U_J1
J1.SchDoc
U_J2
J2.SchDoc
U_J3
J3.SchDoc
U_J4
J4.SchDoc
U_J5
J5.SchDoc
U_J6
J6.SchDoc

J14

1296.1004

D1
GND
LED Red LTST-C191KRKT
R67
619R
1%
LED_FP_1

D2
GND
LED Green LTST-C191KGKT
R68
619R
1%
LED_FP_2

D3
GND
LED Green LTST-C191KGKT
R71
619K
1%
LED_FP_3

D4
GND
LED Green LTST-C191KGKT
R74
619R
1%
LED_FP_4

S2A
S2B
S2C
S2D
CHS-04TA
MODE3
MODE2
MODE1
MODE0
R155
R156
R157
R158
10K
1%
PS_1V8
GND

S1A
S1B
S1C
S1D
CHS-04TA
JTAGEN
WP
PUDC_B
SW4
GND

PE = STRIP, no connection to GND on the board only when inserted into RACK

Mount.Hole 2.7mm
Mount.Hole 2.7mm

TP1
Testpoint 0.8mm
10M
R15
5M
1%
R16
5M
1%
STRIP1
2KV
TP2
Testpoint 0.8mm

J17
GND
12V
L23
BLM15PX471SZ1D
F1SENSE
R73
100R
1%
R182
10K
1%
+3V_D
F1PWM
R181
100R
1%
Stiftleiste 4 Pol. 2,54mm
FAN 1

Serial
Serial
Serialnumber 6,3 x 6.3mm

S/N
0R
Serialnumber

J8
IEEE_SW_NO
IEEE_SW_NC
53047-0310
R22
0R
1%
GND

FAN1
HFB44B12A

TP3
Testpoint 0.8mm
STRIP2
2KV
R17
5M
1%
R18
5M
1%
GND

PM1
PM2
PM3
PM5
PM6
PM4
FIDU-DOT - small

Mount.Hole 2.7mm
Mount.Hole 2.7mm
Mount.Hole 2.7mm
Mount.Hole 2.7mm

Slave ADDR:
1010000
U63
A0 VCC
A1 SDA
A2 SCL
WP VSS
GND
PS_1V8
I2C_SDA
I2C_SCL
R159
10K
1%
WP
24AA128T-I/ST

Slave ADDR:
1010011
U64
SCL VCC
VSS A0
SDA A1
I2C_SCL
I2C_SDA
GND
PS_1V8
24AA025E48T-I/OT

+3V_D
R177
10K
1%
S3
Case
KMS221GPLFS
USR_BTN
GND

LOGO1
TE Logo PRINT Layer
LOGO PRINT

Assembly variant	BBEX1-B
Created by	VY
Modified by	VY
Modified at	2020-11-13
SVN Revision	8527

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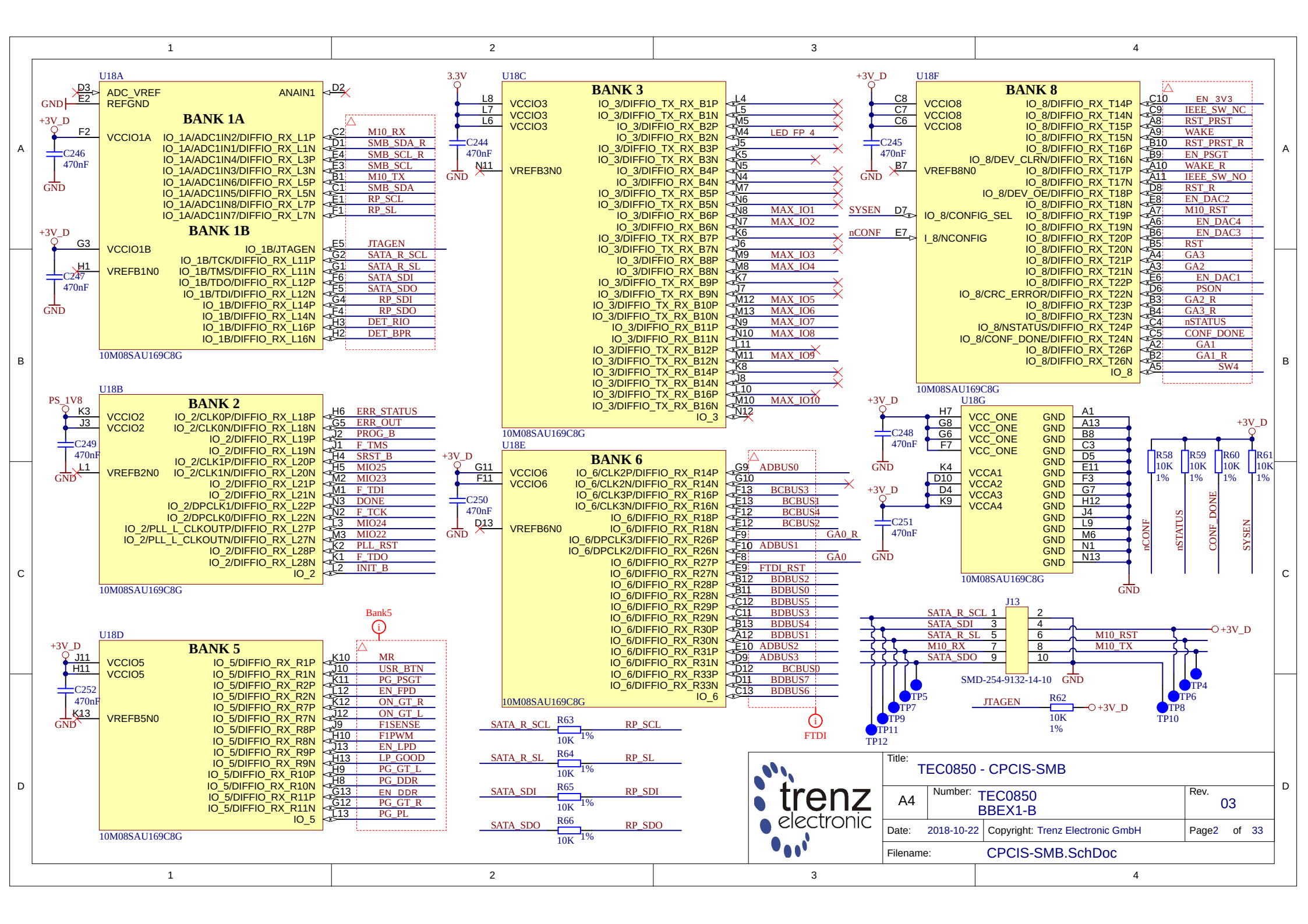
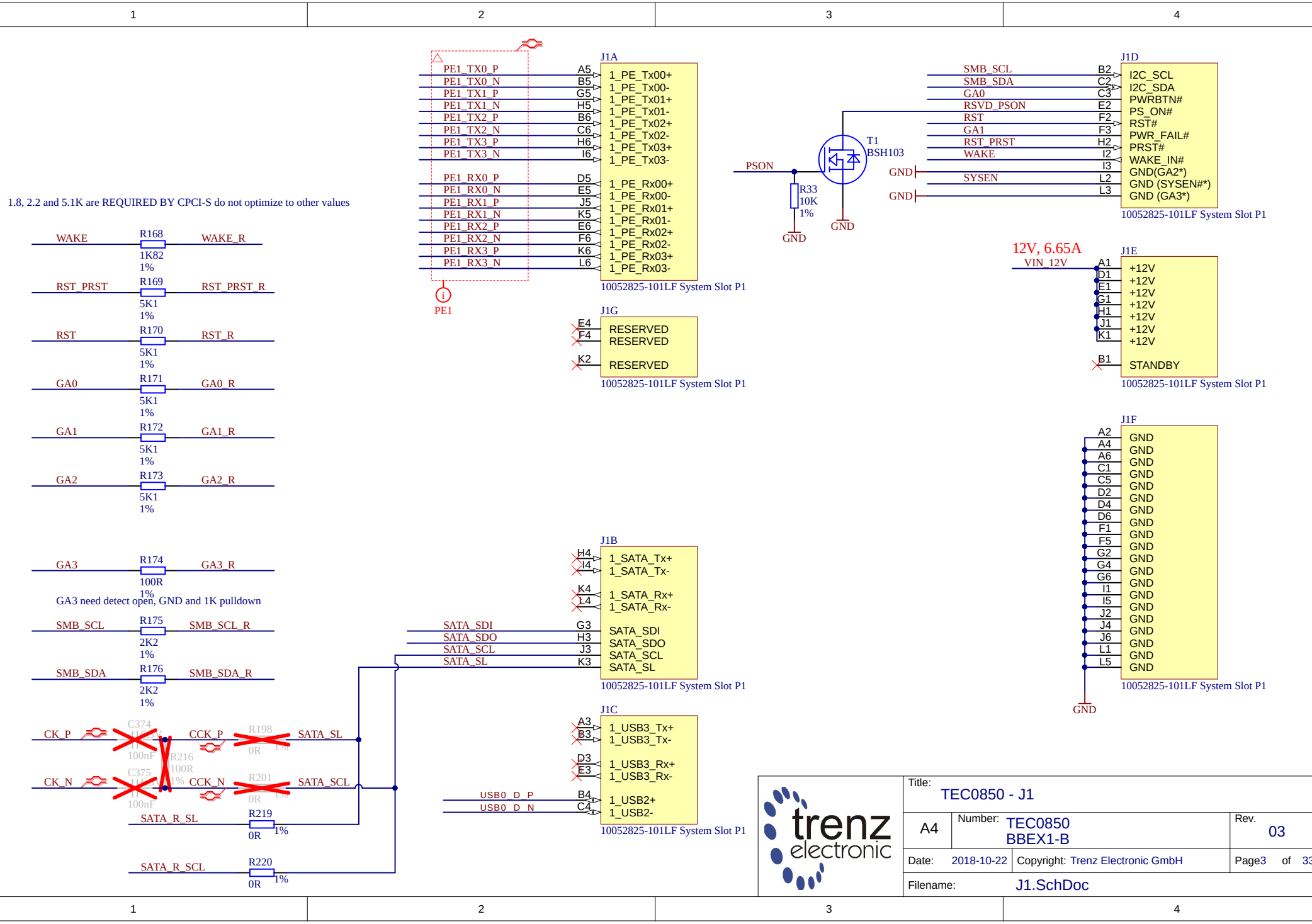
Title:	TEC0850 - CPCIS-MAIN		
A4	Number: TEC0850 BBEX1-B		Rev. 03
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page1 of 33
Filename:	CPCIS-MAIN.SchDoc		


U18A
BANK 1A
BANK 1B
10M08SAU169C8G
U18B
BANK 2
U18C
BANK 3
U18D
BANK 5
U18E
BANK 6
U18F
BANK 8
U18G
J13
SMD-254-9132-14-10
Title: TEC0850 - CPCIS-SMB
A4
Number: TEC0850 BBEX1-B
Rev. 03
Date: 2018-10-22
Copyright: Trenz Electronic GmbH
Page2 of 33
Filename: CPCIS-SMB.SchDoc


