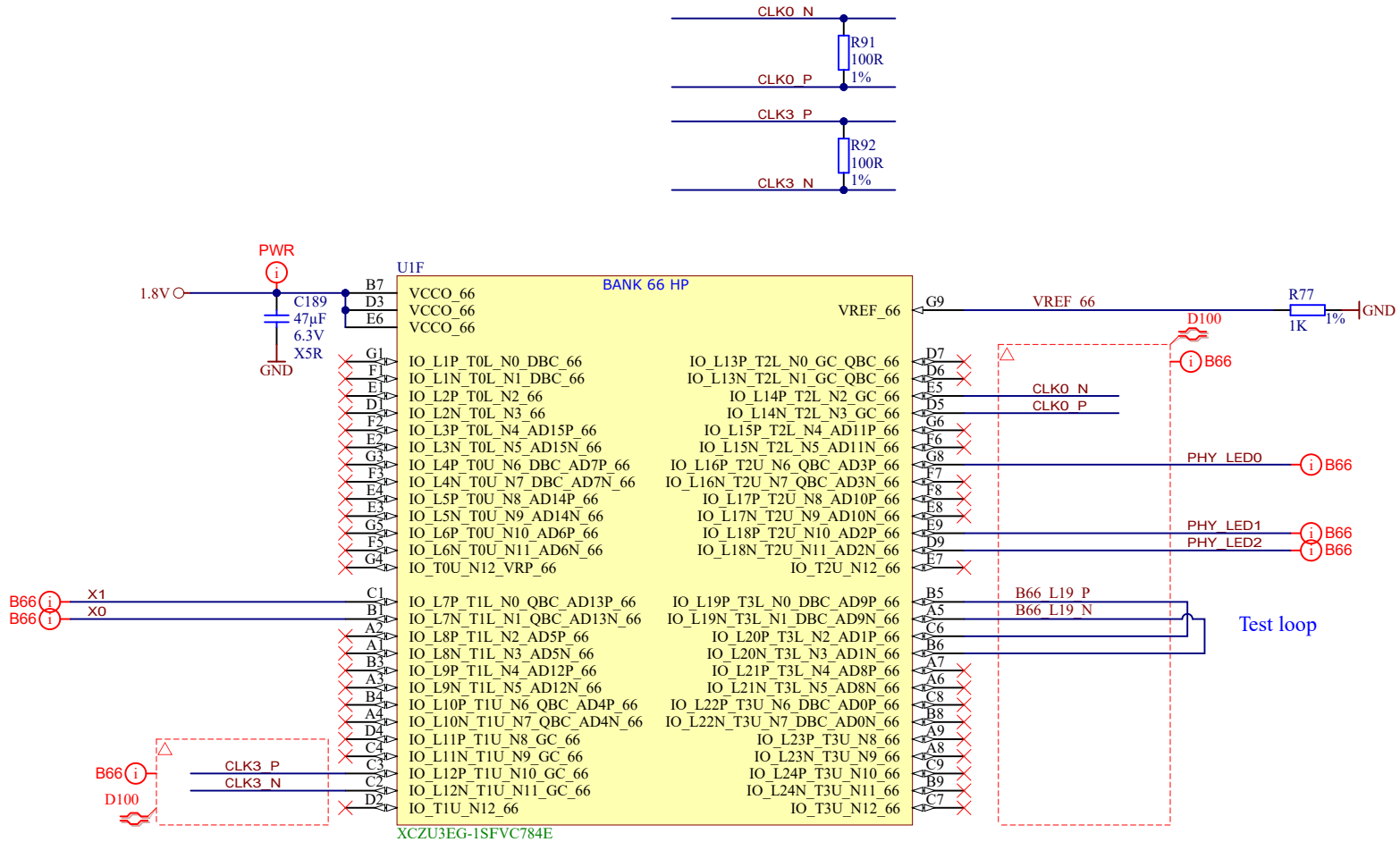
Date: 16-May-24	Copyright: Trenz Electronic GmbH / TT		Page 11 of 25
Filename: B65.SchDoc			



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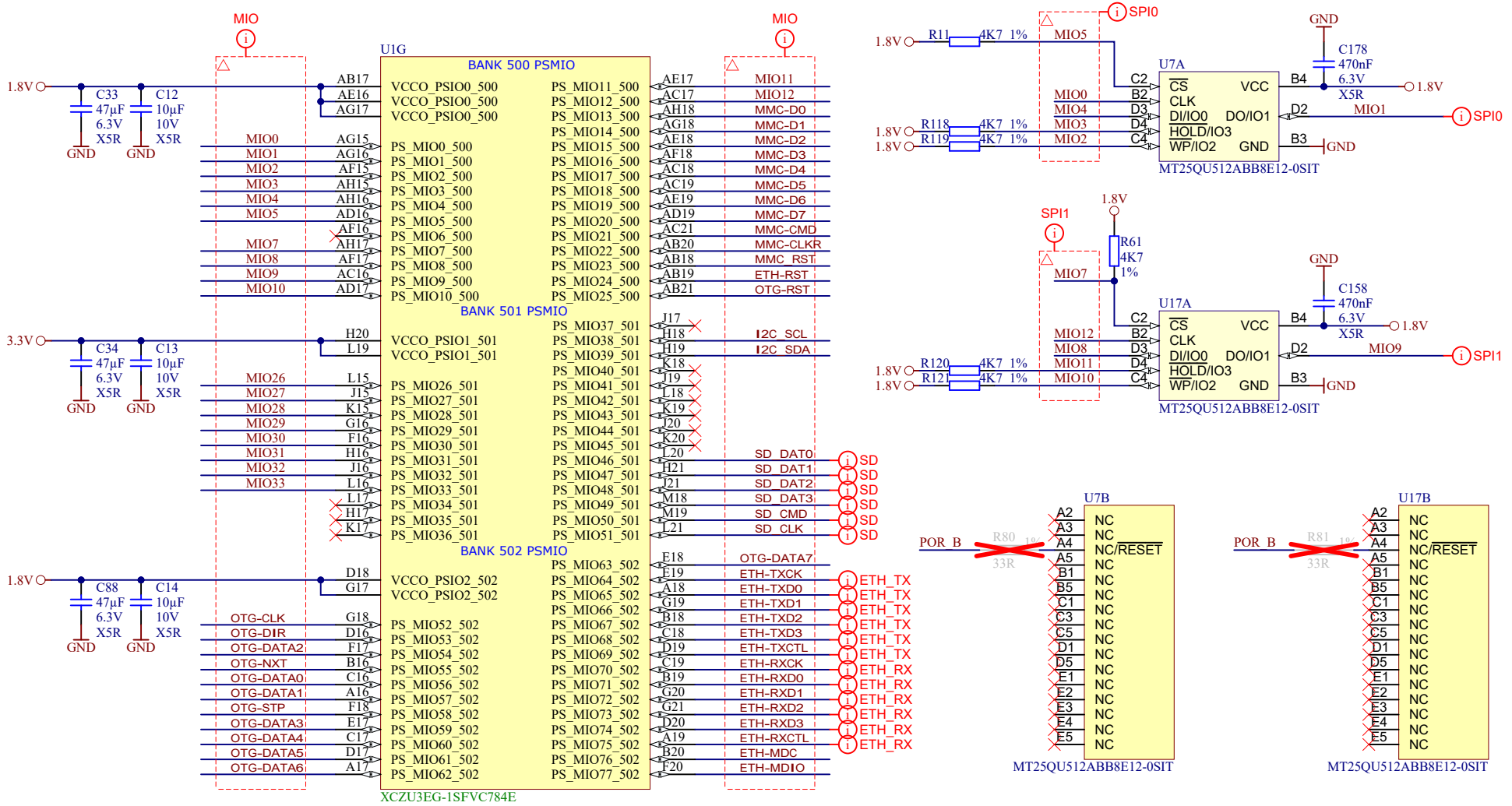
Filename: B66.SchDoc			



