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
470R
1%
LED_FP_1

D2
GND
LED Green LTST-C191KGKT
R68
470R
1%
LED_FP_2

D3
GND
LED Green LTST-C191KGKT
R71
470R
1%
LED_FP_3

D4
GND
LED Green LTST-C191KGKT
R74
470R
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
BLM15PX121SN1D
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

Slave ADDR:
1010011

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

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

Slave ADDR:
1010011

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

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

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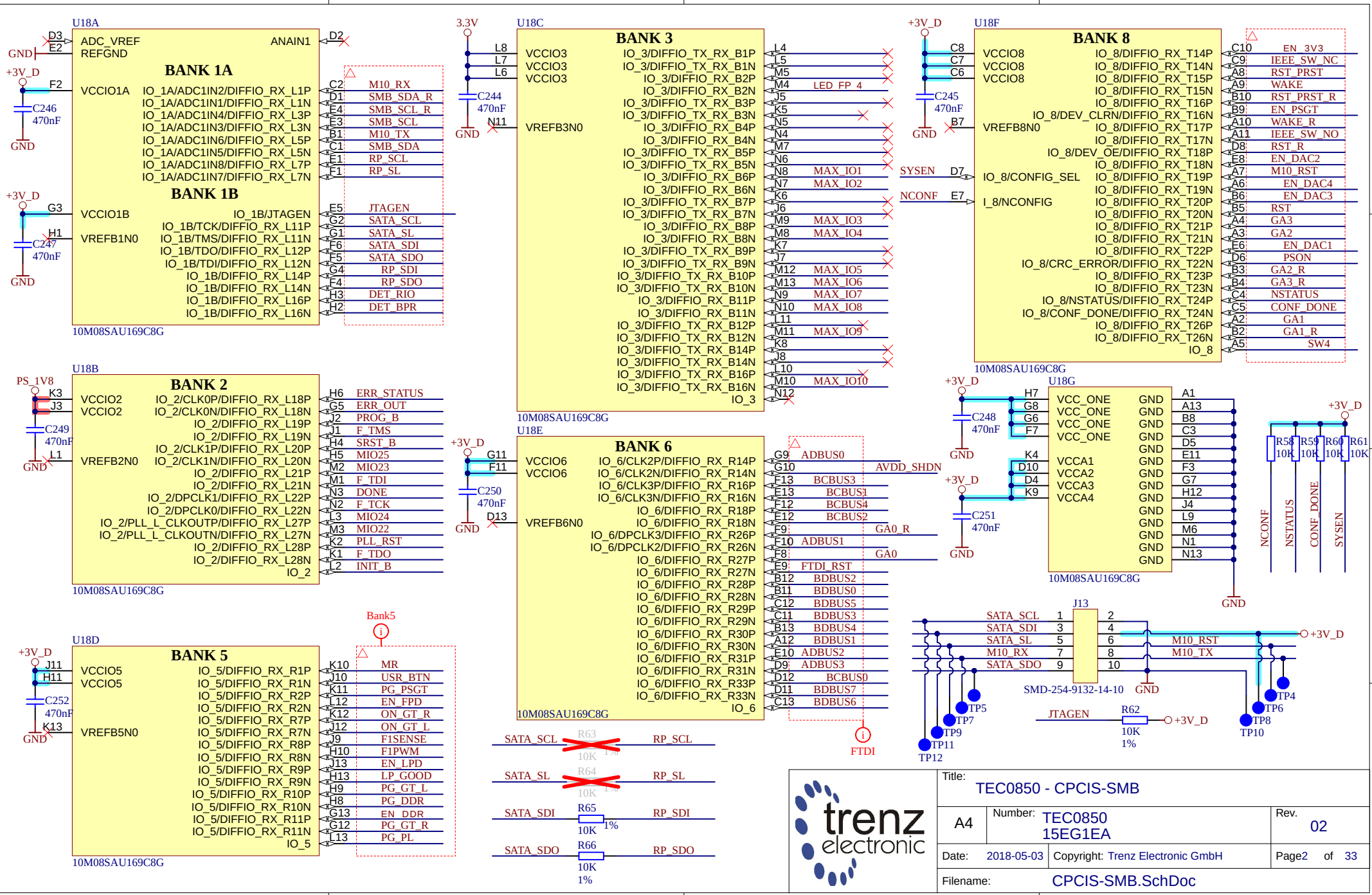
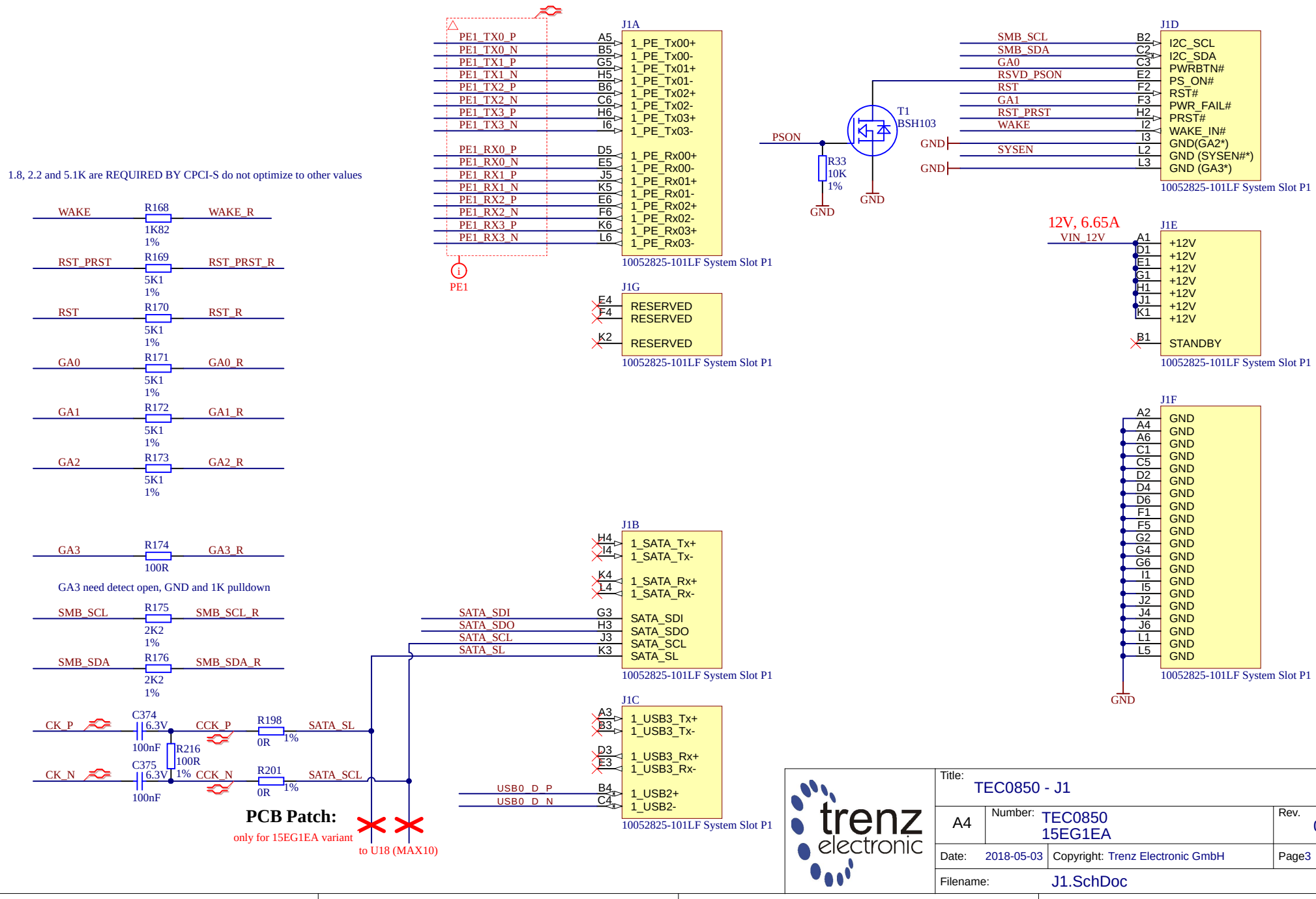
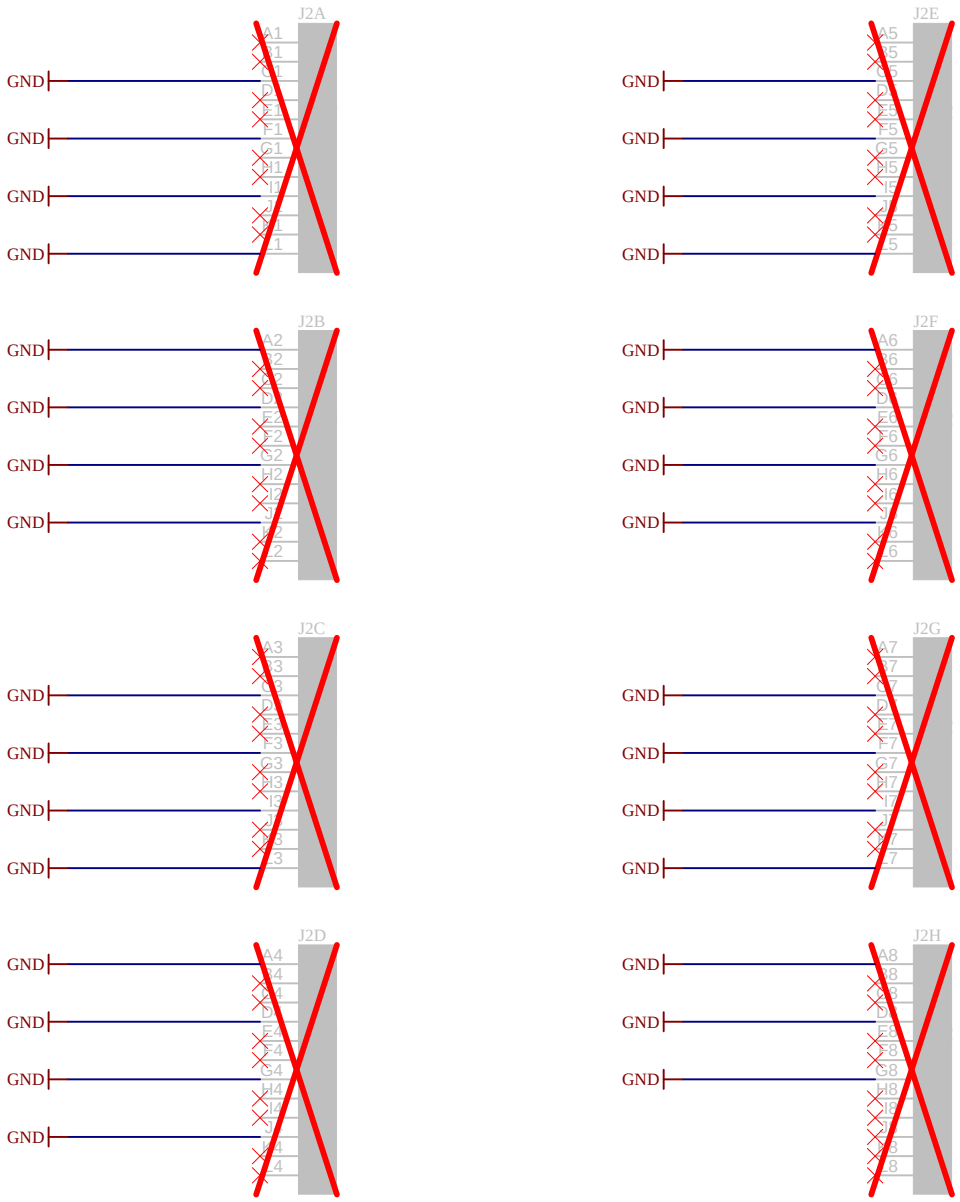
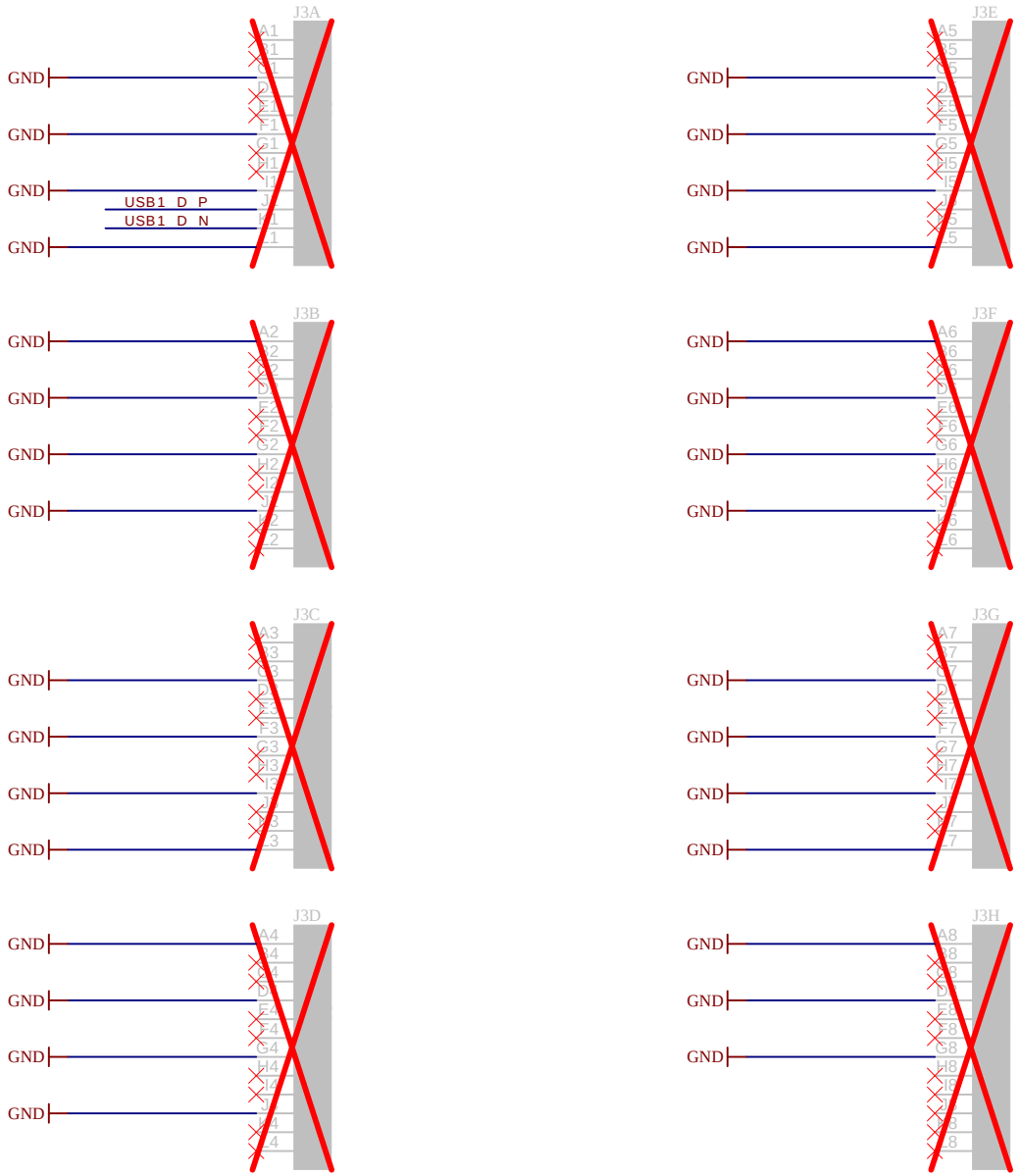
Title: TEC0850 - CPCIS-MAIN			
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page1 of 33
Filename: CPCIS-MAIN.SchDoc			