1.8, 2.2 and 5.1K are REQUIRED BY CPCI-S do not optimize to other values
WAKE
R168
1K82
1%
WAKE_R
RST_PRST
R169
5K1
1%
RST_PRST_R
RST
R170
5K1
1%
RST_R
GA0
R171
5K1
1%
GA0_R
GA1
R172
5K1
1%
GA1_R
GA2
R173
5K1
1%
GA2_R
GA3
R174
100R
1%
GA3_R
GA3 need detect open, GND and 1K pulldown
SMB_SCL
R175
2K2
1%
SMB_SCL_R
SMB_SDA
R176
2K2
1%
SMB_SDA_R
CK_P
C374
100nF
CCK_P
R198
0R
SATA_SL
CK_N
C375
100nF
R216
100R
CCK_N
R201
0R
SATA_SCL
SATA_R_SL
R219
0R
1%
SATA_R_SCL
R220
0R
1%
PE1_TX0_P
PE1_TX0_N
PE1_TX1_P
PE1_TX1_N
PE1_TX2_P
PE1_TX2_N
PE1_TX3_P
PE1_TX3_N
PE1_RX0_P
PE1_RX0_N
PE1_RX1_P
PE1_RX1_N
PE1_RX2_P
PE1_RX2_N
PE1_RX3_P
PE1_RX3_N
PE1
J1A
A5 B5 G5 H5 B6 C6 H6 I6
D5 E5 J5 K5 E6 F6 K6 L6
1_PE_Tx00+ 1_PE_Tx00- 1_PE_Tx01+ 1_PE_Tx01- 1_PE_Tx02+ 1_PE_Tx02- 1_PE_Tx03+ 1_PE_Tx03-
1_PE_Rx00+ 1_PE_Rx00- 1_PE_Rx01+ 1_PE_Rx01- 1_PE_Rx02+ 1_PE_Rx02- 1_PE_Rx03+ 1_PE_Rx03-
10052825-101LF System Slot P1
J1G
E4 F4 K2
RESERVED RESERVED RESERVED
10052825-101LF System Slot P1
PSON
T1
BSH103
R33
10K
1%
GND
GND
GND
J1D
SMB_SCL SMB_SDA GA0 RSVD_PSON RST GA1 RST_PRST WAKE
B2 C2 C3 E2 F2 F3 H2 I2 I3 L2 L3
I2C_SCL I2C_SDA PWRBTN# PS_ON# RST# PWR_FAIL# PRST# WAKE_IN# GND(GA2*) GND (SYSEN#*) GND (GA3*)
SYSEN
GND
GND
10052825-101LF System Slot P1
12V, 6.65A
VIN_12V
J1E
A1 D1 E1 G1 H1 J1 K1
+12V +12V +12V +12V +12V +12V +12V
B1
STANDBY
10052825-101LF System Slot P1
J1F
A2 A4 A6 C1 C5 D2 D4 D6 F1 F5 G2 G4 G6 I1 I5 J2 J4 J6 L1 L5
GND
GND
10052825-101LF System Slot P1
J1B
H4 I4 K4 L4
1_SATA_Tx+ 1_SATA_Tx- 1_SATA_Rx+ 1_SATA_Rx-
SATA_SDI SATA_SDO SATA_SCL SATA_SL
G3 H3 J3 K3
SATA_SDI SATA_SDO SATA_SCL SATA_SL
10052825-101LF System Slot P1
J1C
A3 B3 D3 E3
1_USB3_Tx+ 1_USB3_Tx- 1_USB3_Rx+ 1_USB3_Rx-
USB0_D_P
USB0_D_N
B4 C4
1_USB2+ 1_USB2-
10052825-101LF System Slot P1
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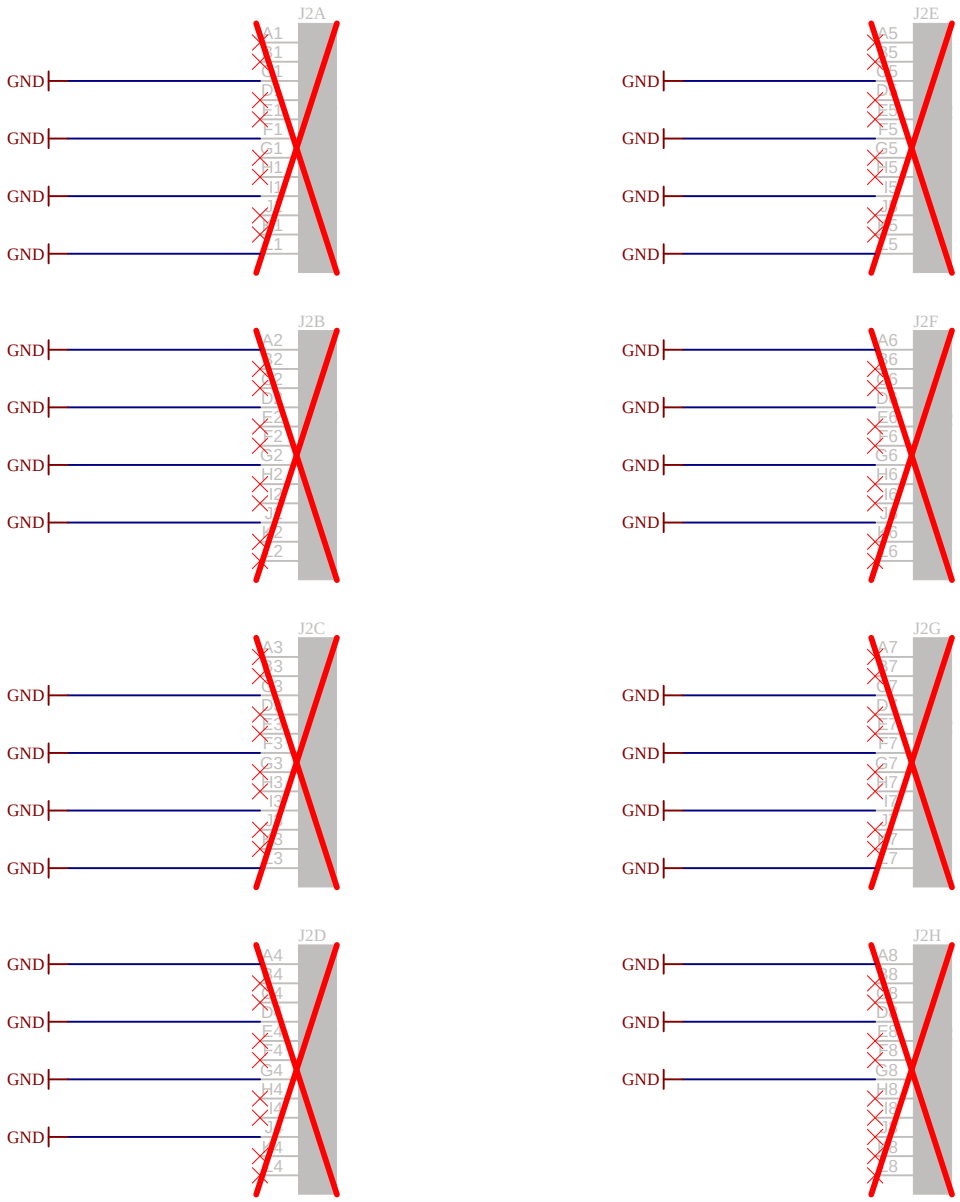
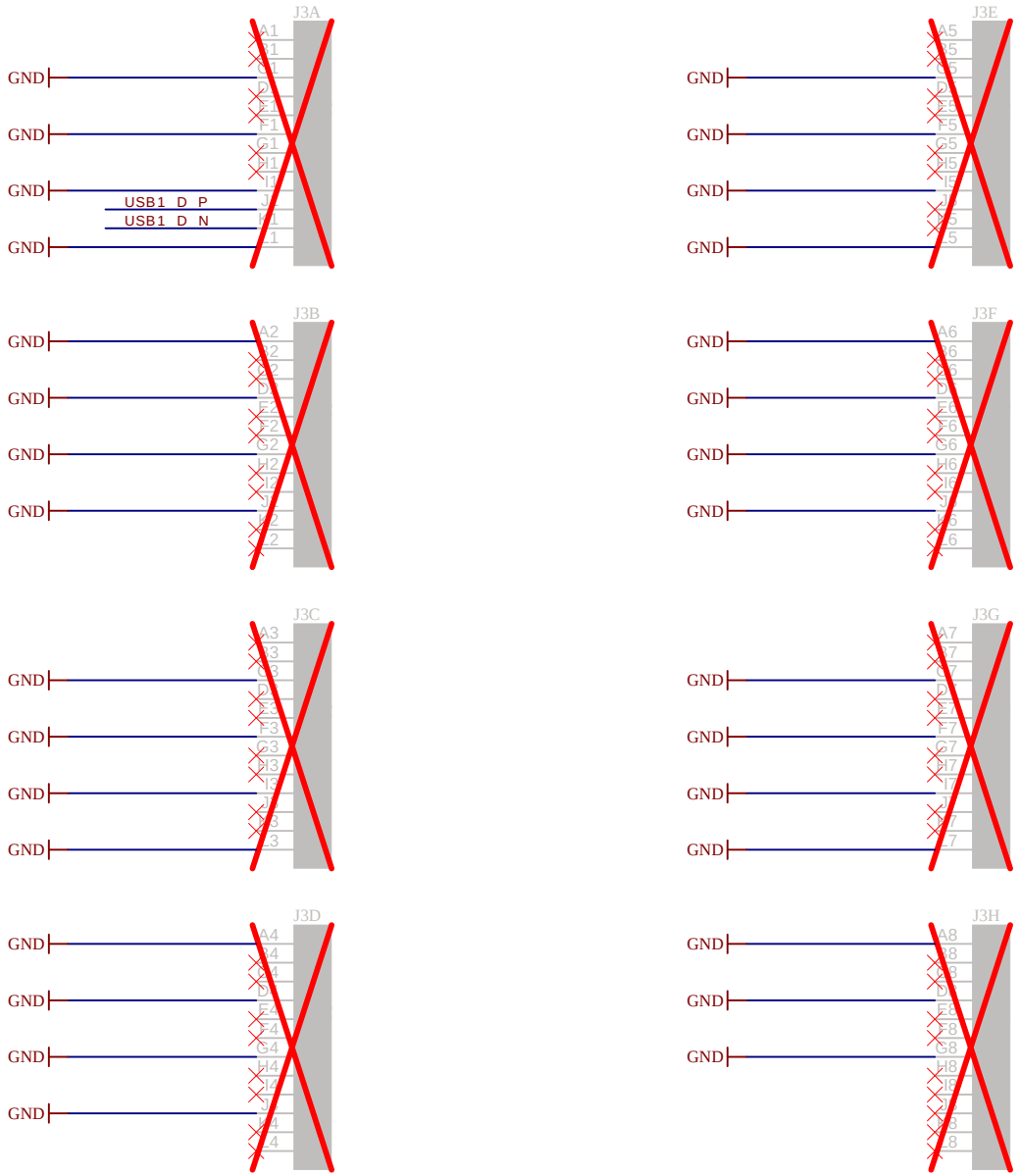
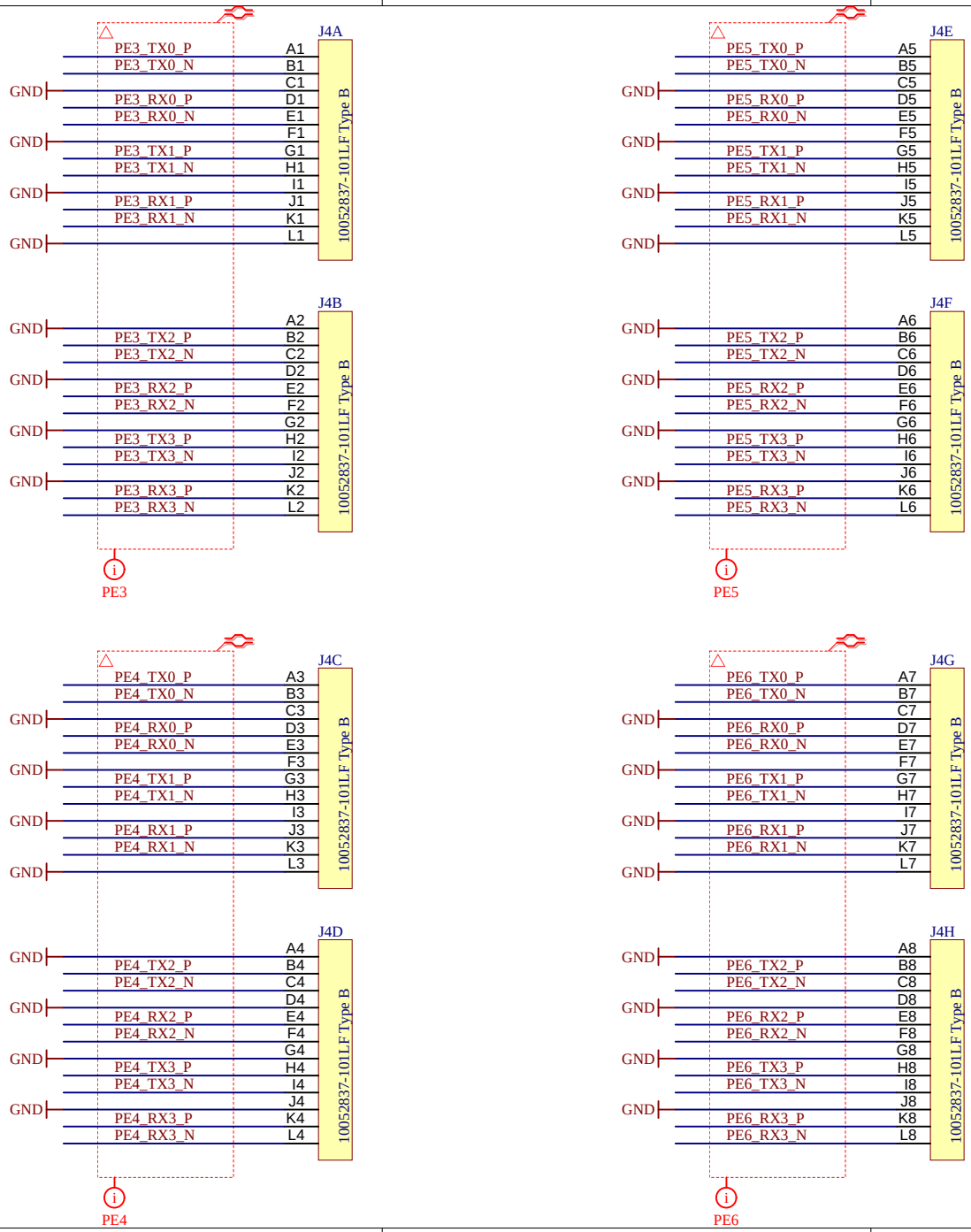
Title: TEC0850 - J1
A4
Number: TEC0850 BBEX1-B
Rev. 03
Date: 2018-10-22
Copyright: Trenz Electronic GmbH
Page3 of 33
Filename: J1.SchDoc



Title: TEC0850 - J2			
A4	Number: TEC0850 BBEX1-B		Rev. 03
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page4 of 33
Filename: J2.SchDoc			



Title: TEC0850 - J3			
A4	Number: TEC0850 BBEX1-B		Rev. 03
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page5 of 33
Filename: J3.SchDoc			



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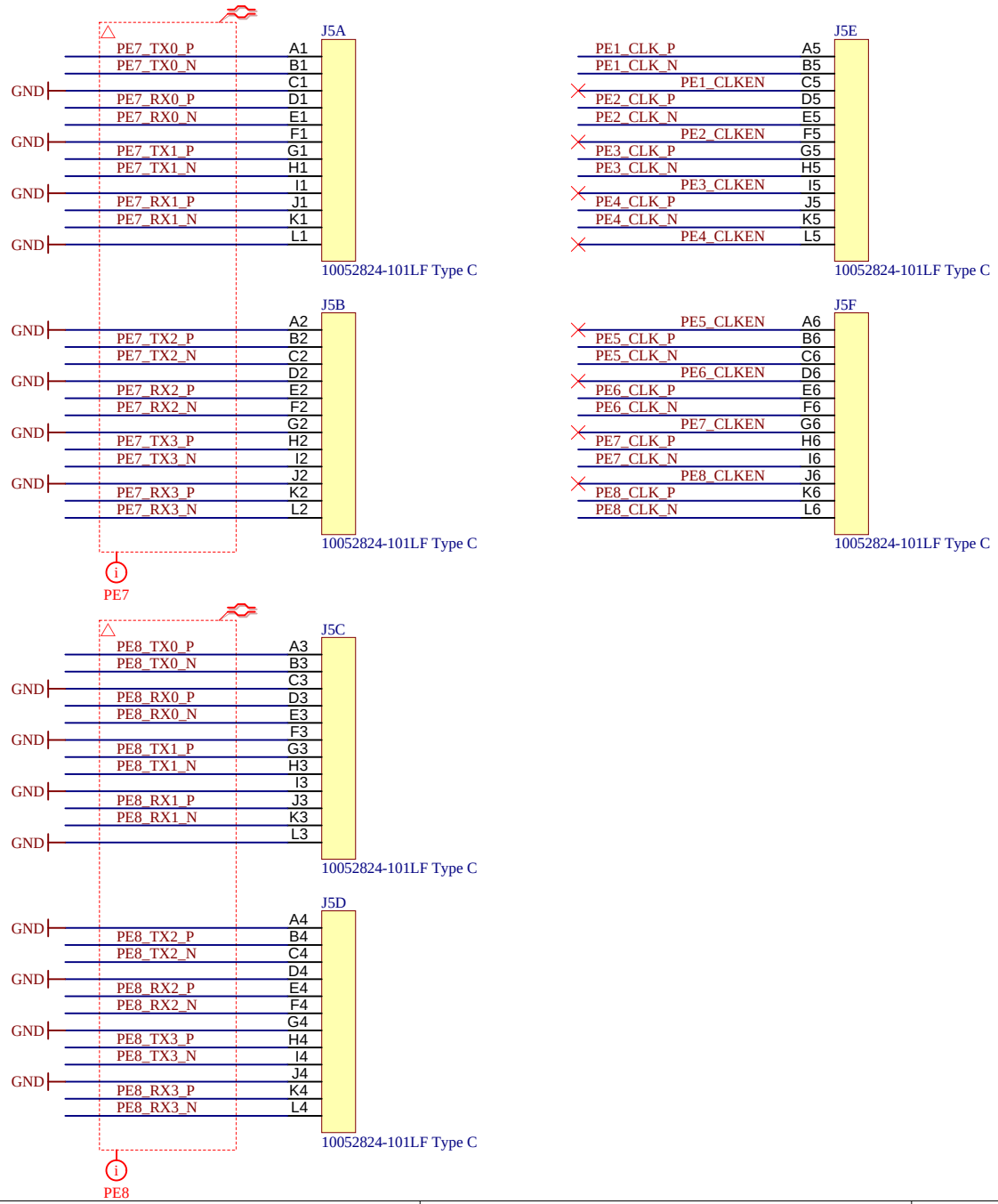
Title: TEC0850 - J4			
A4	Number: TEC0850 BBEX1-B		Rev. 03
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page6 of 33
Filename: J4.SchDoc			



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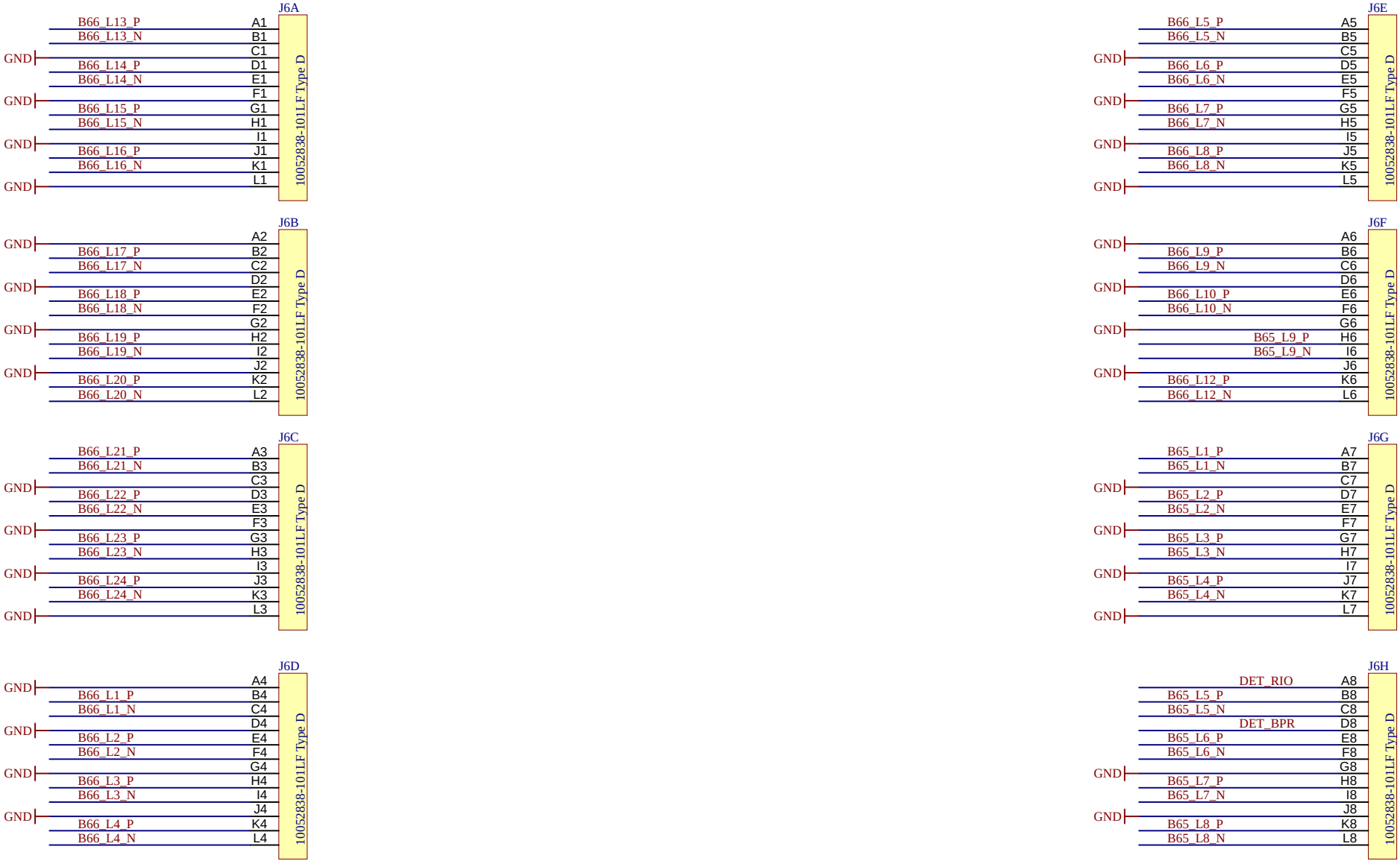
Title: TEC0850 - J5			
A4	Number: TEC0850 BBEX1-B		Rev. 03
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page7 of 33
Filename: J5.SchDoc			