trenz electronic	Title: TE0821 - MIO Banks		
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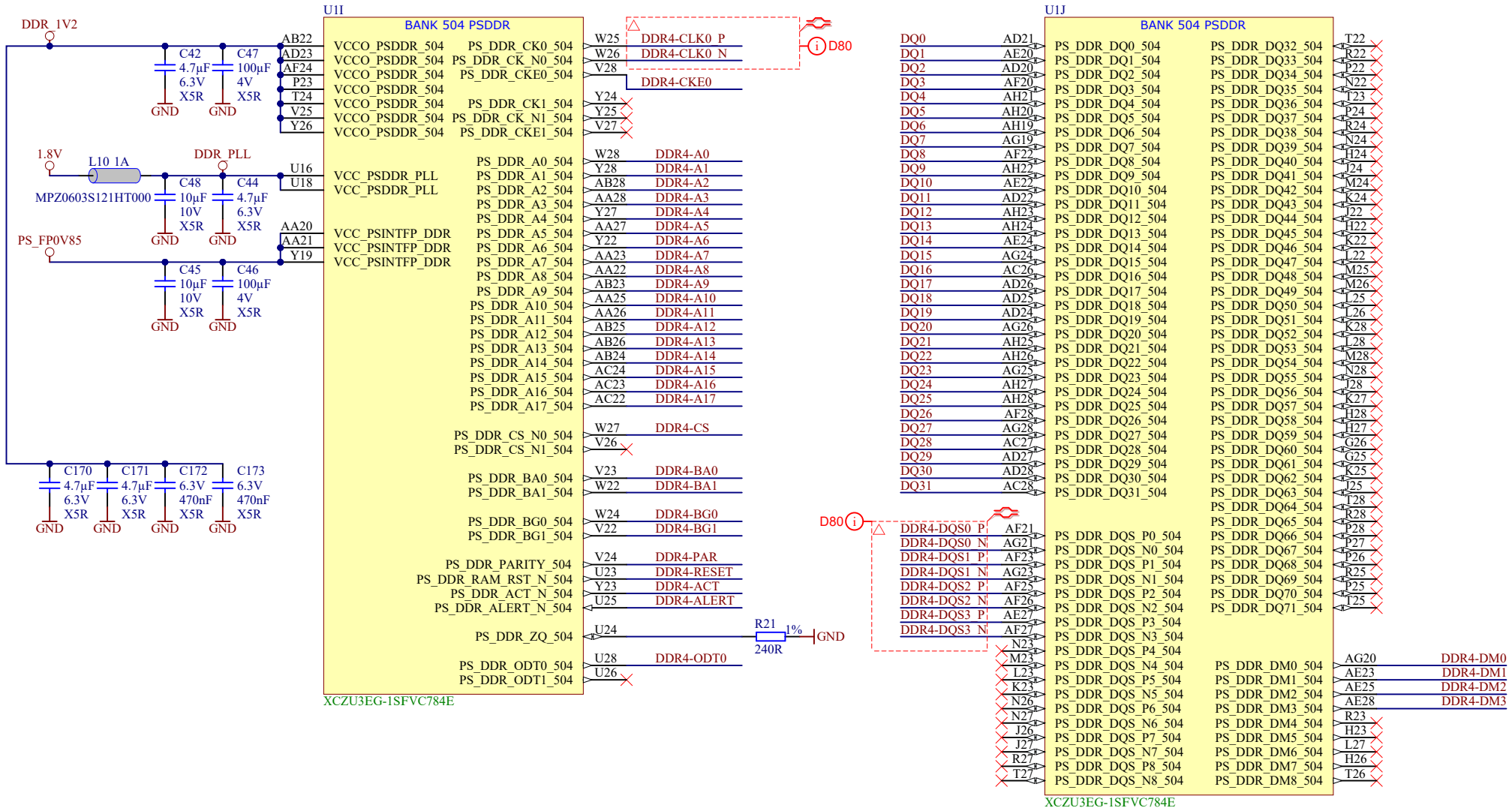
Date: 08-Apr-24	Copyright: Trenz Electronic GmbH / TT		Page 13 of 25
Filename: B_MIO.SchDoc			



trenz electronic	Title: TE0821 - PS DDR		
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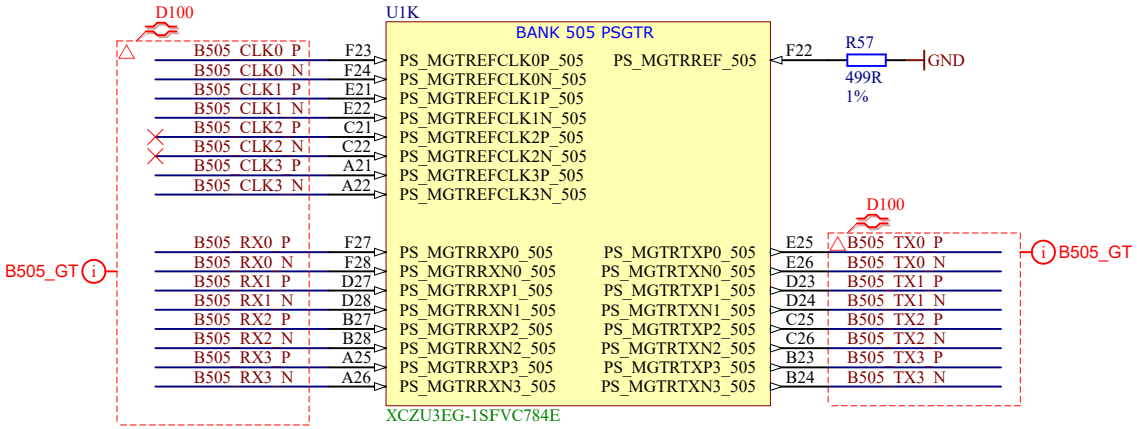

