U_DDR3-RAM
DDR3-RAM.SchDoc

U_SOC
SOC.SchDoc

U_CPLD
CPLD.SchDoc

U_POWER2
POWER2.SchDoc

U_Clock
Clock.SchDoc

U_eMMC
eMMC.SchDoc

U_Connectors
Connectors.SchDoc

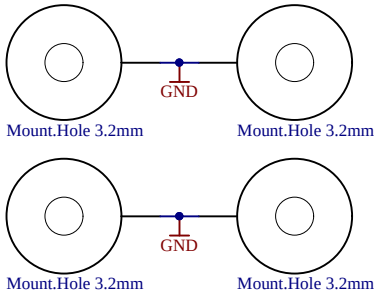
U_POWER
POWER.SchDoc

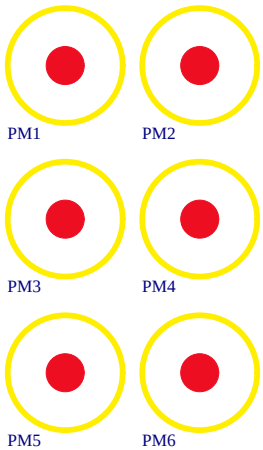
U_POWER3
POWER3.SchDoc

U_USB-PHY
USB-PHY.SchDoc

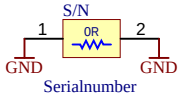
U_ETH1
ETH1.SchDoc

LOGO1
TE Logo PRINT Layer
LOGO PRINT





Serial
Serial
Serialnumber 6,3 x 6.3mm



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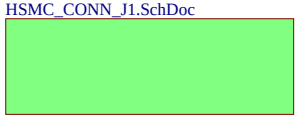
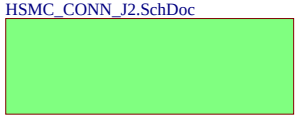
Title: Overview			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page1 of 31
Filename: TE0783.SchDoc			

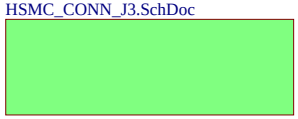
U_HSMC_CONN_J1
HSMC_CONN_J1.SchDoc



U_HSMC_CONN_J2
HSMC_CONN_J2.SchDoc



U_HSMC_CONN_J3
HSMC_CONN_J3.SchDoc



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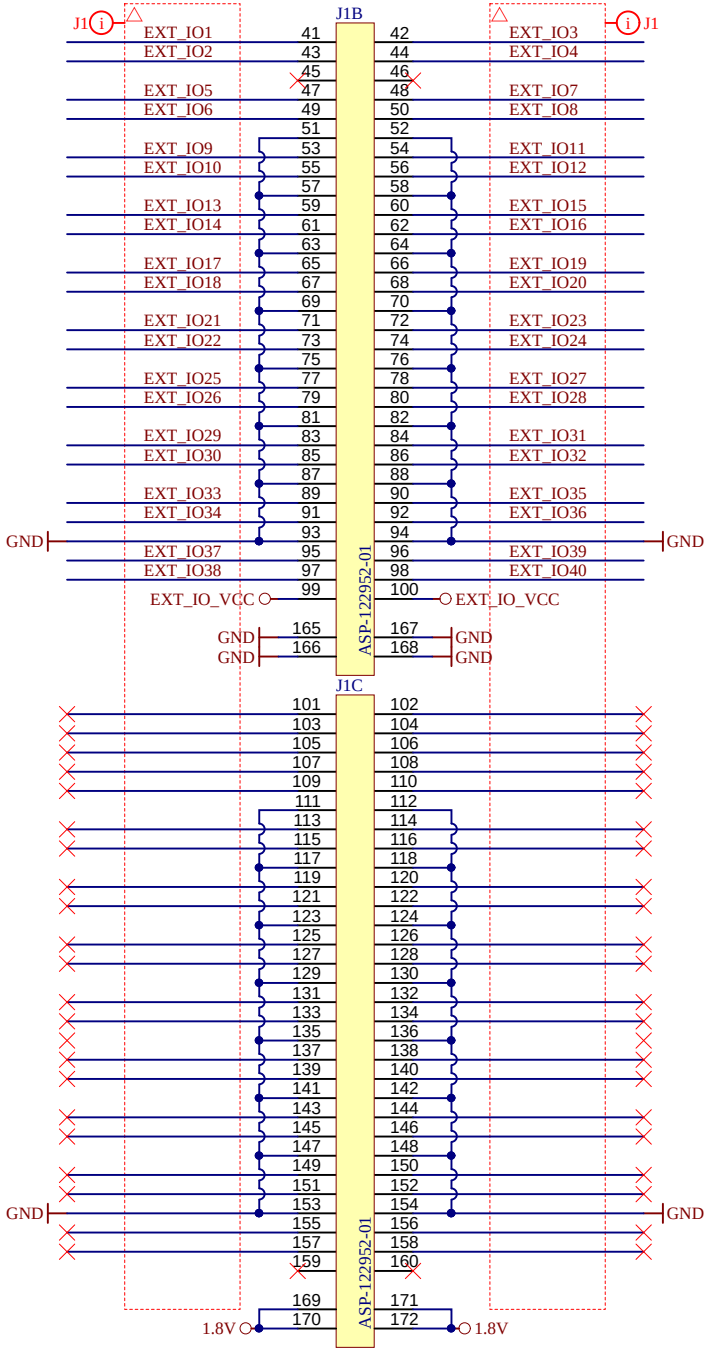
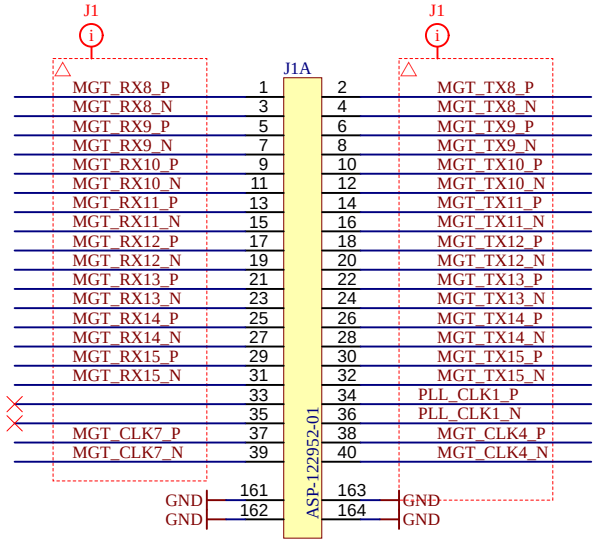
Title: Connectors			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page2 of 31
Filename: Connectors.SchDoc			





Next signals has different functionality in TE0782 and TEBT0782.

TE0782

J1_TX20_N
J1_TX20_P
J1_TX21_N
J1_TX21_P

Next signals has different functionality in TE0782 and TEBT0782.

TE0782

J1_RX20_N
J1_RX20_P

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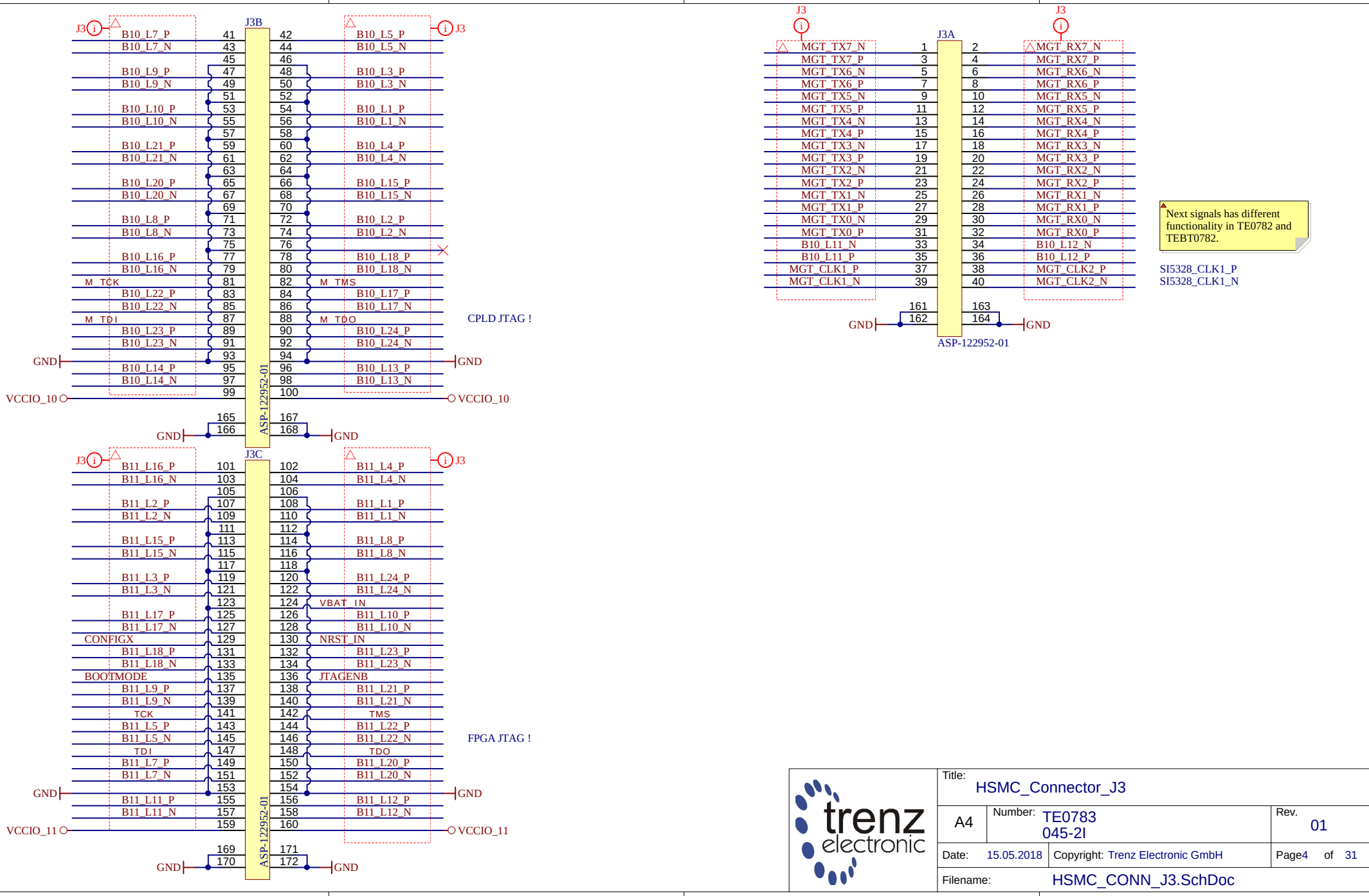
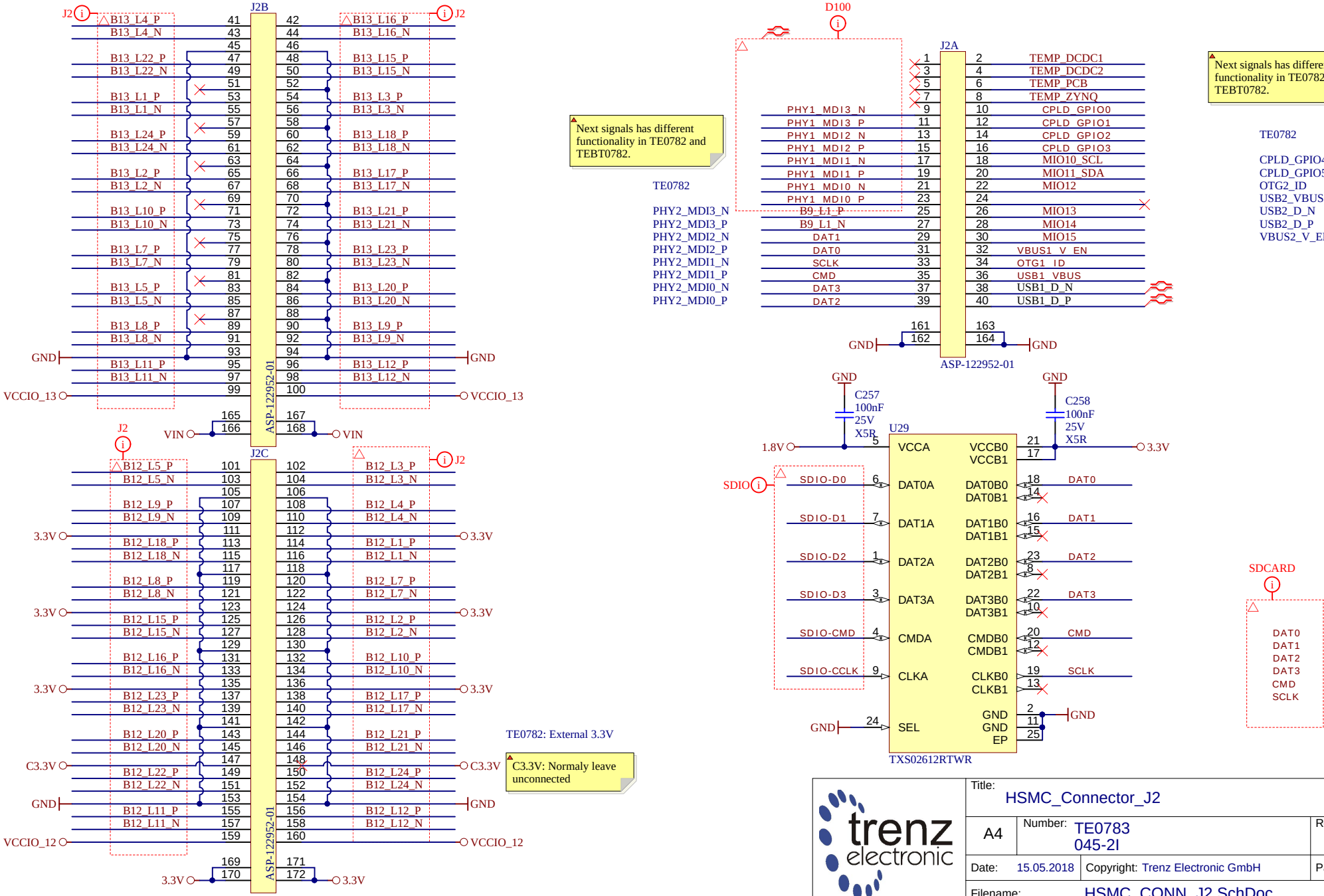
Title: HSMC_Connector_J1			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page3 of 31
Filename: HSMC_CONN_J1.SchDoc			



Title: HSMC_Connector_J3			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page4 of 31
Filename: HSMC_CONN_J3.SchDoc			