U18A
BANK 1A
BANK 1B
10M08SAU169C8G
U18B
BANK 2
U18C
BANK 3
U18D
BANK 5
U18E
BANK 6
U18F
BANK 8
U18G
3.3V
+3V_D
PS_1V8
GND
Bank5
FTDI
SATA_SCL
SATA_SL
SATA_SDI
SATA_SDO
RP_SCL
RP_SL
RP_SDI
RP_SDO
AVDD_SHDN
GA0_R
GA0
J13
SMD-254-9132-14-10
JTAGEN
TEC0850 - CPCIS-SMB
A4
TEC0850
15EG1EA
02
2018-05-03
Trenz Electronic GmbH
Page2 of 33
CPCIS-SMB.SchDoc

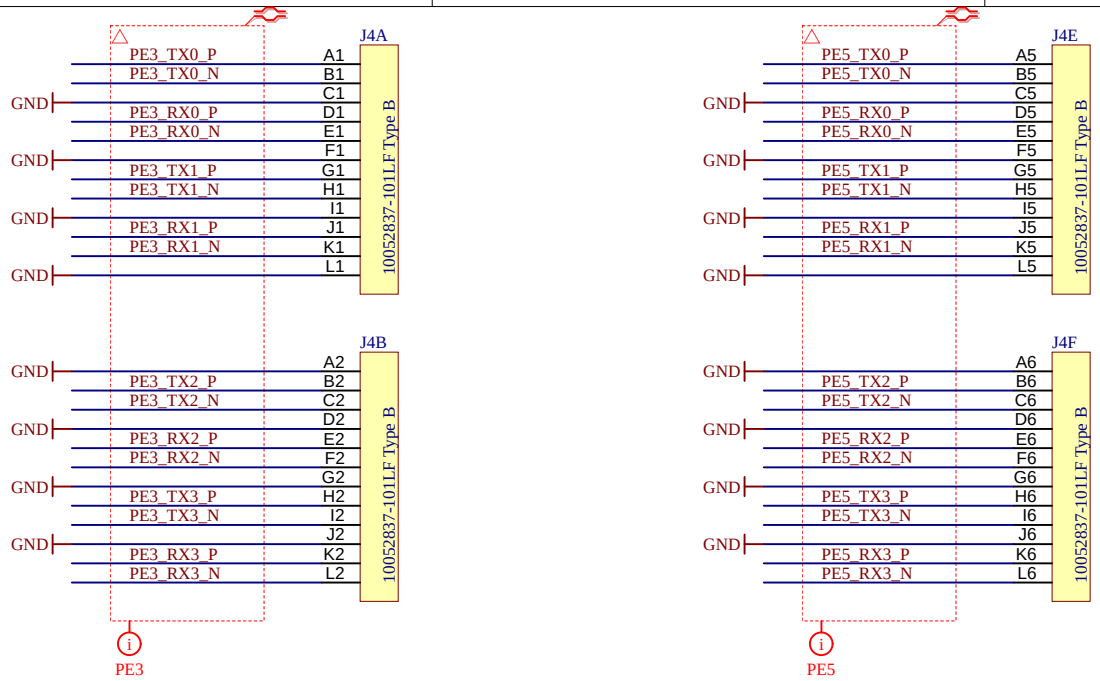

1.8, 2.2 and 5.1K are REQUIRED BY CPCI-S do not optimize to other values
WAKE
R168
1K82
1%
WAKE_R
RST_PRST
R169
5K1
1%
RST_PRST_R
RST
R170
5K1
1%
RST_R
GA0
R171
5K1
1%
GA0_R
GA1
R172
5K1
1%
GA1_R
GA2
R173
5K1
1%
GA2_R
GA3
R174
100R
GA3_R
GA3 need detect open, GND and 1K pulldown
SMB_SCL
R175
2K2
1%
SMB_SCL_R
SMB_SDA
R176
2K2
1%
SMB_SDA_R
CK_P
C374
6.3V
100nF
CCK_P
R198
0R
1%
SATA_SL
R216
100R
1%
CK_N
C375
6.3V
100nF
CCK_N
R201
0R
1%
SATA_SCL
PCB Patch:
only for 15EG1EA variant
to U18 (MAX10)
J1A
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
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-
PE1
10052825-101LF System Slot P1
J1G
RESERVED
RESERVED
RESERVED
10052825-101LF System Slot P1
J1B
1_SATA_Tx+
1_SATA_Tx-
1_SATA_Rx+
1_SATA_Rx-
SATA_SDI
SATA_SDO
SATA_SCL
SATA_SL
10052825-101LF System Slot P1
J1C
1_USB3_Tx+
1_USB3_Tx-
1_USB3_Rx+
1_USB3_Rx-
USB0_D_P
USB0_D_N
1_USB2+
1_USB2-
10052825-101LF System Slot P1
PSON
T1
BSH103
R33
10K
1%
GND
J1D
SMB_SCL
SMB_SDA
GA0
RSVD_PSON
RST
GA1
RST_PRST
WAKE
SYSEN
I2C_SCL
I2C_SDA
PWRBTN#
PS_ON#
RST#
PWR_FAIL#
PRST#
WAKE_IN#
GND(GA2*)
GND (SYSEN#*)
GND (GA3*)
10052825-101LF System Slot P1
12V, 6.65A
VIN_12V
J1E
+12V
STANDBY
10052825-101LF System Slot P1
J1F
GND
10052825-101LF System Slot P1
trenz electronic
Title: TEC0850 - J1
A4
Number: TEC0850 15EG1EA
Rev. 02
Date: 2018-05-03
Copyright: Trenz Electronic GmbH
Page3 of 33
Filename: J1.SchDoc

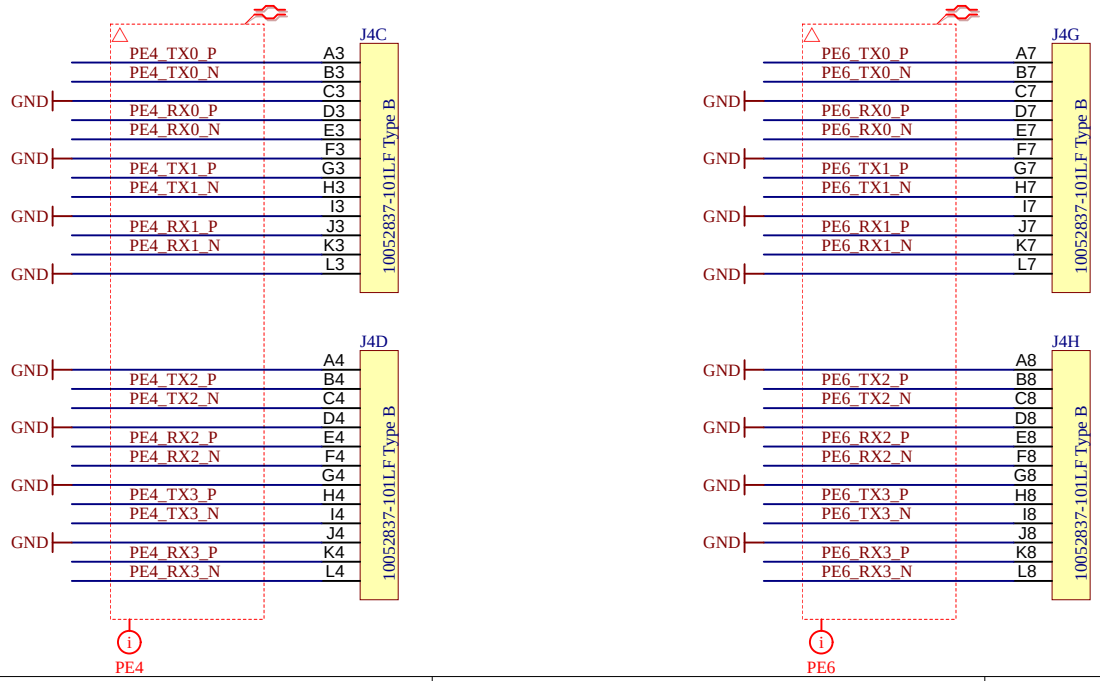


Title: TEC0850 - J2			
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page4 of 33
Filename: J2.SchDoc			



Title: TEC0850 - J3			
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page5 of 33
Filename: J3.SchDoc			





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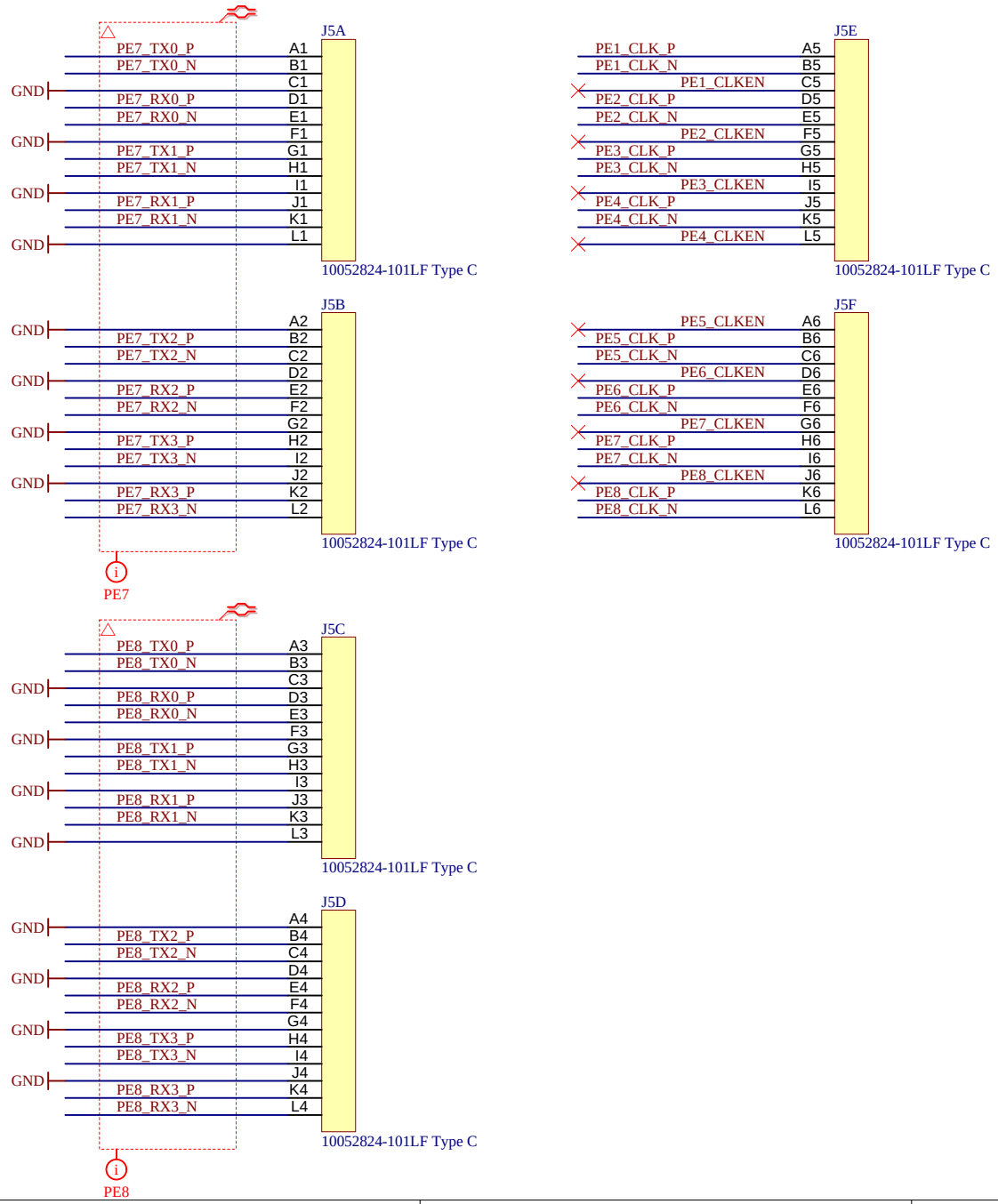
Title: TEC0850 - J4			
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page6 of 33
Filename: J4.SchDoc			



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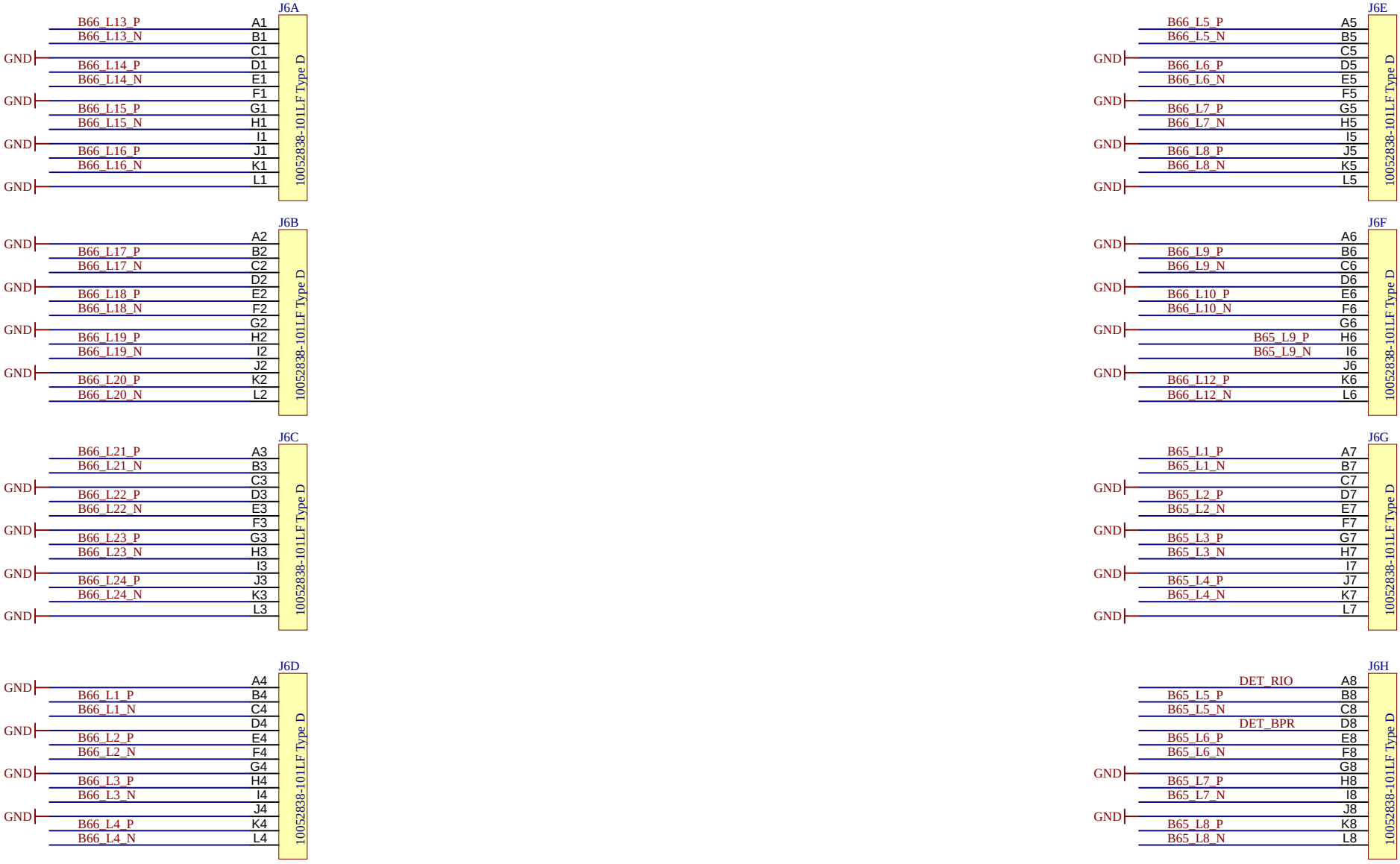
Title: TEC0850 - J5			
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page7 of 33
Filename: J5.SchDoc			