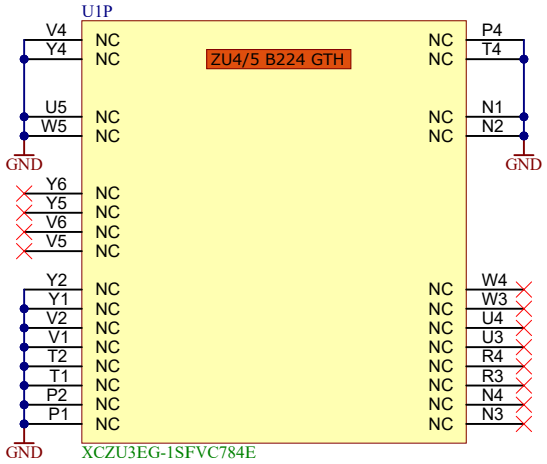

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Title: TE0821 - PS MGT		
A4	Number: TE0821 3BE81ML	Rev. 02
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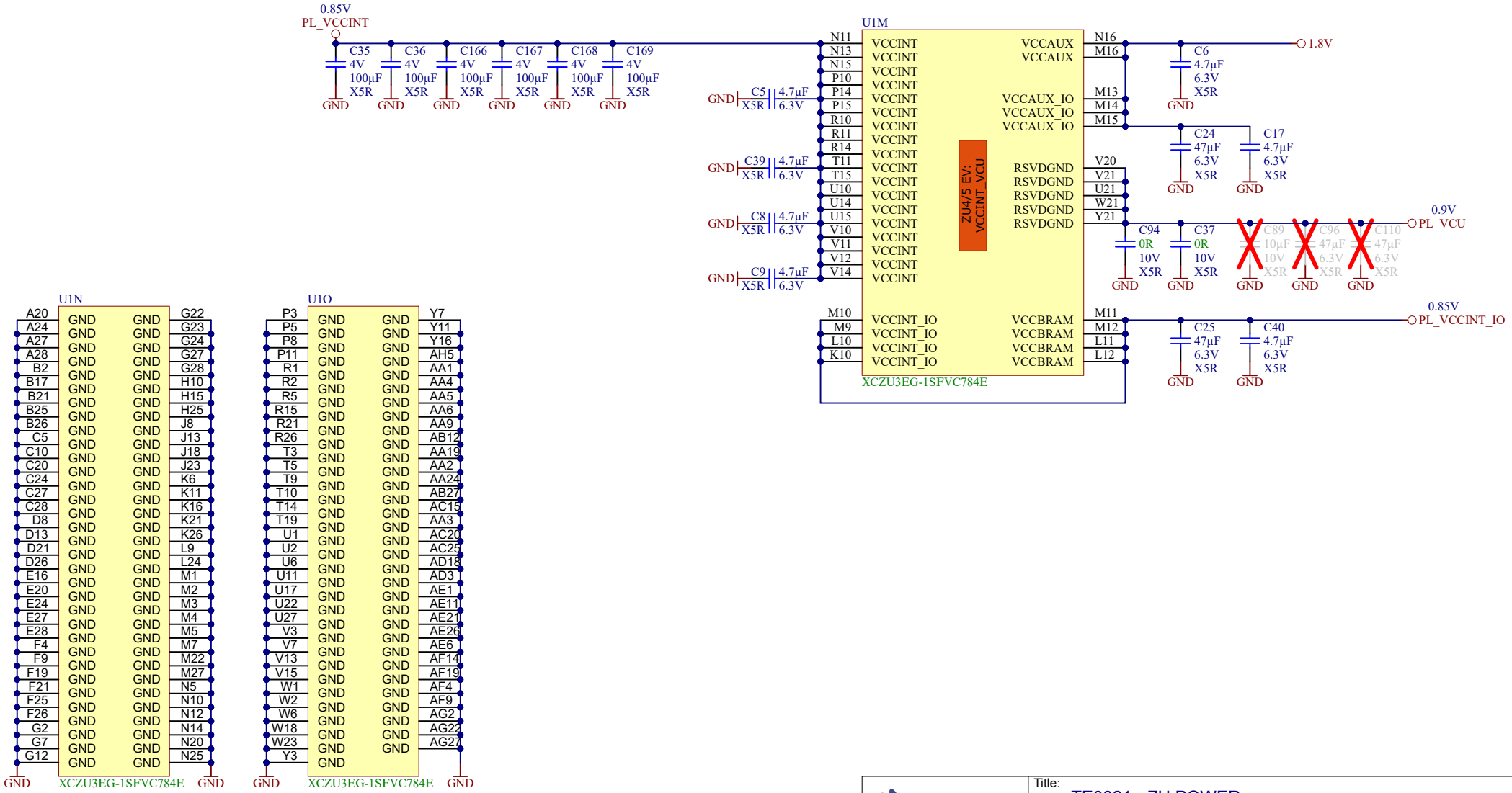
Filename: B_PS_GT.SchDoc		