J2B
J2C
J2A
ASP-122952-01
D100
U29
TXS02612RTWR
C257 100nF 25V X5R
C258 100nF 25V X5R
Next signals has different functionality in TE0782 and TEBT0782.
TE0782
PHY2_MDI3_N
PHY2_MDI3_P
PHY2_MDI2_N
PHY2_MDI2_P
PHY2_MDI1_N
PHY2_MDI1_P
PHY2_MDI0_N
PHY2_MDI0_P
PHY1_MDI3_N
PHY1_MDI3_P
PHY1_MDI2_N
PHY1_MDI2_P
PHY1_MDI1_N
PHY1_MDI1_P
PHY1_MDI0_N
PHY1_MDI0_P
TEMP_DCDC1
TEMP_DCDC2
TEMP_PCB
TEMP_ZYNQ
CPLD_GPIO0
CPLD_GPIO1
CPLD_GPIO2
CPLD_GPIO3
MIO10_SCL
MIO11_SDA
MIO12
MIO13
MIO14
MIO15
VBUS1_V_EN
OTG1_ID
USB1_VBUS
USB1_D_N
USB1_D_P
CPLD_GPIO4
CPLD_GPIO5
OTG2_ID
USB2_VBUS
USB2_D_N
USB2_D_P
VBUS2_V_EN
SDIO-D0
SDIO-D1
SDIO-D2
SDIO-D3
SDIO-CMD
SDIO-CCLK
SDCARD
TE0782: External 3.3V
C3.3V: Normaly leave unconnected
Title: HSMC_Connector_J2
A4
Number: TE0783 045-2I
Rev. 01
Date: 15.05.2018
Copyright: Trenz Electronic GmbH
Page5 of 31
Filename: HSMC_CONN_J2.SchDoc

U_PS-DDR
PS-DDR.SchDoc

U_MIO-BANKS
MIO-BANKS.SchDoc

U_HP-BANKS
HP-BANKS.SchDoc

U_FPGA-MGT
FPGA-MGT.SchDoc

U_FPGA-CFG
FPGA-CFG.SchDoc

U_FPGA-PWR
FPGA-PWR.SchDoc

U_B9
B9.SchDoc

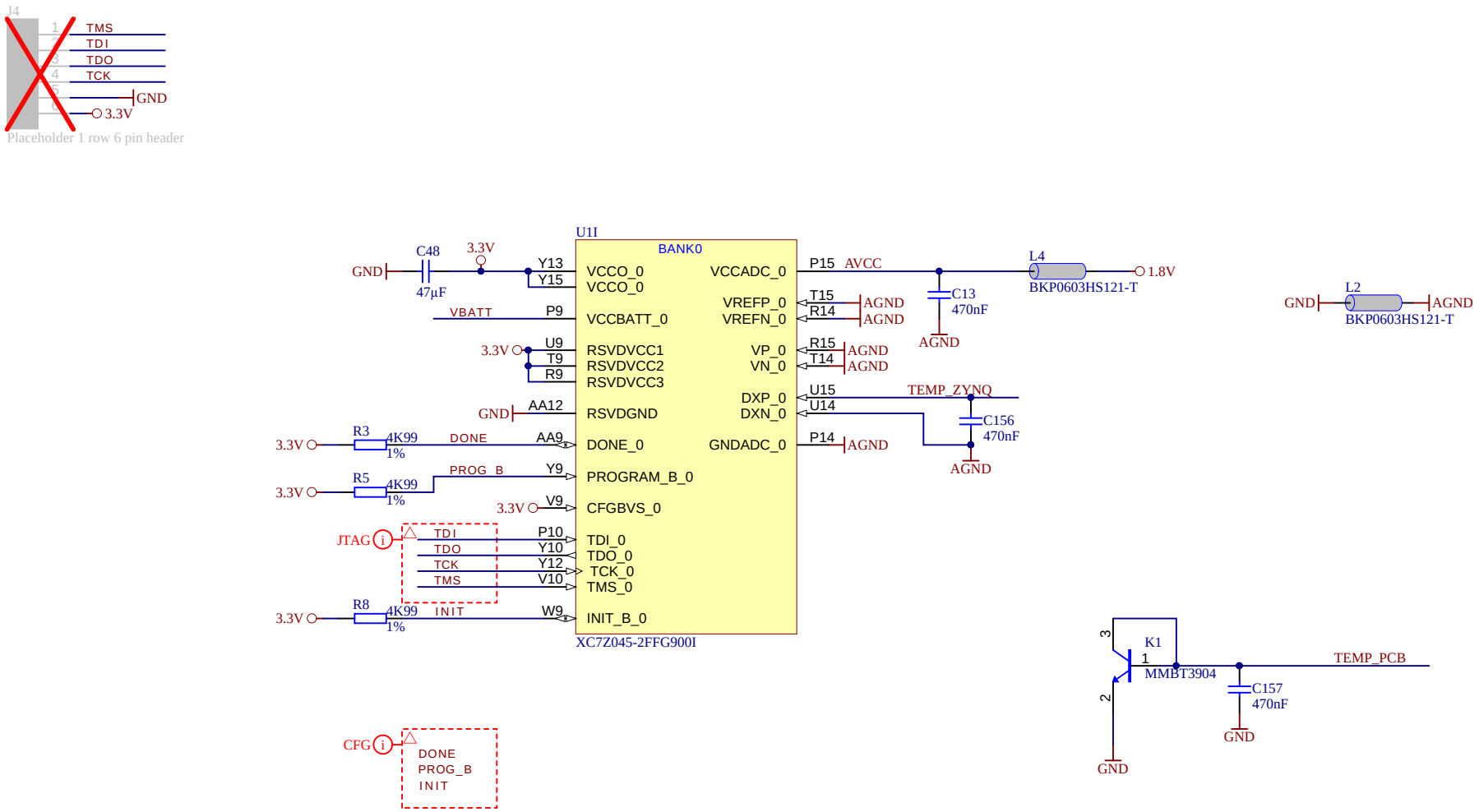
U_B10
B10.SchDoc

U_B11
B11.SchDoc

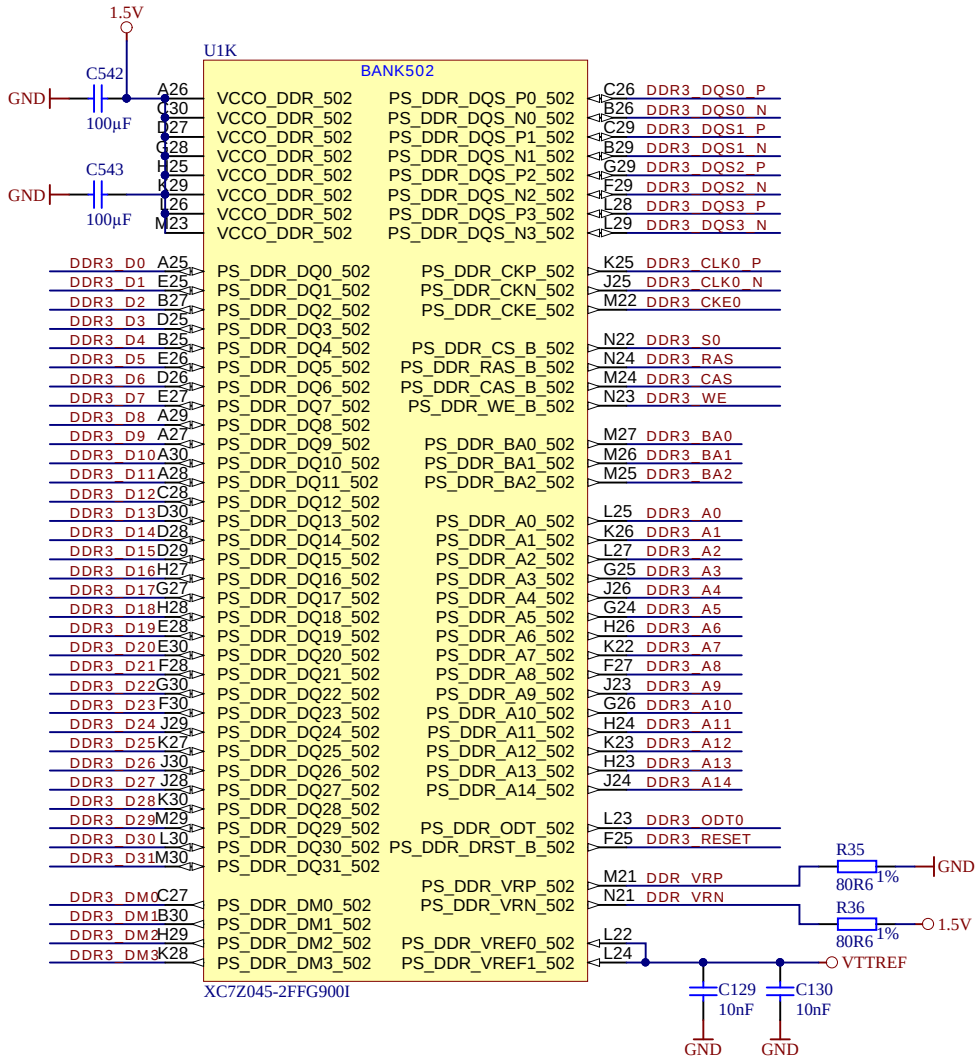
U_B12
B12.SchDoc

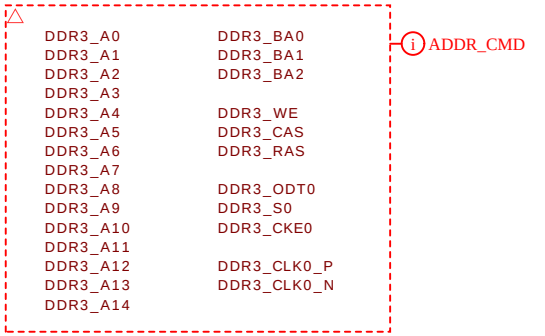
U_B13
B13.SchDoc

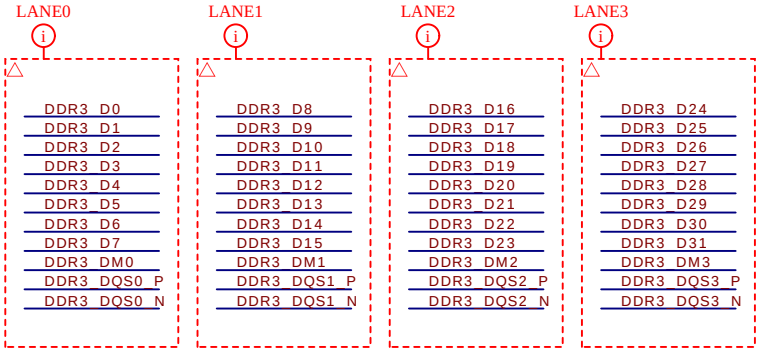
Title: SOC			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page6 of 31
Filename: SOC.SchDoc			



Title: FPGA Configuration			
A4	Nummer: TE0783 045-2I		Rev. 01
Datum: 15.05.2018	Zeichner: Trenz Electronic GmbH		Blatt 7 von 31
Filename: FPGA-CFG.SchDoc			







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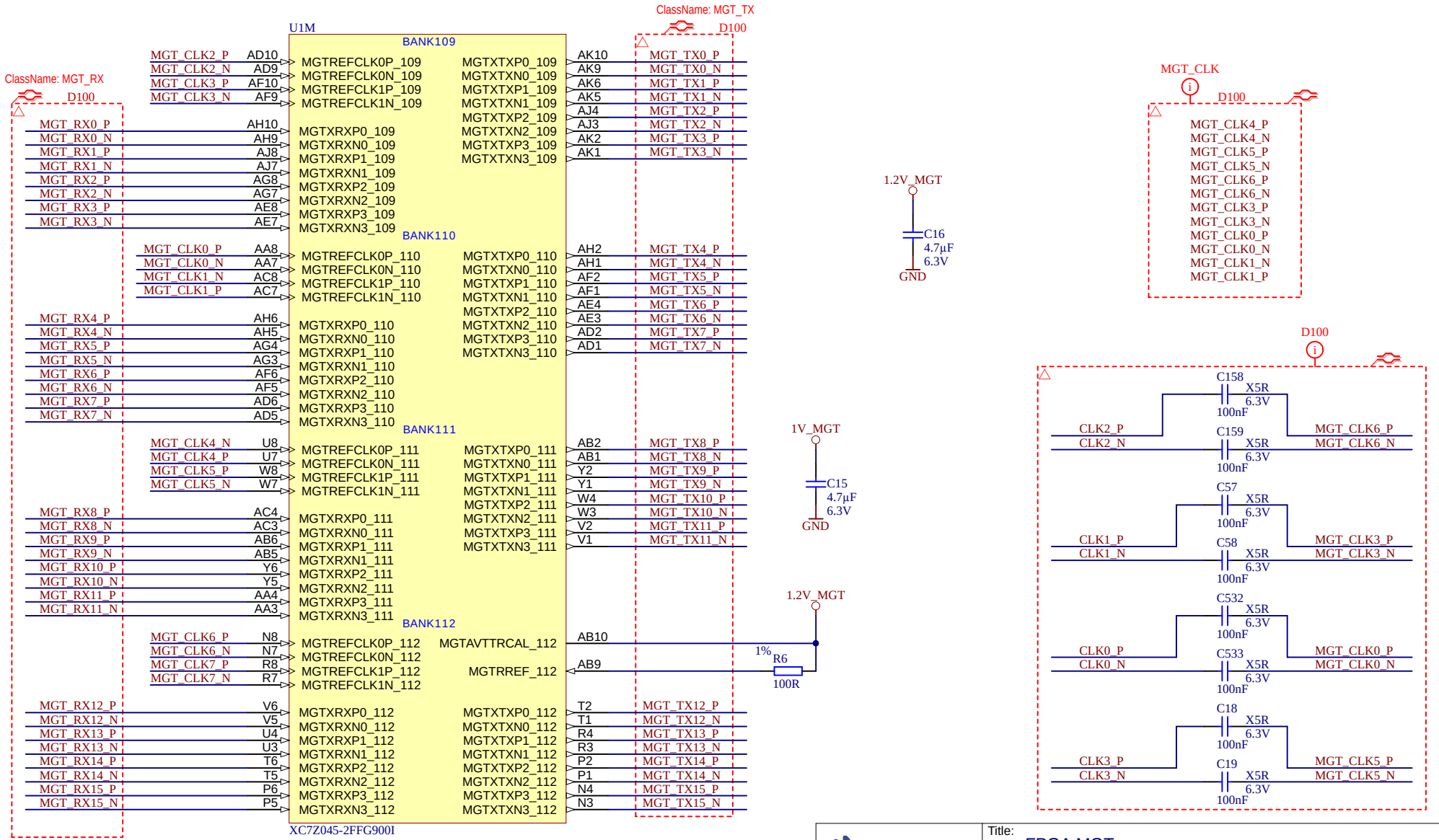
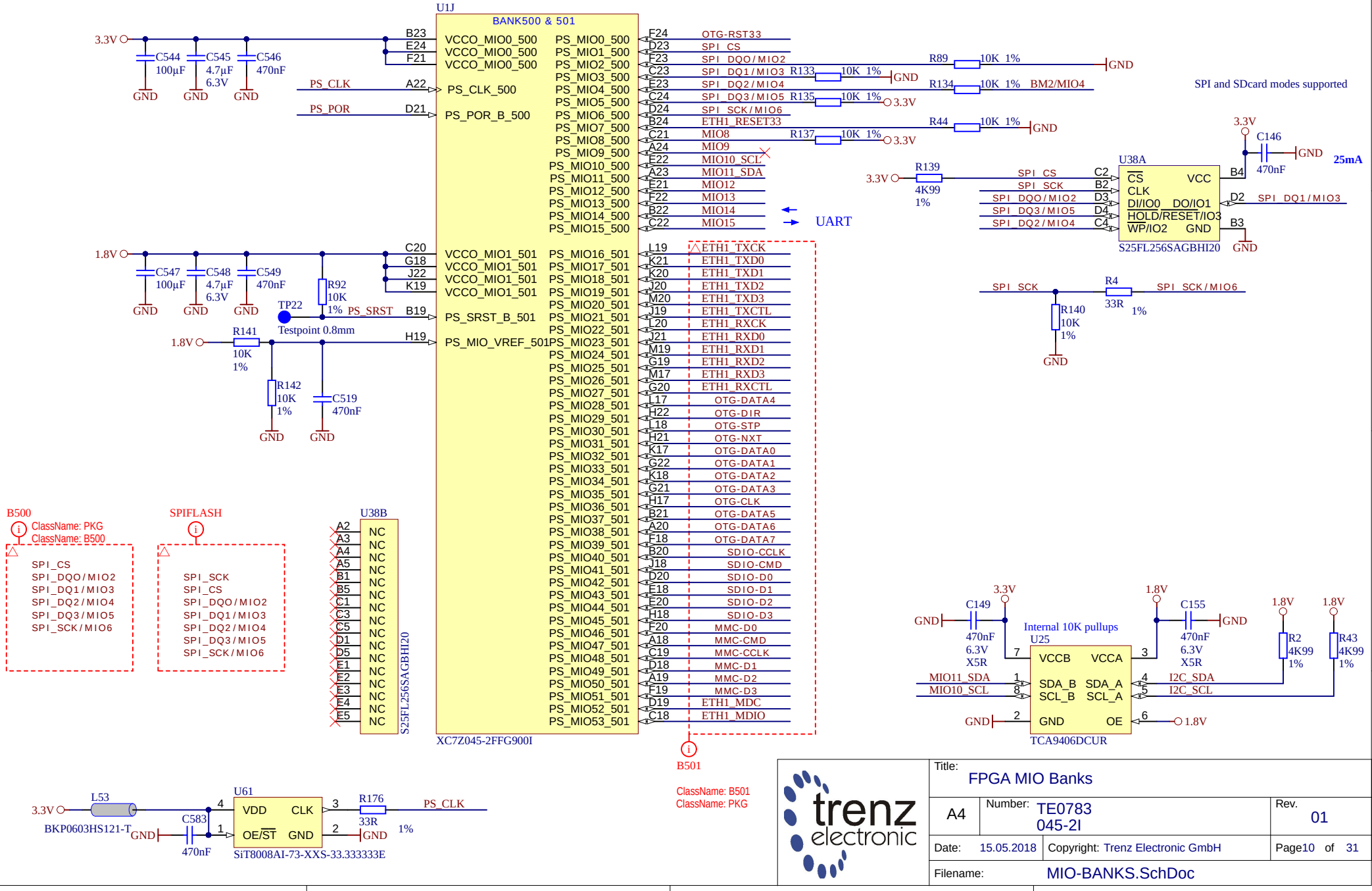
Title: FPGA DDR Banks			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page8 of 31
Filename: PS-DDR.SchDoc			