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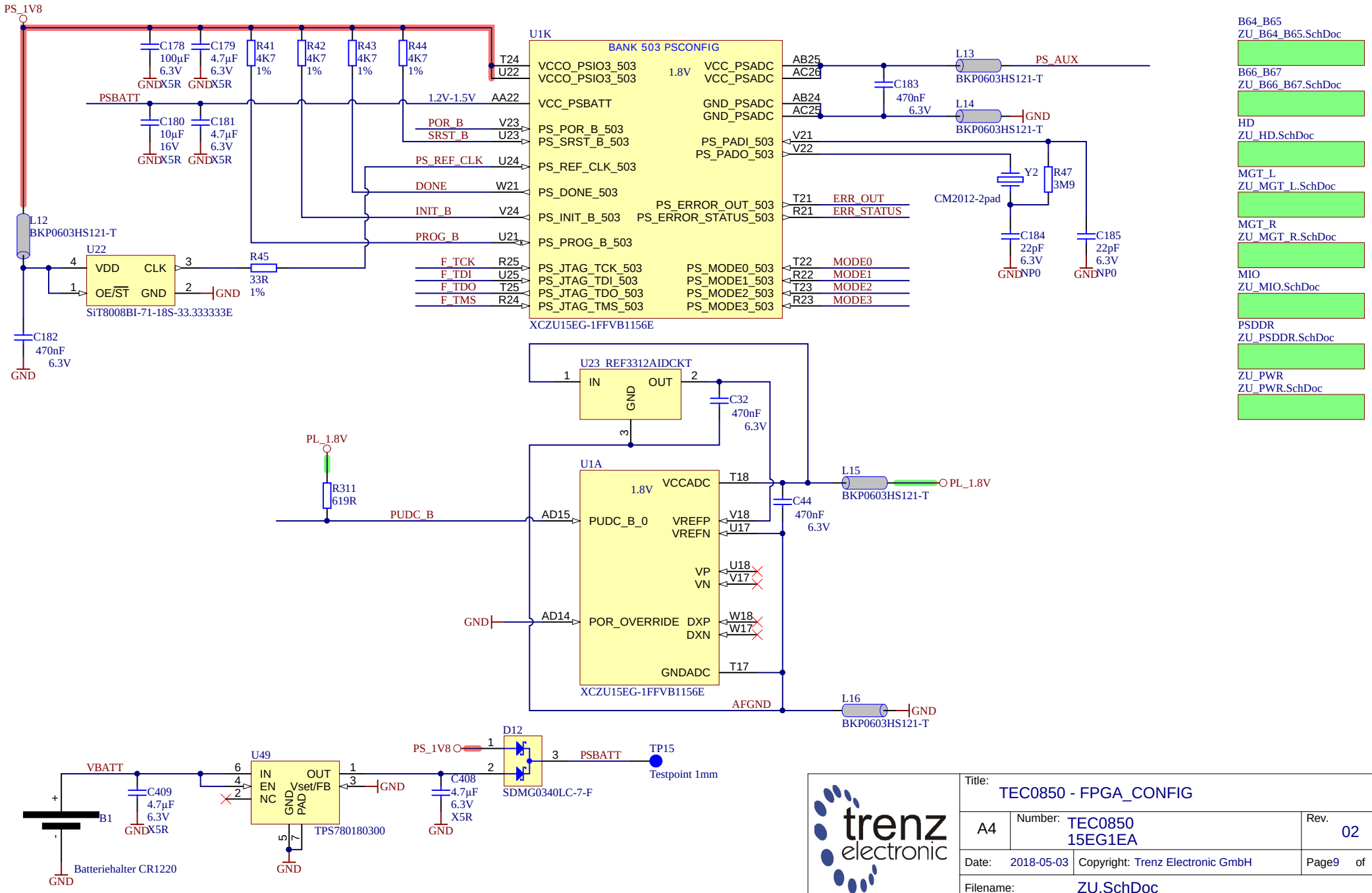
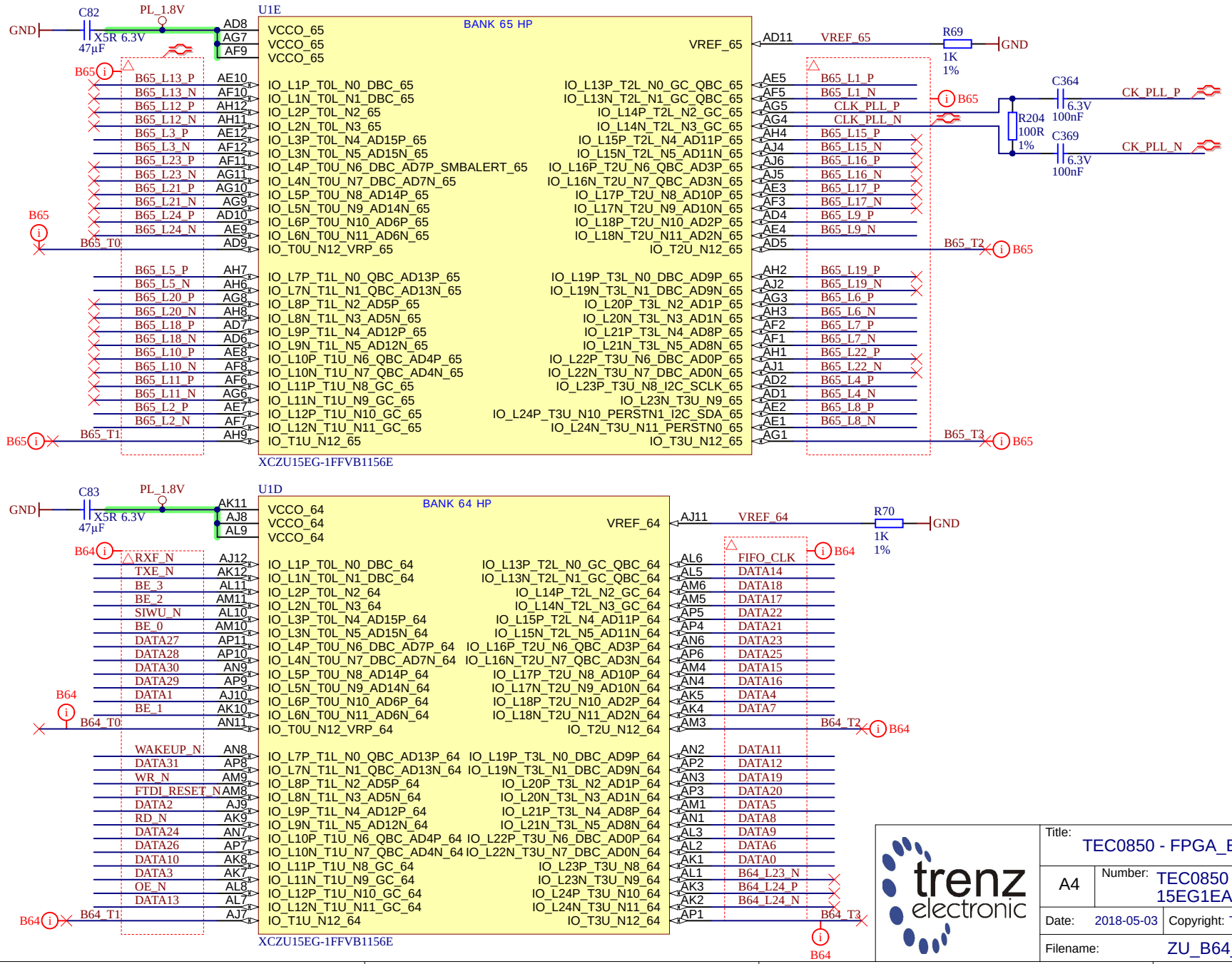
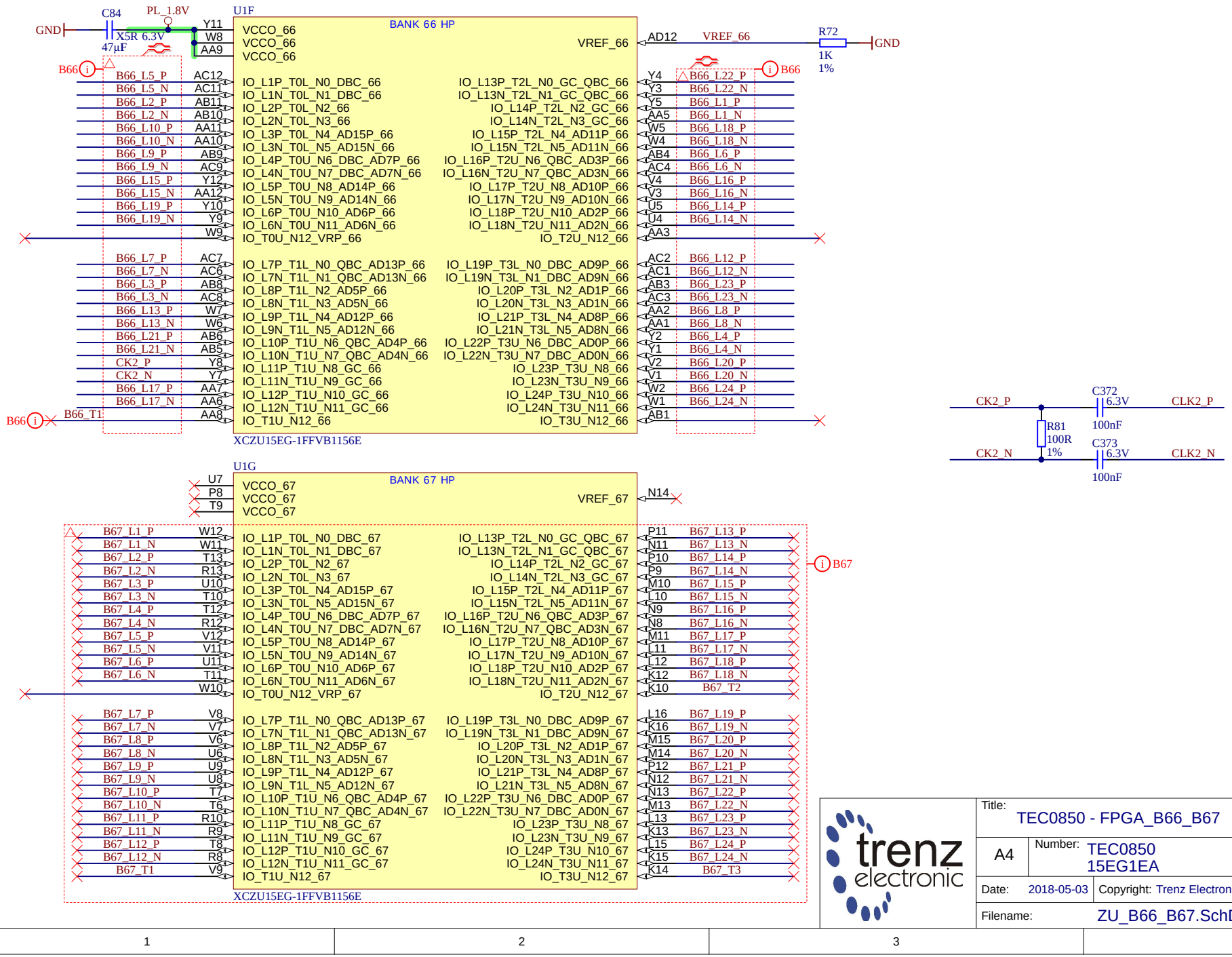
Title: TEC0850 - J6		
A4	Number: TEC0850 15EG1EA	Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH	Page 8 of 33
Filename: J6.SchDoc		