Title: TE0821 - ZU POWER		
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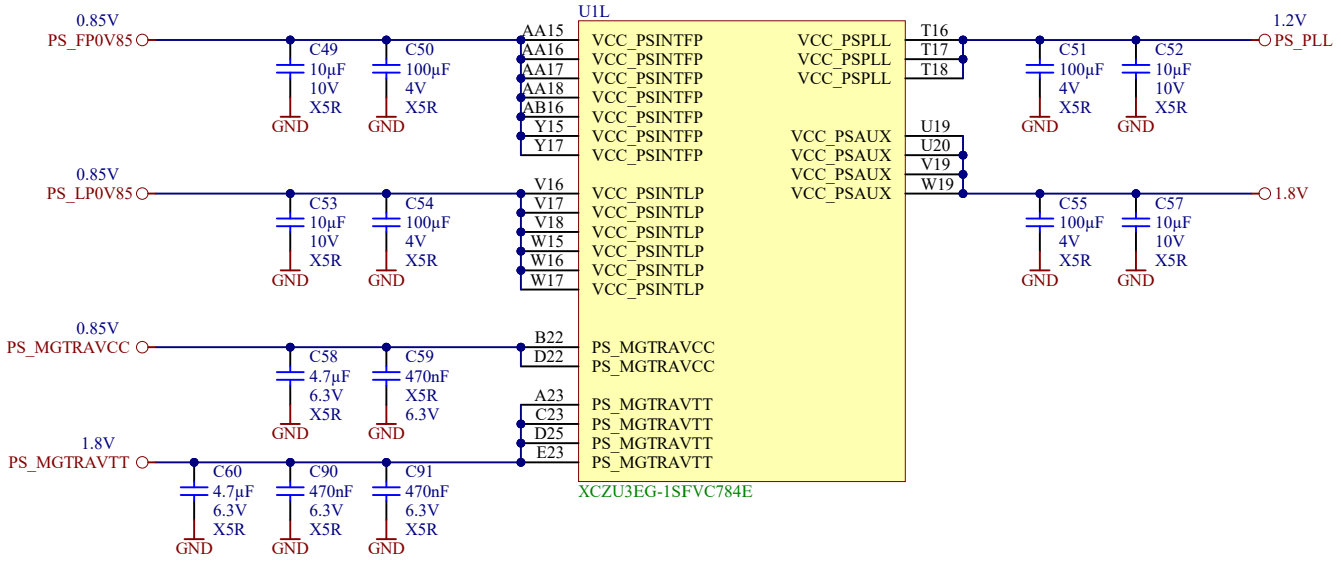
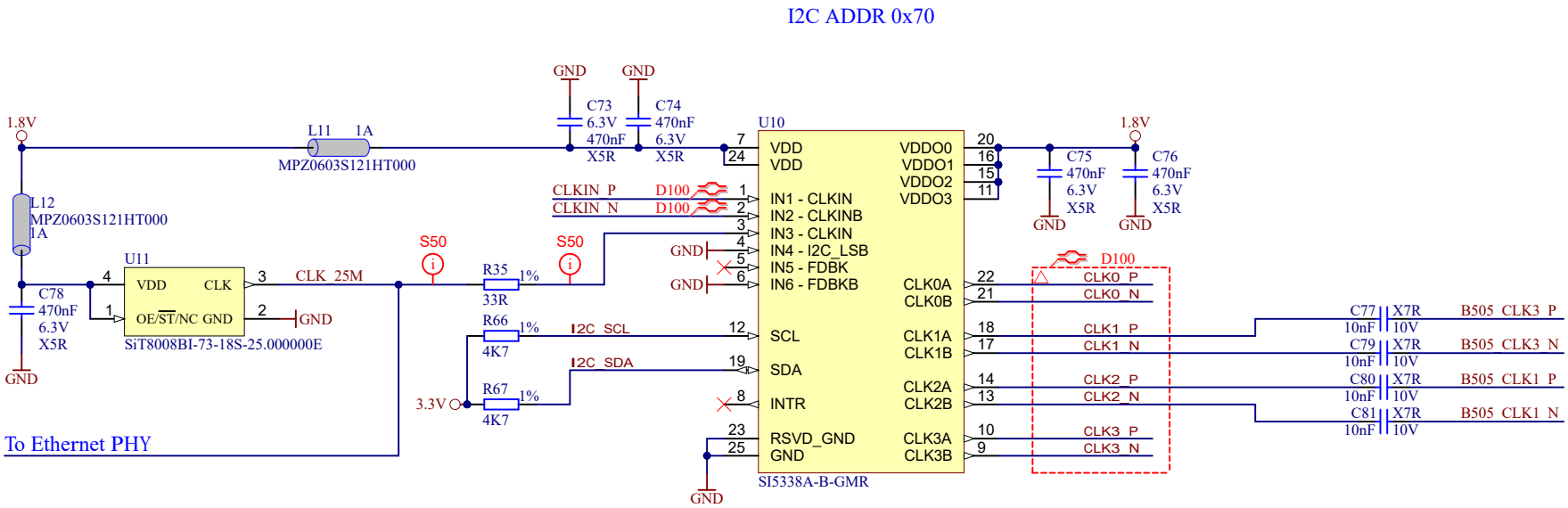
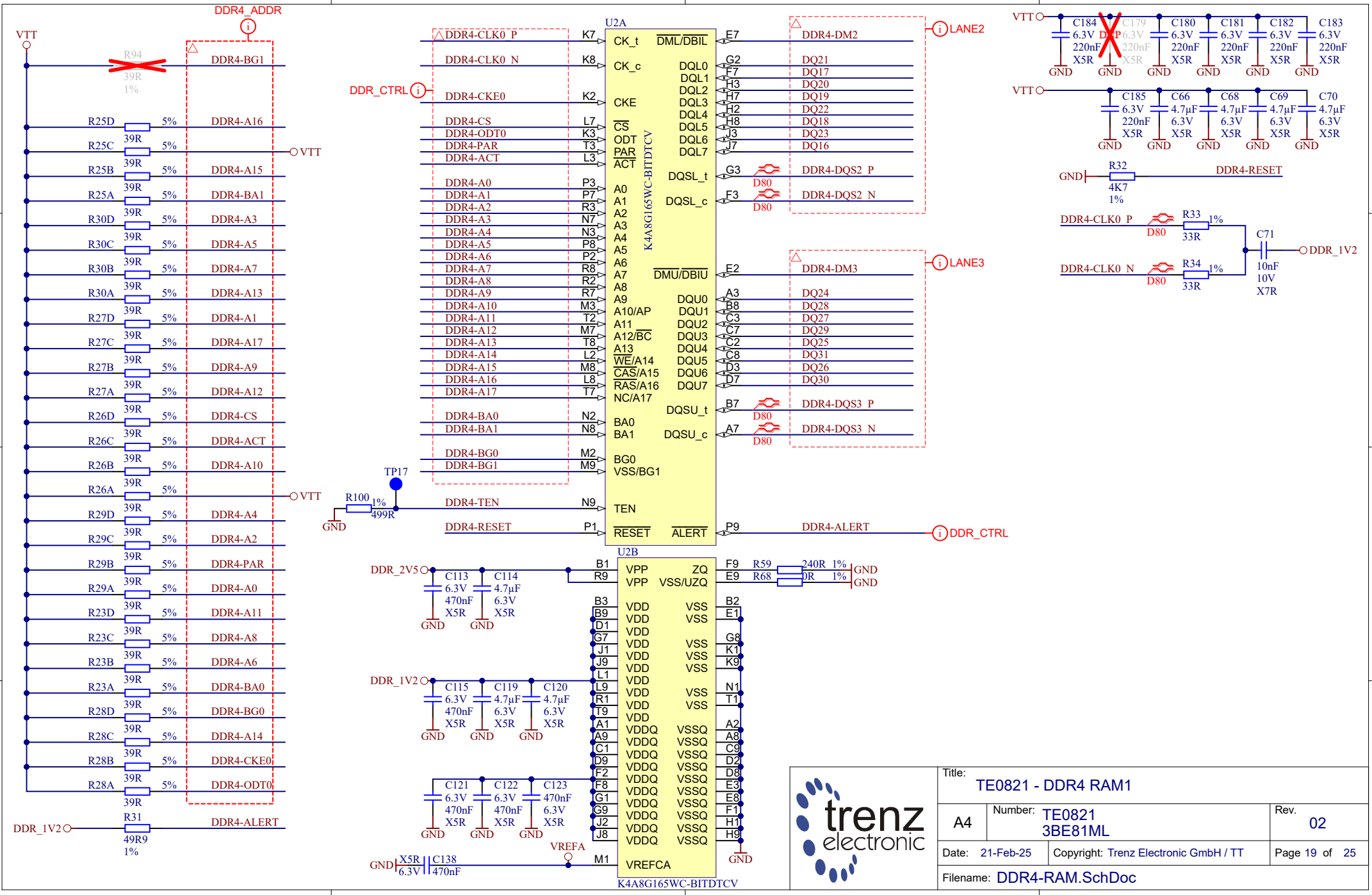
Date: 08-Apr-24	Copyright: Trenz Electronic GmbH / TT	Page 16 of 25
Filename: ZU_POWER.SchDoc		



trenz electronic	Title: TE0821 - ZU PS POWER		
A4	Number: TE0821 3BE81ML		Rev. 02
Date: 16-Apr-24	Copyright: Trenz Electronic GmbH / TT		Page 17 of 25
Filename: ZU_PS_POWER.SchDoc			



trenz electronic	Title: TE0821 - CLK		
A4	Number: TE0821 3BE81ML		Rev. 02
Date: 30-Sep-24	Copyright: 2015 Trenz Electronic GmbH		Page 18 of 25
Filename: CLK.SchDoc			