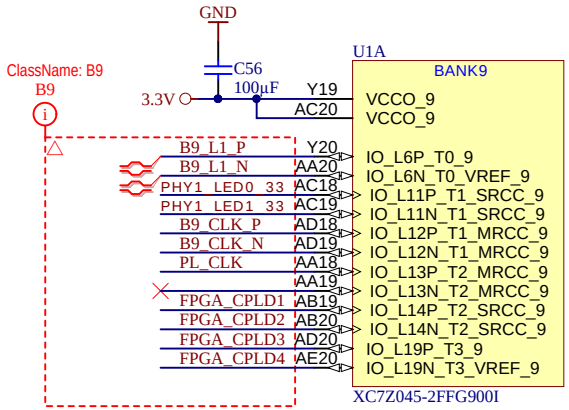


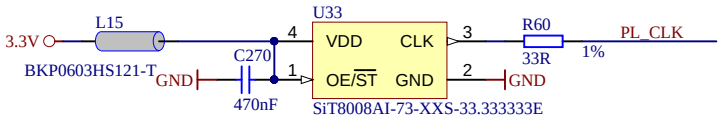
Title: FPGA MGT			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page9 of 31
Filename: FPGA-MGT.SchDoc			



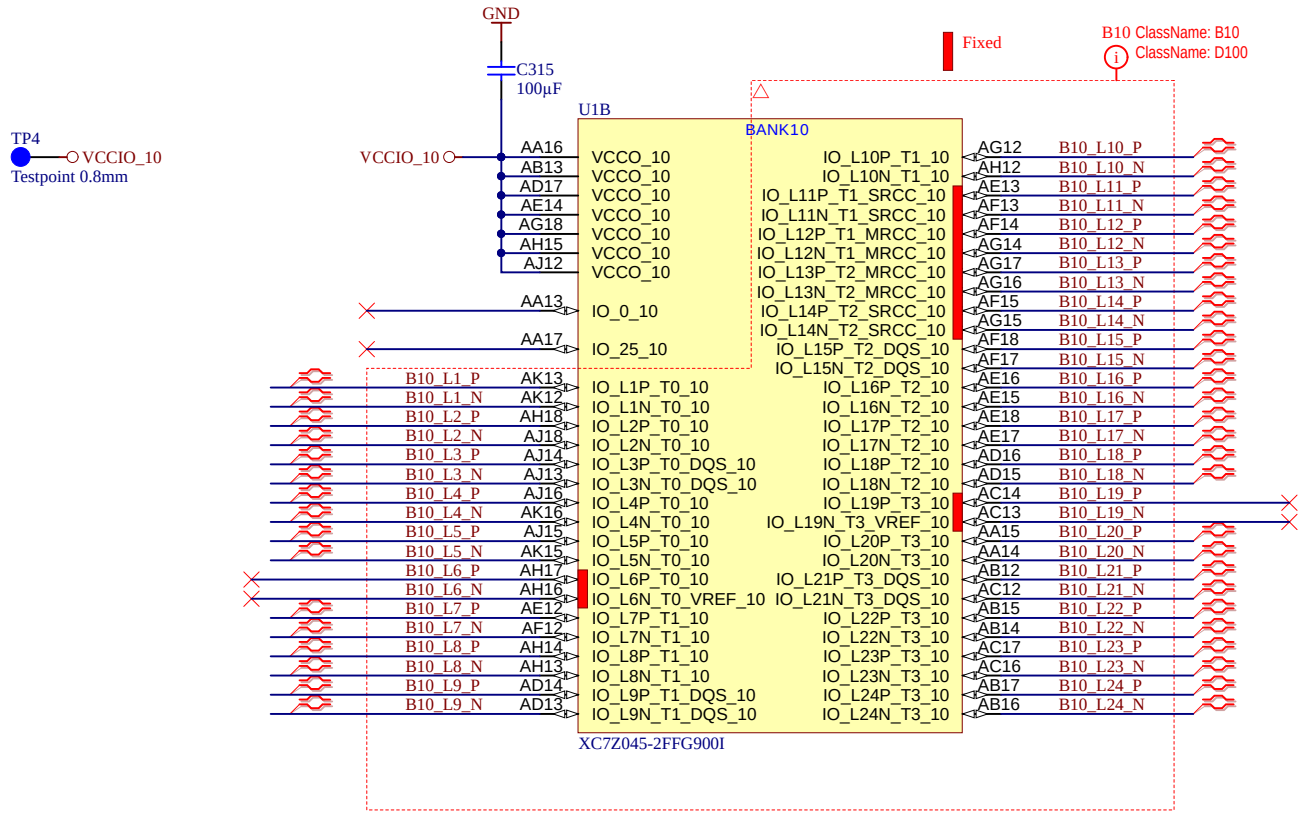
trenz electronic

Title: FPGA MIO Banks			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page10 of 31
Filename: MIO-BANKS.SchDoc			

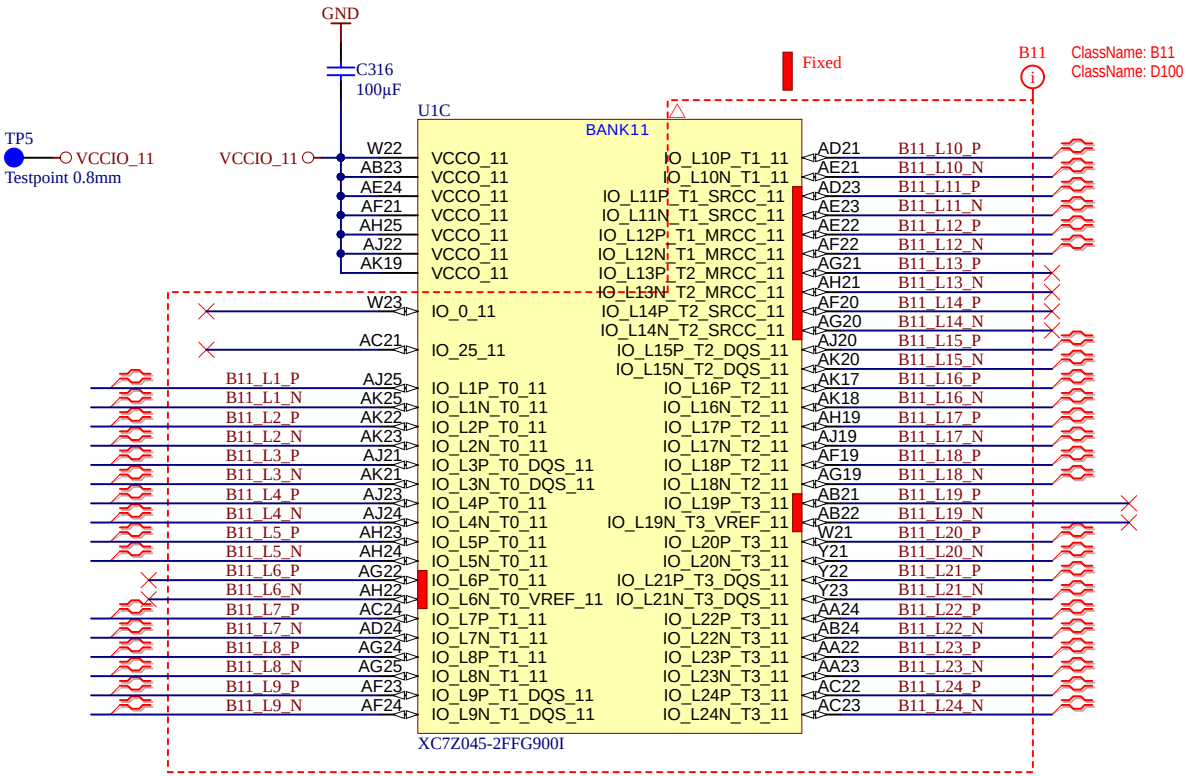




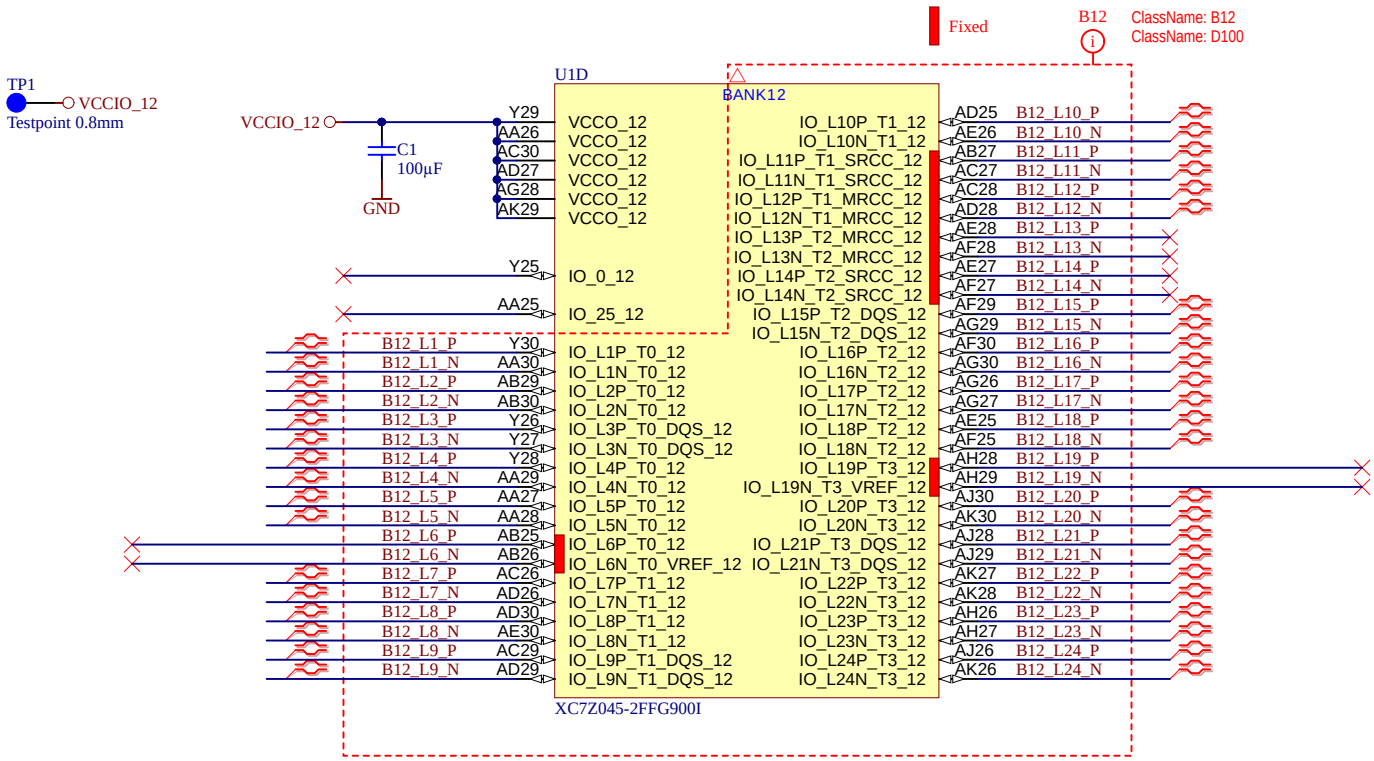
Title: FPGA B9			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page 11 of 31
Filename: B9.SchDoc			