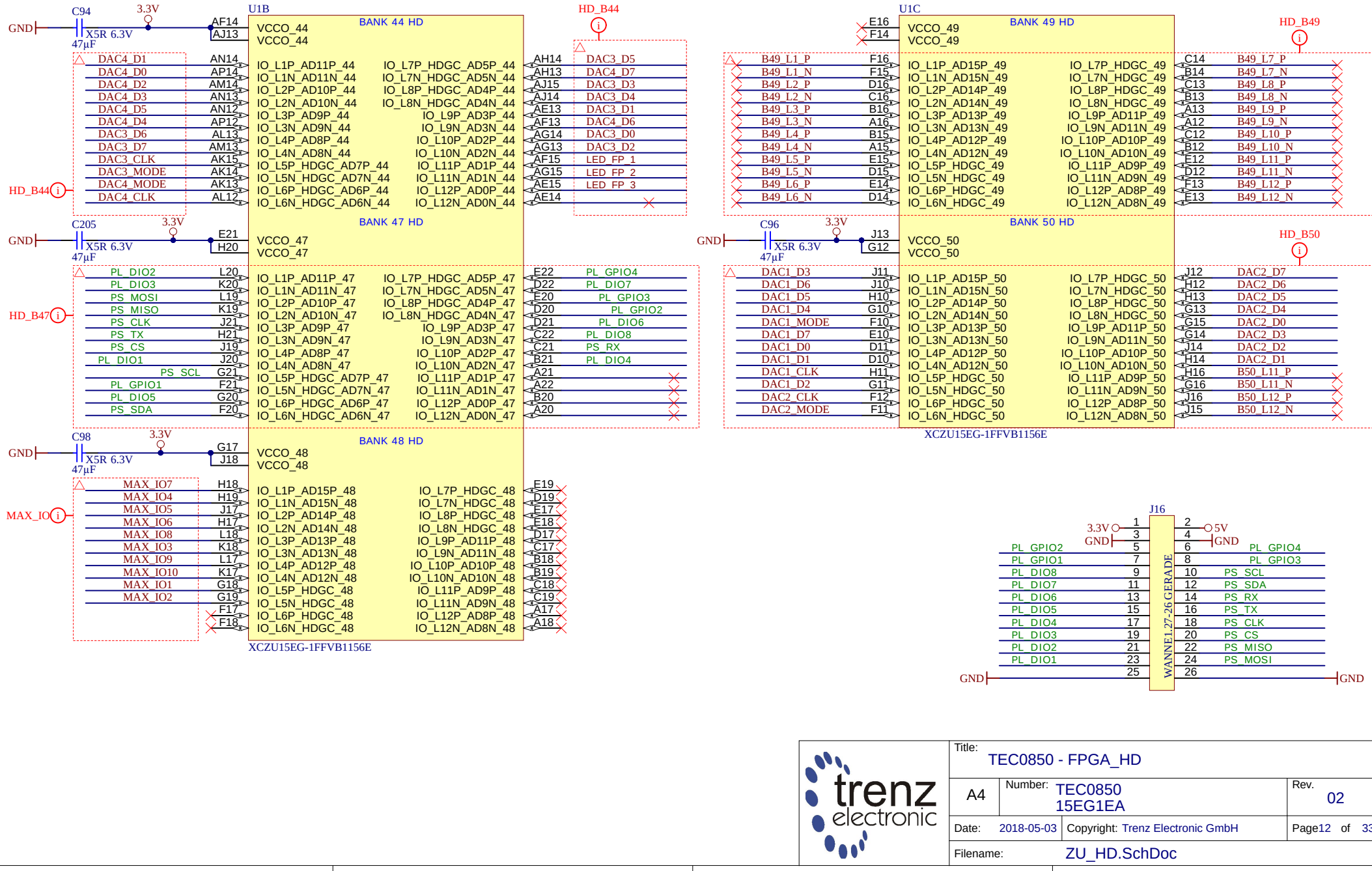

PS_1V8
C178 100µF 6.3V X5R
C179 4.7µF 6.3V X5R
R41 4K7 1%
R42 4K7 1%
R43 4K7 1%
R44 4K7 1%
PSBATT
C180 10µF 16V X5R
C181 4.7µF 6.3V X5R
L12 BKP0603HS121-T
U22
VDD CLK OE/ST GND
SiT8008BI-71-18S-33.333333E
R45 33R 1%
C182 470nF 6.3V
U1K
BANK 503 PSCONFIG
VCCO_PSIO3_503
VCCO_PSIO3_503
VCC_PSBATT
PS_POR_B_503
PS_SRST_B_503
PS_REF_CLK_503
PS_DONE_503
PS_INIT_B_503
PS_PROG_B_503
PS_JTAG_TCK_503
PS_JTAG_TDI_503
PS_JTAG_TDO_503
PS_JTAG_TMS_503
1.8V
VCC_PSADC
VCC_PSADC
GND_PSADC
GND_PSADC
PS_PADI_503
PS_PADO_503
PS_ERROR_OUT_503
PS_ERROR_STATUS_503
PS_MODE0_503
PS_MODE1_503
PS_MODE2_503
PS_MODE3_503
XCZU15EG-1FFVB1156E
POR_B
SRST_B
PS_REF_CLK
DONE
INIT_B
PROG_B
F_TCK
F_TDI
F_TDO
F_TMS
1.2V-1.5V
ERR_OUT
ERR_STATUS
MODE0
MODE1
MODE2
MODE3
L13 BKP0603HS121-T
PS_AUX
C183 470nF 6.3V
L14 BKP0603HS121-T
Y2 CM2012-2pad
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 GND OUT
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
C44 470nF 6.3V
L15 BKP0603HS121-T
L16 BKP0603HS121-T
AFGND
VBATT
B1
Batteriehalter CR1220
C409 4.7µF 6.3V X5R
U49
IN EN NC GND PAD OUT Vset/FB
TPS780180300
C408 4.7µF 6.3V X5R
D12
SDMG0340LC-7-F
TP15
Testpoint 1mm
trenz electronic
Title: TEC0850 - FPGA_CONFIG
A4
Number: TEC0850 15EG1EA
Rev. 02
Date: 2018-05-03
Copyright: Trenz Electronic GmbH
Page9 of 33
Filename: ZU.SchDoc

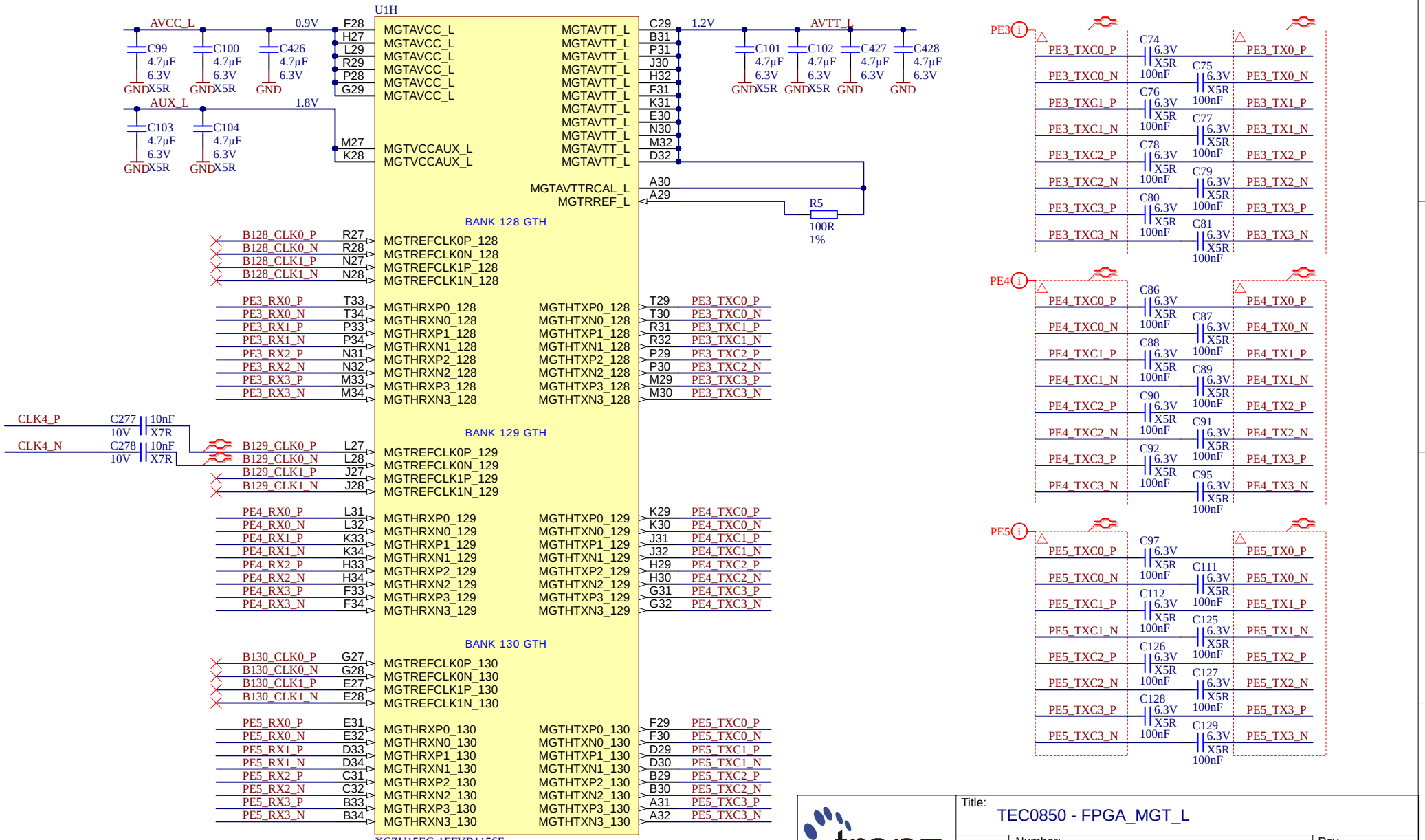


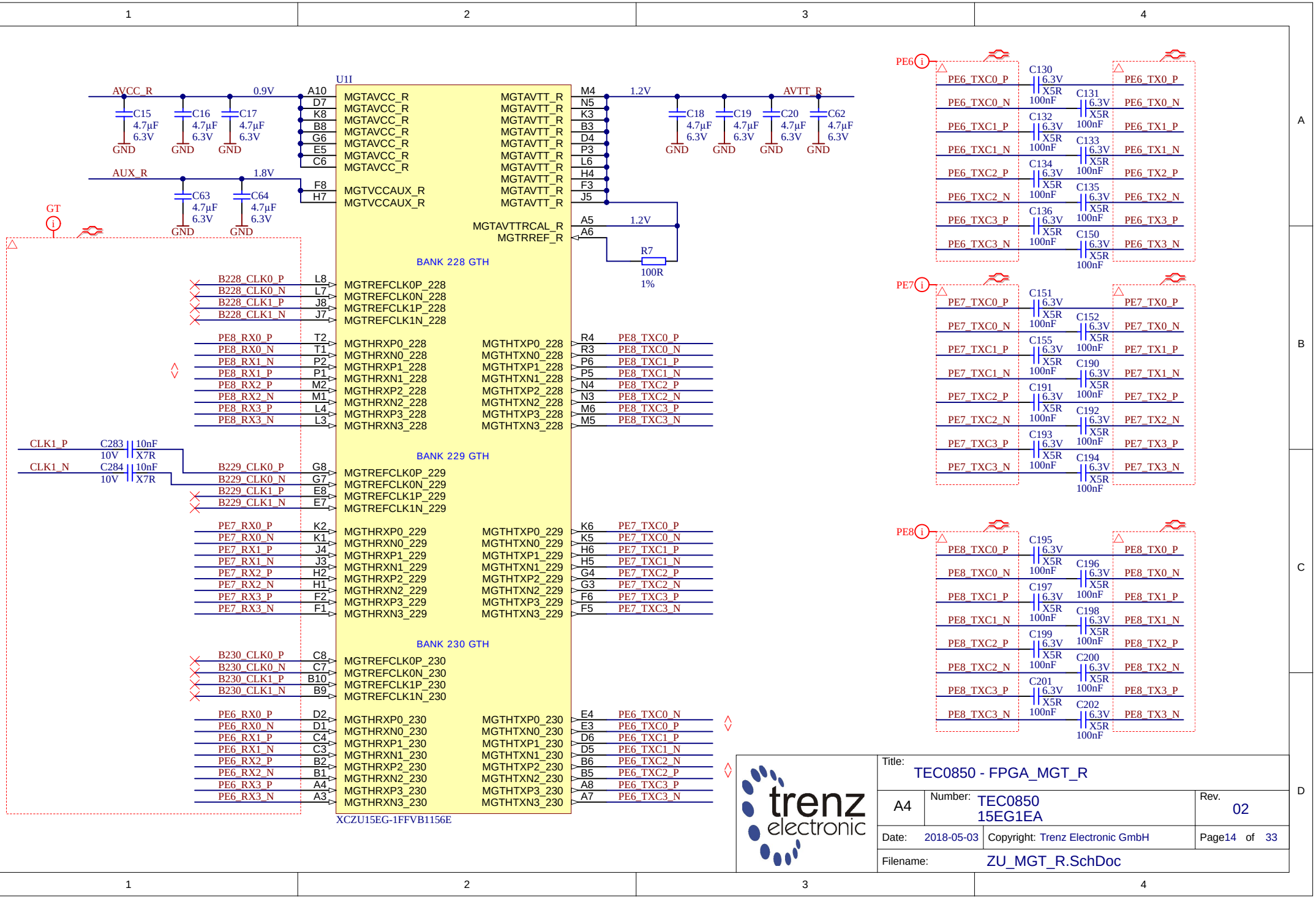
Title: TEC0850 - FPGA_B64_B65			
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page10 of 33
Filename: ZU_B64_B65.SchDoc			