DDR4_ADDR
VTT
R94 39R 1%
DDR4-BG1
R25D 39R 5% DDR4-A16
R25C 39R 5% VTT
R25B 39R 5% DDR4-A15
R25A 39R 5% DDR4-BA1
R30D 39R 5% DDR4-A3
R30C 39R 5% DDR4-A5
R30B 39R 5% DDR4-A7
R30A 39R 5% DDR4-A13
R27D 39R 5% DDR4-A1
R27C 39R 5% DDR4-A17
R27B 39R 5% DDR4-A9
R27A 39R 5% DDR4-A12
R26D 39R 5% DDR4-CS
R26C 39R 5% DDR4-ACT
R26B 39R 5% DDR4-A10
R26A 39R 5% VTT
R29D 39R 5% DDR4-A4
R29C 39R 5% DDR4-A2
R29B 39R 5% DDR4-PAR
R29A 39R 5% DDR4-A0
R23D 39R 5% DDR4-A11
R23C 39R 5% DDR4-A8
R23B 39R 5% DDR4-A6
R23A 39R 5% DDR4-BA0
R28D 39R 5% DDR4-BG0
R28C 39R 5% DDR4-A14
R28B 39R 5% DDR4-CKE0
R28A 39R 5% DDR4-ODT0
DDR_1V2 R31 49R9 1% DDR4-ALERT
U2A
DDR4-CLK0_P K7 CK_t
DDR4-CLK0_N K8 CK_c
DDR_CTRL DDR4-CKE0 K2 CKE
DDR4-CS L7 CS
DDR4-ODT0 K3 ODT
DDR4-PAR T3 PAR
DDR4-ACT L3 ACT
DDR4-A0 P3 A0
DDR4-A1 P7 A1
DDR4-A2 R3 A2
DDR4-A3 N7 A3
DDR4-A4 N3 A4
DDR4-A5 P8 A5
DDR4-A6 P2 A6
DDR4-A7 R8 A7
DDR4-A8 R2 A8
DDR4-A9 R7 A9
DDR4-A10 M3 A10/AP
DDR4-A11 T2 A11
DDR4-A12 M7 A12/BC
DDR4-A13 T8 A13
DDR4-A14 L2 WE/A14
DDR4-A15 M8 CAS/A15
DDR4-A16 L8 RAS/A16
DDR4-A17 T7 NC/A17
DDR4-BA0 N2 BA0
DDR4-BA1 N8 BA1
DDR4-BG0 M2 BG0
DDR4-BG1 M9 VSS/BG1
TP17
R100 1% 499R GND
DDR4-TEN N9 TEN
DDR4-RESET P1 RESET
K4A8G165WC-BITDTCV
DML/DBIL E7 DDR4-DM2
DQL0 G2 DQ21
DQL1 F7 DQ17
DQL2 H3 DQ20
DQL3 H7 DQ19
DQL4 H2 DQ22
DQL5 H8 DQ18
DQL6 J3 DQ23
DQL7 J7 DQ16
DQSL_t G3 D80 DDR4-DQS2_P
DQSL_c F3 D80 DDR4-DQS2_N
LANE2
DMU/DBIU E2 DDR4-DM3
DQU0 A3 DQ24
DQU1 B8 DQ28
DQU2 C3 DQ27
DQU3 C7 DQ29
DQU4 C2 DQ25
DQU5 C8 DQ31
DQU6 D3 DQ26
DQU7 D7 DQ30
DQSU_t B7 D80 DDR4-DQS3_P
DQSU_c A7 D80 DDR4-DQS3_N
LANE3
ALERT P9 DDR4-ALERT
DDR_CTRL
U2B
DDR_2V5 B1 R9 VPP
C113 6.3V 470nF X5R GND
C114 4.7µF 6.3V X5R GND
ZQ F9 R59 240R 1%
VSS/UZQ E9 R68 0R 1%
GND GND
VDD B3 B9 D1 G7 J1 J9 L1
VSS B2 E1 G8 K1 K9 N1 T1
VDDQ A1 A9 C1 D9 F2 F8 G1 G9 J2 J8
VSSQ A2 A8 C9 D2 D8 E3 E8 F1 H1 H9
GND
DDR_1V2
C115 6.3V 470nF X5R GND
C119 4.7µF 6.3V X5R GND
C120 4.7µF 6.3V X5R GND
C121 6.3V 470nF X5R GND
C122 6.3V 470nF X5R GND
C123 470nF 6.3V X5R GND
VREFA M1 VREFCA
GND X5R 6.3V C138 470nF
K4A8G165WC-BITDTCV
VTT
C184 6.3V 220nF X5R GND
C179 6.3V 220nF X5R GND
C180 6.3V 220nF X5R GND
C181 6.3V 220nF X5R GND
C182 6.3V 220nF X5R GND
C183 6.3V 220nF X5R GND
C185 6.3V 220nF X5R GND
C66 4.7µF 6.3V X5R GND
C68 4.7µF 6.3V X5R GND
C69 4.7µF 6.3V X5R GND
C70 4.7µF 6.3V X5R GND
R32 4K7 1% DDR4-RESET
DDR4-CLK0_P D80 R33 33R 1%
DDR4-CLK0_N D80 R34 33R 1%
C71 10nF 10V X7R DDR_1V2
trenz electronic
Title: TE0821 - DDR4 RAM1
A4
Number: TE0821 3BE81ML
Rev. 02
Date: 21-Feb-25
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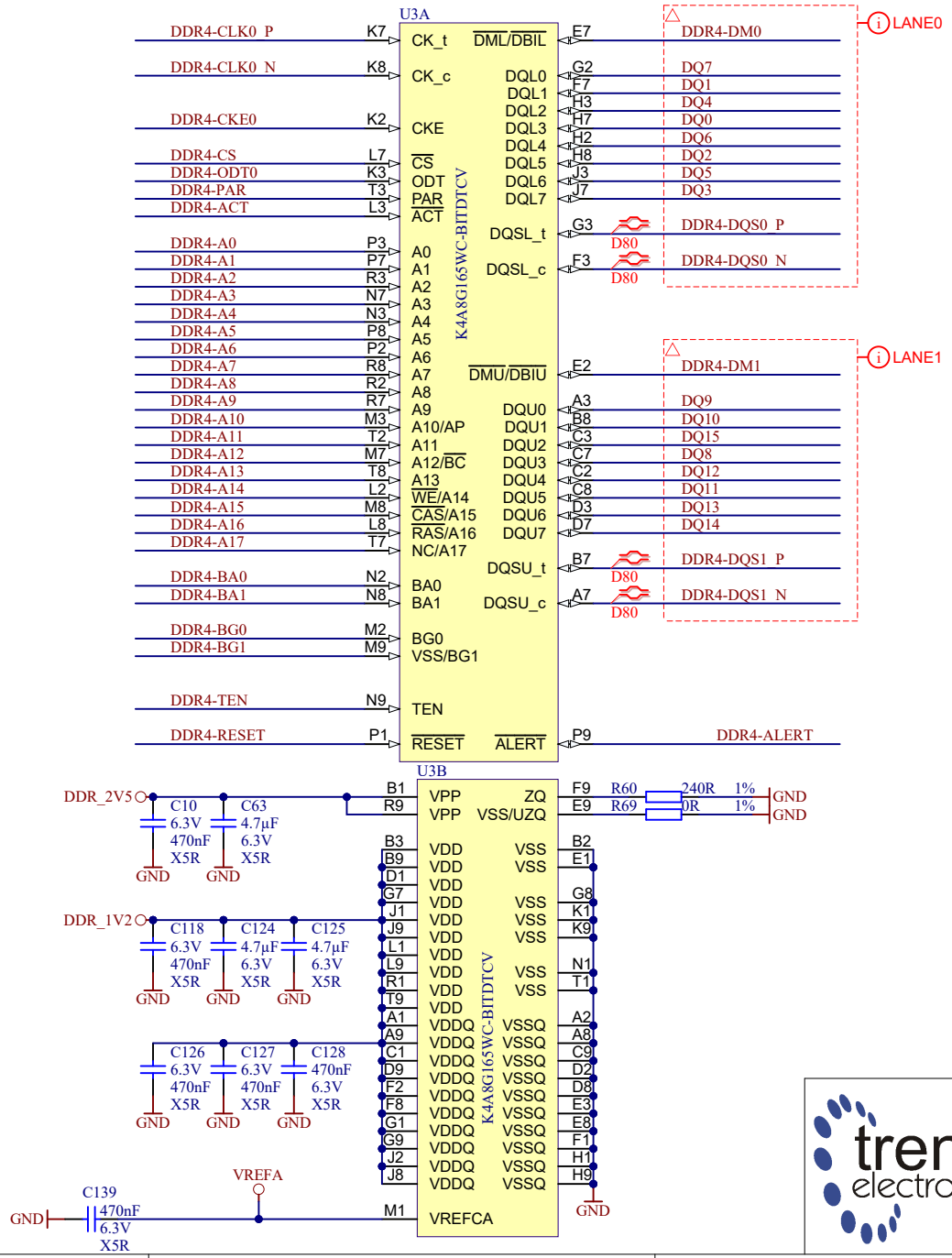
Filename: DDR4-RAM.SchDoc