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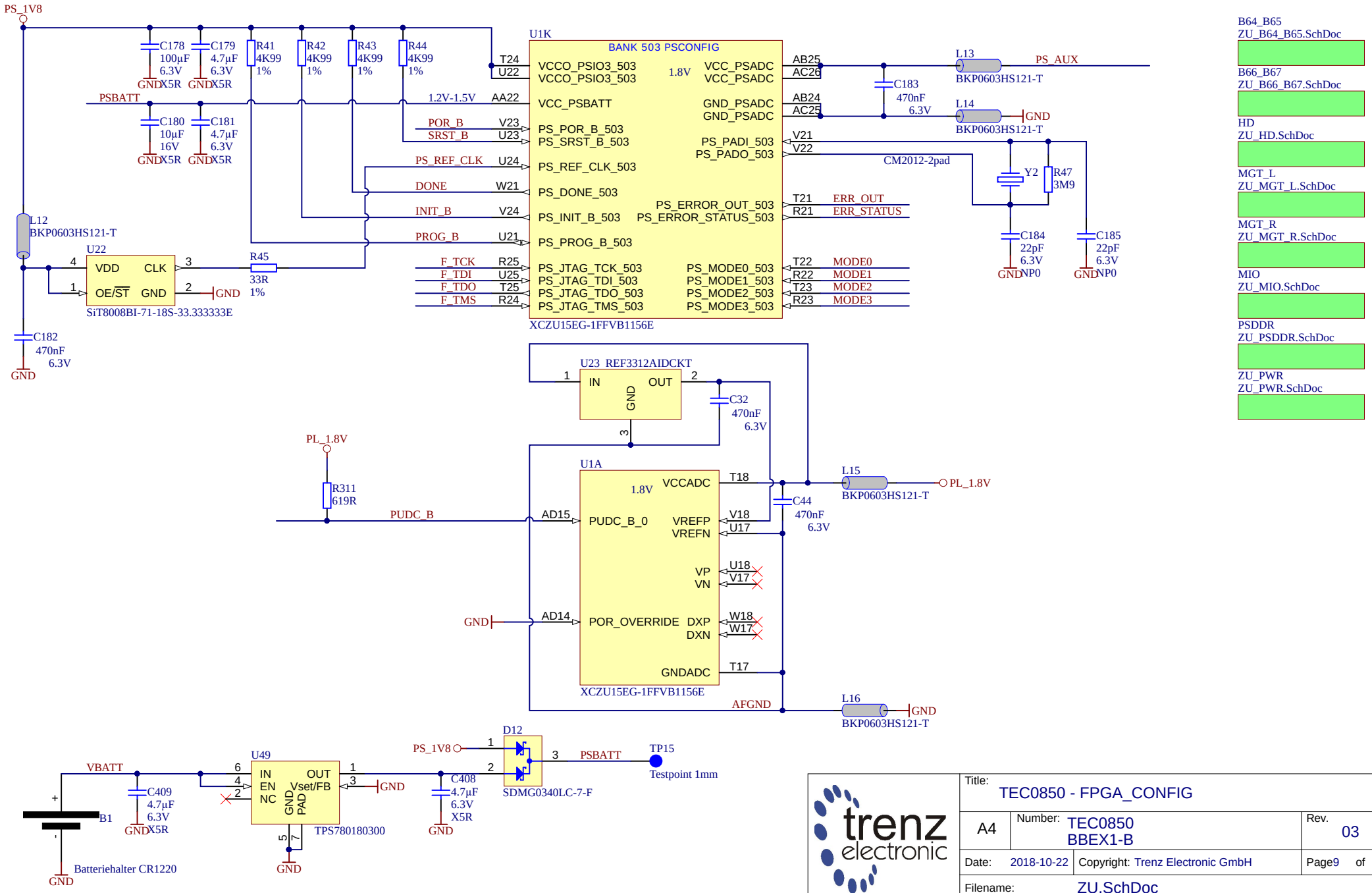
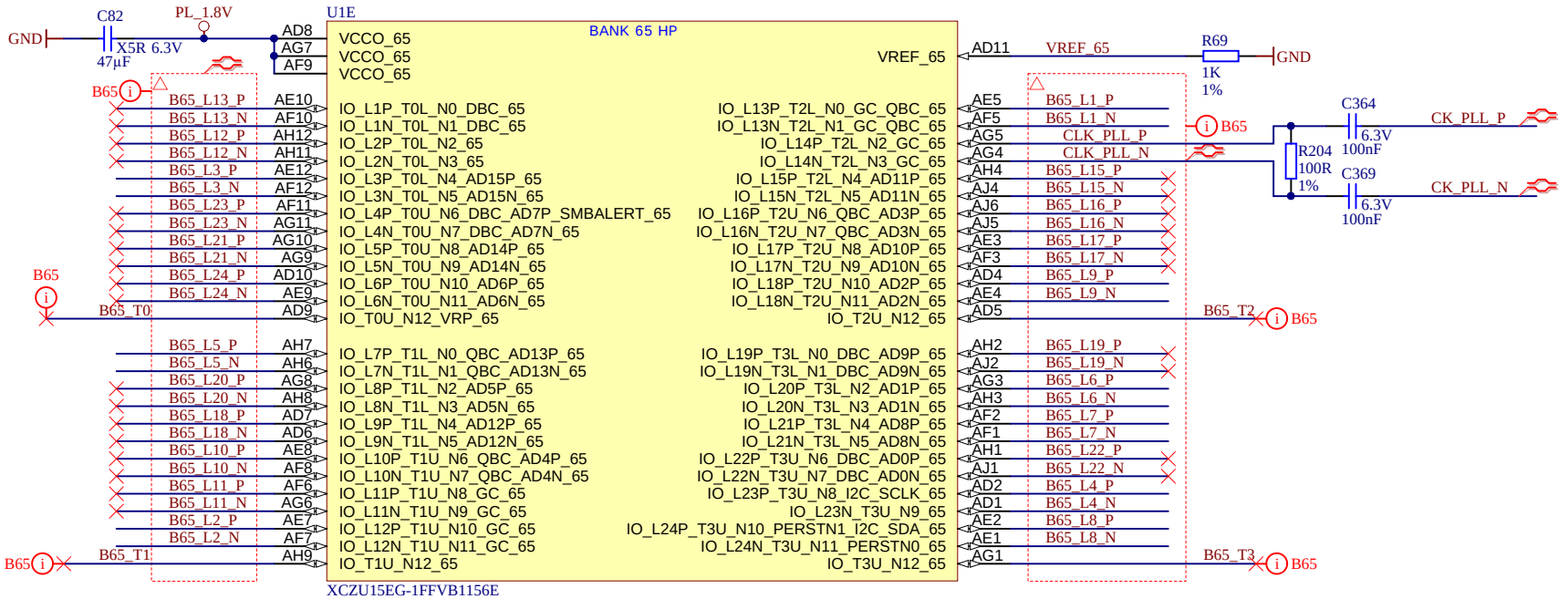
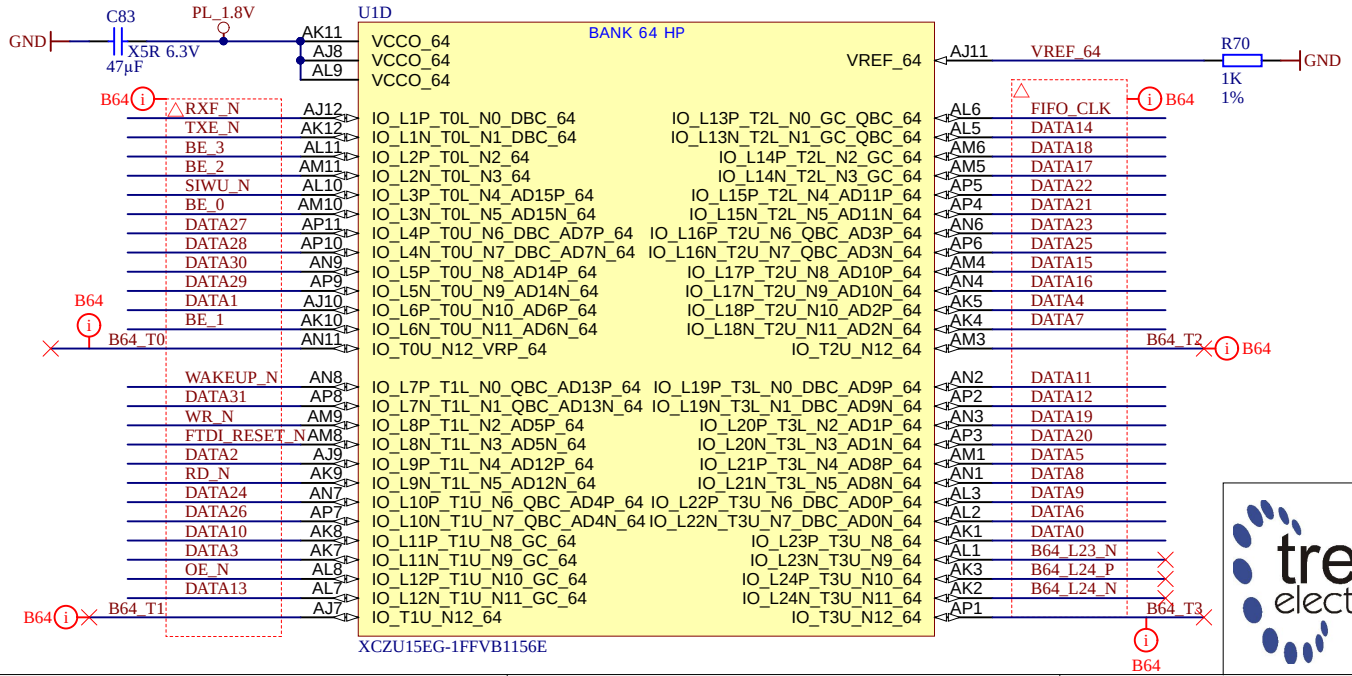
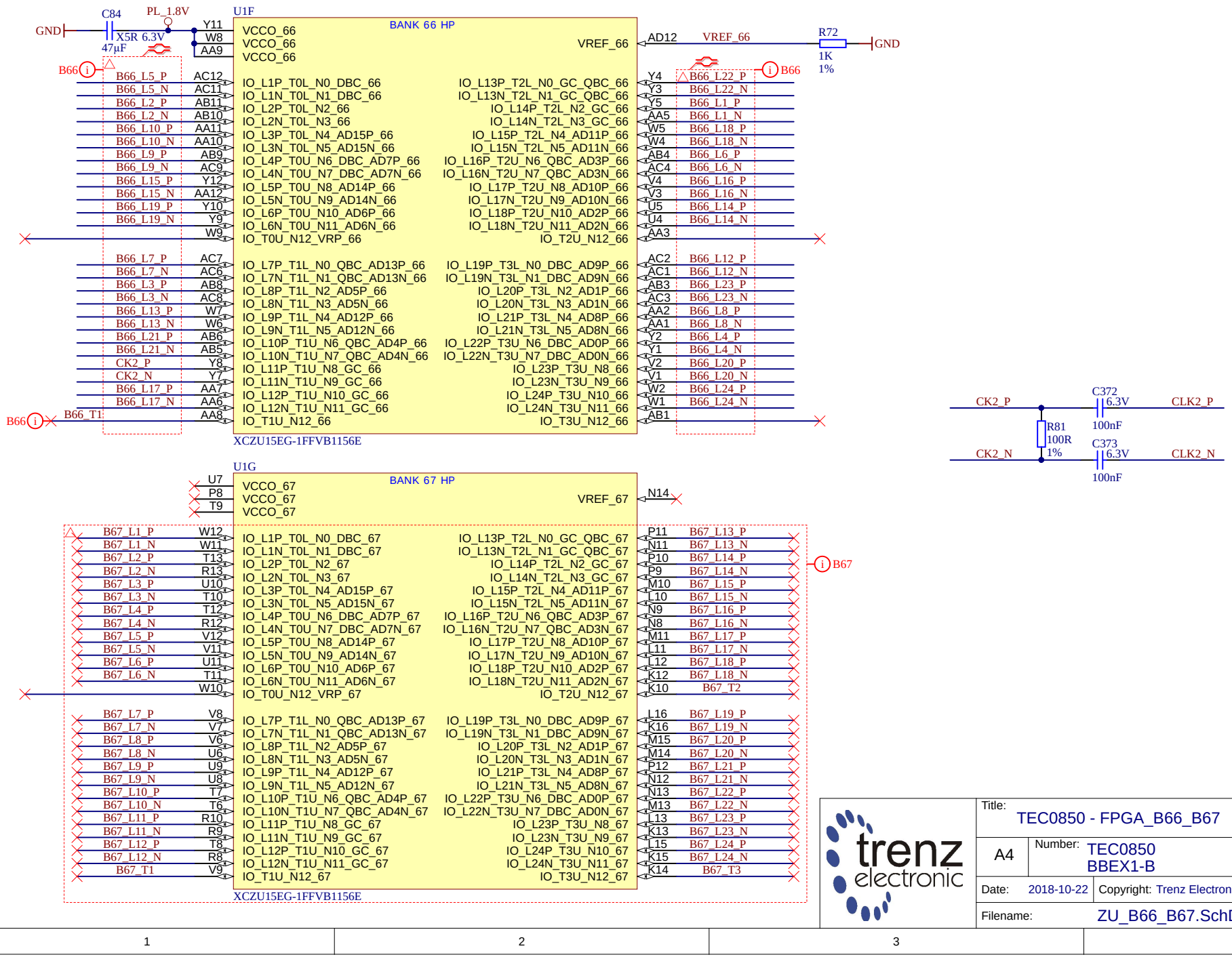
Title: TEC0850 - J6		
A4	Number: TEC0850 BBEX1-B	Rev. 03
Date: 2018-10-22	Copyright: Trenz Electronic GmbH	Page 8 of 33
Filename: J6.SchDoc		


PS_1V8
C178 100µF 6.3V X5R
C179 4.7µF 6.3V X5R
R41 4K99 1%
R42 4K99 1%
R43 4K99 1%
R44 4K99 1%
PSBATT
C180 10µF 16V X5R
C181 4.7µF 6.3V X5R
L12 BKP0603HS121-T
U22
VDD CLK OE/ST GND
SiT8008BI-71-18S-33.333333E
R45 33R 1%
C182 470nF 6.3V
U1K
BANK 503 PSCONFIG
VCCO_PSIO3_503
VCCO_PSIO3_503
1.8V
VCC_PSADC
VCC_PSADC
VCC_PSBATT
GND_PSADC
GND_PSADC
PS_POR_B_503
PS_SRST_B_503
PS_REF_CLK_503
PS_DONE_503
PS_INIT_B_503
PS_PADI_503
PS_PADO_503
PS_ERROR_OUT_503
PS_ERROR_STATUS_503
PS_PROG_B_503
PS_JTAG_TCK_503
PS_JTAG_TDI_503
PS_JTAG_TDO_503
PS_JTAG_TMS_503
PS_MODE0_503
PS_MODE1_503
PS_MODE2_503
PS_MODE3_503
XCZU15EG-1FFVB1156E
1.2V-1.5V
POR_B
SRST_B
PS_REF_CLK
DONE
INIT_B
PROG_B
F_TCK
F_TDI
F_TDO
F_TMS
ERR_OUT
ERR_STATUS
MODE0
MODE1
MODE2
MODE3
C183 470nF 6.3V
L13 BKP0603HS121-T
PS_AUX
L14 BKP0603HS121-T
GND
CM2012-2pad
Y2
R47 3M9
C184 22pF 6.3V NP0
C185 22pF 6.3V NP0
B64_B65
ZU_B64_B65.SchDoc
B66_B67
ZU_B66_B67.SchDoc
HD
ZU_HD.SchDoc
MGT_L
ZU_MGT_L.SchDoc
MGT_R
ZU_MGT_R.SchDoc
MIO
ZU_MIO.SchDoc
PSDDR
ZU_PSDDR.SchDoc
ZU_PWR
ZU_PWR.SchDoc
U23 REF3312AIDCKT
IN OUT GND
C32 470nF 6.3V
PL_1.8V
R311 619R
PUDC_B
U1A
1.8V
VCCADC
PUDC_B_0
VREFP
VREFN
VP
VN
POR_OVERRIDE
DXP
DXN
GNDADC
XCZU15EG-1FFVB1156E
AFGND
C44 470nF 6.3V
L15 BKP0603HS121-T
L16 BKP0603HS121-T
VBATT
B1
Batteriehalter CR1220
C409 4.7µF 6.3V X5R
U49
IN EN NC OUT Vset/FB GND PAD
TPS780180300
C408 4.7µF 6.3V X5R
D12
SDMG0340LC-7-F
TP15
Testpoint 1mm
trenz electronic
Title: TEC0850 - FPGA_CONFIG
A4
Number: TEC0850 BBEX1-B
Rev. 03
Date: 2018-10-22
Copyright: Trenz Electronic GmbH
Page9 of 33
Filename: ZU.SchDoc