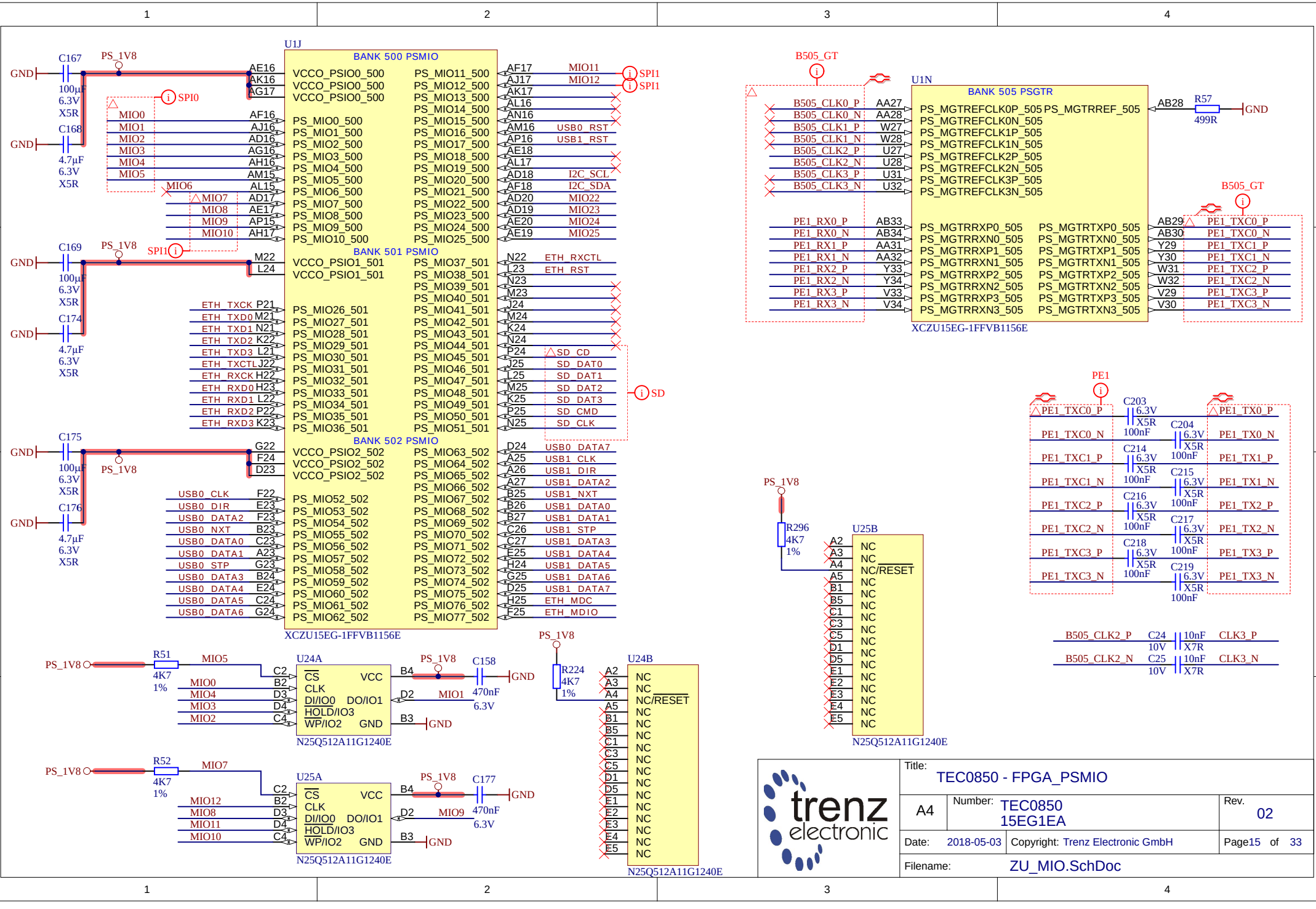


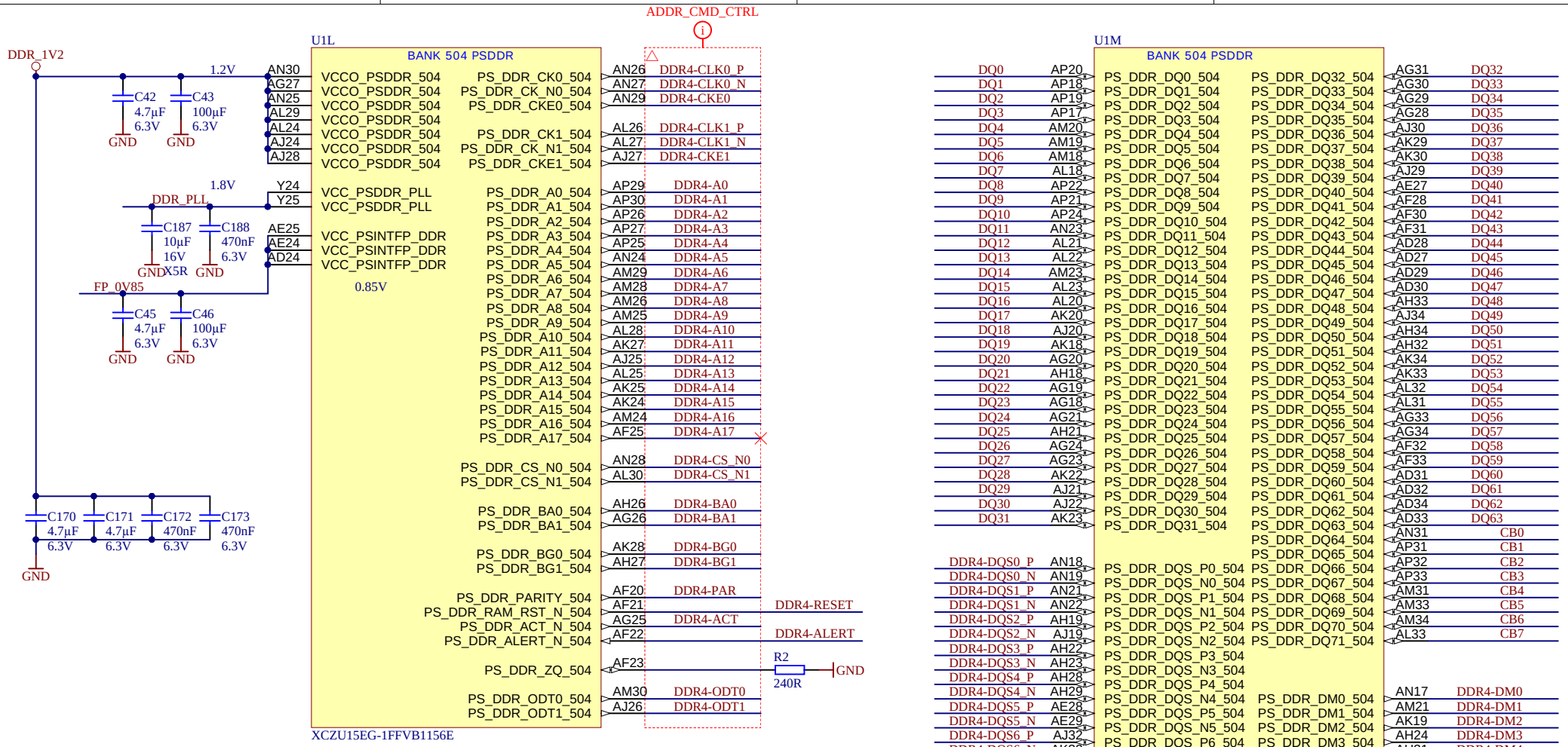
Title: TEC0850 - FPGA_B66_B67			
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page11 of 33
Filename: ZU_B66_B67.SchDoc			


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
Title: TEC0850 - FPGA_HD
A4
Number: TEC0850 15EG1EA
Rev. 02
Date: 2018-05-03
Copyright: Trenz Electronic GmbH
Page12 of 33
Filename: ZU_HD.SchDoc

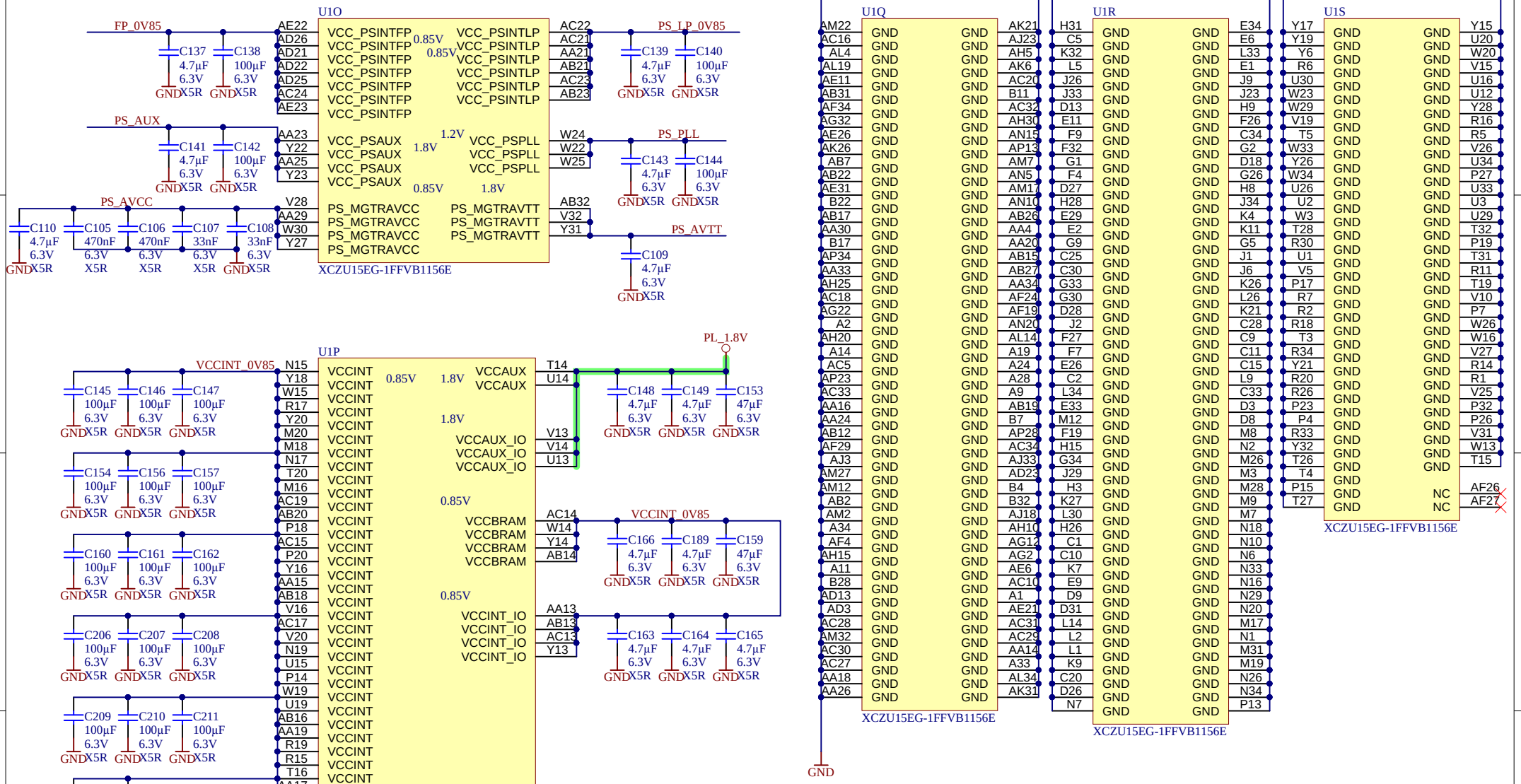

U1H
AVCC_L
0.9V
AUX_L
1.8V
AVTT_L
1.2V
MGTAVCC_L
MGTVCCAUX_L
MGTAVTT_L
MGTAVTTRCAL_L
MGTRREF_L
R5
100R
1%
BANK 128 GTH
MGTREFCLK0P_128
MGTREFCLK0N_128
MGTREFCLK1P_128
MGTREFCLK1N_128
MGTHRXP0_128
MGTHRXN0_128
MGTHRXP1_128
MGTHRXN1_128
MGTHRXP2_128
MGTHRXN2_128
MGTHRXP3_128
MGTHRXN3_128
MGTHTXP0_128
MGTHTXN0_128
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 15EG1EA
Rev. 02
Date: 2018-05-03
Copyright: Trenz Electronic GmbH
Page13 of 33
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
trenz electronic
Title: TEC0850 - FPGA_MGT_R
A4
Number: TEC0850 15EG1EA
Rev. 02
Date: 2018-05-03
Copyright: Trenz Electronic GmbH
Page14 of 33
Filename: ZU_MGT_R.SchDoc

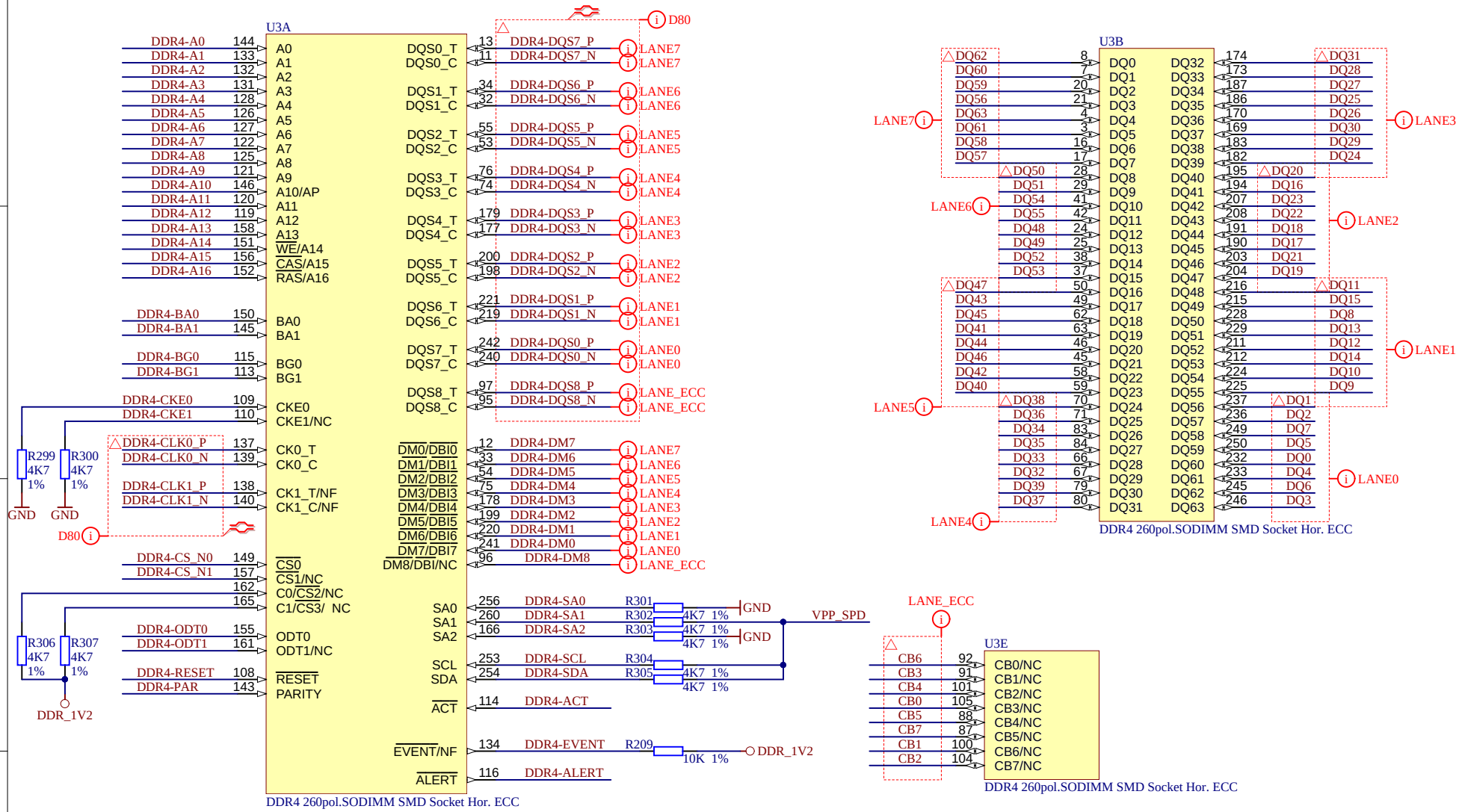

U1J
BANK 500 PSMIO
BANK 501 PSMIO
BANK 502 PSMIO
XCZU15EG-1FFVB1156E
U1N
BANK 505 PSGTR
XCZU15EG-1FFVB1156E
U24A
U24B
U25A
U25B
N25Q512A11G1240E
PS_1V8
GND
B505_GT
PE1
SPI0
SPI1
SD
C167
C168
C169
C174
C175
C176
C203
C204
C214
C215
C216
C217
C218
C219
C158
C177
R51
R52
R57
R224
R296
499R
4K7
100µF
4.7µF
470nF
100nF
10nF
6.3V
X5R
X7R
1%
10V
MIO0
MIO1
MIO2
MIO3
MIO4
MIO5
MIO6
MIO7
MIO8
MIO9
MIO10
MIO11
MIO12
MIO22
MIO23
MIO24
MIO25
ETH_RXCTL
ETH_RST
ETH_TXCK
ETH_TXD0
ETH_TXD1
ETH_TXD2
ETH_TXD3
ETH_TXCTL
ETH_RXCK
ETH_RXD0
ETH_RXD1
ETH_RXD2
ETH_RXD3
SD_CD
SD_DAT0
SD_DAT1
SD_DAT2
SD_DAT3
SD_CMD
SD_CLK
USB0_CLK
USB0_DIR
USB0_DATA2
USB0_NXT
USB0_DATA0
USB0_DATA1
USB0_STP
USB0_DATA3
USB0_DATA4
USB0_DATA5
USB0_DATA6
USB0_RST
USB1_RST
USB1_CLK
USB1_DIR
USB1_DATA2
USB1_NXT
USB1_DATA0
USB1_DATA1
USB1_STP
USB1_DATA3
USB1_DATA4
USB1_DATA5
USB1_DATA6
USB0_DATA7
USB1_DATA7
ETH_MDC
ETH_MDIO
I2C_SCL
I2C_SDA
PS_MGTREFCLK0P_505
PS_MGTREFCLK0N_505
PS_MGTREFCLK1P_505
PS_MGTREFCLK1N_505
PS_MGTREFCLK2P_505
PS_MGTREFCLK2N_505
PS_MGTREFCLK3P_505
PS_MGTREFCLK3N_505
PS_MGTREF_505
PS_MGTRRXP0_505
PS_MGTRRXN0_505
PS_MGTRRXP1_505
PS_MGTRRXN1_505
PS_MGTRRXP2_505
PS_MGTRRXN2_505
PS_MGTRRXP3_505
PS_MGTRRXN3_505
PS_MGTRTXP0_505
PS_MGTRTXN0_505
PS_MGTRTXP1_505
PS_MGTRTXN1_505
PS_MGTRTXP2_505
PS_MGTRTXN2_505
PS_MGTRTXP3_505
PS_MGTRTXN3_505
PE1_TXC0_P
PE1_TXC0_N
PE1_TXC1_P
PE1_TXC1_N
PE1_TXC2_P
PE1_TXC2_N
PE1_TXC3_P
PE1_TXC3_N
PE1_TX0_P
PE1_TX0_N
PE1_TX1_P
PE1_TX1_N
PE1_TX2_P
PE1_TX2_N
PE1_TX3_P
PE1_TX3_N
B505_CLK0_P
B505_CLK0_N
B505_CLK1_P
B505_CLK1_N
B505_CLK2_P
B505_CLK2_N
B505_CLK3_P
B505_CLK3_N
CLK3_P
CLK3_N
NC
NC/RESET
trenz electronic
Title: TEC0850 - FPGA_PSMIO
A4
Number: TEC0850 15EG1EA
Rev. 02
Date: 2018-05-03
Copyright: Trenz Electronic GmbH
Page15 of 33
Filename: ZU_MIO.SchDoc