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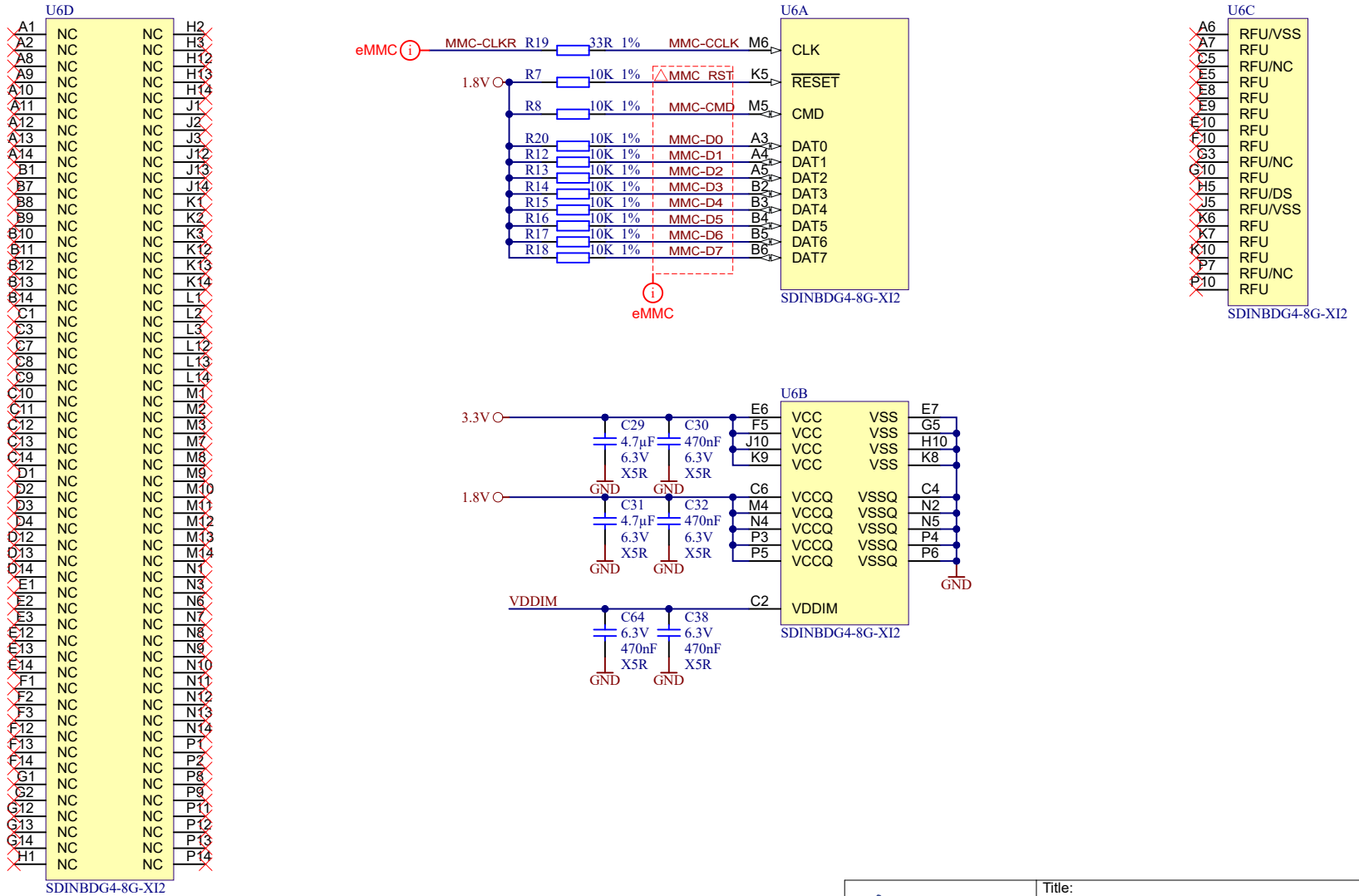
Title: TE0821 - DDR4 RAM2			
A4	Number: TE0821 3BE81ML		Rev. 02
Date: 29-May-24	Copyright: Trenz Electronic GmbH / TT		Page 20 of 25
Filename: DDR4-RAM_2.SchDoc			