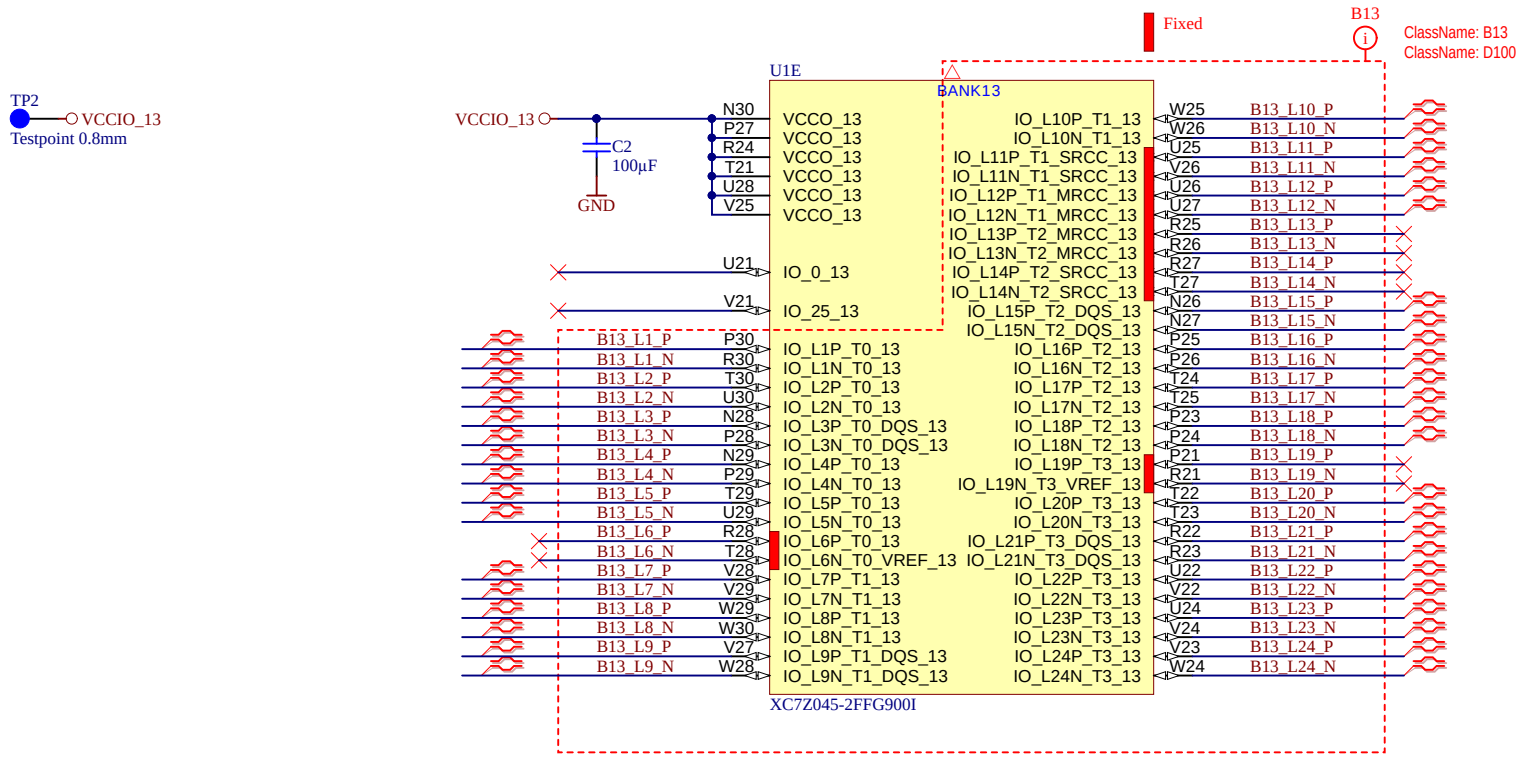
trenz electronic	Title: FPGA B10		
	A4	Number: TE0783 045-2I	Rev. 01
	Date: 15.05.2018	Copyright: Trenz Electronic GmbH	Page12 of 31
	Filename: B10.SchDoc		



Title: FPGA B11			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page13 of 31
Filename: B11.SchDoc			



trenz electronic	Title: FPGA B12		
	A4	Number: TE0783 045-2I	Rev. 01
	Date: 15.05.2018	Copyright: Trenz Electronic GmbH	Page14 of 31
	Filename: B12.SchDoc		



trenz electronic	Title: FPGA B13		
	A4	Number: TE0783 045-2I	Rev. 01
	Date: 15.05.2018	Copyright: Trenz Electronic GmbH	Page15 of 31
	Filename: B13.SchDoc		

U_B33
B33.SchDoc

U_B34
B34.SchDoc

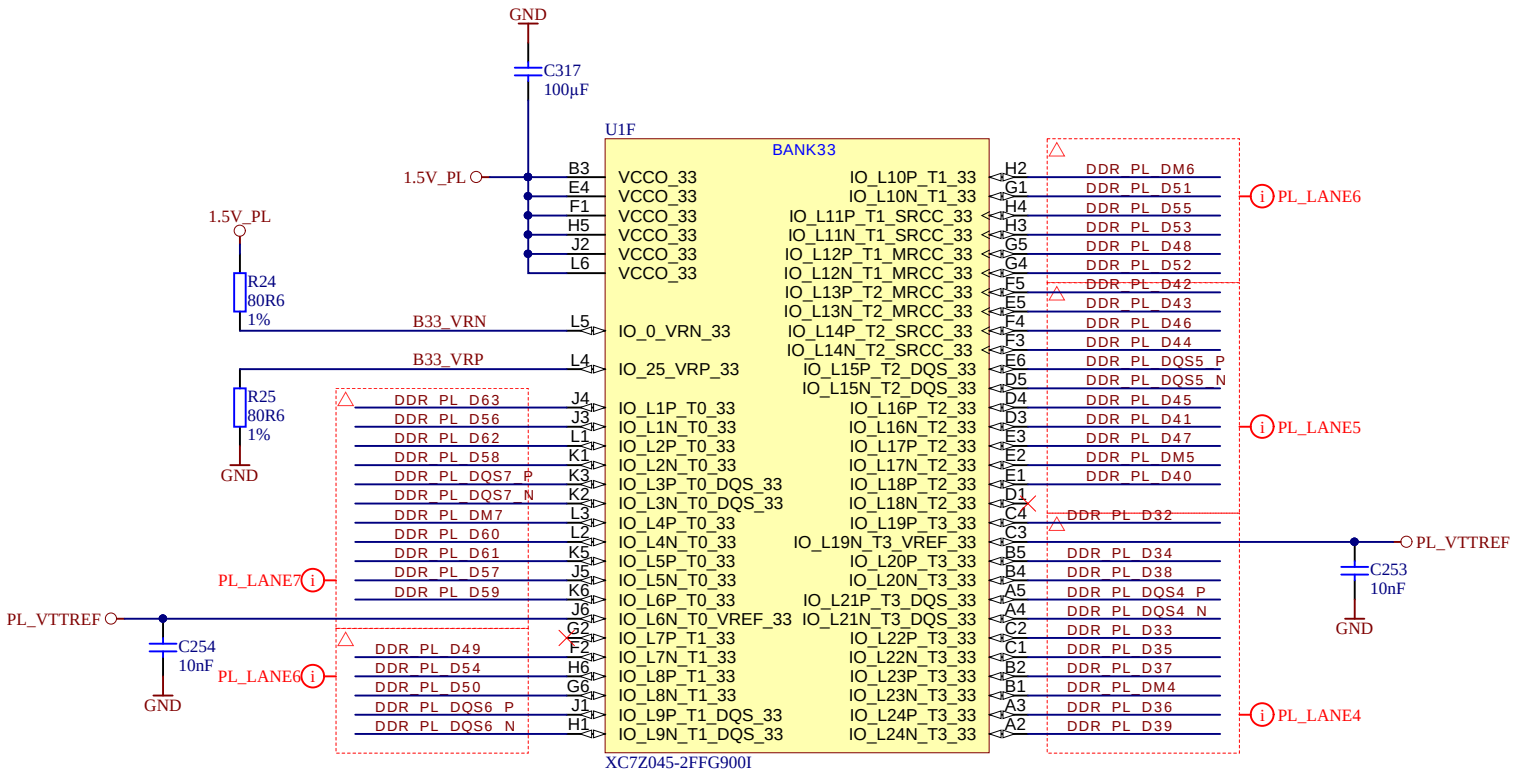
U_B35
B35.SchDoc

U_DDR3-RAM-PL1
DDR3-RAM-PL1.SchDoc

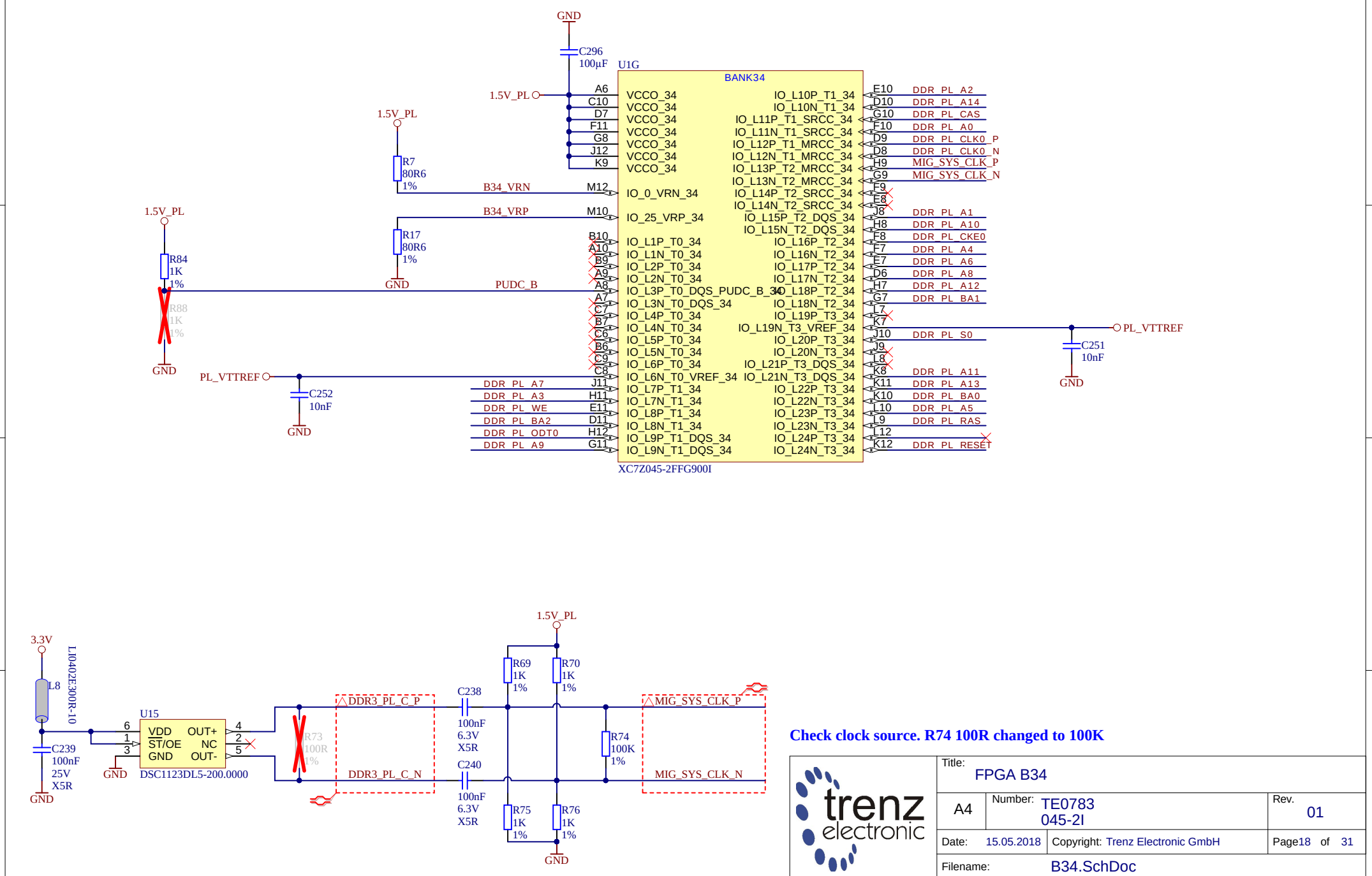
U_DDR3-RAM-PL2
DDR3-RAM-PL2.SchDoc

trenz electronic

Title: FPGA HP Banks		
A4	Number: TE0783 045-2I	Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH	Page16 of 31
Filename: HP-BANKS.SchDoc		

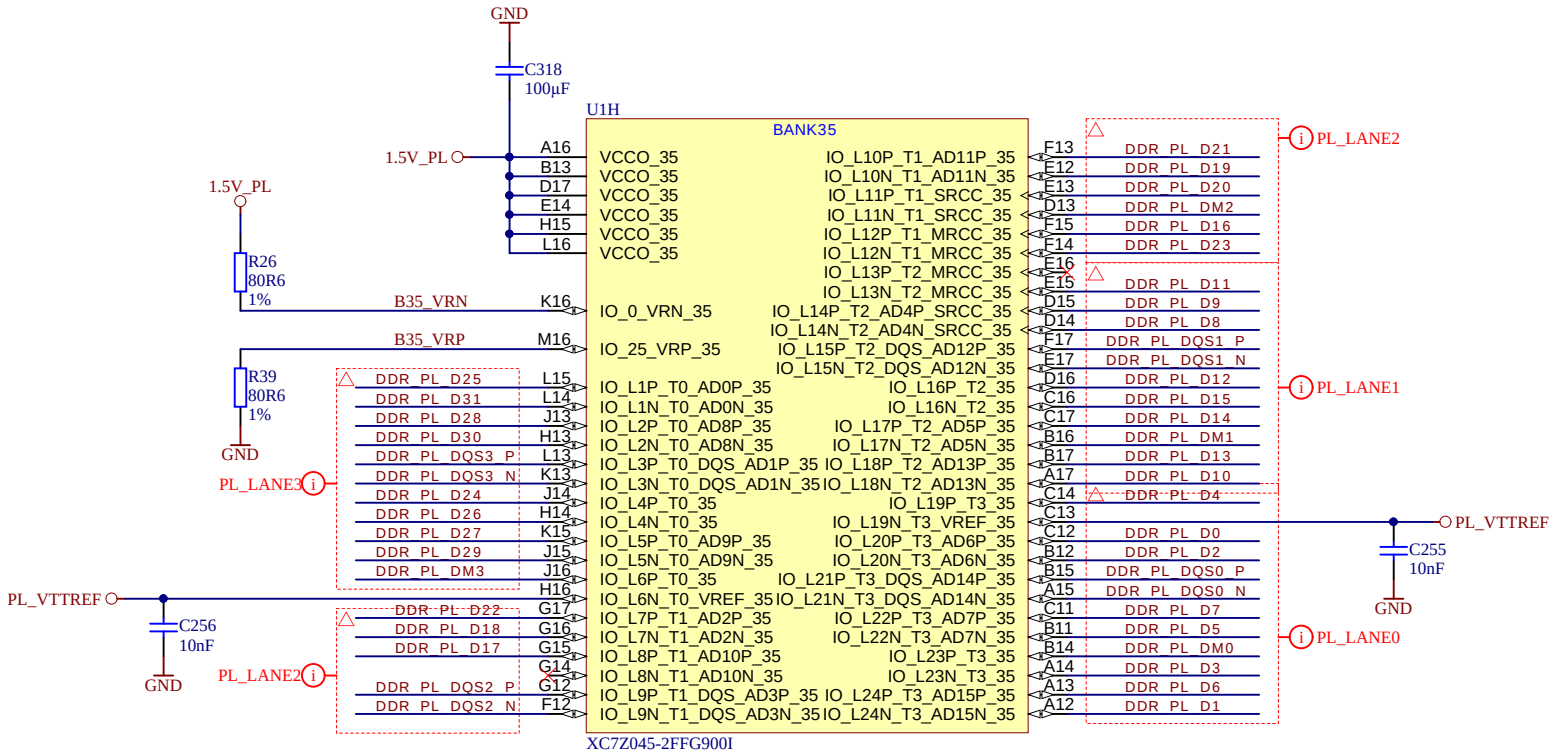


trenz electronic	Title: FPGA B33		
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page17 of 31
Filename: B33.SchDoc			