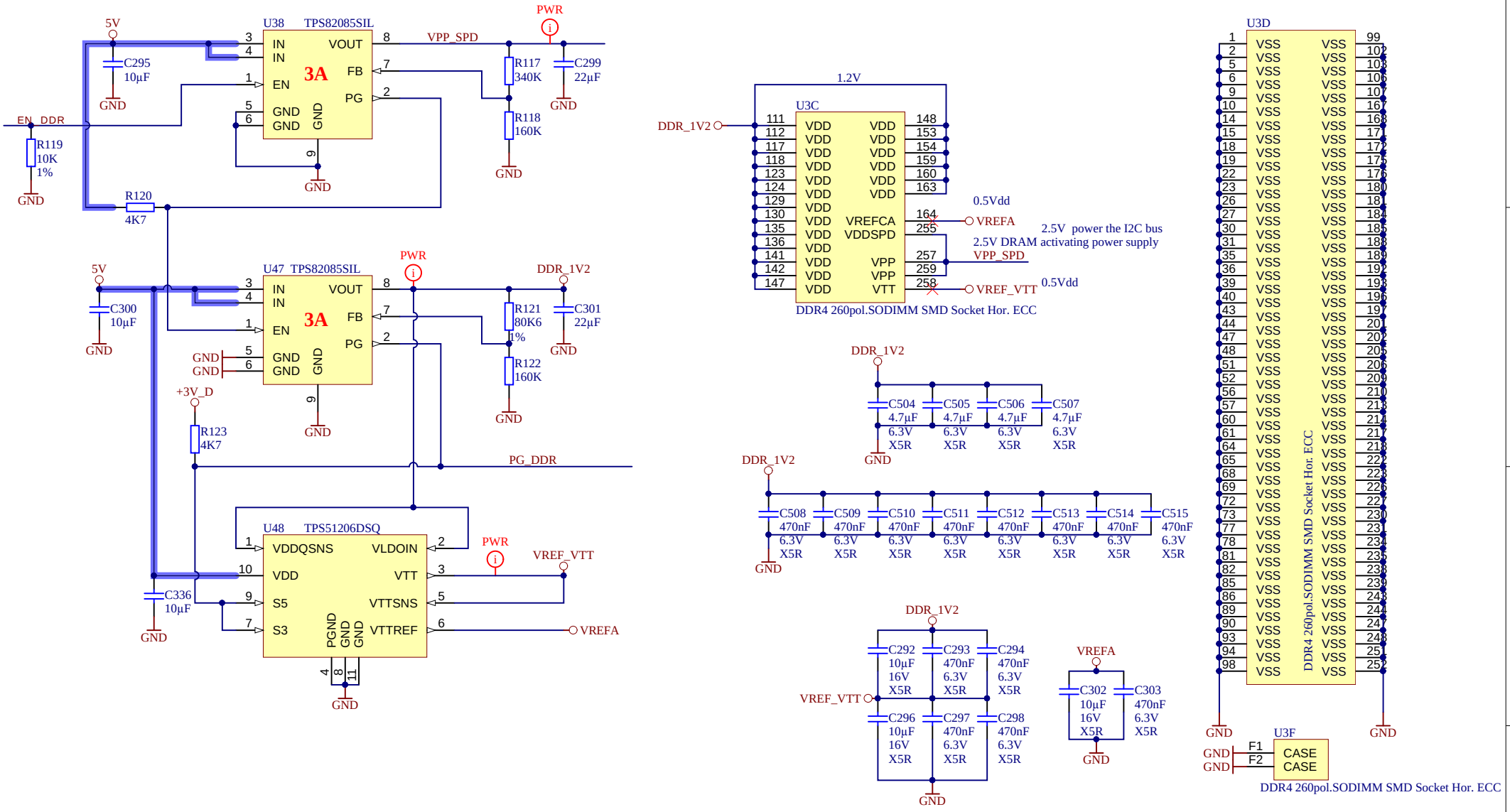
Title:	TEC0850 - FPGA_PSDDR
A4	Number: TEC0850 15EG1EA
Rev.	02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH
Page16 of 33	
Filename:	ZU_PSDDR.SchDoc



Title:	TEC0850 - FPGA_POWER		
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page17 of 33
Filename:	ZU_PWR.SchDoc		

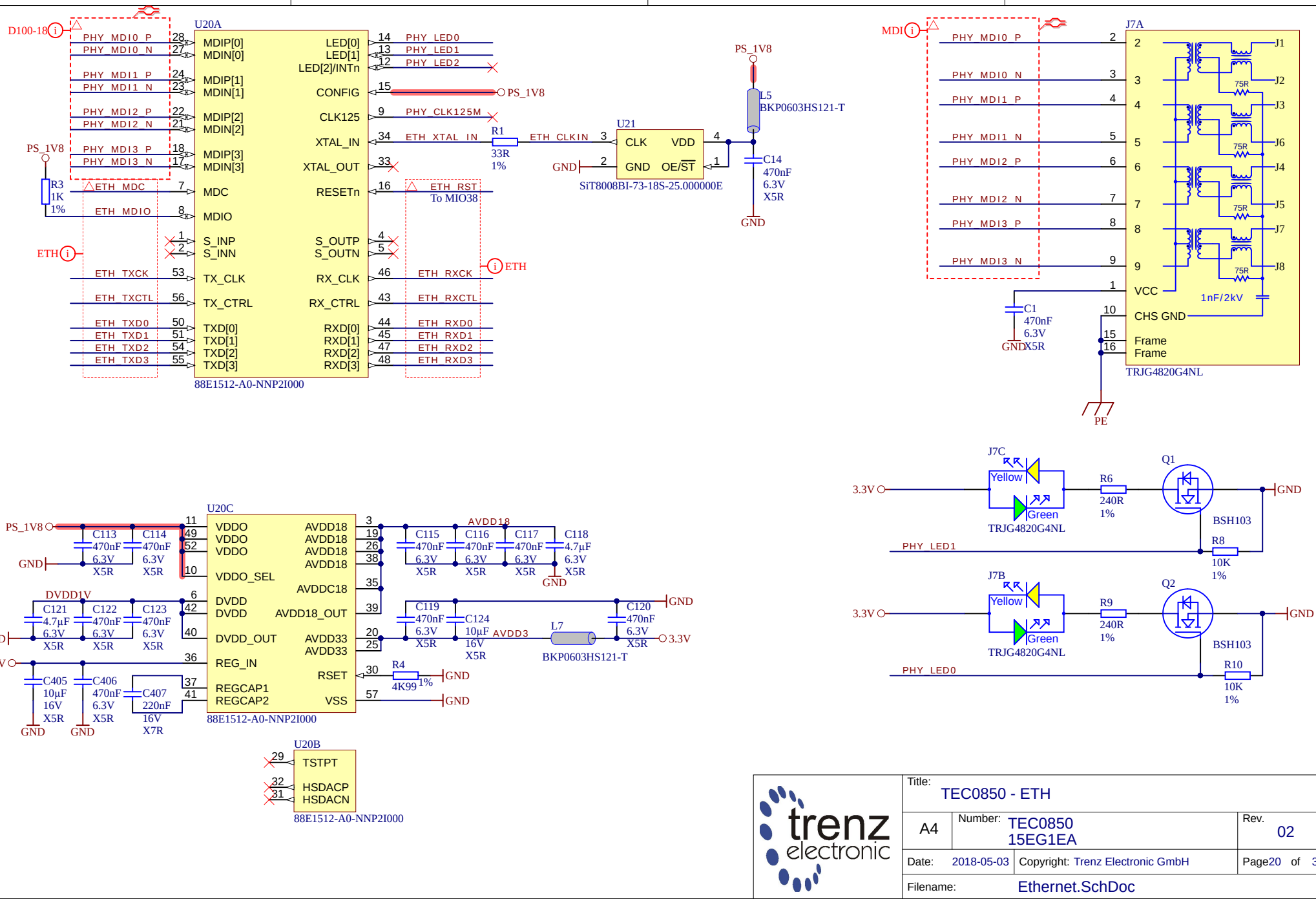


trenz electronic	Title: TEC0850 - DDR4 SODIMM		
	A4	Number: TEC0850 15EG1EA	Rev. 02
	Date: 2018-05-03	Copyright: Trenz Electronic GmbH	Page18 of 33
	Filename: DDR_SODIMM.SchDoc		



trenz electronic

Title: TEC0850 - DDR POWER		
A4	Number: TEC0850 15EG1EA	Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH	Page19 of 33
Filename: DDR_PWR.SchDoc		



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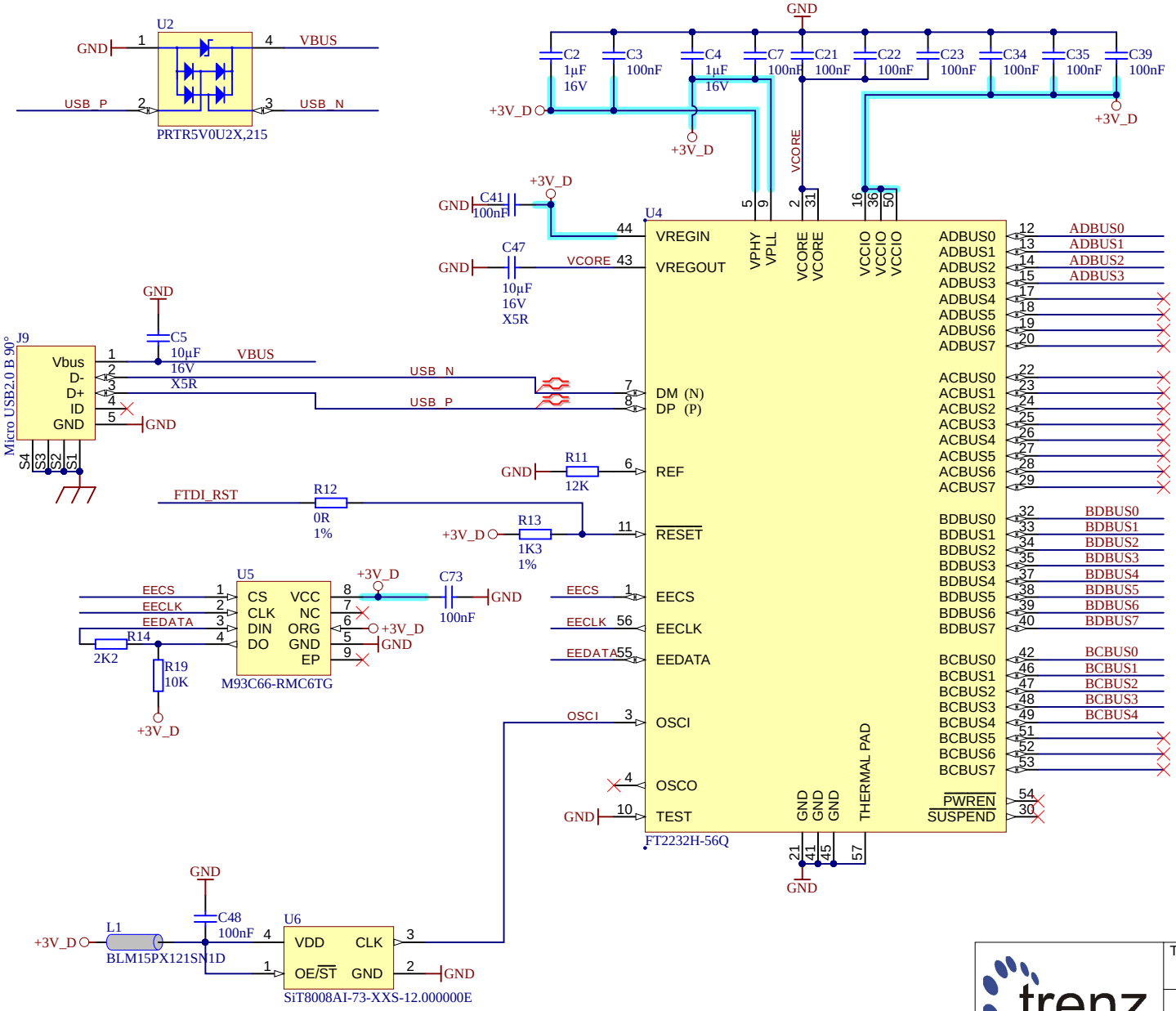
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page20 of 33
Filename: Ethernet.SchDoc			