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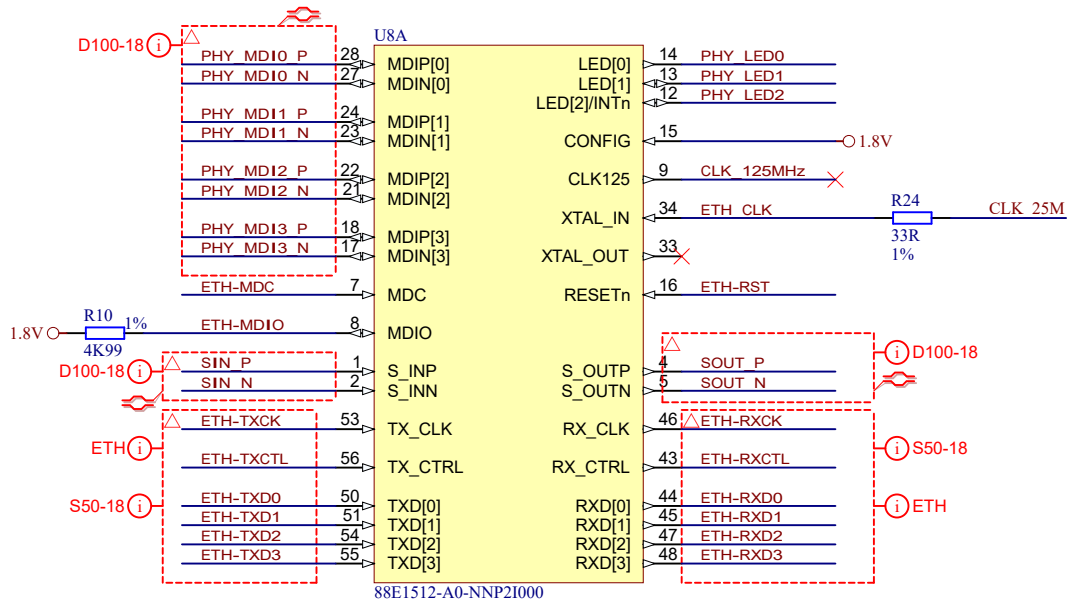
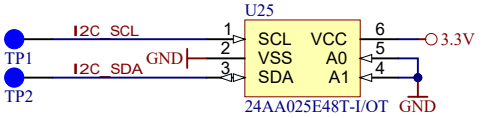
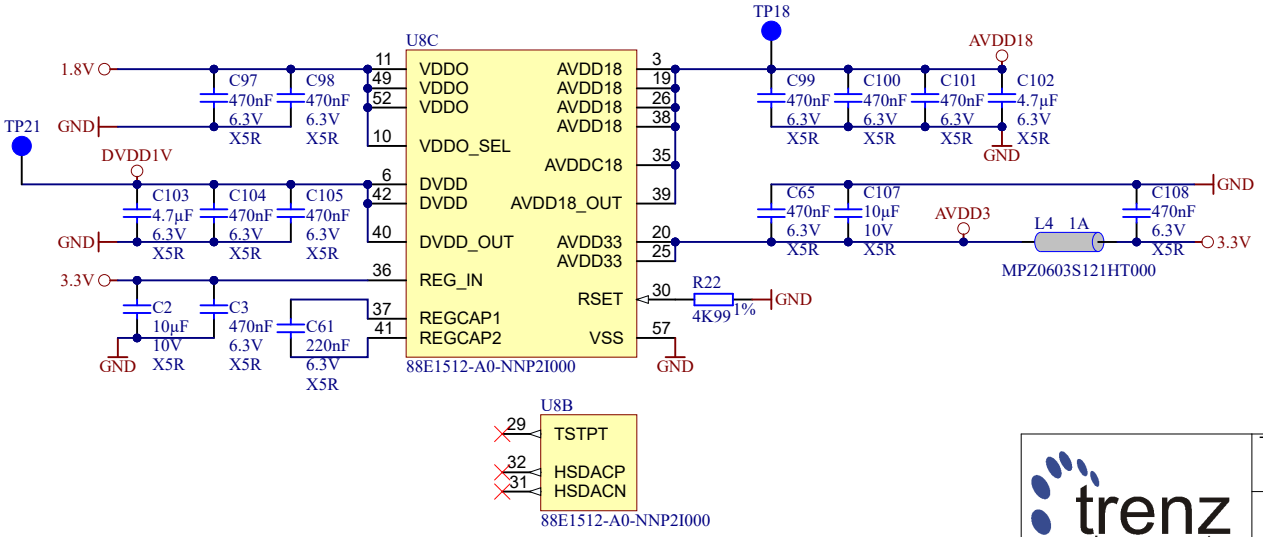
Title: TE0821 - eMMC		
A4	Number: TE0821 3BE81ML	Rev. 02
Date: 15-Apr-24	Copyright: Trenz Electronic GmbH / TT	Page 21 of 25
Filename: eMMC.SchDoc		