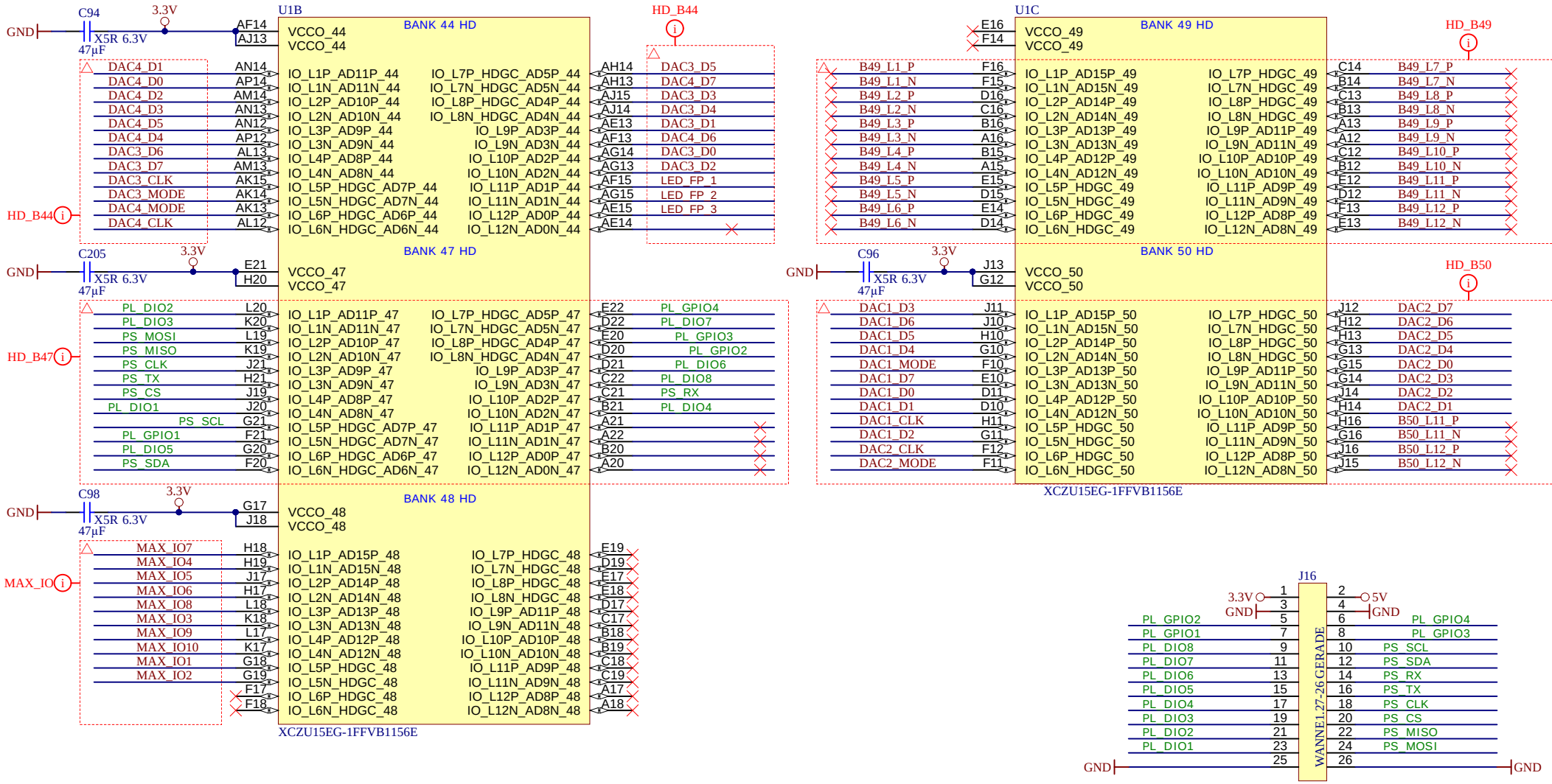




Title: TEC0850 - FPGA_B64_B65			
A4	Number: TEC0850 BBEX1-B		Rev. 03
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page10 of 33
Filename: ZU_B64_B65.SchDoc			



Title:	TEC0850 - FPGA_B66_B67
A4	Number: TEC0850 BBEX1-B
	Rev. 03
Date: 2018-10-22	Copyright: Trenz Electronic GmbH
	Page11 of 33
Filename:	ZU_B66_B67.SchDoc


U1B
BANK 44 HD
VCCO_44
VCCO_44
BANK 47 HD
VCCO_47
VCCO_47
BANK 48 HD
VCCO_48
VCCO_48
XCZU15EG-1FFVB1156E
U1C
BANK 49 HD
VCCO_49
VCCO_49
BANK 50 HD
VCCO_50
VCCO_50
XCZU15EG-1FFVB1156E
C94
C205
C96
C98
X5R 6.3V
47µF
3.3V
GND
HD_B44
HD_B47
HD_B49
HD_B50
MAX_IO
J16
WANNE1.27-26 GERADE
5V
Title: TEC0850 - FPGA_HD
A4
Number: TEC0850 BBEX1-B
Rev. 03
Date: 2018-10-22
Copyright: Trenz Electronic GmbH
Page12 of 33
Filename: ZU_HD.SchDoc
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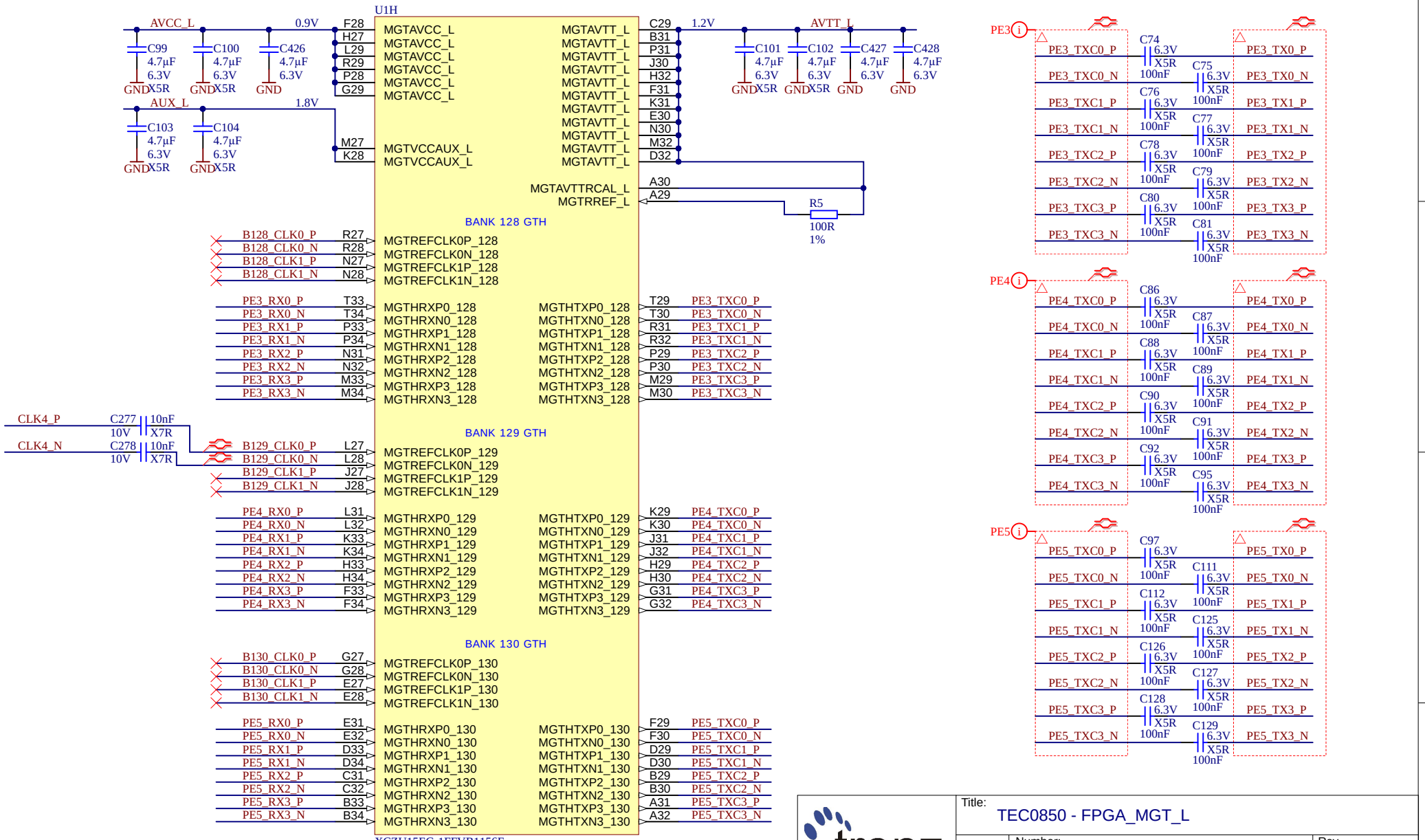
U1H
AVCC_L
0.9V
AUX_L
1.8V
AVTT_L
1.2V
MGTAVCC_L
MGTAVTT_L
MGTVCCAUX_L
MGTAVTTRCAL_L
MGTRREF_L
R5
100R
1%
BANK 128 GTH
MGTREFCLK0P_128
MGTREFCLK0N_128
MGTREFCLK1P_128
MGTREFCLK1N_128
MGTHRXP0_128
MGTHRXN0_128
MGTHRXP1_128
MGTHRXN1_128
MGTHRXP2_128
MGTHRXN2_128
MGTHRXP3_128
MGTHRXN3_128
MGTHTXP0_128
MGTHTXN0_128
MGTHTXP1_128
MGTHTXN1_128
MGTHTXP2_128
MGTHTXN2_128
MGTHTXP3_128
MGTHTXN3_128
BANK 129 GTH
MGTREFCLK0P_129
MGTREFCLK0N_129
MGTREFCLK1P_129
MGTREFCLK1N_129
MGTHRXP0_129
MGTHRXN0_129
MGTHRXP1_129
MGTHRXN1_129
MGTHRXP2_129
MGTHRXN2_129
MGTHRXP3_129
MGTHRXN3_129
MGTHTXP0_129
MGTHTXN0_129
MGTHTXP1_129
MGTHTXN1_129
MGTHTXP2_129
MGTHTXN2_129
MGTHTXP3_129
MGTHTXN3_129
BANK 130 GTH
MGTREFCLK0P_130
MGTREFCLK0N_130
MGTREFCLK1P_130
MGTREFCLK1N_130
MGTHRXP0_130
MGTHRXN0_130
MGTHRXP1_130
MGTHRXN1_130
MGTHRXP2_130
MGTHRXN2_130
MGTHRXP3_130
MGTHRXN3_130
MGTHTXP0_130
MGTHTXN0_130
MGTHTXP1_130
MGTHTXN1_130
MGTHTXP2_130
MGTHTXN2_130
MGTHTXP3_130
MGTHTXN3_130
XCZU15EG-1FFVB1156E
CLK4_P
CLK4_N
PE3
PE4
PE5
Title: TEC0850 - FPGA_MGT_L
A4
Number: TEC0850 BBEX1-B
Rev. 03
Date: 2018-10-22
Copyright: Trenz Electronic GmbH
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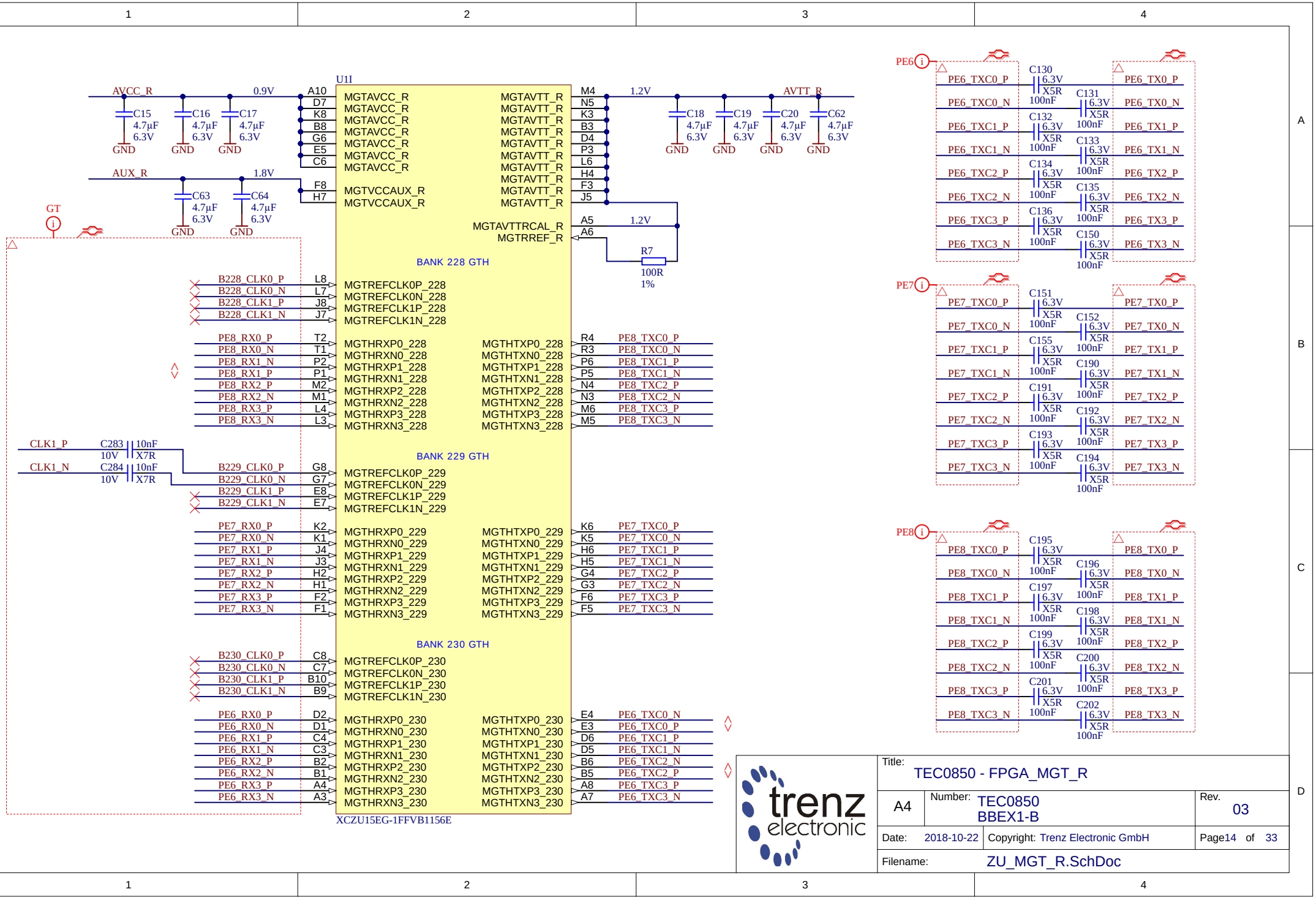
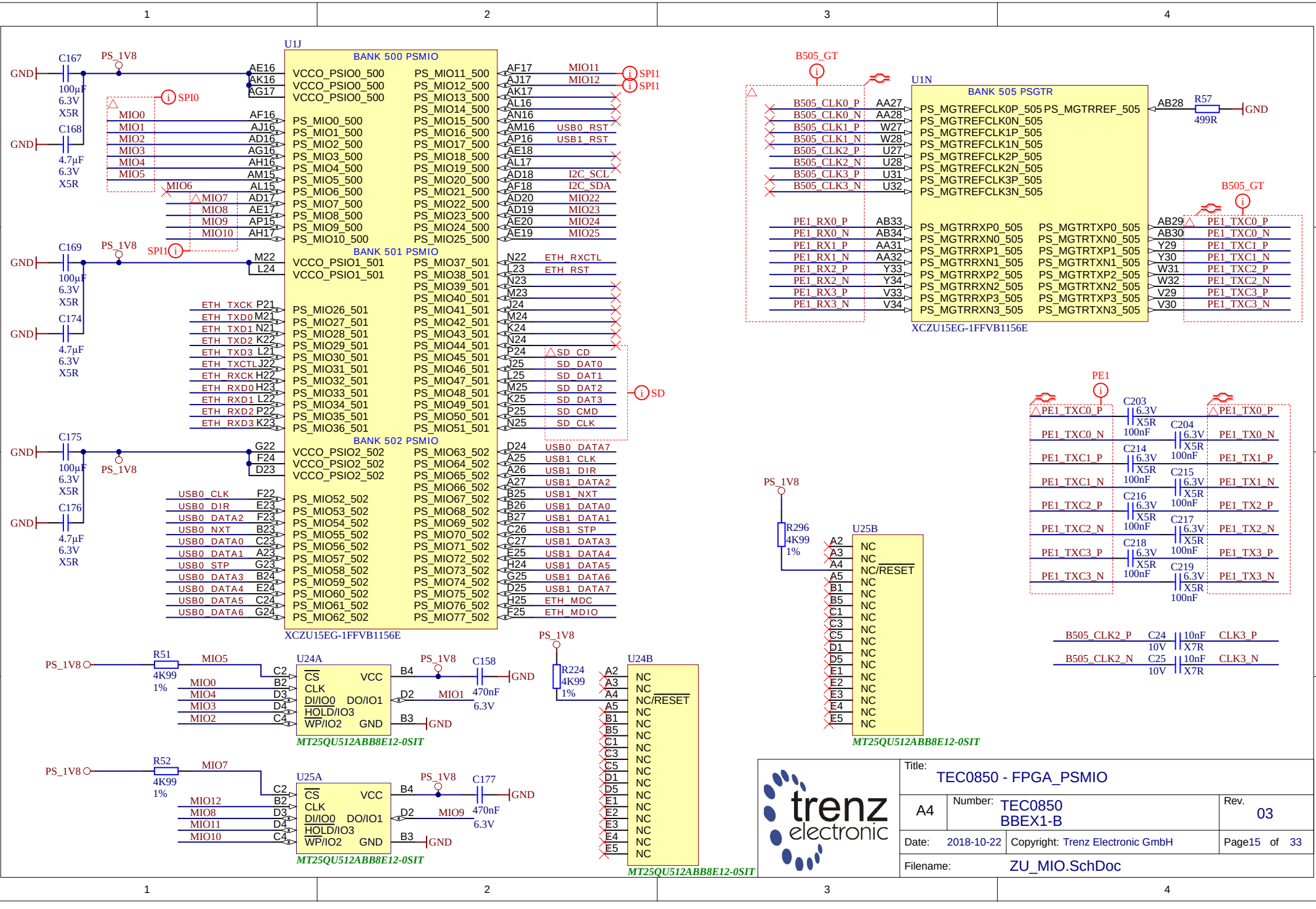
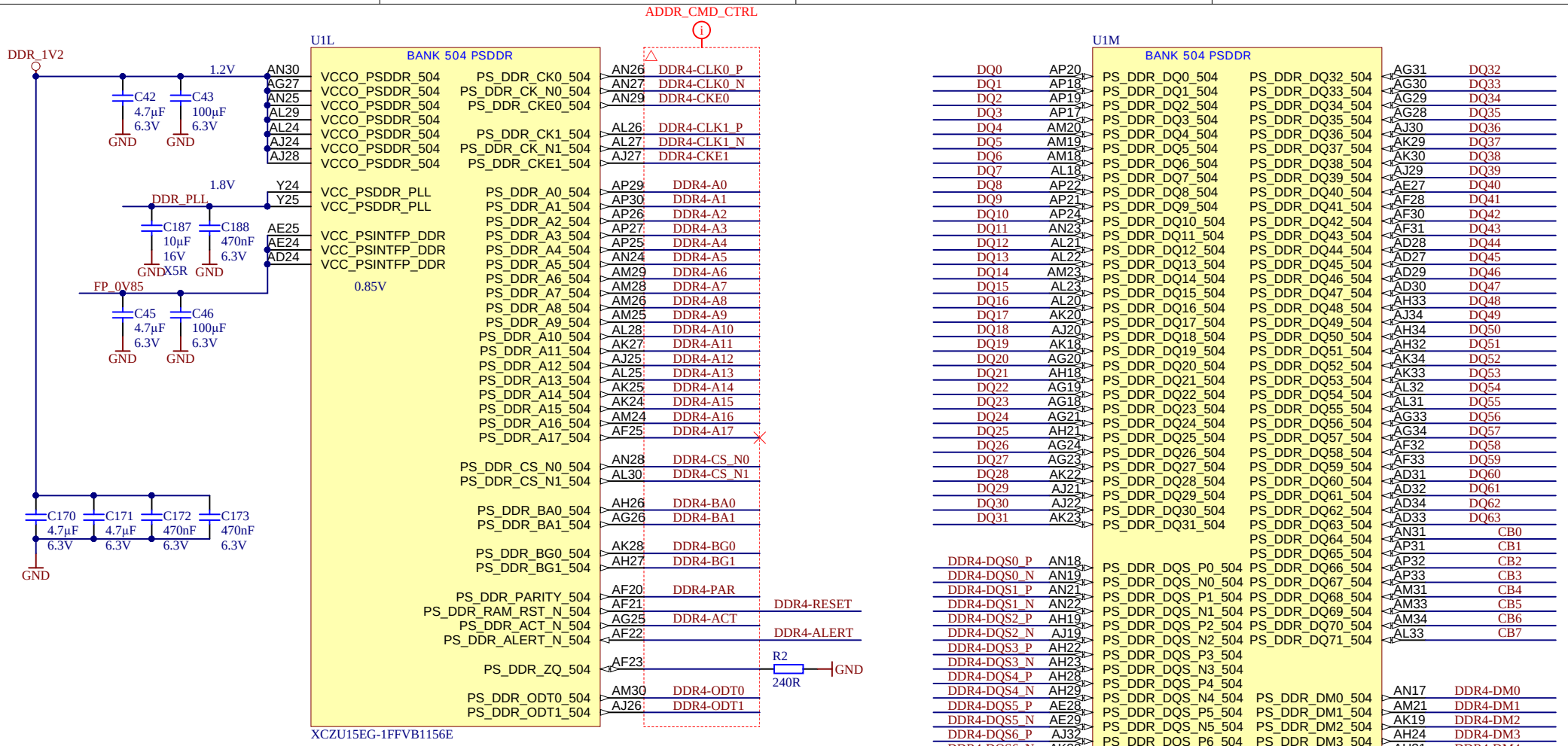
Filename: ZU_MGT_L.SchDoc