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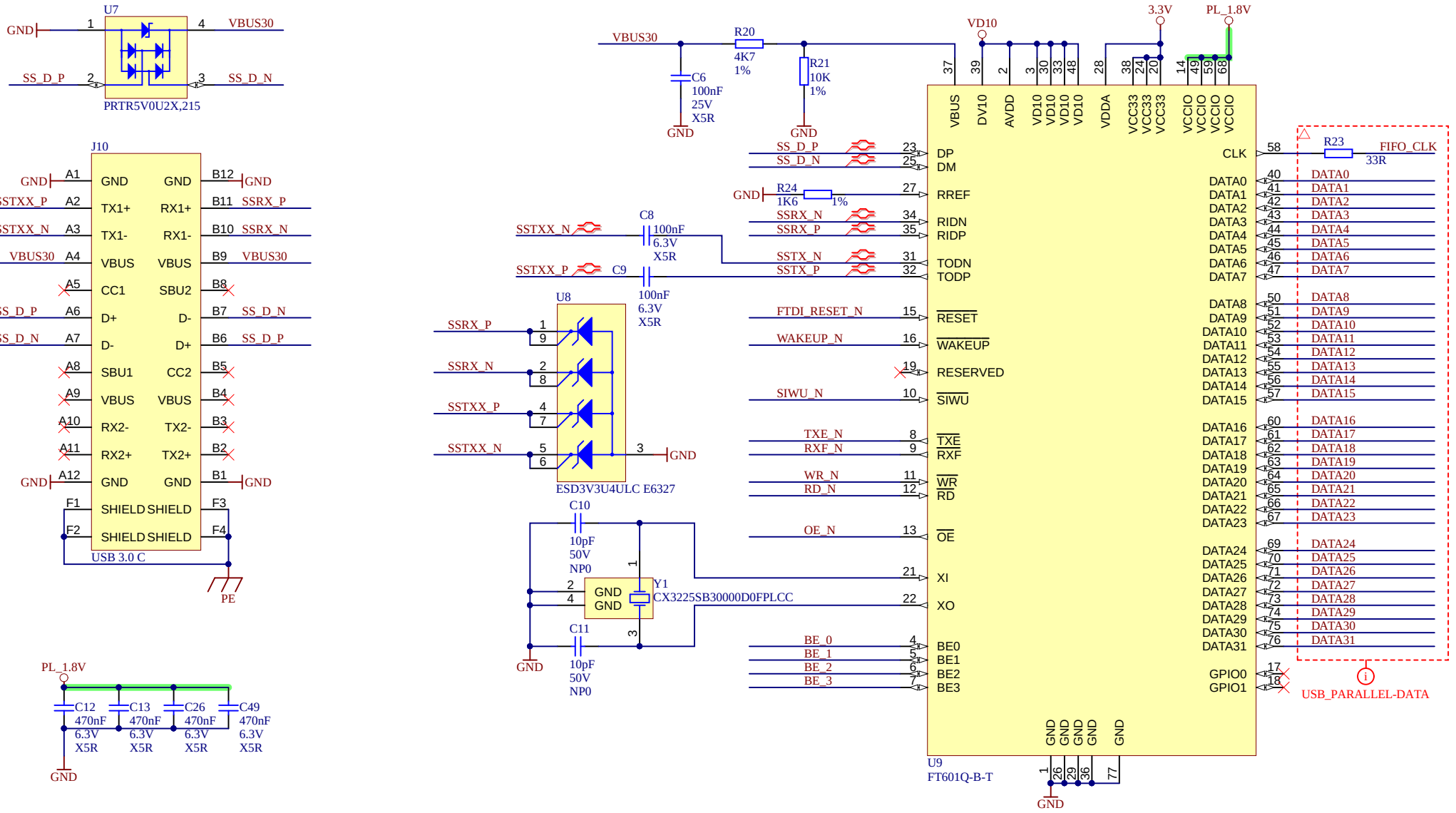
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page21 of 33
Filename: FTDI.SchDoc			



Title: TEC0850 - USB3.0			
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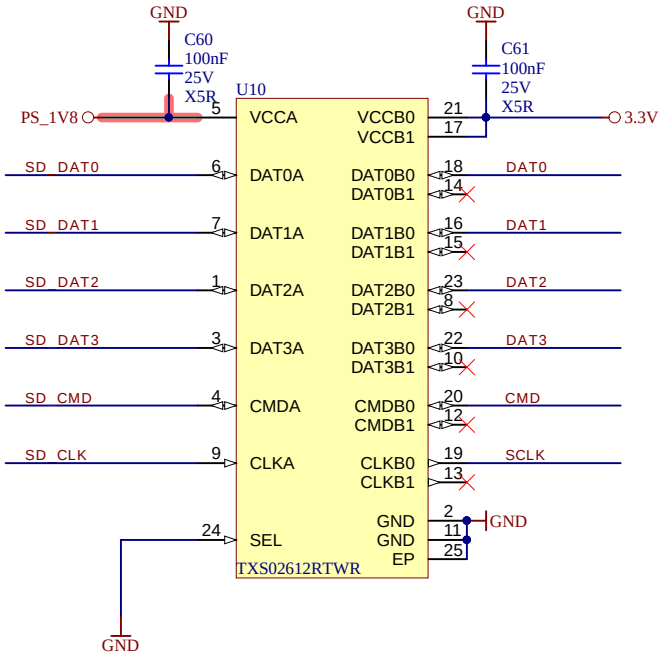
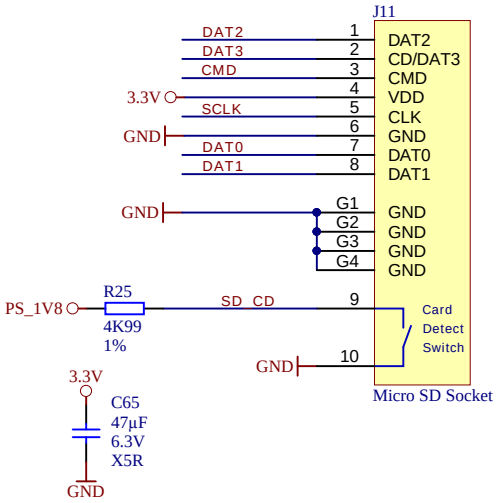
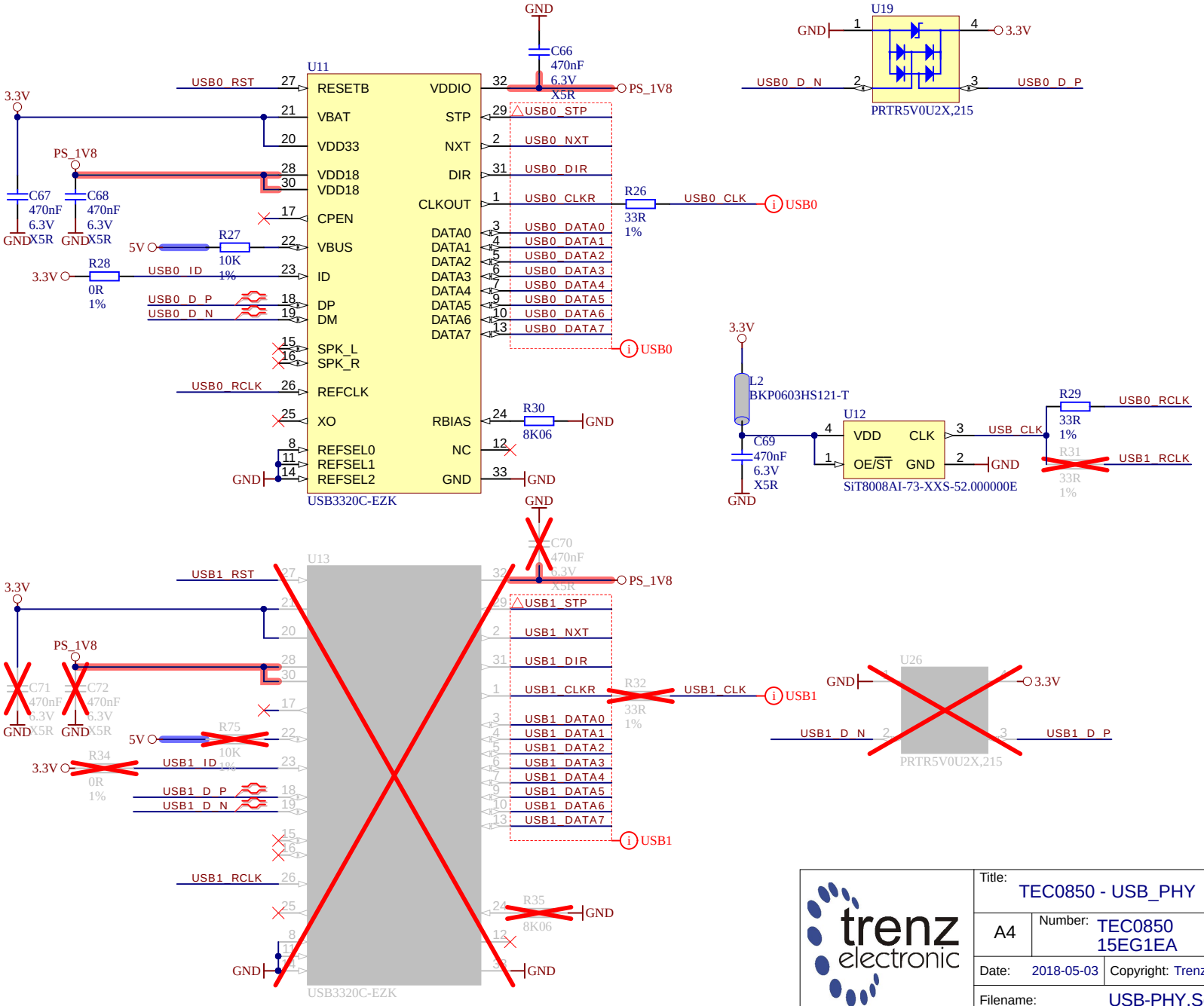
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page22 of 33
Filename: USB30.SchDoc			





trenz electronic	Title: TEC0850 - SDCard		
	A4	Number: TEC0850 15EG1EA	Rev. 02
	Date: 2018-05-03	Copyright: Trenz Electronic GmbH	Page23 of 33
	Filename: SDCard.SchDoc		



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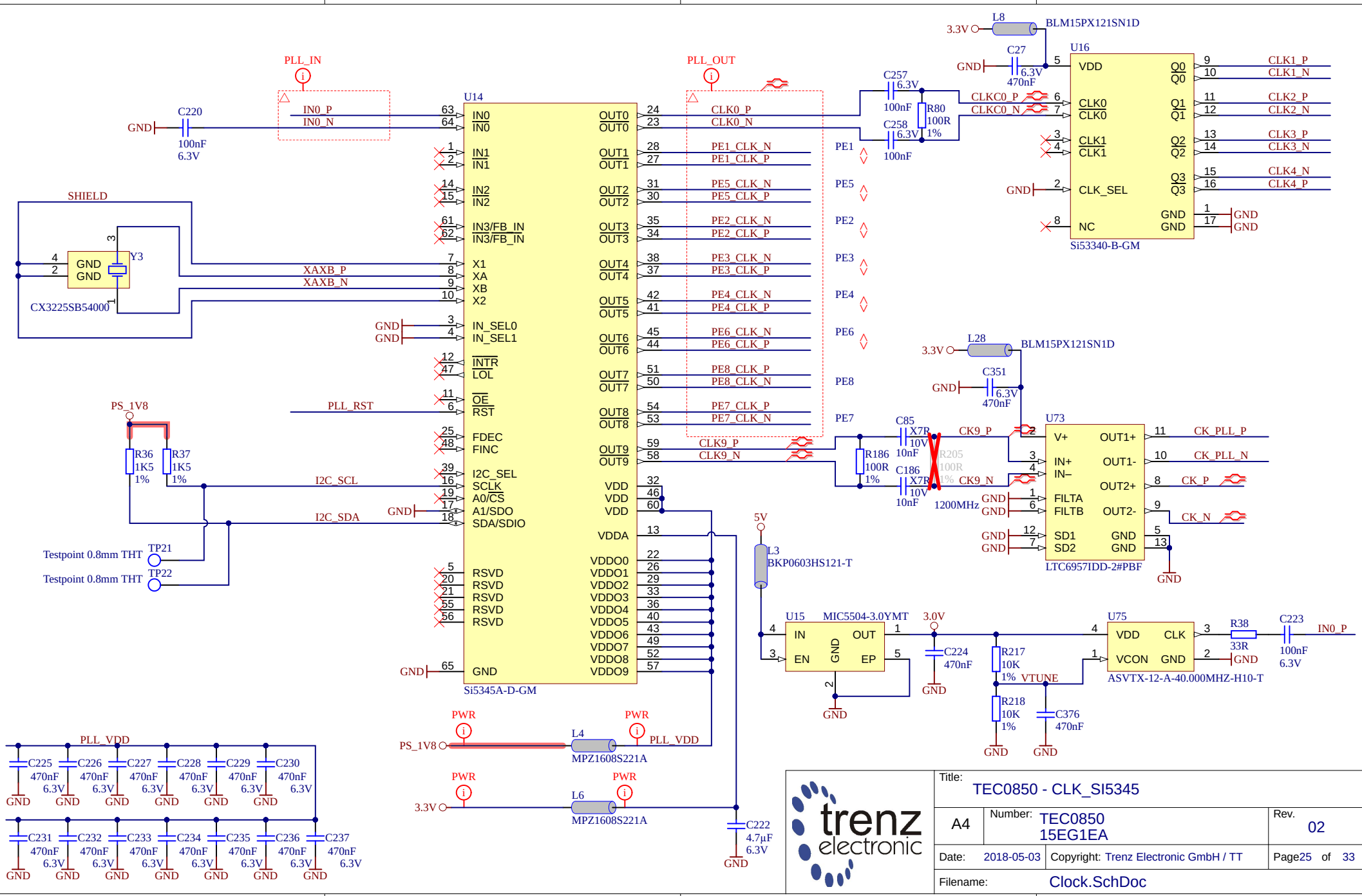
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page24 of 33
Filename: USB-PHY.SchDoc			



Title:	TEC0850 - CLK_SI5345		
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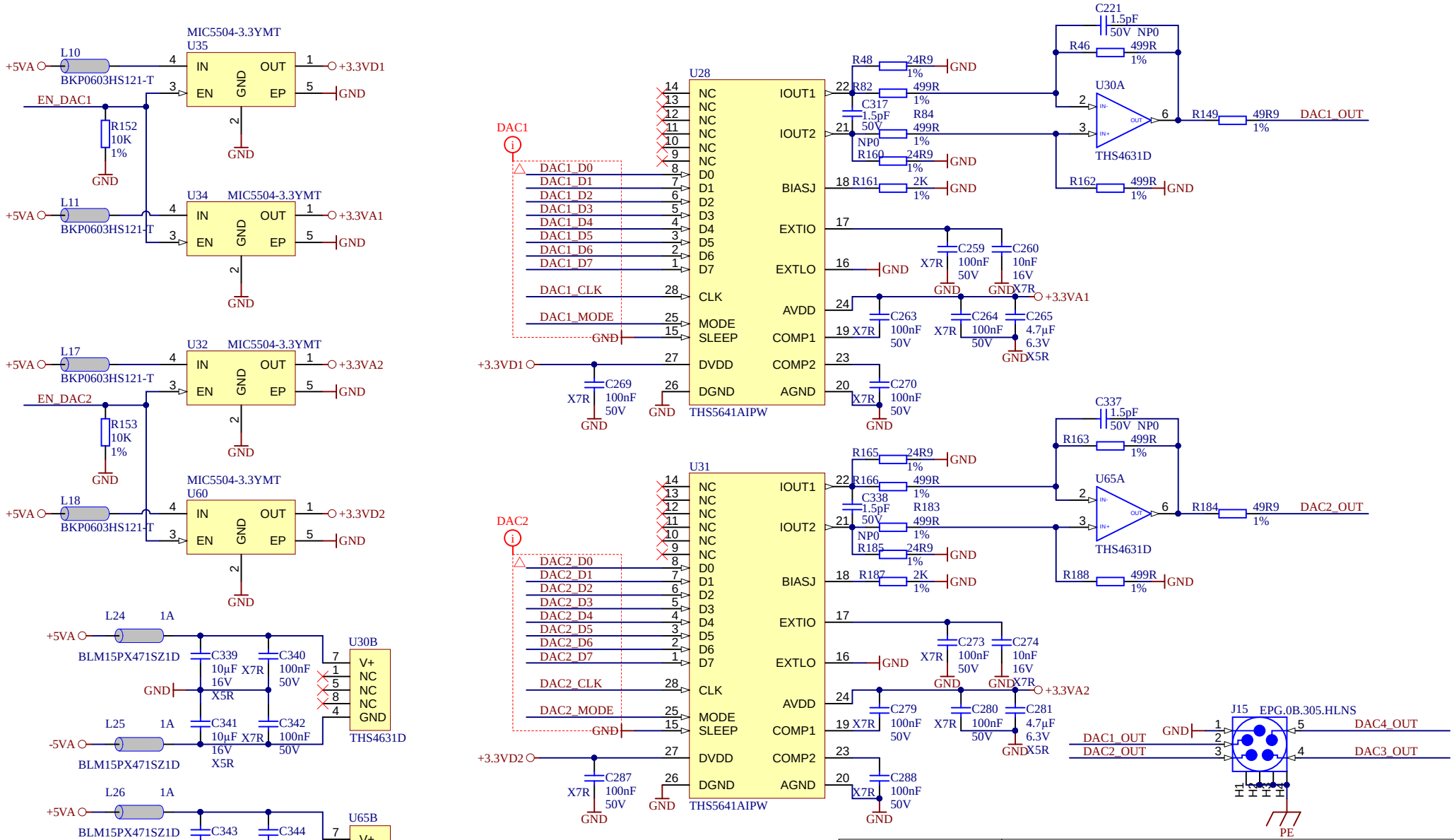
Date: 2018-05-03	Copyright: Trenz Electronic GmbH / TT		Page25 of 33
Filename:	Clock.SchDoc		