I2C ADDR 0x50

EEPROM for MAC





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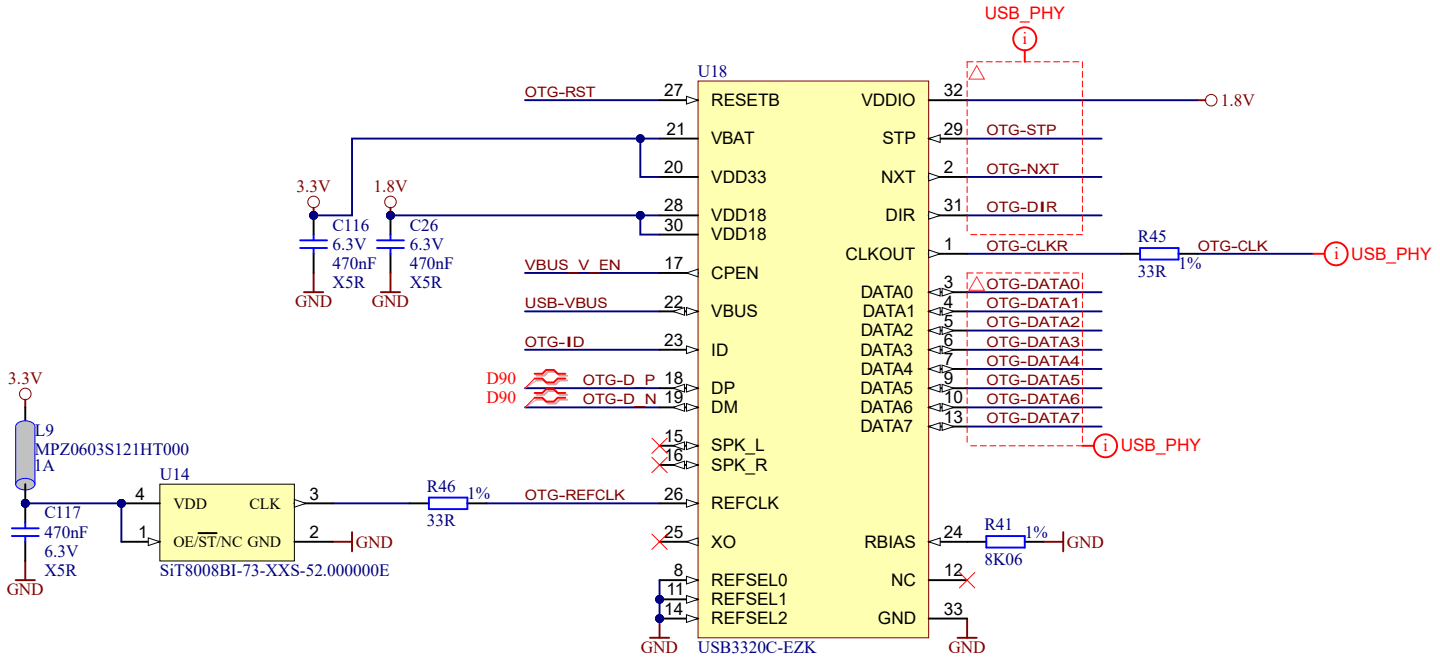
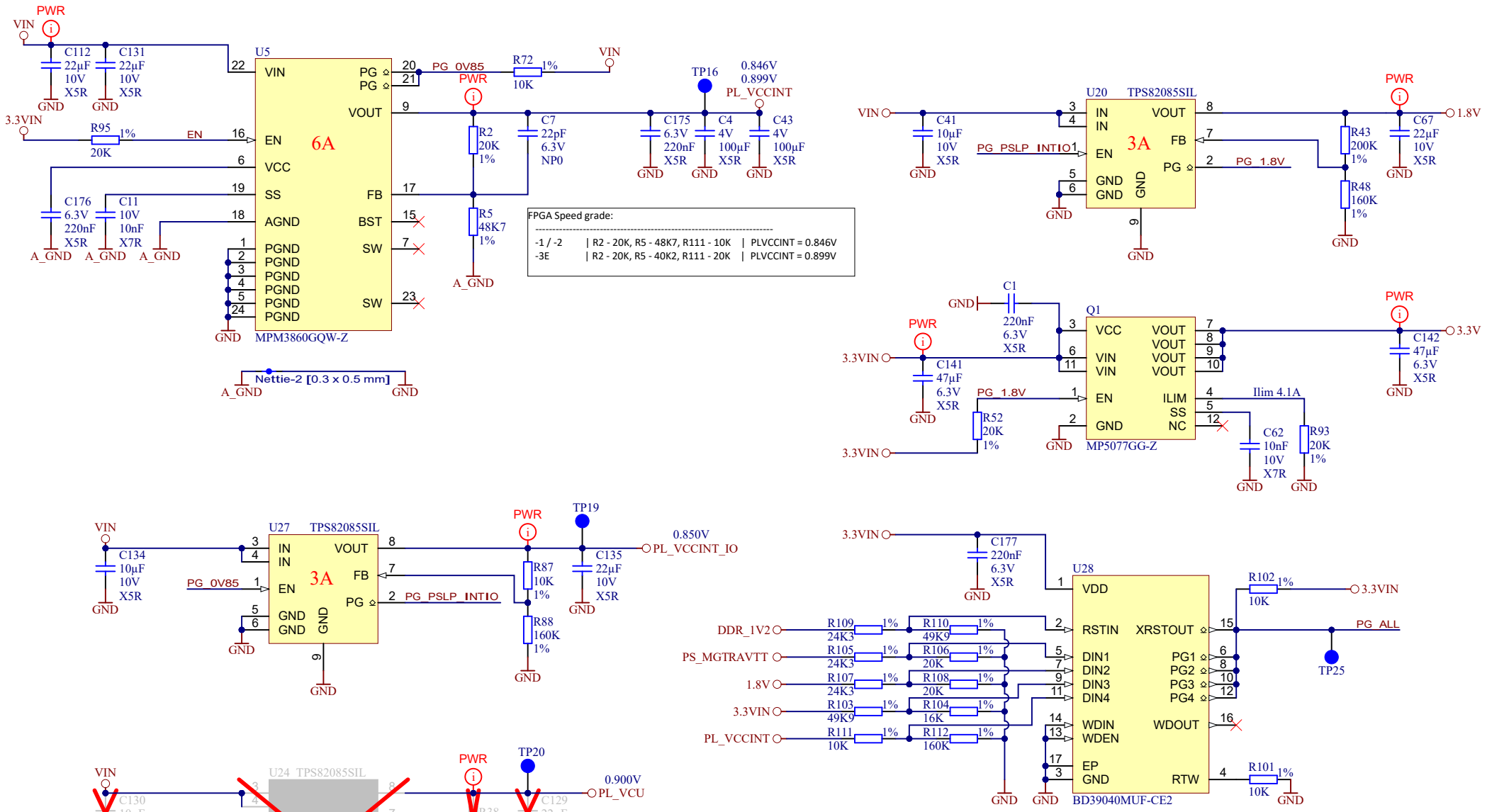
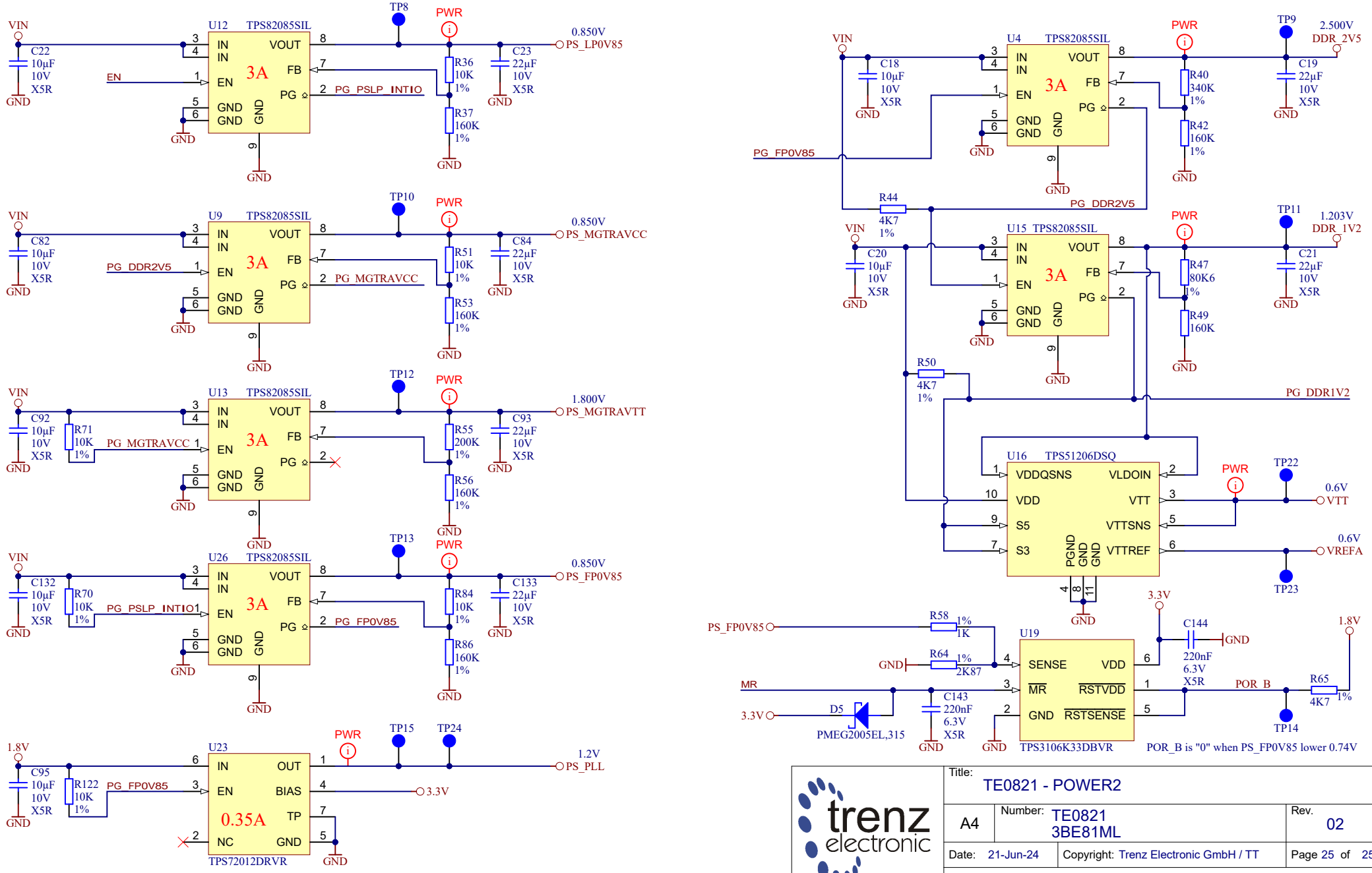
Title: TE0821 - Ethernet PHY			
A4	Number: TE0821 3BE81ML		Rev. 02
Date: 28-May-24	Copyright: 2015 Trenz Electronic GmbH		Page 22 of 25
Filename: ETH-PHY.SchDoc			



trenz electronic	Title: TE0821 - USB PHY		
	A4	Number: TE0821 3BE81ML	Rev. 02
	Date: 16-May-24	Copyright: 2015 Trenz Electronic GmbH	Page 23 of 25
	Filename: USB-PHY.SchDoc		



Title: TE0821 - POWER			
A4	Number: TE0821 3BE81ML		Rev. 02
Date: 28-May-24	Copyright: Trenz Electronic GmbH / TT		Page 24 of 25
Filename: POWER.SchDoc			



Title: TE0821 - POWER2		
A4	Number: TE0821 3BE81ML	Rev. 02
Date: 21-Jun-24	Copyright: Trenz Electronic GmbH / TT	Page 25 of 25
Filename: POWER_1.SchDoc		