U1I
AVCC_R
0.9V
AUX_R
1.8V
GT
AVTT_R
1.2V
MGTAVCC_R
MGTVCCAUX_R
MGTAVTT_R
MGTAVTTRCAL_R
MGTRREF_R
R7
100R
1%
BANK 228 GTH
MGTREFCLK0P_228
MGTREFCLK0N_228
MGTREFCLK1P_228
MGTREFCLK1N_228
MGTHRXP0_228
MGTHRXN0_228
MGTHRXP1_228
MGTHRXN1_228
MGTHRXP2_228
MGTHRXN2_228
MGTHRXP3_228
MGTHRXN3_228
MGTHTXP0_228
MGTHTXN0_228
MGTHTXP1_228
MGTHTXN1_228
MGTHTXP2_228
MGTHTXN2_228
MGTHTXP3_228
MGTHTXN3_228
BANK 229 GTH
MGTREFCLK0P_229
MGTREFCLK0N_229
MGTREFCLK1P_229
MGTREFCLK1N_229
MGTHRXP0_229
MGTHRXN0_229
MGTHRXP1_229
MGTHRXN1_229
MGTHRXP2_229
MGTHRXN2_229
MGTHRXP3_229
MGTHRXN3_229
MGTHTXP0_229
MGTHTXN0_229
MGTHTXP1_229
MGTHTXN1_229
MGTHTXP2_229
MGTHTXN2_229
MGTHTXP3_229
MGTHTXN3_229
BANK 230 GTH
MGTREFCLK0P_230
MGTREFCLK0N_230
MGTREFCLK1P_230
MGTREFCLK1N_230
MGTHRXP0_230
MGTHRXN0_230
MGTHRXP1_230
MGTHRXN1_230
MGTHRXP2_230
MGTHRXN2_230
MGTHRXP3_230
MGTHRXN3_230
MGTHTXP0_230
MGTHTXN0_230
MGTHTXP1_230
MGTHTXN1_230
MGTHTXP2_230
MGTHTXN2_230
MGTHTXP3_230
MGTHTXN3_230
XCZU15EG-1FFVB1156E
PE6
PE7
PE8
Title: TEC0850 - FPGA_MGT_R
A4
Number: TEC0850 BBEX1-B
Rev. 03
Date: 2018-10-22
Copyright: Trenz Electronic GmbH
Page14 of 33
Filename: ZU_MGT_R.SchDoc


U1J
BANK 500 PSMIO
BANK 501 PSMIO
BANK 502 PSMIO
XCZU15EG-1FFVB1156E
U1N
BANK 505 PSGTR
XCZU15EG-1FFVB1156E
U24A
U24B
U25A
U25B
MT25QU512ABB8E12-0SIT
PS_1V8
GND
B505_GT
PE1
SPI0
SPI1
SD
C167
C168
C169
C174
C175
C176
C158
C177
C203
C204
C214
C215
C216
C217
C218
C219
C24
C25
R51
R52
R57
R224
R296
TEC0850 - FPGA_PSMIO
A4
TEC0850
BBEX1-B
03
2018-10-22
Copyright: Trenz Electronic GmbH
Page15 of 33
ZU_MIO.SchDoc



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Rev.	03
Date: 2018-10-22	Copyright: Trenz Electronic GmbH
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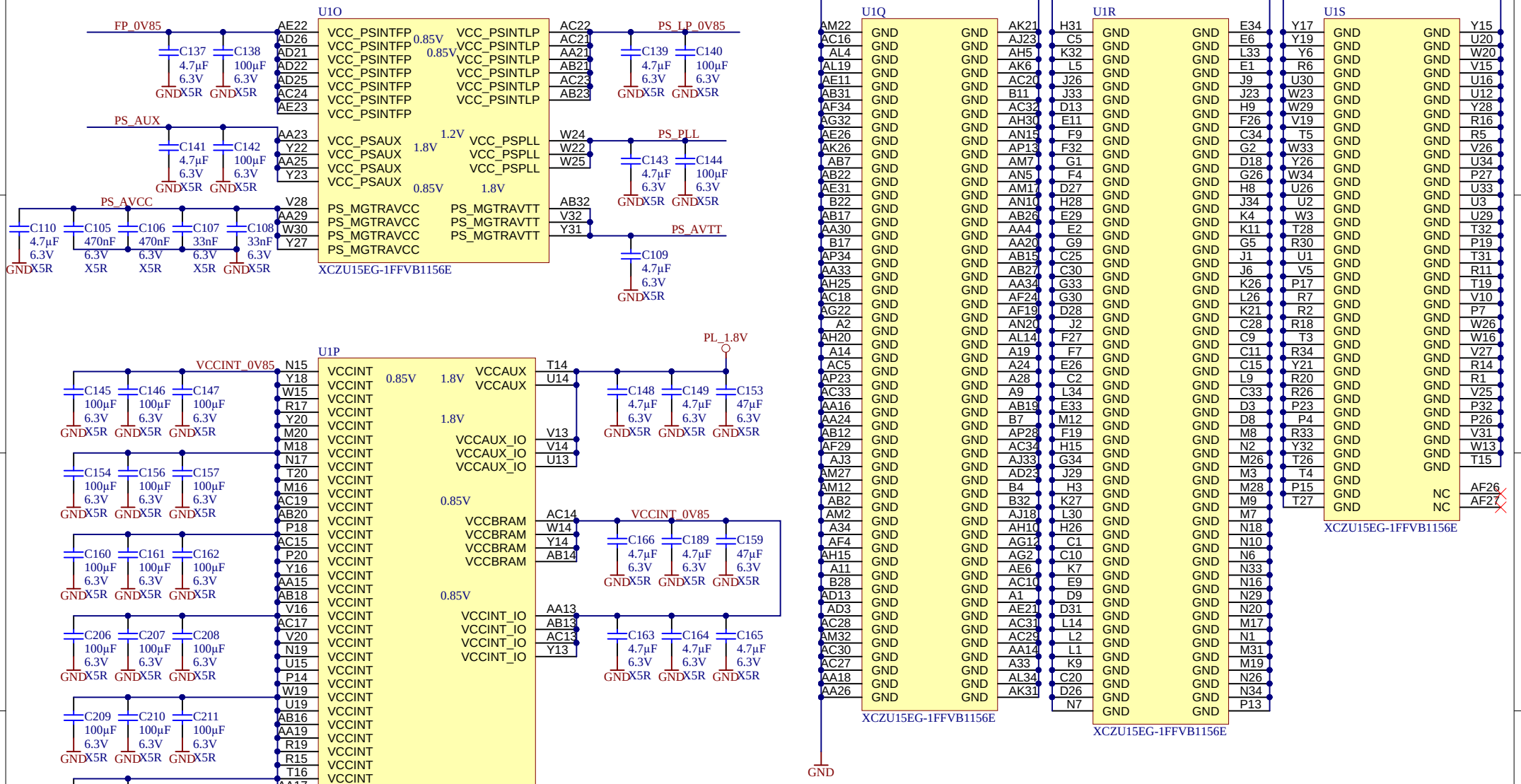

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Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page17 of 33
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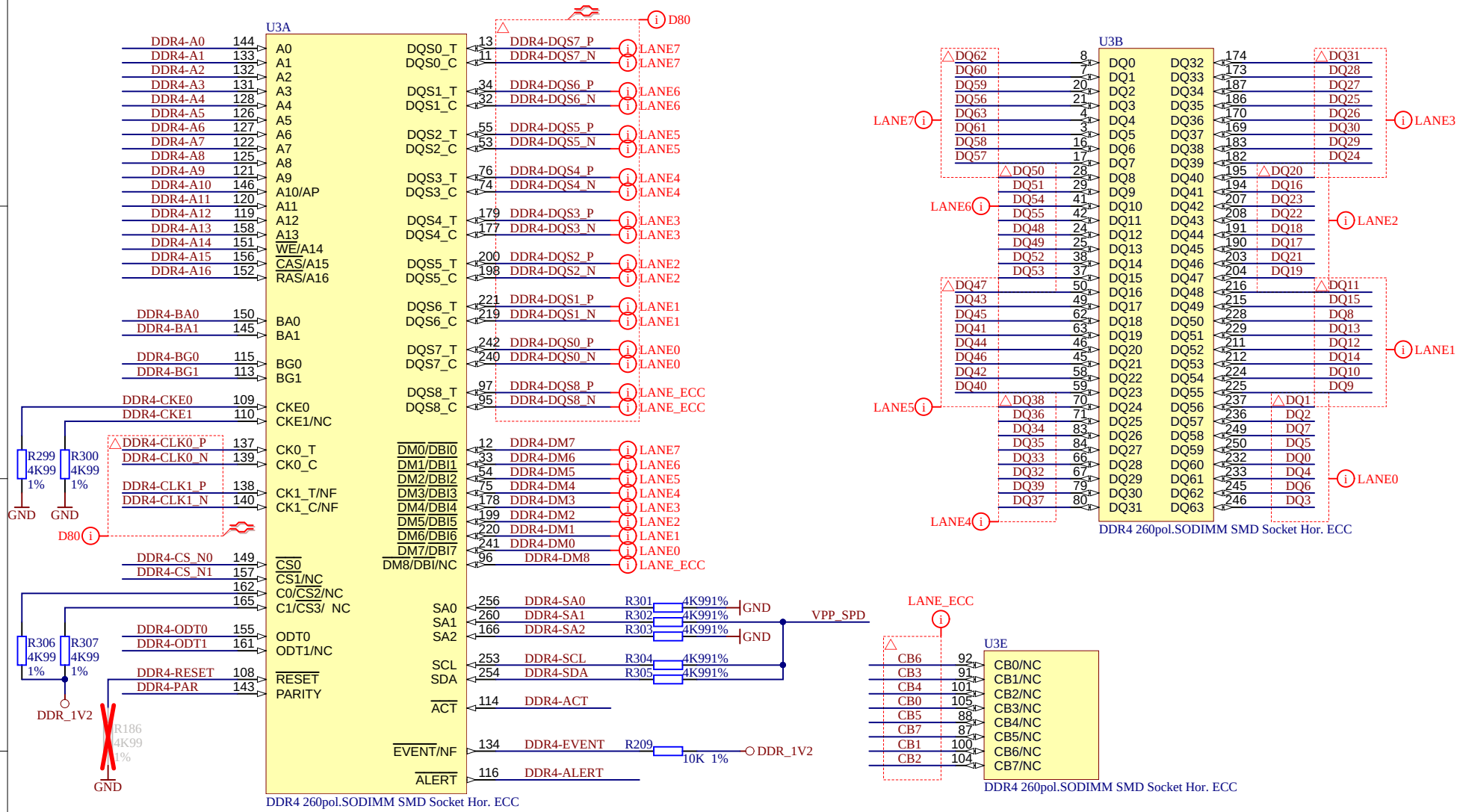

trenz electronic	Title: TEC0850 - DDR4 SODIMM		
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	Date: 2018-10-22	Copyright: Trenz Electronic GmbH	Page18 of 33
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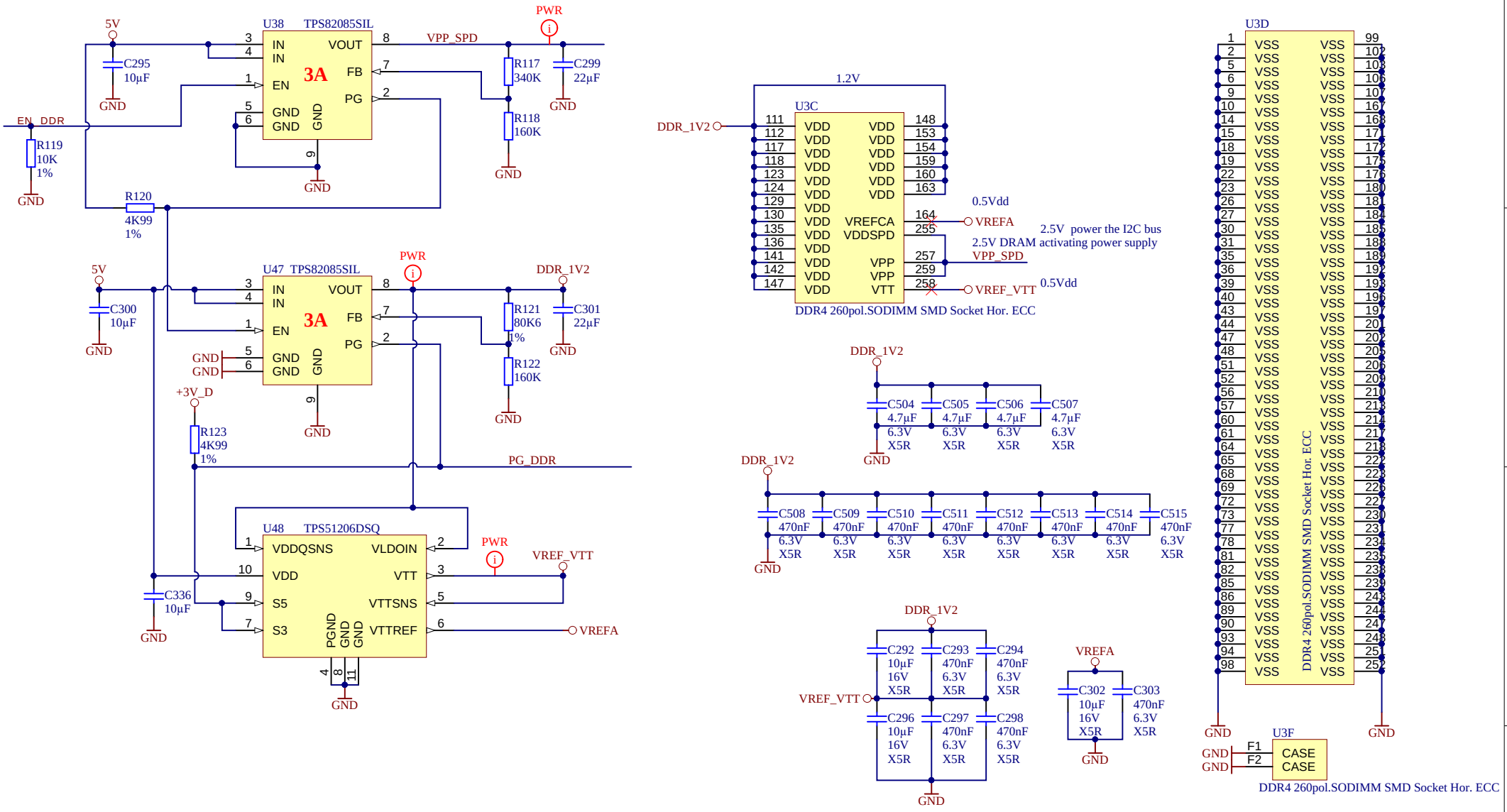