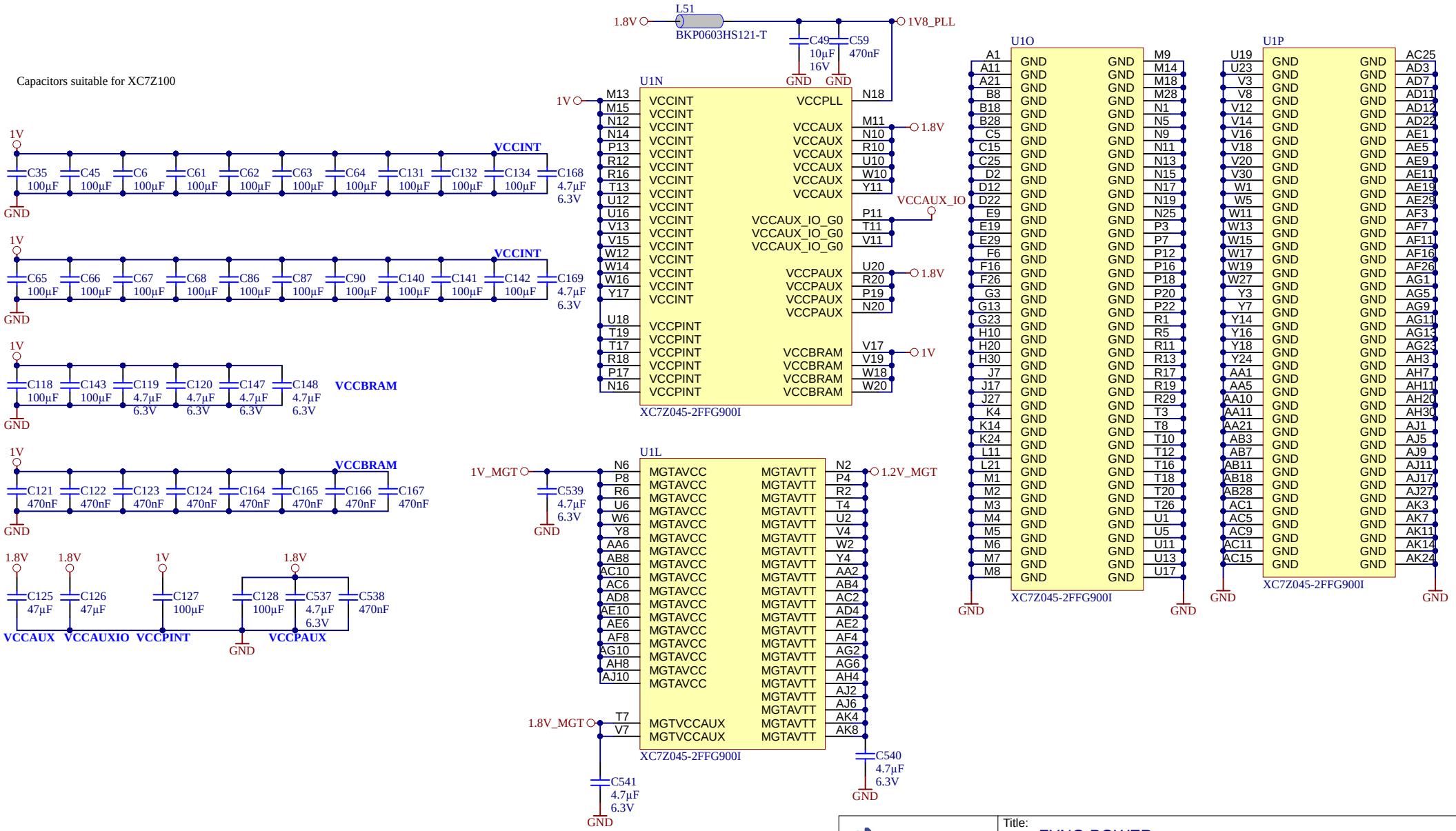


Check clock source. R74 100R changed to 100K

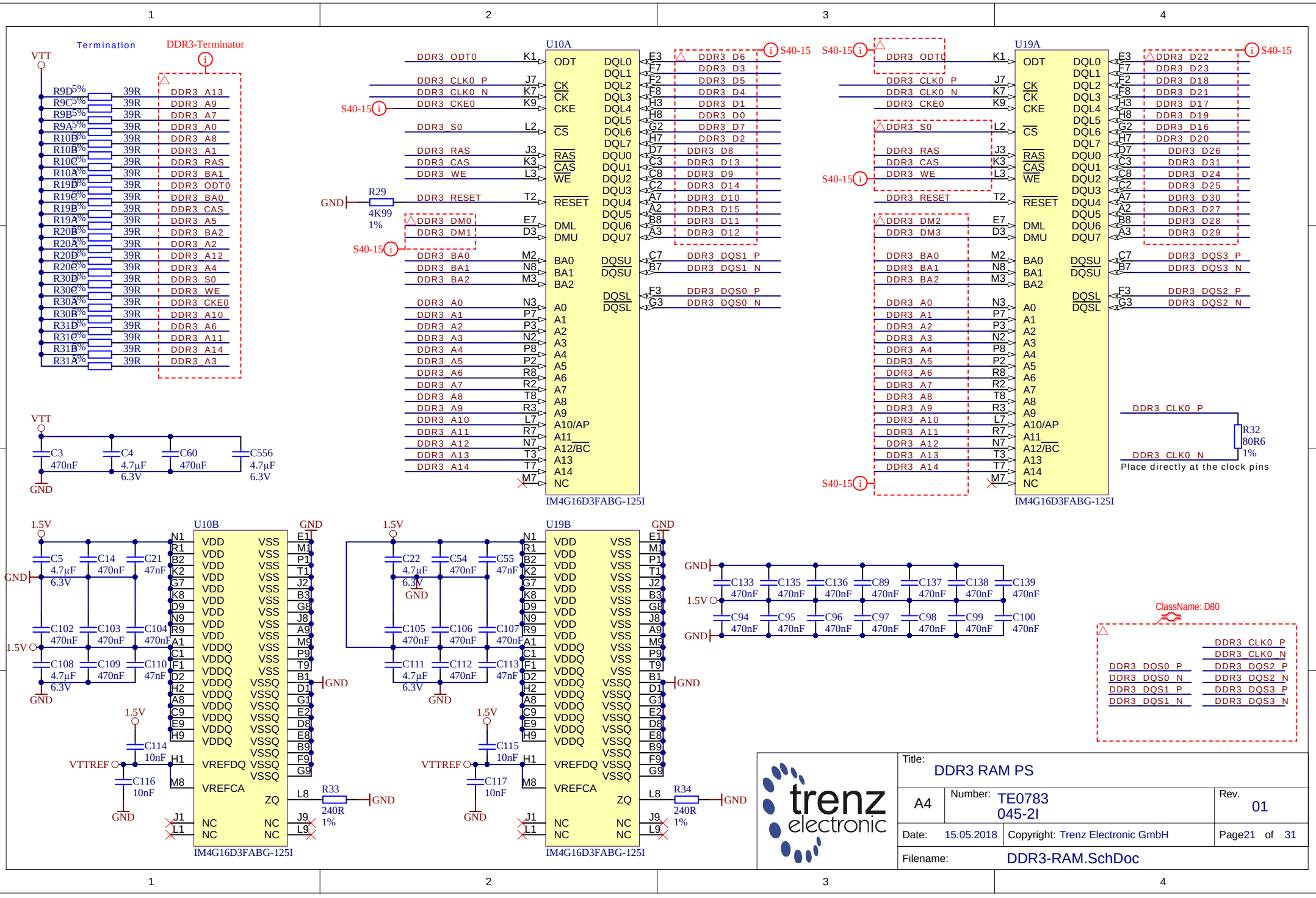
Title: FPGA B34			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page18 of 31
Filename: B34.SchDoc			



trenz electronic	Title: FPGA B35		
	A4	Number: TE0783 045-2I	Rev. 01
	Date: 15.05.2018	Copyright: Trenz Electronic GmbH	Page19 of 31
	Filename: B35.SchDoc		



Title: ZYNQ POWER			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page20 of 31
Filename: FPGA-PWR.SchDoc			


Termination
DDR3-Terminator
VTT
R9D 5% 39R DDR3_A13
R9C 5% 39R DDR3_A9
R9B 5% 39R DDR3_A7
R9A 5% 39R DDR3_A0
R10D 5% 39R DDR3_A8
R10B 5% 39R DDR3_A1
R10C 5% 39R DDR3_RAS
R10A 5% 39R DDR3_BA1
R19D 5% 39R DDR3_ODT0
R19C 5% 39R DDR3_BA0
R19B 5% 39R DDR3_CAS
R19A 5% 39R DDR3_A5
R20D 5% 39R DDR3_BA2
R20A 5% 39R DDR3_A2
R20B 5% 39R DDR3_A12
R20C 5% 39R DDR3_A4
R30D 5% 39R DDR3_S0
R30C 5% 39R DDR3_WE
R30A 5% 39R DDR3_CKE0
R30B 5% 39R DDR3_A10
R31D 5% 39R DDR3_A6
R31C 5% 39R DDR3_A11
R31B 5% 39R DDR3_A14
R31A 5% 39R DDR3_A3
VTT
C3 470nF
C4 4.7µF 6.3V
C60 470nF
C556 4.7µF 6.3V
GND
U10A
DDR3_ODT0 K1 ODT
DDR3_CLK0_P J7 CK
DDR3_CLK0_N K7 CK
DDR3_CKE0 K9 CKE
S40-15
DDR3_S0 L2 CS
DDR3_RAS J3 RAS
DDR3_CAS K3 CAS
DDR3_WE L3 WE
R29 4K99 1%
GND
DDR3_RESET T2 RESET
DDR3_DM0 E7 DML
DDR3_DM1 D3 DMU
S40-15
DDR3_BA0 M2 BA0
DDR3_BA1 N8 BA1
DDR3_BA2 M3 BA2
DDR3_A0 N3 A0
DDR3_A1 P7 A1
DDR3_A2 P3 A2
DDR3_A3 N2 A3
DDR3_A4 P8 A4
DDR3_A5 P2 A5
DDR3_A6 R8 A6
DDR3_A7 R2 A7
DDR3_A8 T8 A8
DDR3_A9 R3 A9
DDR3_A10 L7 A10/AP
DDR3_A11 R7 A11
DDR3_A12 N7 A12/BC
DDR3_A13 T3 A13
DDR3_A14 T7 A14
M7 NC
DQL0 DQL1 DQL2 DQL3 DQL4 DQL5 DQL6 DQL7 DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU7
DQSU DQSU
DQSL DQSL
E3 DDR3_D6
F7 DDR3_D3
F2 DDR3_D5
F8 DDR3_D4
H3 DDR3_D1
H8 DDR3_D0
G2 DDR3_D7
H7 DDR3_D2
D7 DDR3_D8
C3 DDR3_D13
C8 DDR3_D9
C2 DDR3_D14
A7 DDR3_D10
A2 DDR3_D15
B8 DDR3_D11
A3 DDR3_D12
C7 DDR3_DQS1_P
B7 DDR3_DQS1_N
E3 DDR3_DQS0_P
G3 DDR3_DQS0_N
IM4G16D3FABG-125I
S40-15
U19A
DDR3_ODT0 K1 ODT
DDR3_CLK0_P J7 CK
DDR3_CLK0_N K7 CK
DDR3_CKE0 K9 CKE
S40-15
DDR3_S0 L2 CS
DDR3_RAS J3 RAS
DDR3_CAS K3 CAS
DDR3_WE L3 WE
S40-15
DDR3_RESET T2 RESET
DDR3_DM2 E7 DML
DDR3_DM3 D3 DMU
DDR3_BA0 M2 BA0
DDR3_BA1 N8 BA1
DDR3_BA2 M3 BA2
DDR3_A0 N3 A0
DDR3_A1 P7 A1
DDR3_A2 P3 A2
DDR3_A3 N2 A3
DDR3_A4 P8 A4
DDR3_A5 P2 A5
DDR3_A6 R8 A6
DDR3_A7 R2 A7
DDR3_A8 T8 A8
DDR3_A9 R3 A9
DDR3_A10 L7 A10/AP
DDR3_A11 R7 A11
DDR3_A12 N7 A12/BC
DDR3_A13 T3 A13
DDR3_A14 T7 A14
M7 NC
S40-15
DQL0 DQL1 DQL2 DQL3 DQL4 DQL5 DQL6 DQL7 DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU7
DQSU DQSU
DQSL DQSL
E3 DDR3_D22
F7 DDR3_D23
F2 DDR3_D18
F8 DDR3_D21
H3 DDR3_D17
H8 DDR3_D19
G2 DDR3_D16
H7 DDR3_D20
D7 DDR3_D26
C3 DDR3_D31
C8 DDR3_D24
C2 DDR3_D25
A7 DDR3_D30
A2 DDR3_D27
B8 DDR3_D28
A3 DDR3_D29
C7 DDR3_DQS3_P
B7 DDR3_DQS3_N
E3 DDR3_DQS2_P
G3 DDR3_DQS2_N
IM4G16D3FABG-125I
S40-15
DDR3_CLK0_P
R32 80R6 1%
DDR3_CLK0_N
Place directly at the clock pins
1.5V
C5 4.7µF 6.3V
C14 470nF
C21 47nF
GND
C102 470nF
C103 470nF
C104 470nF
1.5V
C108 4.7µF 6.3V
C109 470nF
C110 47nF
GND
U10B
VDD N1 R1 B2 K2 G7 K8 D9 N9 R9 A1 C1 F1 D2 H2 A8 C9 E9 H9
VDDQ C1 F1 D2 H2 A8 C9 E9 H9
VSS E1 M1 P1 T1 J2 B3 G8 J8 A9 M9 P9 T9
VSSQ B1 D1 G1 E2 D8 E8 B9 F9 G9
GND
1.5V
C114 10nF
VTTREF
C116 10nF
GND
VREFDQ H1
VREFCA M8
ZQ L8
R33 240R 1%
GND
NC J1 L1
NC J9 L9
IM4G16D3FABG-125I
1.5V
C22 4.7µF 6.3V
C54 470nF
C55 47nF
GND
C105 470nF
C106 470nF
C107 470nF
C111 4.7µF 6.3V
C112 470nF
C113 47nF
GND
U19B
VDD N1 R1 B2 K2 G7 K8 D9 N9 R9 A1 C1 F1 D2 H2 A8 C9 E9 H9
VDDQ C1 F1 D2 H2 A8 C9 E9 H9
VSS E1 M1 P1 T1 J2 B3 G8 J8 A9 M9 P9 T9
VSSQ B1 D1 G1 E2 D8 E8 B9 F9 G9
GND
1.5V
C115 10nF
VTTREF
C117 10nF
GND
VREFDQ H1
VREFCA M8
ZQ L8
R34 240R 1%
GND
NC J1 L1
NC J9 L9
IM4G16D3FABG-125I
GND
1.5V
GND
C133 470nF
C135 470nF
C136 470nF
C89 470nF
C137 470nF
C138 470nF
C139 470nF
C94 470nF
C95 470nF
C96 470nF
C97 470nF
C98 470nF
C99 470nF
C100 470nF
ClassName: D80
DDR3_DQS0_P
DDR3_DQS0_N
DDR3_DQS1_P
DDR3_DQS1_N
DDR3_CLK0_P
DDR3_CLK0_N
DDR3_DQS2_P
DDR3_DQS2_N
DDR3_DQS3_P
DDR3_DQS3_N
trenz electronic
Title: DDR3 RAM PS
A4
Number: TE0783 045-2I
Rev. 01
Date: 15.05.2018
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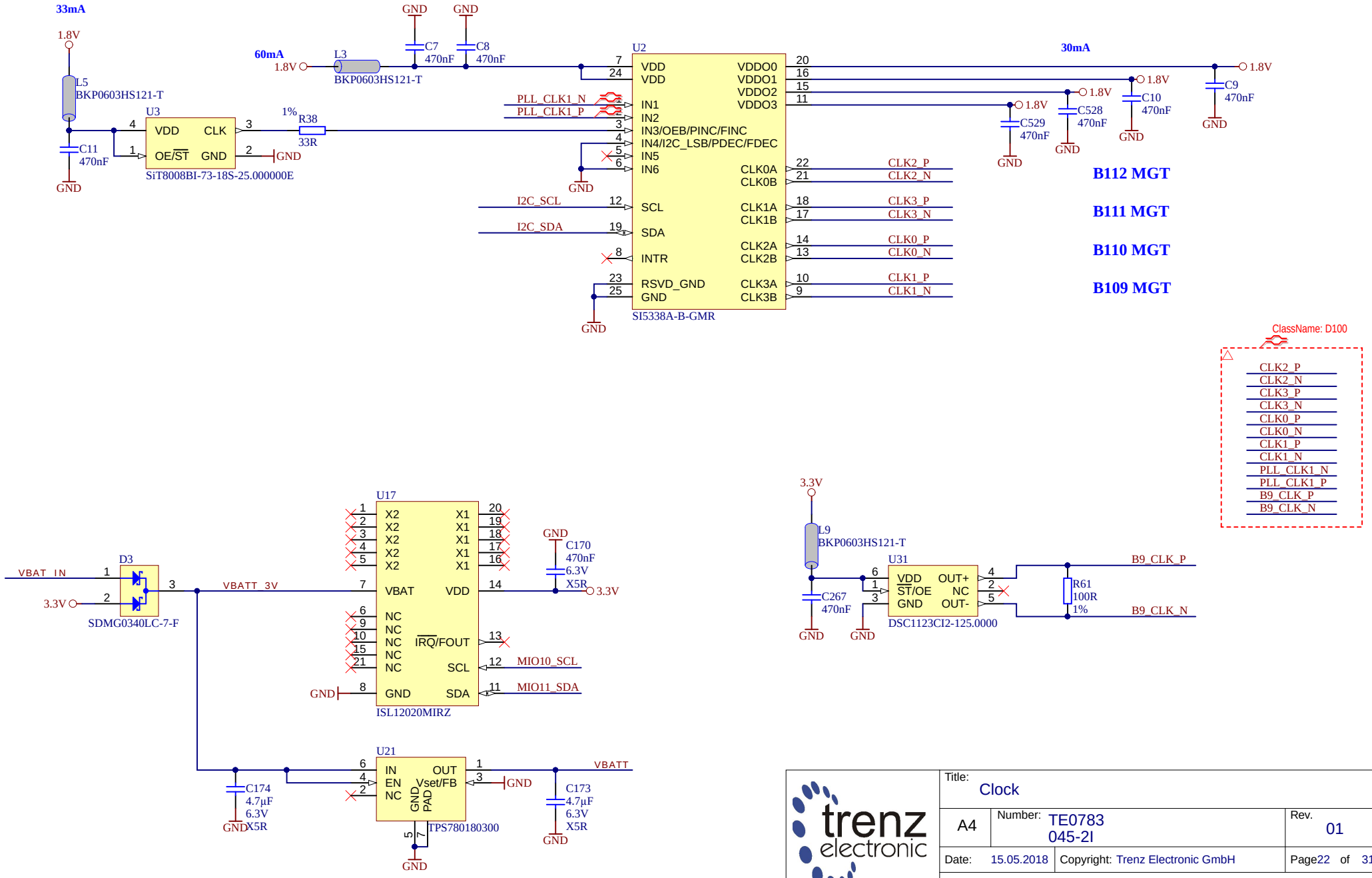
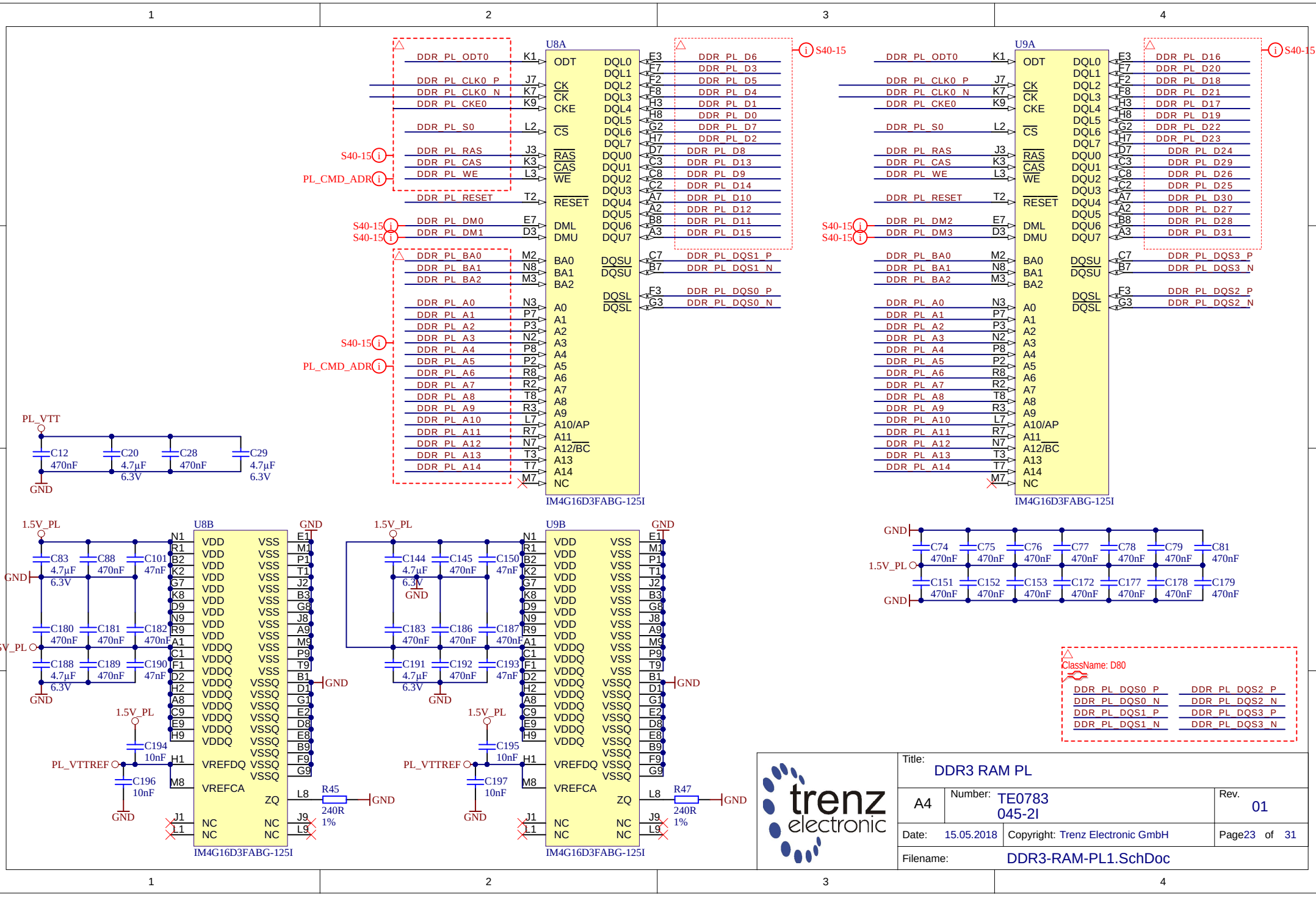
Filename: DDR3-RAM.SchDoc