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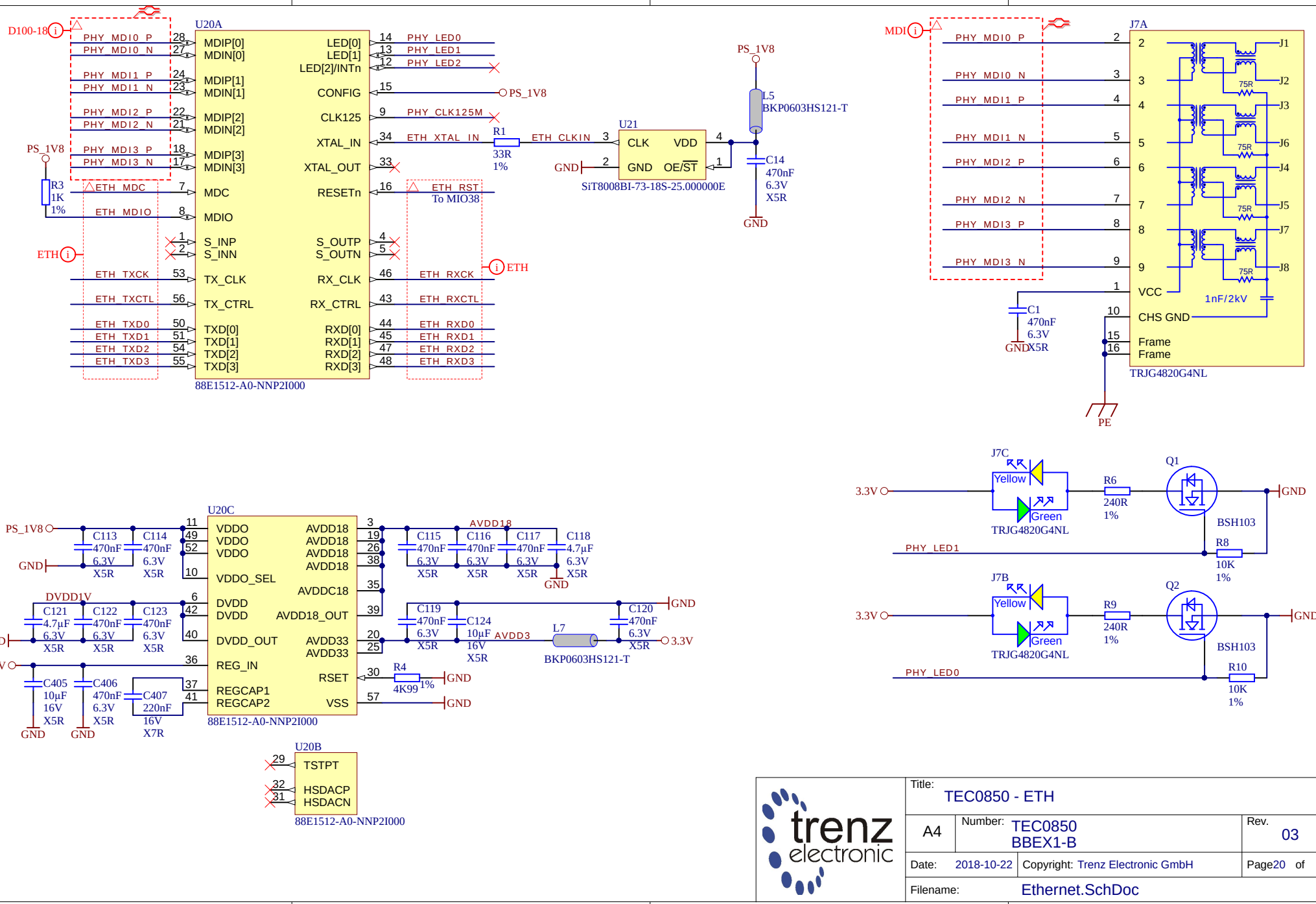

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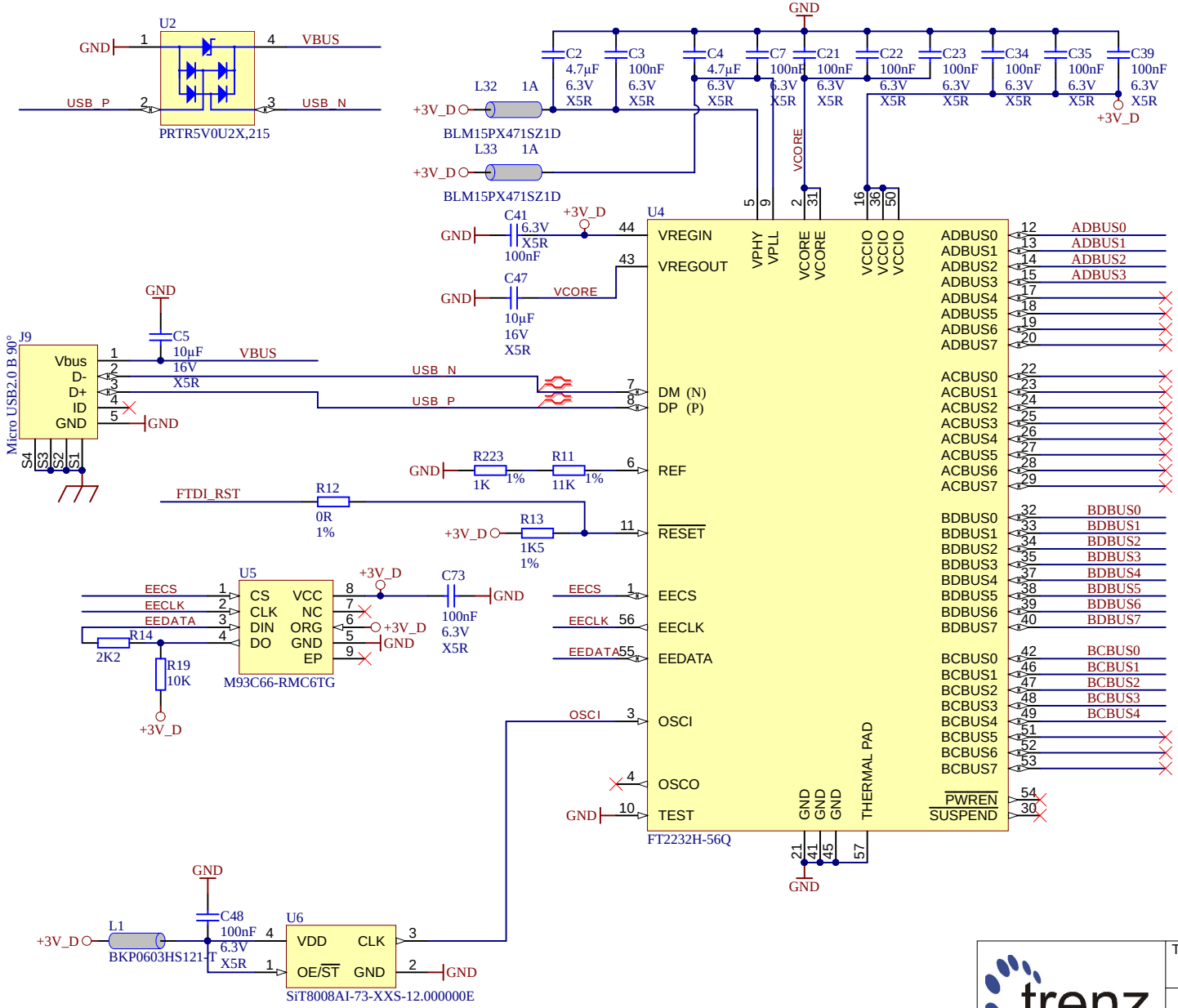
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page20 of 33
Filename: Ethernet.SchDoc			



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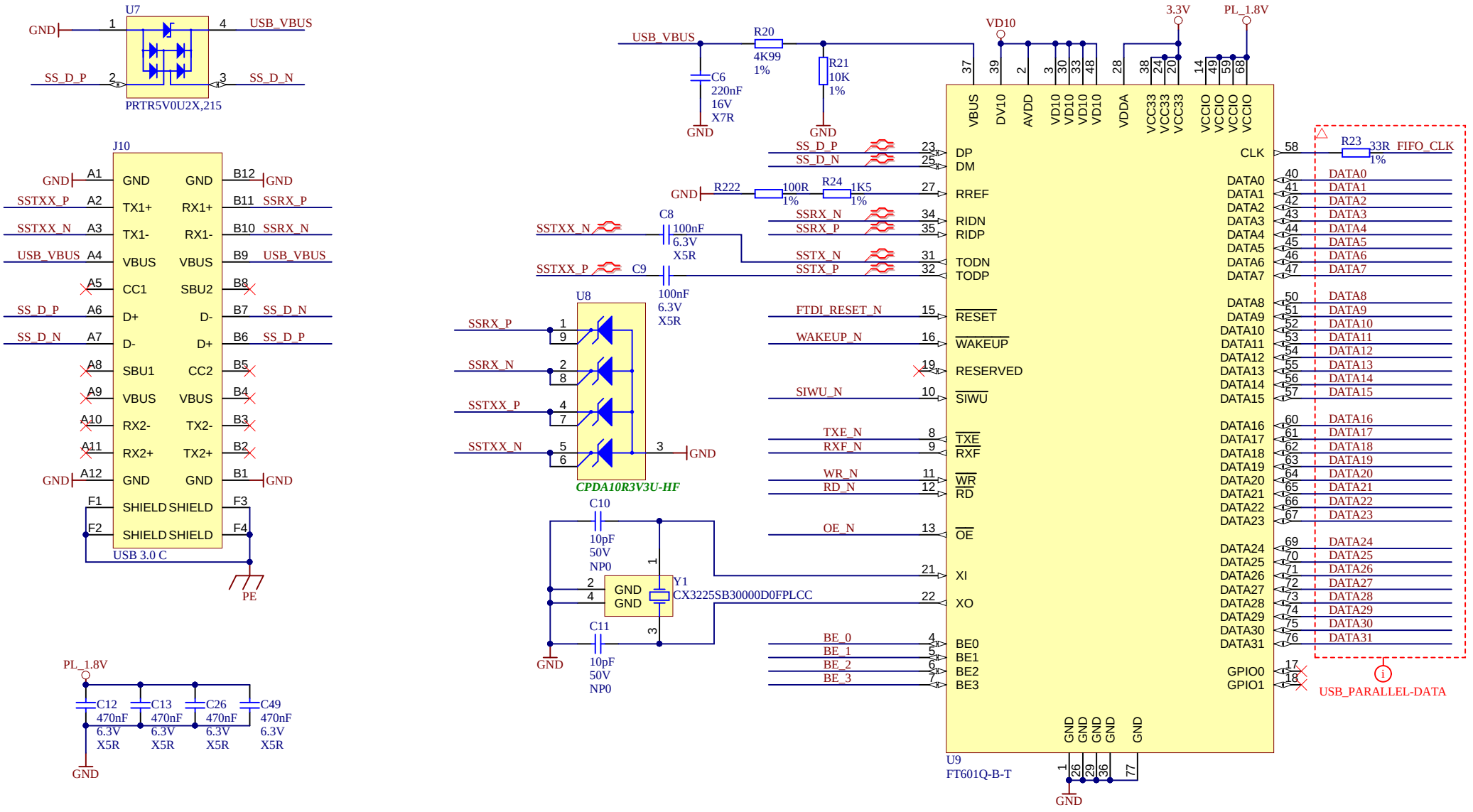
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page21 of 33
Filename: FTDI.SchDoc			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U9
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Number: TEC0850 BBEX1-B
Rev. 03
Date: 2018-10-22
Copyright: Trenz Electronic GmbH
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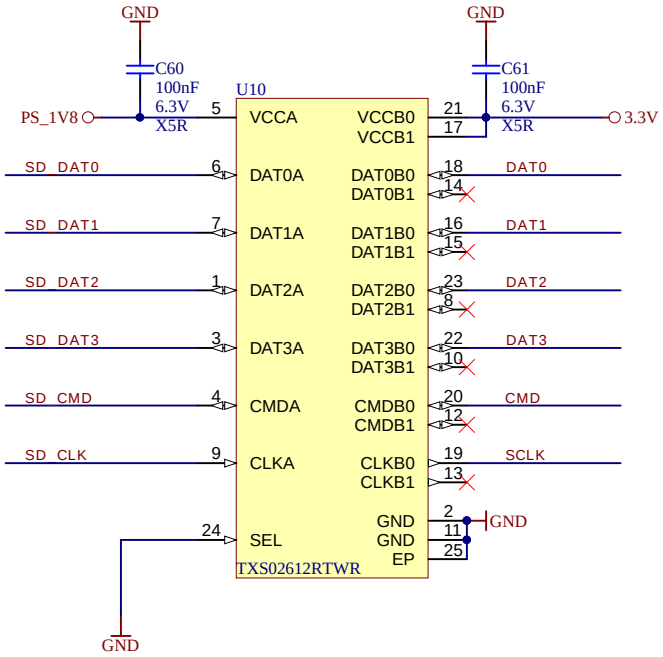

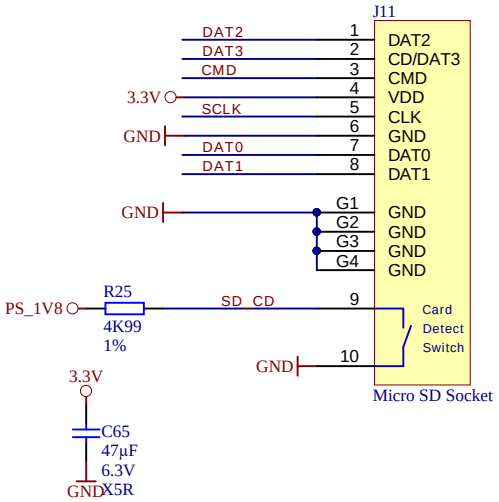

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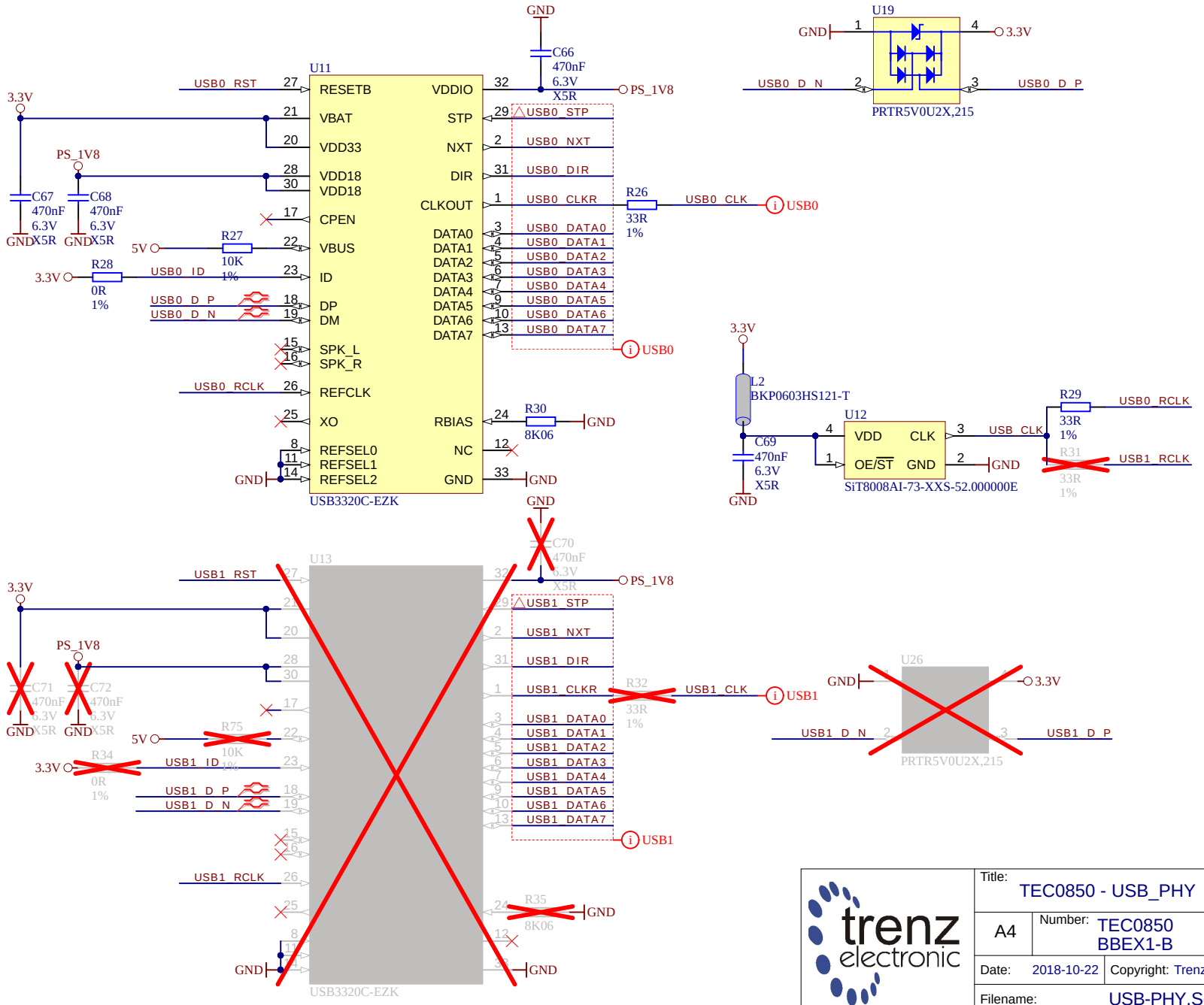
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page23 of 33
Filename: SDCard.SchDoc			



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Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page24 of 33
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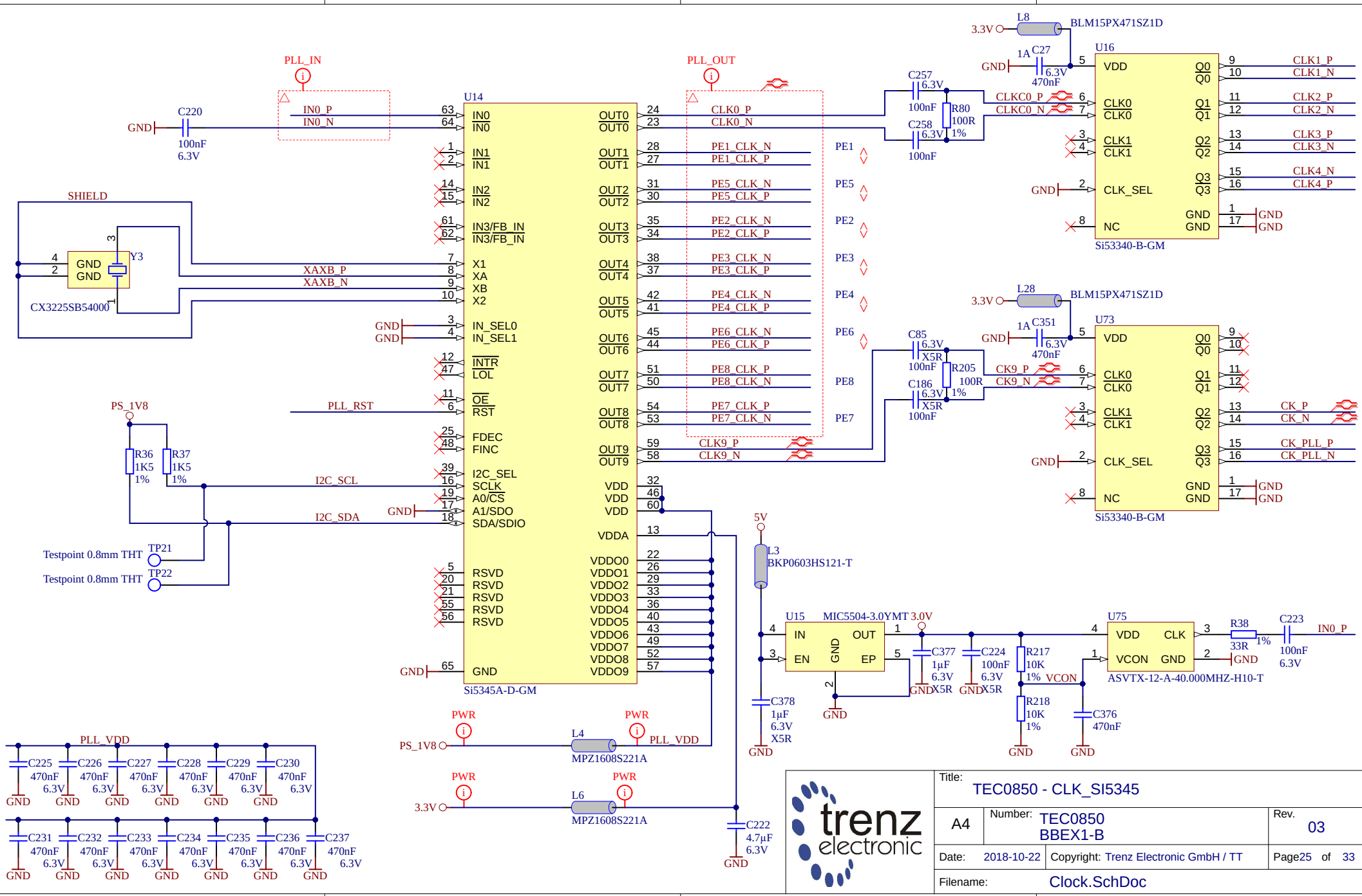

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Date: 2018-10-22	Copyright: Trenz Electronic GmbH / TT		Page25 of 33
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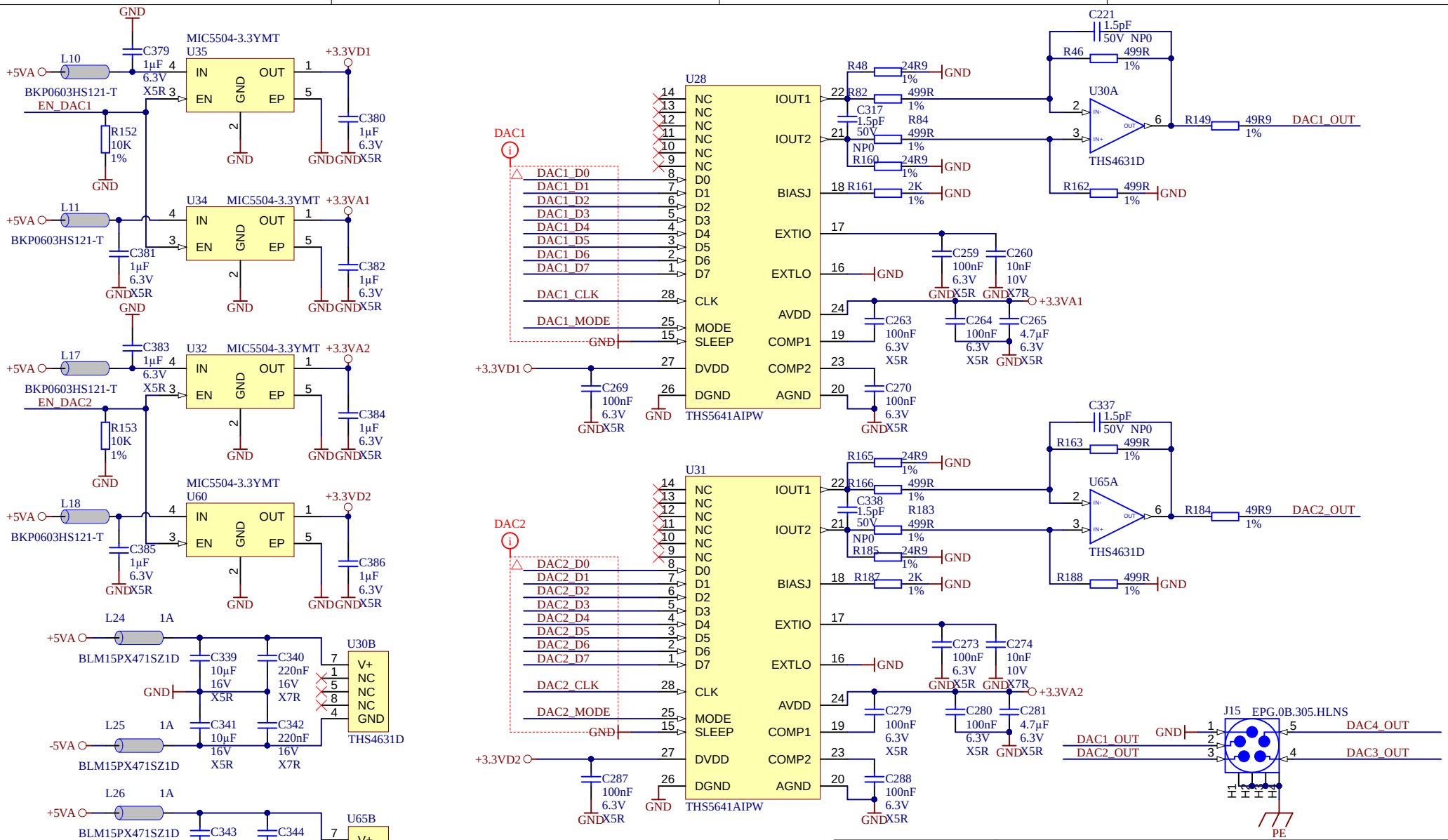

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Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page26 of 33
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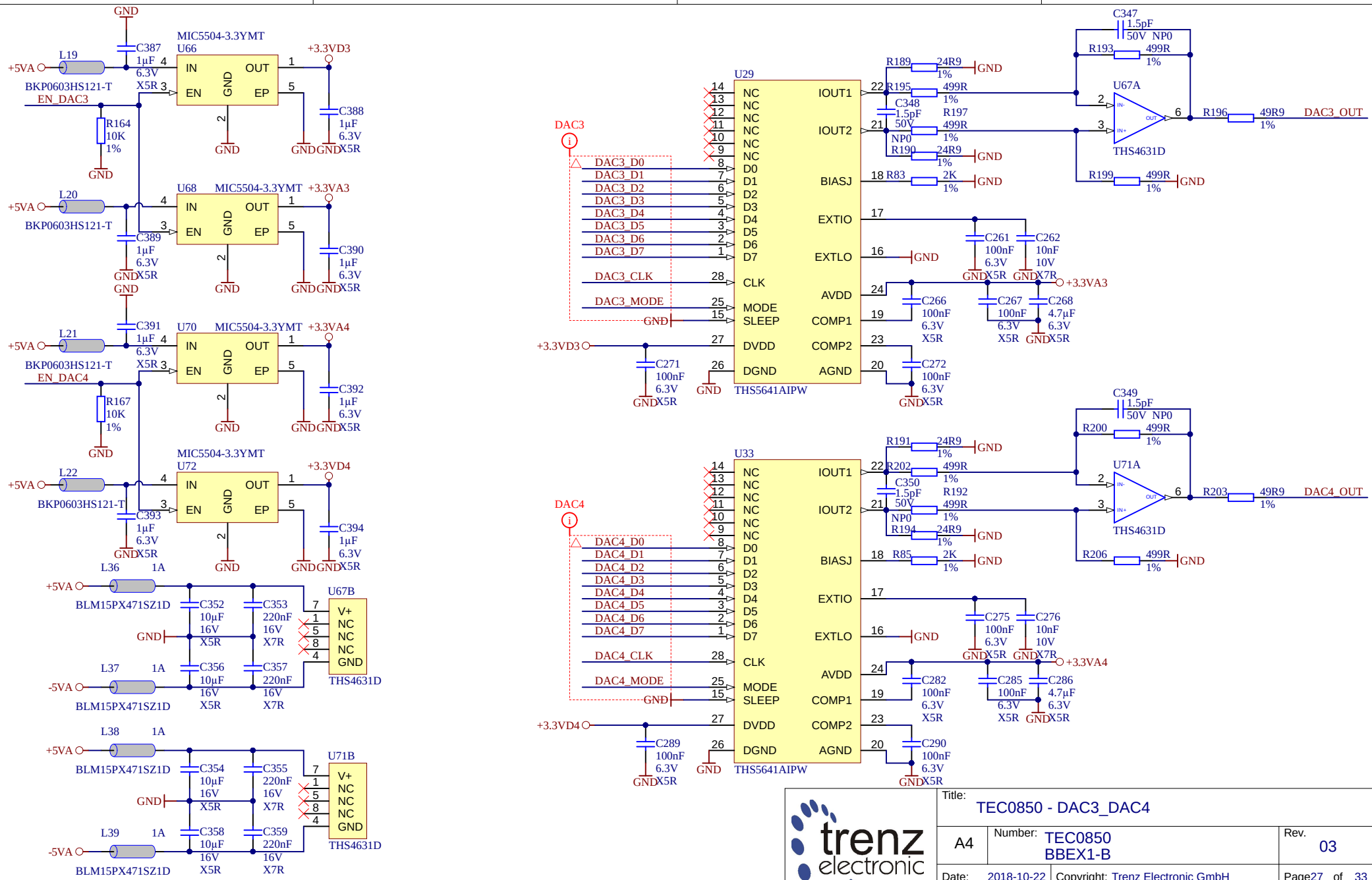

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Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page27 of 33
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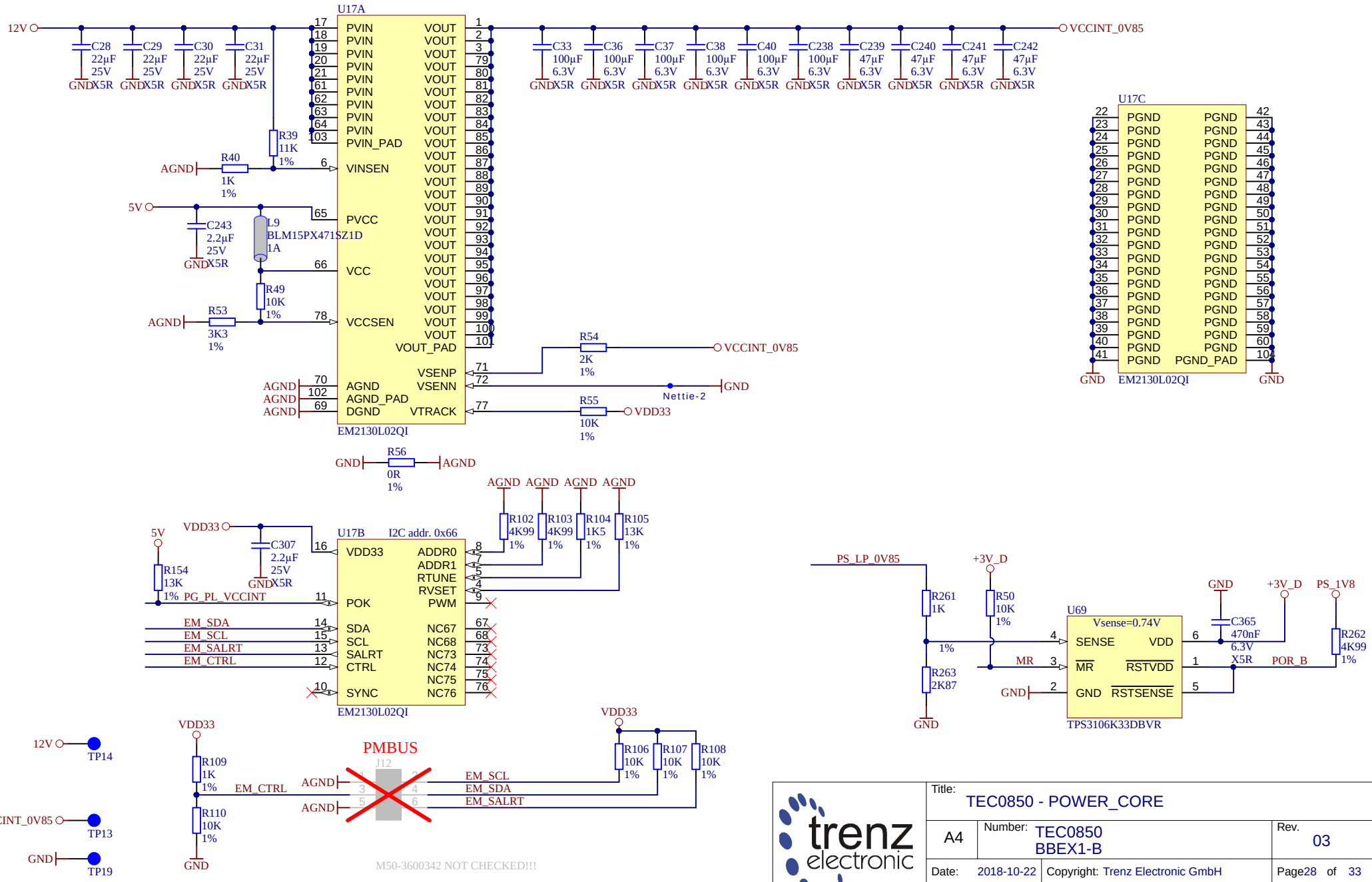