Title: Clock			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page22 of 31
Filename: Clock.SchDoc			


U8A
U9A
U8B
U9B
IM4G16D3FABG-125I
PL_VTT
GND
1.5V_PL
PL_VTTREF
PL_CMD_ADR
S40-15
R45
240R
1%
R47
ClassName: D80
DDR_PL_DQS0_P
DDR_PL_DQS0_N
DDR_PL_DQS1_P
DDR_PL_DQS1_N
DDR_PL_DQS2_P
DDR_PL_DQS2_N
DDR_PL_DQS3_P
DDR_PL_DQS3_N
trenz electronic
Title: DDR3 RAM PL
A4
Number: TE0783 045-2I
Rev. 01
Date: 15.05.2018
Copyright: Trenz Electronic GmbH
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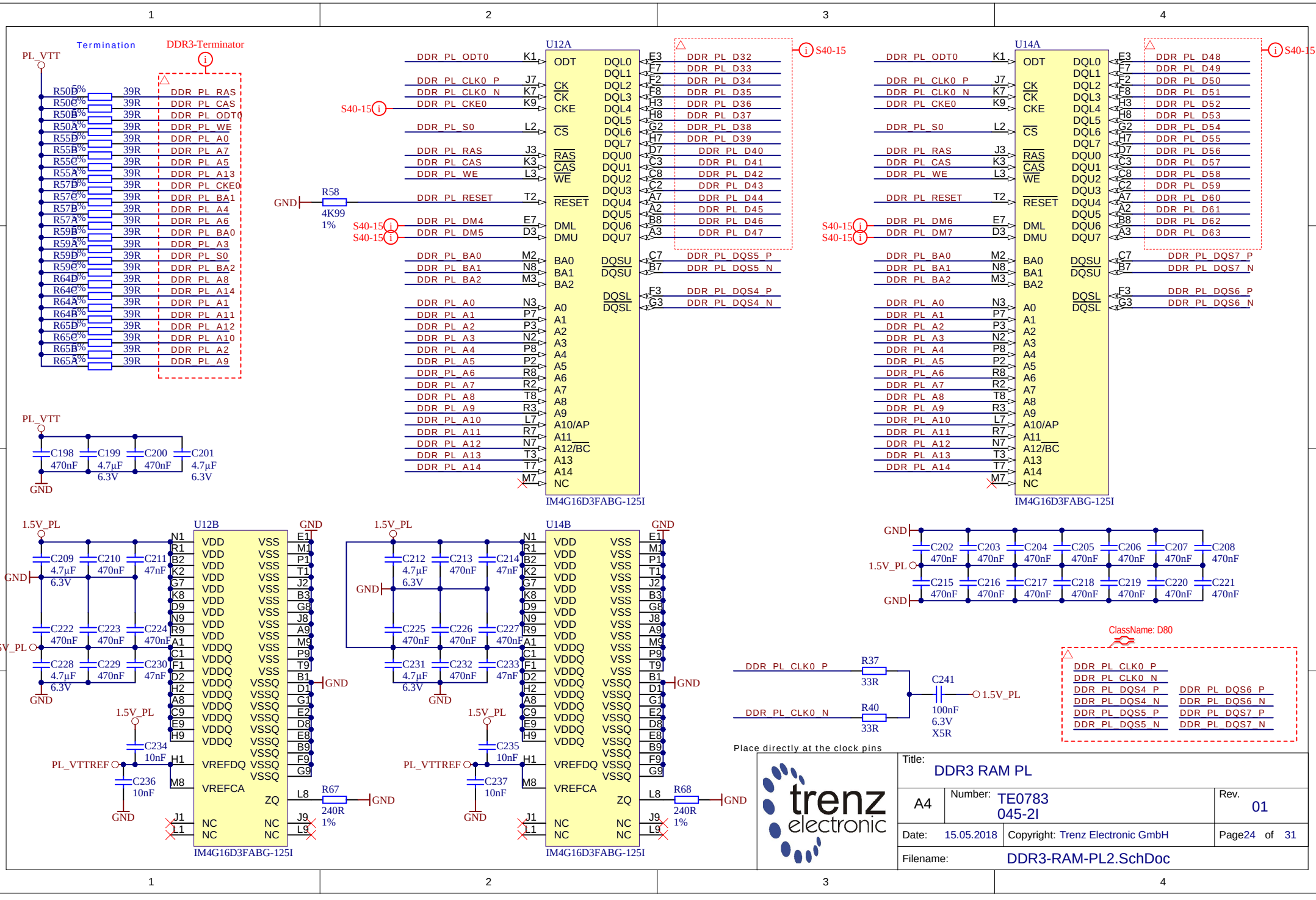
Filename: DDR3-RAM-PL1.SchDoc


Termination
DDR3-Terminator
PL_VTT
R50B 5% 39R DDR_PL_RAS
R50A 5% 39R DDR_PL_CAS
R55B 5% 39R DDR_PL_ODT0
R55A 5% 39R DDR_PL_WE
R57B 5% 39R DDR_PL_A0
R57A 5% 39R DDR_PL_A7
R59B 5% 39R DDR_PL_A5
R59A 5% 39R DDR_PL_A13
R64B 5% 39R DDR_PL_CKE0
R64A 5% 39R DDR_PL_BA1
R65B 5% 39R DDR_PL_A4
R65A 5% 39R DDR_PL_A6
R65C 5% 39R DDR_PL_BA0
R65B 5% 39R DDR_PL_A3
R65A 5% 39R DDR_PL_S0
R65C 5% 39R DDR_PL_BA2
R65B 5% 39R DDR_PL_A8
R65A 5% 39R DDR_PL_A14
R65C 5% 39R DDR_PL_A1
R65B 5% 39R DDR_PL_A11
R65A 5% 39R DDR_PL_A12
R65C 5% 39R DDR_PL_A10
R65B 5% 39R DDR_PL_A2
R65A 5% 39R DDR_PL_A9
PL_VTT
C198 470nF
C199 4.7µF 6.3V
C200 470nF
C201 4.7µF 6.3V
GND
U12A
DDR_PL_ODT0 K1 ODT
DDR_PL_CLK0_P J7 CK
DDR_PL_CLK0_N K7 CK
DDR_PL_CKE0 K9 CKE
S40-15
DDR_PL_S0 L2 CS
DDR_PL_RAS J3 RAS
DDR_PL_CAS K3 CAS
DDR_PL_WE L3 WE
R58 4K99 1%
DDR_PL_RESET T2 RESET
DDR_PL_DM4 E7 DML
DDR_PL_DM5 D3 DMU
DDR_PL_BA0 M2 BA0
DDR_PL_BA1 N8 BA1
DDR_PL_BA2 M3 BA2
DDR_PL_A0 N3 A0
DDR_PL_A1 P7 A1
DDR_PL_A2 P3 A2
DDR_PL_A3 N2 A3
DDR_PL_A4 P8 A4
DDR_PL_A5 P2 A5
DDR_PL_A6 R8 A6
DDR_PL_A7 R2 A7
DDR_PL_A8 T8 A8
DDR_PL_A9 R3 A9
DDR_PL_A10 L7 A10/AP
DDR_PL_A11 R7 A11
DDR_PL_A12 N7 A12/BC
DDR_PL_A13 T3 A13
DDR_PL_A14 T7 A14
M7 NC
DQL0 E3 DDR_PL_D32
DQL1 F7 DDR_PL_D33
DQL2 F2 DDR_PL_D34
DQL3 F8 DDR_PL_D35
DQL4 H3 DDR_PL_D36
DQL5 H8 DDR_PL_D37
DQL6 G2 DDR_PL_D38
DQL7 H7 DDR_PL_D39
DQU0 D7 DDR_PL_D40
DQU1 C3 DDR_PL_D41
DQU2 C8 DDR_PL_D42
DQU3 C2 DDR_PL_D43
DQU4 A7 DDR_PL_D44
DQU5 A2 DDR_PL_D45
DQU6 B8 DDR_PL_D46
DQU7 A3 DDR_PL_D47
DQSU C7 DDR_PL_DQS5_P
DQSU B7 DDR_PL_DQS5_N
DQSL E3 DDR_PL_DQS4_P
DQSL G3 DDR_PL_DQS4_N
S40-15
IM4G16D3FABG-125I
U14A
DDR_PL_ODT0 K1 ODT
DDR_PL_CLK0_P J7 CK
DDR_PL_CLK0_N K7 CK
DDR_PL_CKE0 K9 CKE
DDR_PL_S0 L2 CS
DDR_PL_RAS J3 RAS
DDR_PL_CAS K3 CAS
DDR_PL_WE L3 WE
DDR_PL_RESET T2 RESET
DDR_PL_DM6 E7 DML
DDR_PL_DM7 D3 DMU
DDR_PL_BA0 M2 BA0
DDR_PL_BA1 N8 BA1
DDR_PL_BA2 M3 BA2
DDR_PL_A0 N3 A0
DDR_PL_A1 P7 A1
DDR_PL_A2 P3 A2
DDR_PL_A3 N2 A3
DDR_PL_A4 P8 A4
DDR_PL_A5 P2 A5
DDR_PL_A6 R8 A6
DDR_PL_A7 R2 A7
DDR_PL_A8 T8 A8
DDR_PL_A9 R3 A9
DDR_PL_A10 L7 A10/AP
DDR_PL_A11 R7 A11
DDR_PL_A12 N7 A12/BC
DDR_PL_A13 T3 A13
DDR_PL_A14 T7 A14
M7 NC
DQL0 E3 DDR_PL_D48
DQL1 F7 DDR_PL_D49
DQL2 F2 DDR_PL_D50
DQL3 F8 DDR_PL_D51
DQL4 H3 DDR_PL_D52
DQL5 H8 DDR_PL_D53
DQL6 G2 DDR_PL_D54
DQL7 H7 DDR_PL_D55
DQU0 D7 DDR_PL_D56
DQU1 C3 DDR_PL_D57
DQU2 C8 DDR_PL_D58
DQU3 C2 DDR_PL_D59
DQU4 A7 DDR_PL_D60
DQU5 A2 DDR_PL_D61
DQU6 B8 DDR_PL_D62
DQU7 A3 DDR_PL_D63
DQSU C7 DDR_PL_DQS7_P
DQSU B7 DDR_PL_DQS7_N
DQSL E3 DDR_PL_DQS6_P
DQSL G3 DDR_PL_DQS6_N
S40-15
IM4G16D3FABG-125I
1.5V_PL
C209 4.7µF 6.3V
C210 470nF
C211 47nF
C222 470nF
C223 470nF
C224 470nF
C228 4.7µF 6.3V
C229 470nF
C230 47nF
U12B
VDD N1 R1 B2 K2 G7 K8 D9 N9 R9 A1 C1 F1 D2 H2 A8 C9 E9 H9
VDDQ C1 F1 D2 H2 A8 C9 E9 H9
VSS E1 M1 P1 T1 J2 B3 G8 J8 A9 M9 P9 T9 B1 D1 G1 E2 D8 E8 B9 F9 G9
VSSQ D1 G1 E2 D8 E8 B9 F9 G9
VREFDQ H1
VREFCA M8
ZQ L8
NC J1 L1
NC J9 L9
GND
C234 10nF
PL_VTTREF
C236 10nF
R67 240R 1%
IM4G16D3FABG-125I
C212 4.7µF 6.3V
C213 470nF
C214 47nF
C225 470nF
C226 470nF
C227 470nF
C231 4.7µF 6.3V
C232 470nF
C233 47nF
C235 10nF
C237 10nF
R68 240R 1%
C202 470nF
C203 470nF
C204 470nF
C205 470nF
C206 470nF
C207 470nF
C208 470nF
C215 470nF
C216 470nF
C217 470nF
C218 470nF
C219 470nF
C220 470nF
C221 470nF
DDR_PL_CLK0_P
DDR_PL_CLK0_N
R37 33R
R40 33R
C241 100nF 6.3V X5R
Place directly at the clock pins
ClassName: D80
DDR_PL_CLK0_P
DDR_PL_CLK0_N
DDR_PL_DQS4_P
DDR_PL_DQS4_N
DDR_PL_DQS5_P
DDR_PL_DQS5_N
DDR_PL_DQS6_P
DDR_PL_DQS6_N
DDR_PL_DQS7_P
DDR_PL_DQS7_N
trenz electronic
Title: DDR3 RAM PL
A4
Number: TE0783 045-2I
Rev. 01
Date: 15.05.2018
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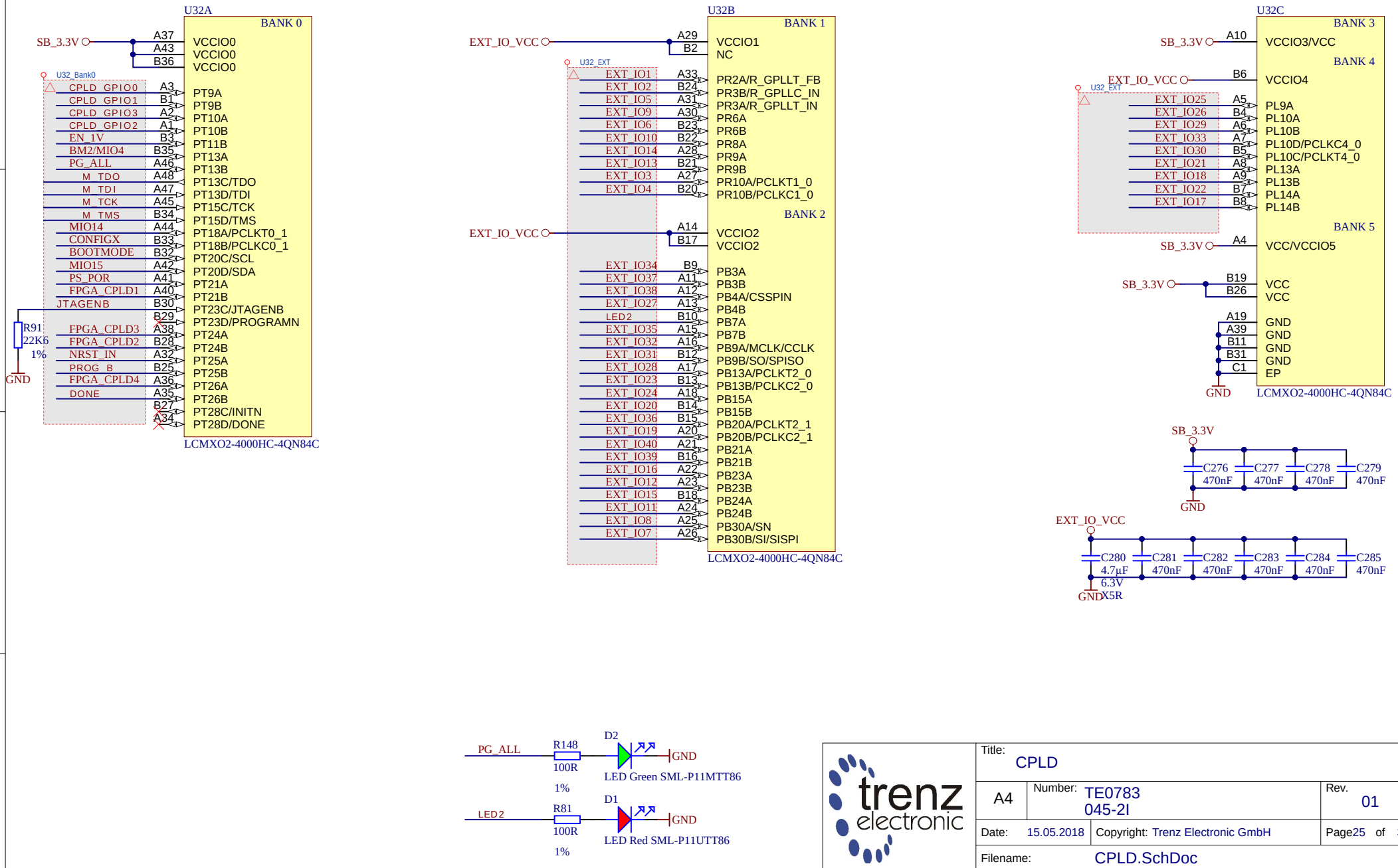
Filename: DDR3-RAM-PL2.SchDoc



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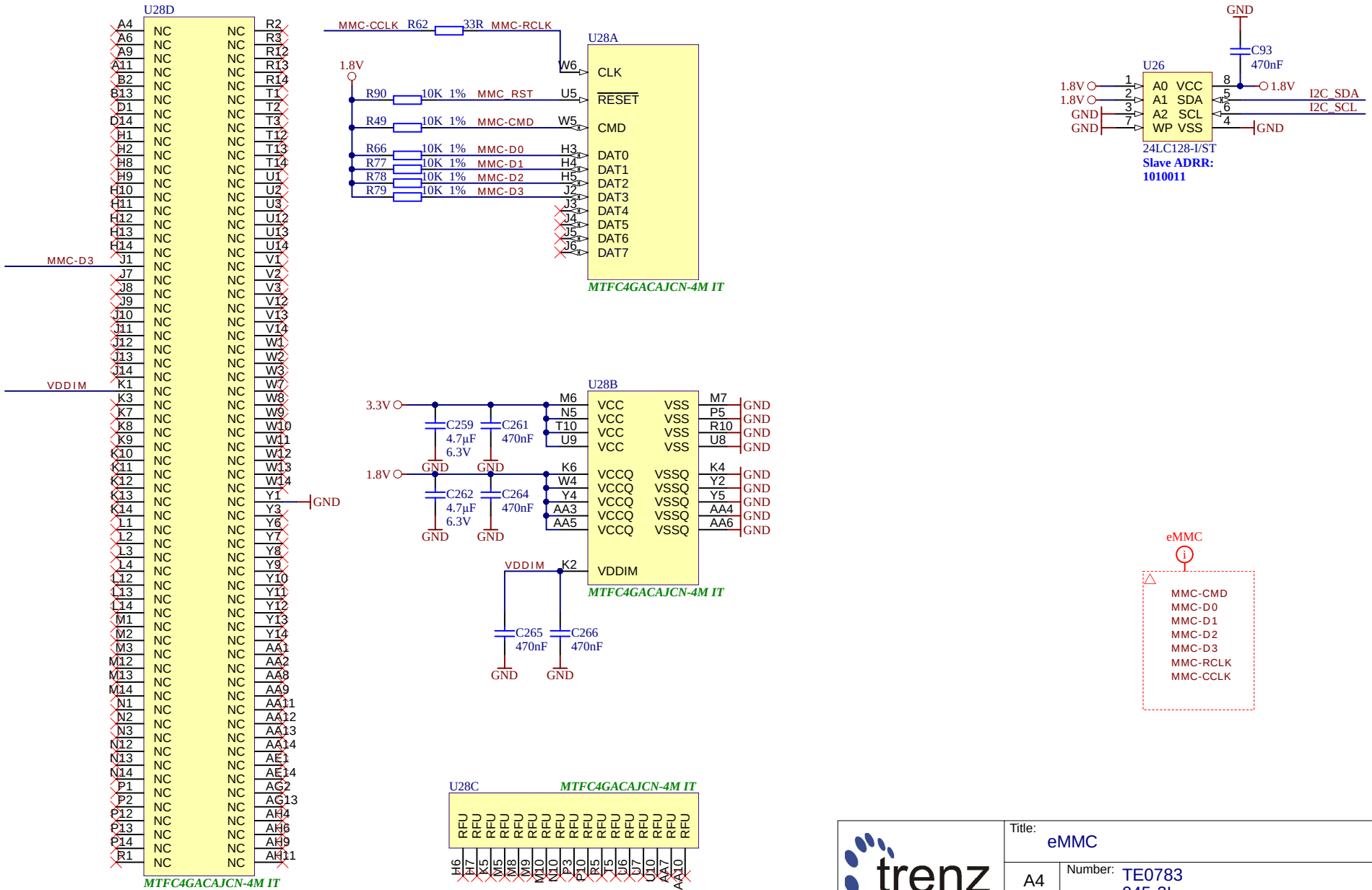
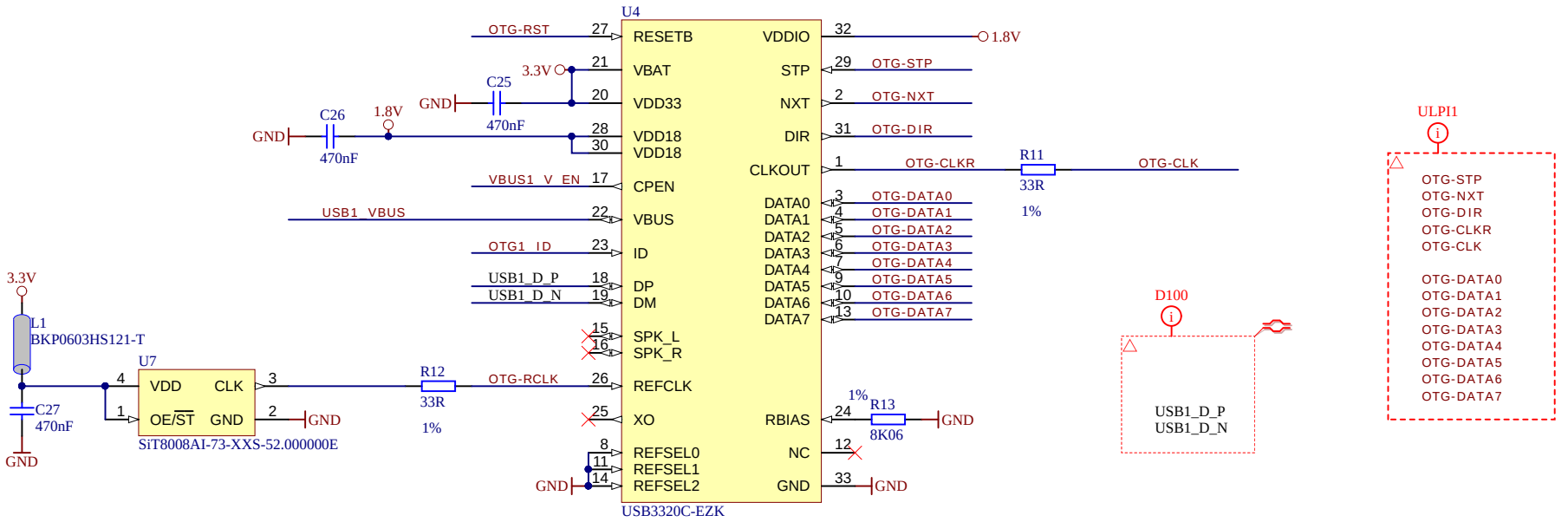
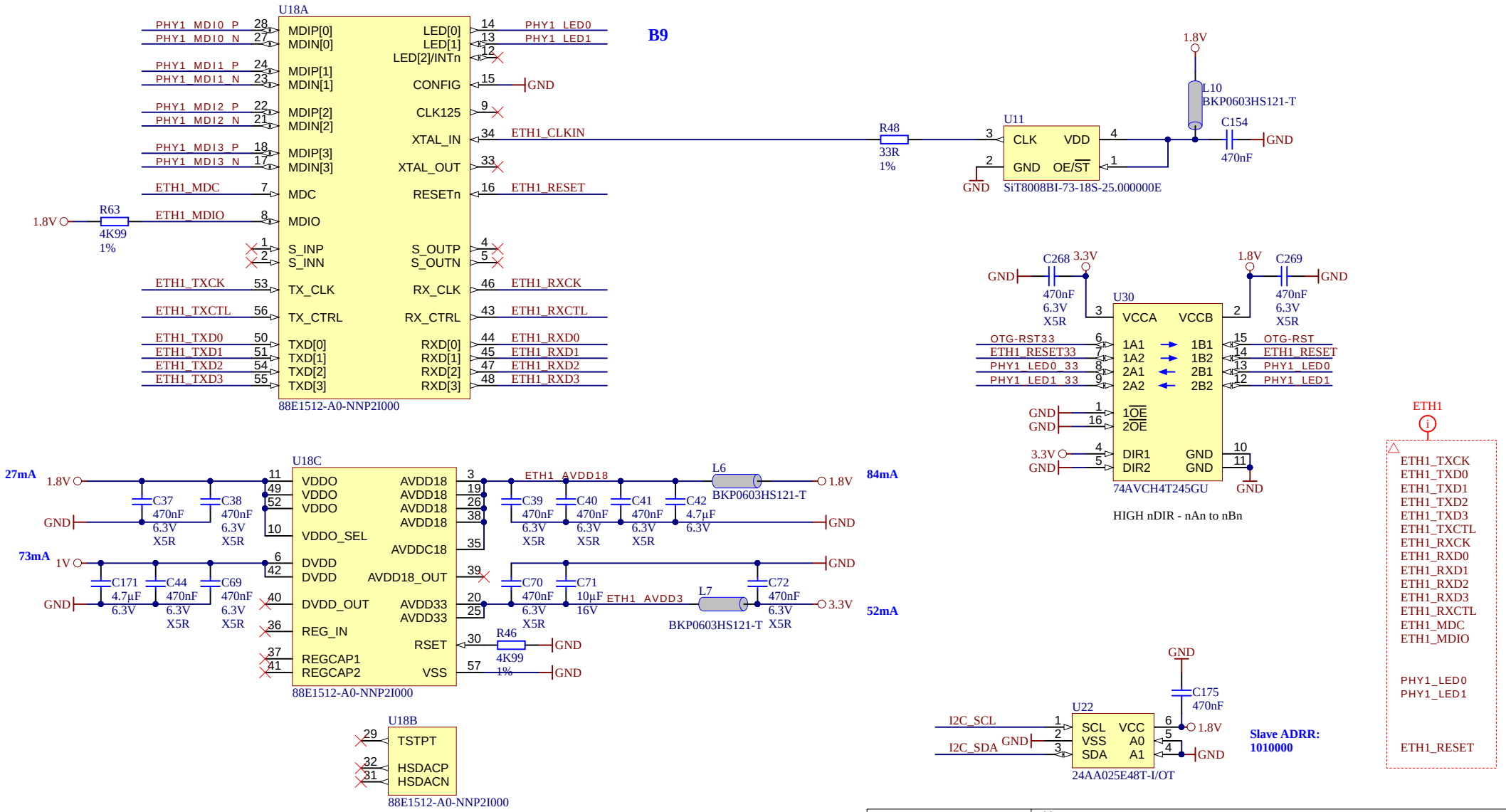
Title: CPLD			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page25 of 31
Filename: CPLD.SchDoc			