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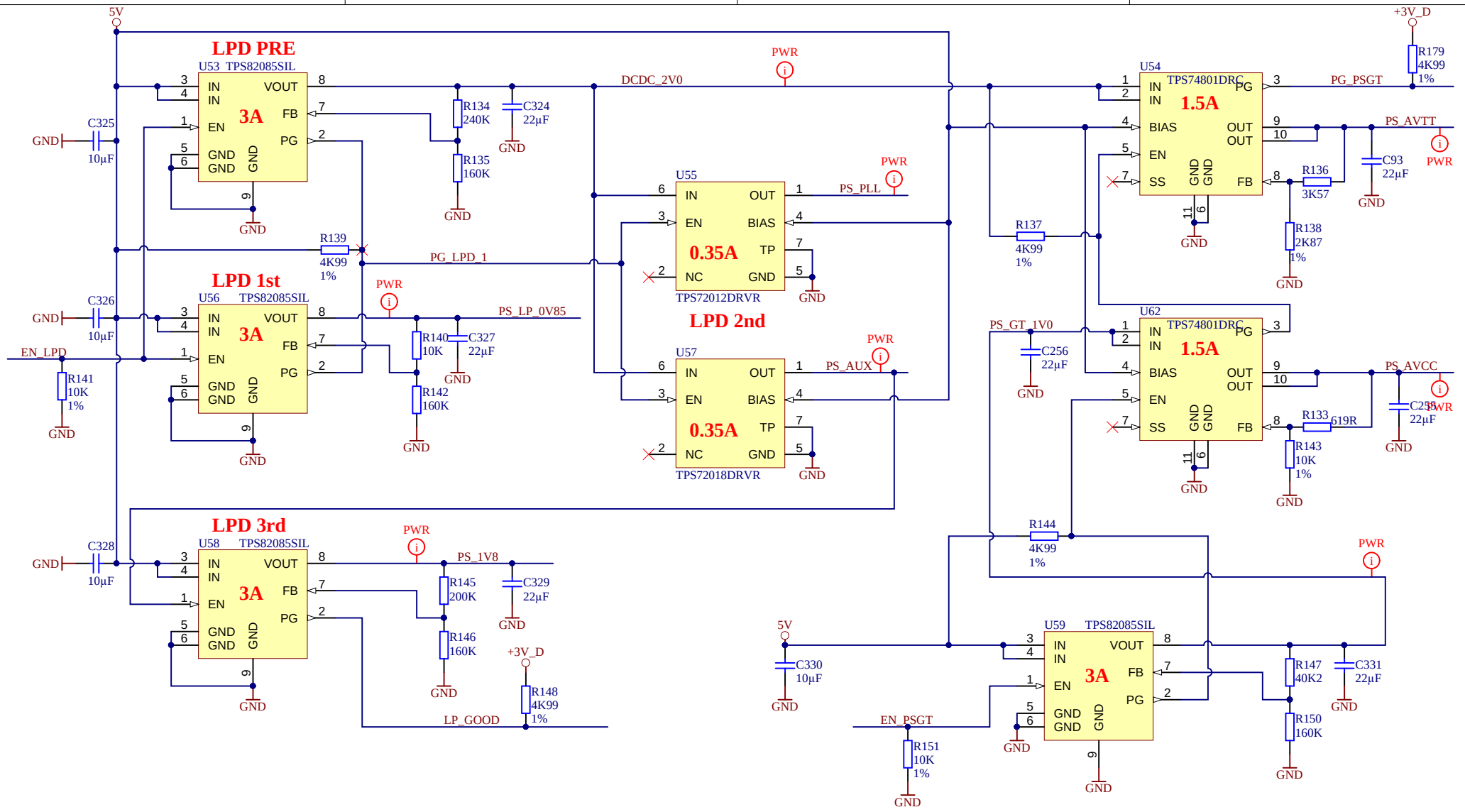
Date: 2018-10-22	Copyright: Trenz Electronic GmbH		Page28 of 33
Filename: PWR_CORE.SchDoc			



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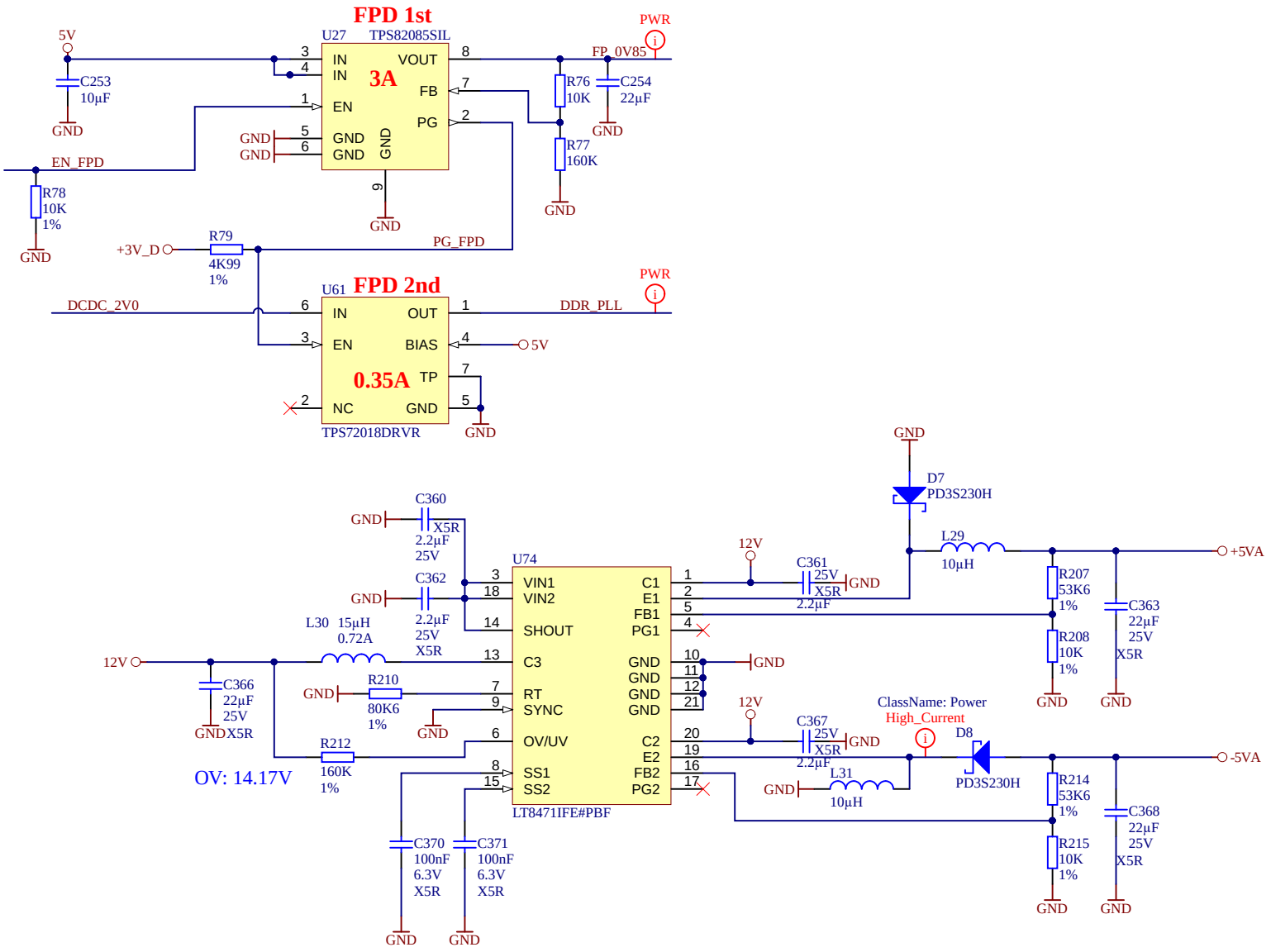
Date: 2018-10-22	Copyright: Trenz Electronic GmbH / TT		Page29 of 33
Filename: POWER_PSLP.schdoc			



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	Date: 2018-10-22	Copyright: Trenz Electronic GmbH / TT	Page30 of 33
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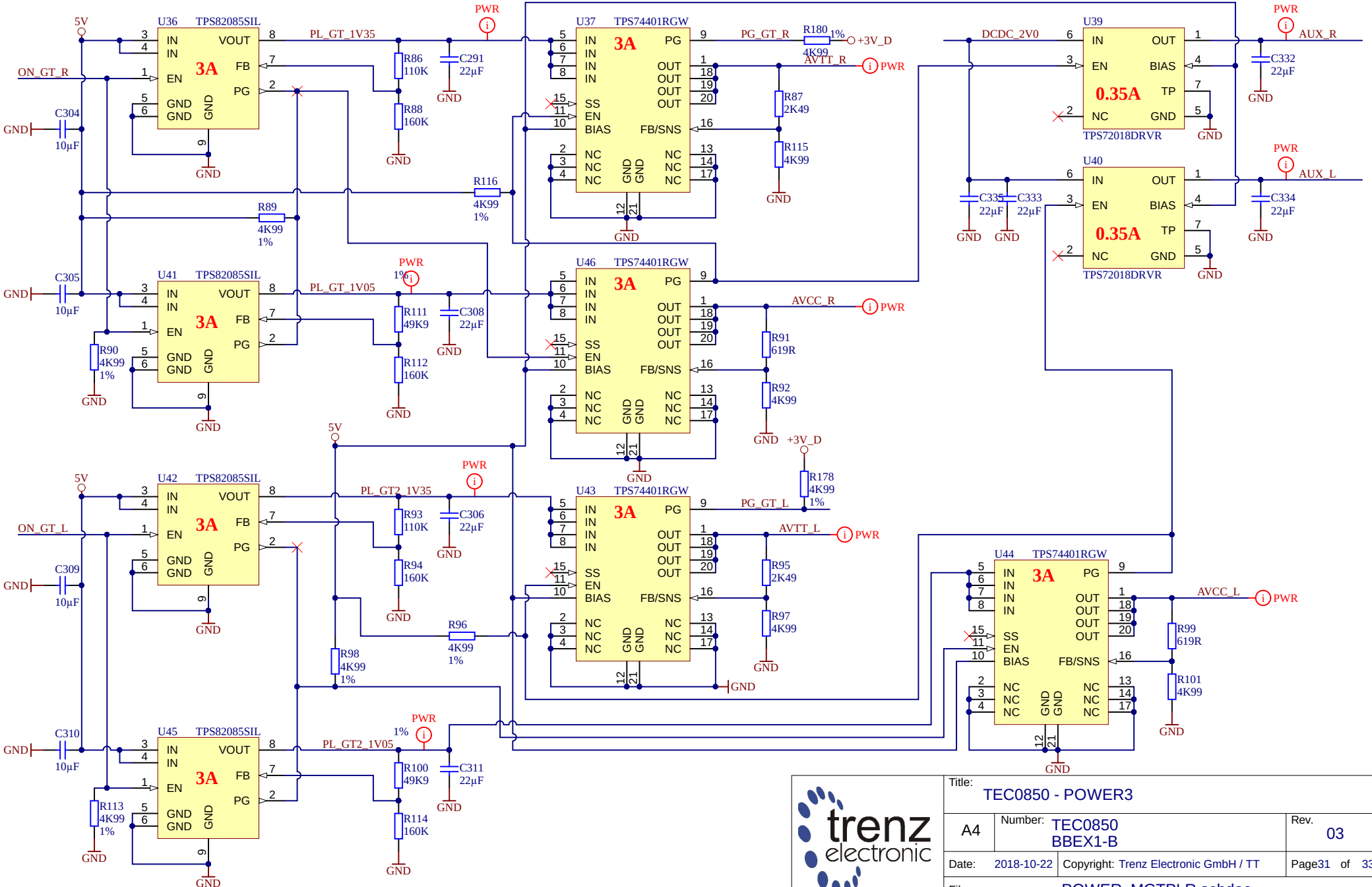

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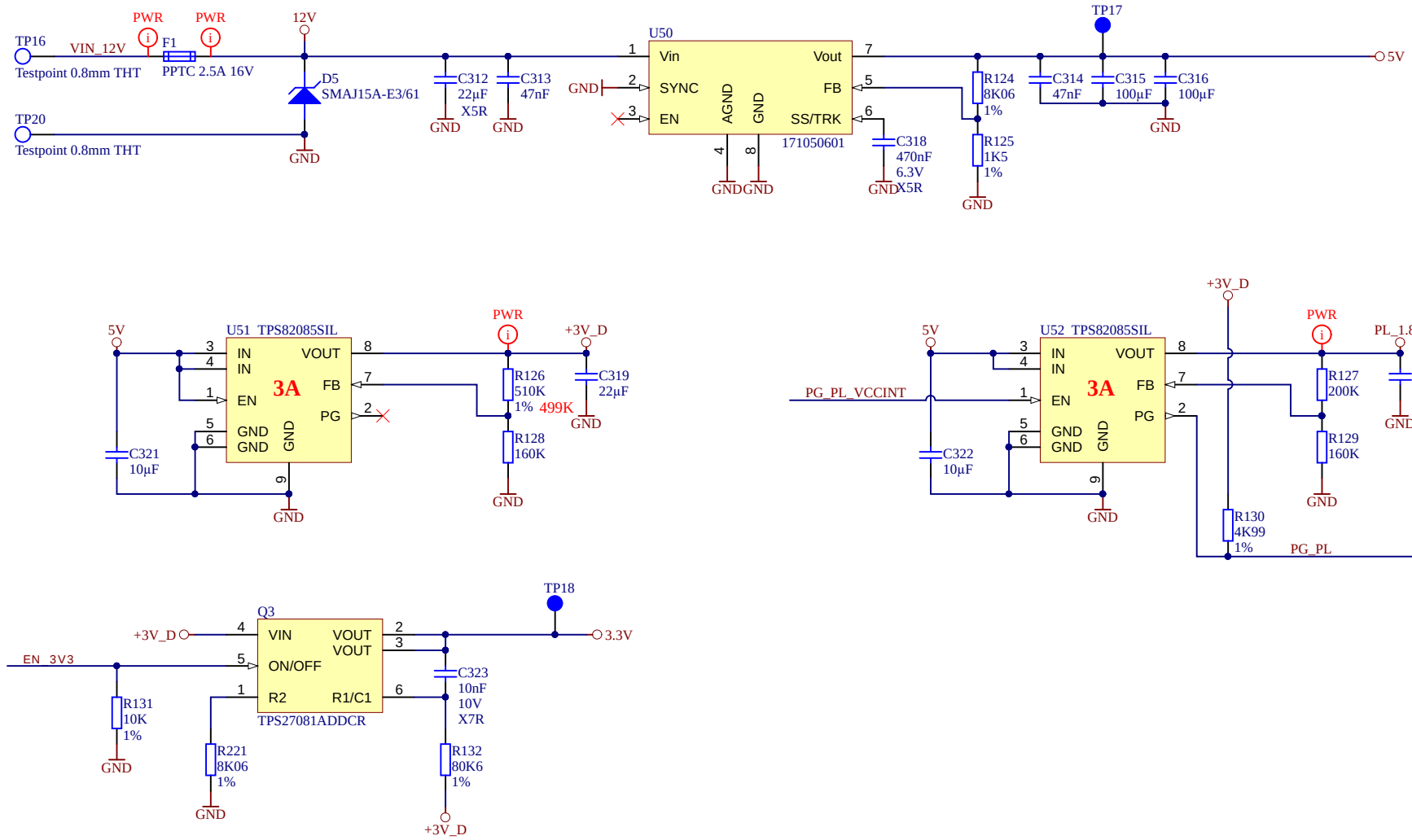
Date: 2018-10-22	Copyright: Trenz Electronic GmbH / TT		Page31 of 33
Filename: POWER_MGTPLR.schdoc			



trenz electronic	Title: TEC0850 - POWER4		
	A4	Number: TEC0850 BBEX1-B	Rev. 03
	Date: 2018-10-22	Copyright: Trenz Electronic GmbH / TT	Page32 of 33
	Filename: POWER_MGTPLL.schdoc		

CHANGES REV01 to REV02
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1) Fixed connection for U16 (Si53340-B-GM)
2) Added THT-testpoints for I2C-bus
3) Changed MEMS osc to TCXO osc , added LDO for TCXO osc
4) Use out9 from PLL, added dual output buffer ("1" -> MPSOC, B65; "2" -> J1, cPCI-serial)
5) Changed connector J12 (do not populated)
6) Added capacitors C372, C373 on the clock line (AC-coupling)
7) Changed OPs for DACs (LT6200IS6 -> THS4631D)
8) Added additional DCDC (+/-5V) for THS4631D
9) Added THT-testpoints for VIN/GND
10) full update lib

CHANGES REV02 to REV03
---
1) Fixed connection for U74 (LT8471IFE#PBF)
2) Added additional resistors R219/R220
3) Fixed connection for Y2 (CM2012-2pad)
4) Changed U69 (TPS3106E09DBVR -> TPS3106K33DBVR)
5) Changed U73 (LTC6957IDD-2#PBF -> Si53340-B-GM)
6) Optimized BOM
7) full update lib

CHANGES REV03a
---
1) VY: replaced DDR4 SODIMM socket (b030-2604-6021-zhf -> 2309407-1)

CHANGES REV03b (19.08.2020):

1) VY: Protection circuit U8 ESD3V3U4ULCE6327XTSA1 replaced by CPDA10R3V3U-HF

trenz electronic	Title: TEC0850 - Changes list		
	A4	Number: TEC0850 BBEX1-B	Rev. 03
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	Filename: Revision_Changes.SchDoc		