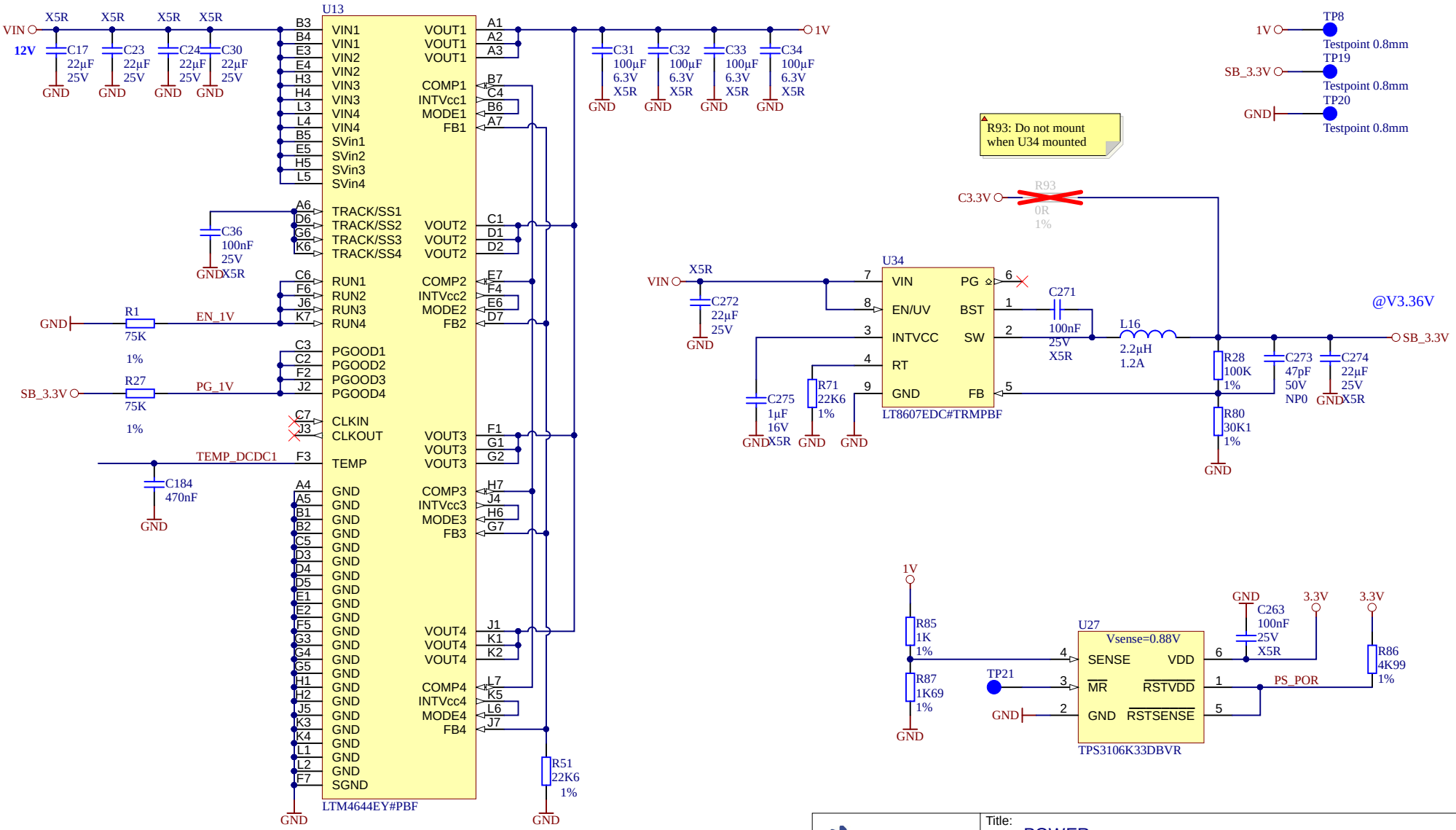
Title: eMMC			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page 26 of 31
Filename: eMMC.SchDoc			



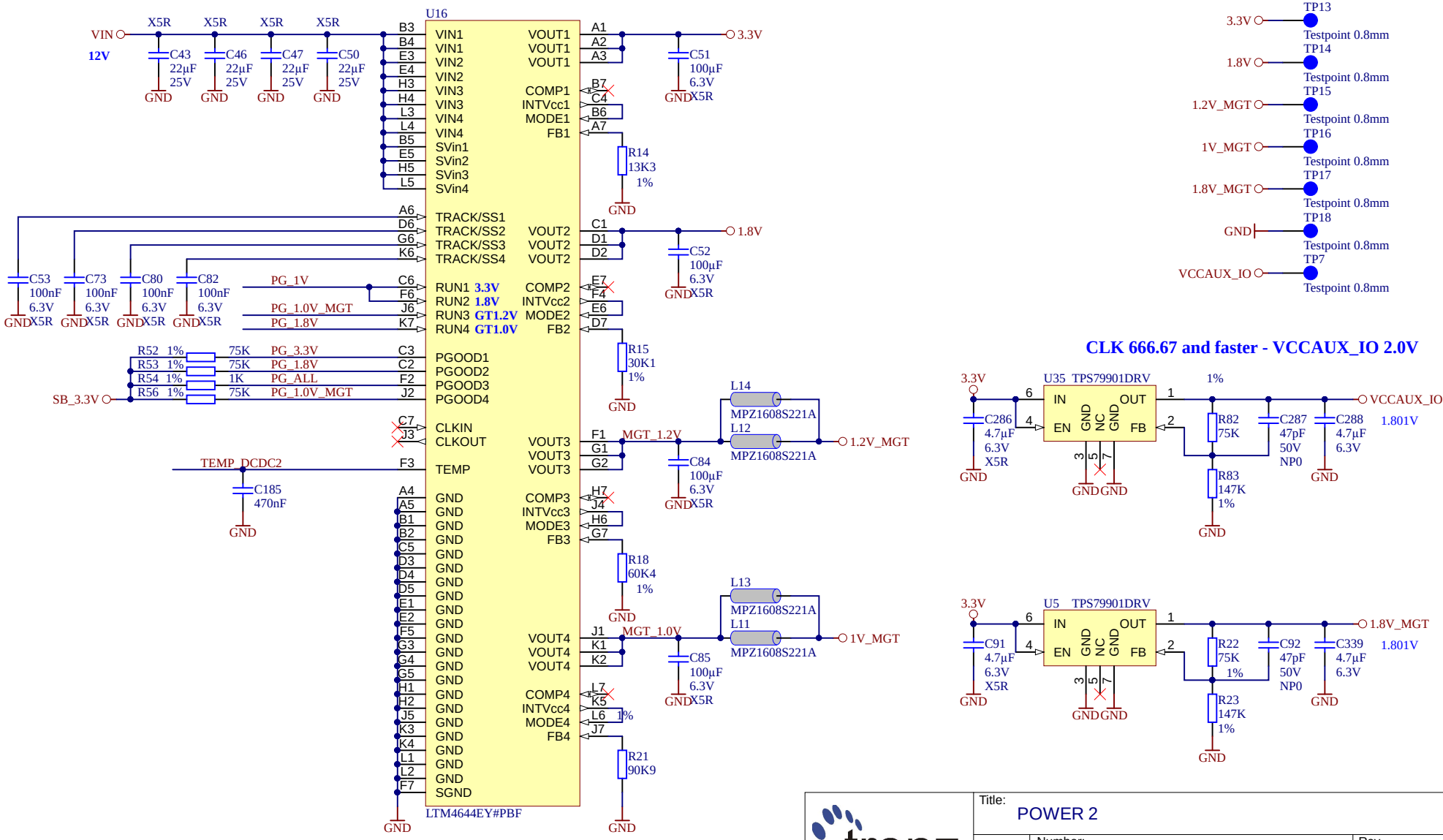
trenz electronic	Title: USB-PHY		
	A4	Number: TE0783 045-2I	Rev. 01
	Date: 15.05.2018	Copyright: Trenz Electronic GmbH	Page27 of 31
	Filename: USB-PHY.SchDoc		



Title: ETH_PHY1			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page28 of 31
Filename: ETH1.SchDoc			

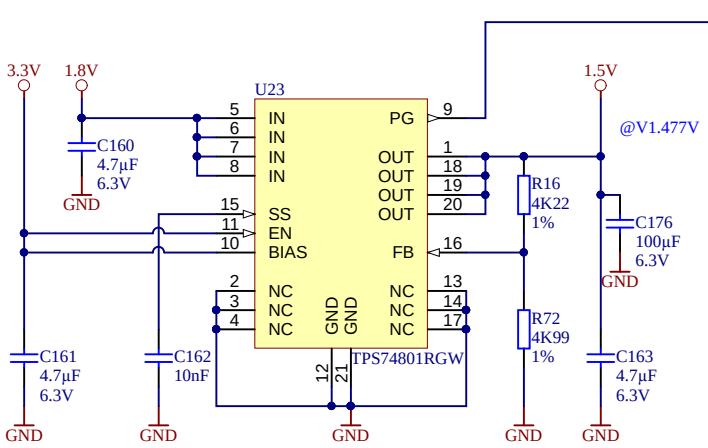


trenz electronic	Title: POWER		
	A4	Number: TE0783 045-2I	Rev. 01
	Date: 15.05.2018	Copyright: Trenz Electronic GmbH	Page29 of 31
	Filename: POWER.SchDoc		

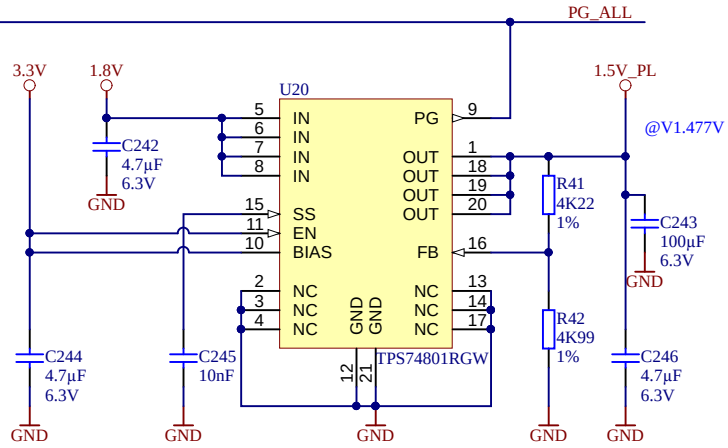


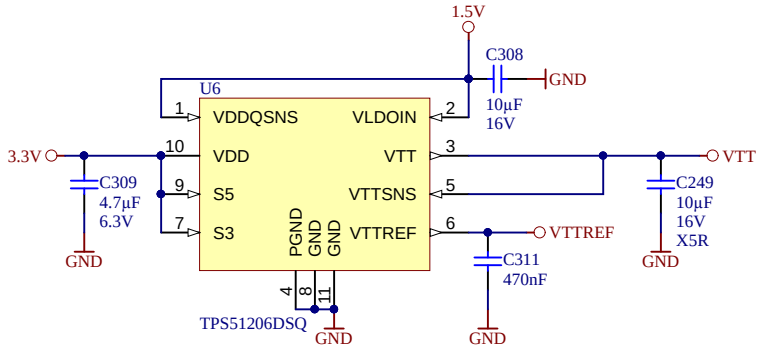
Title: POWER 2			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page30 of 31
Filename: POWER2.SchDoc			

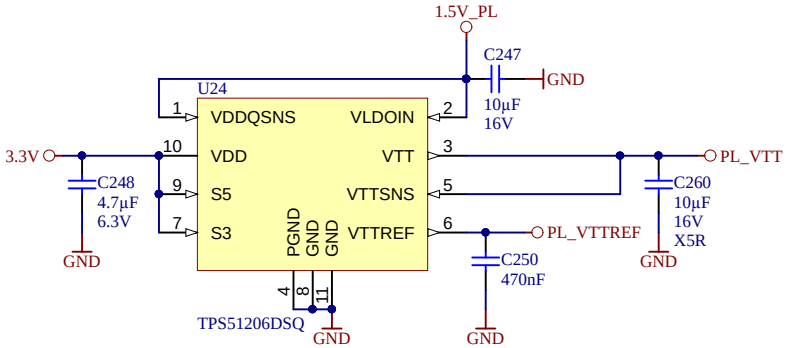
DDR3 PS

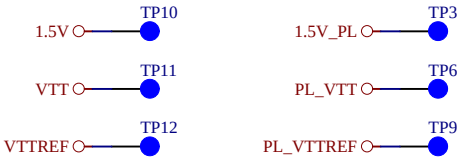


DDR3 PL









Title: POWER 2			
A4	Number: TE0783 045-2I		Rev. 01
Date: 15.05.2018	Copyright: Trenz Electronic GmbH		Page31 of 31
Filename: POWER3.SchDoc			