trenz electronic	Title: TEC0850 - DAC1_DAC2		
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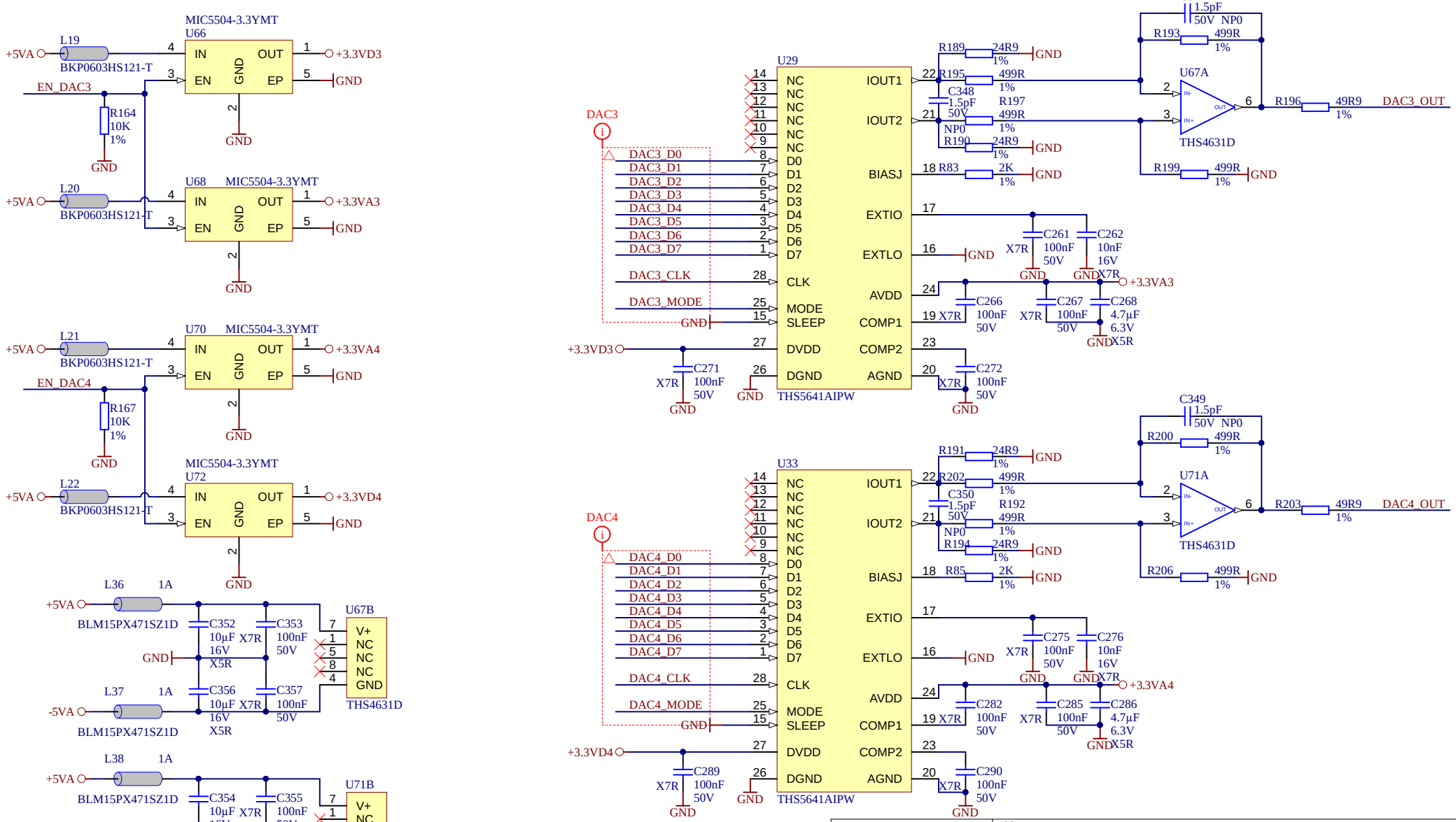
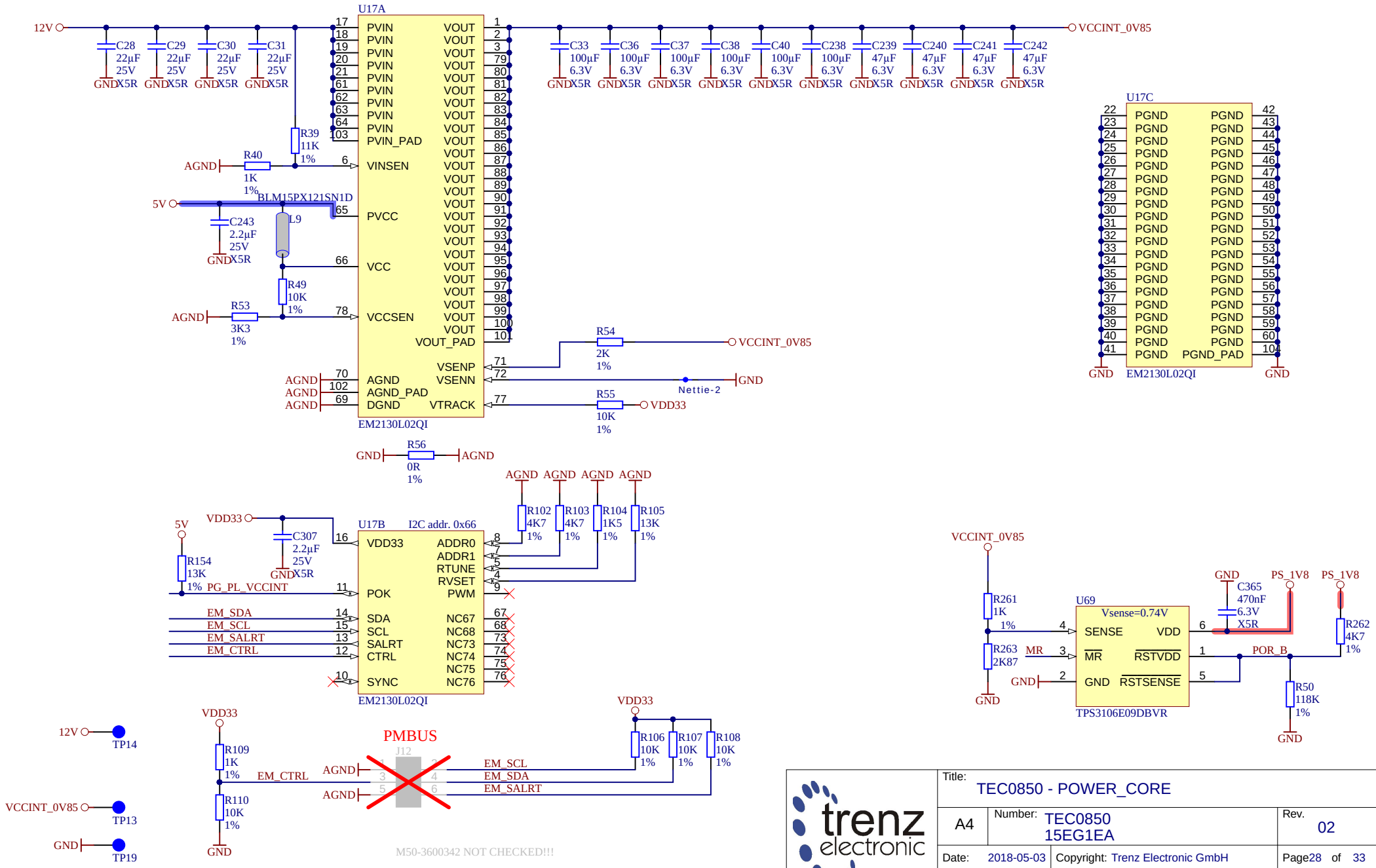
	Date: 2018-05-03	Copyright: Trenz Electronic GmbH	Page26 of 33
	Filename: DAC12_8bit.SchDoc		


MIC5504-3.3YMT
U66
L19
BKP0603HS121-T
+5VA
EN_DAC3
R164
10K
1%
GND
IN
OUT
EN
GND
EP
+3.3VD3
U68
L20
+3.3VA3
U70
L21
EN_DAC4
R167
U72
L22
+3.3VD4
L36
1A
BLM15PX471SZ1D
C352
10µF
16V
X5R
C353
100nF
50V
X7R
U67B
V+
NC
THS4631D
L37
-5VA
C356
C357
L38
C354
C355
U71B
L39
C358
C359
U29
DAC3
DAC3_D0
DAC3_D1
DAC3_D2
DAC3_D3
DAC3_D4
DAC3_D5
DAC3_D6
DAC3_D7
DAC3_CLK
DAC3_MODE
D0
D1
D2
D3
D4
D5
D6
D7
CLK
MODE
SLEEP
DVDD
DGND
IOUT1
IOUT2
BIASJ
EXTIO
EXTLO
AVDD
COMP1
COMP2
AGND
THS5641AIPW
R189
24R9
R195
499R
C348
1.5pF
50V
NP0
R197
R190
R83
2K
C261
C262
10nF
16V
C266
C267
C268
4.7µF
6.3V
X5R
C271
C272
C347
R193
U67A
R196
49R9
DAC3_OUT
R199
U33
DAC4
DAC4_D0
DAC4_D1
DAC4_D2
DAC4_D3
DAC4_D4
DAC4_D5
DAC4_D6
DAC4_D7
DAC4_CLK
DAC4_MODE
R191
R202
C350
R192
R194
R85
C275
C276
C282
C285
C286
C289
C290
C349
R200
U71A
R203
R206
trenz
electronic
Title:
TEC0850 - DAC3_DAC4
A4
Number:
TEC0850
15EG1EA
Rev.
02
Date:
2018-05-03
Copyright:
Trenz Electronic GmbH
Page27
of
33
Filename:
DAC34_8bit.SchDoc



Title: TEC0850 - POWER_CORE			
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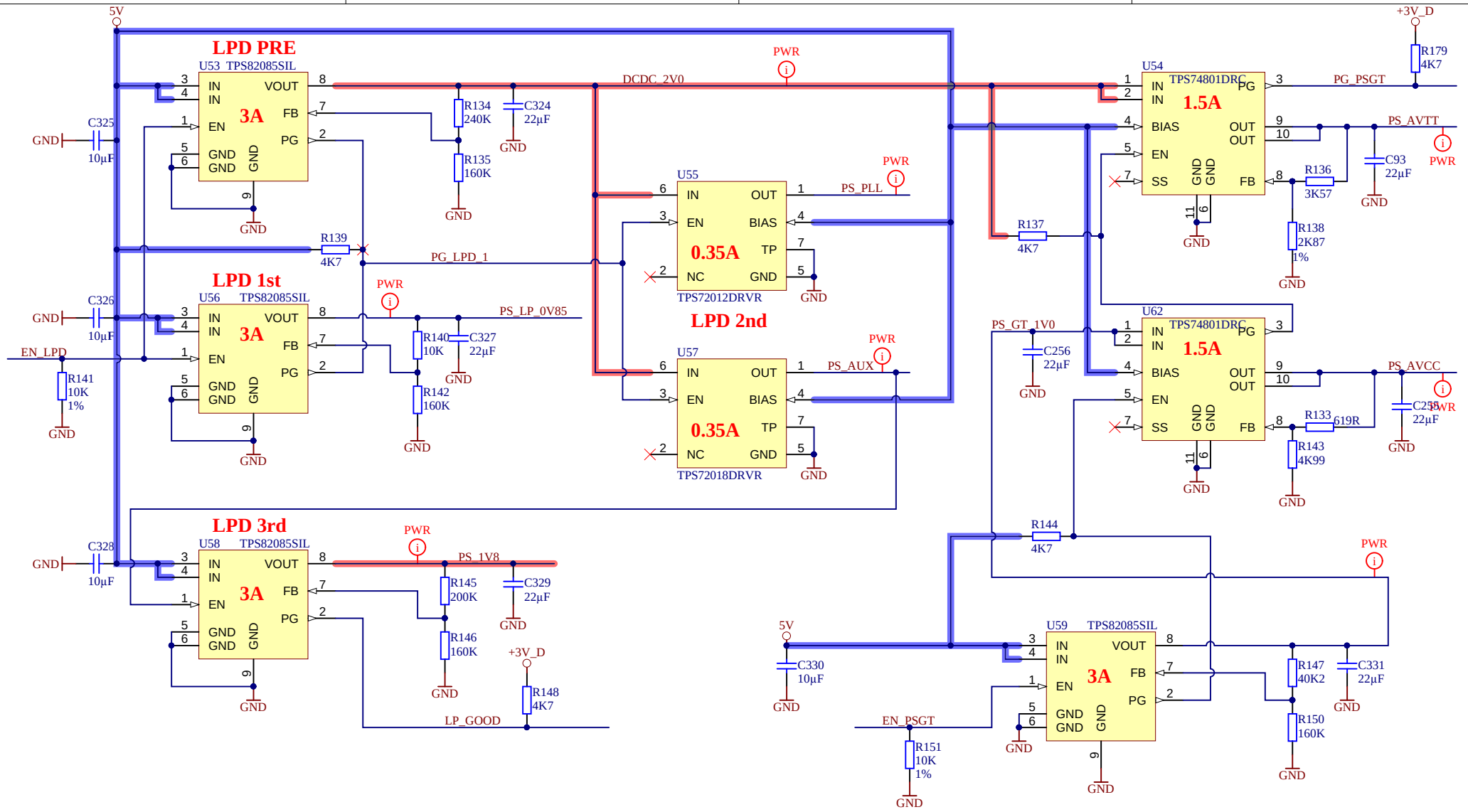
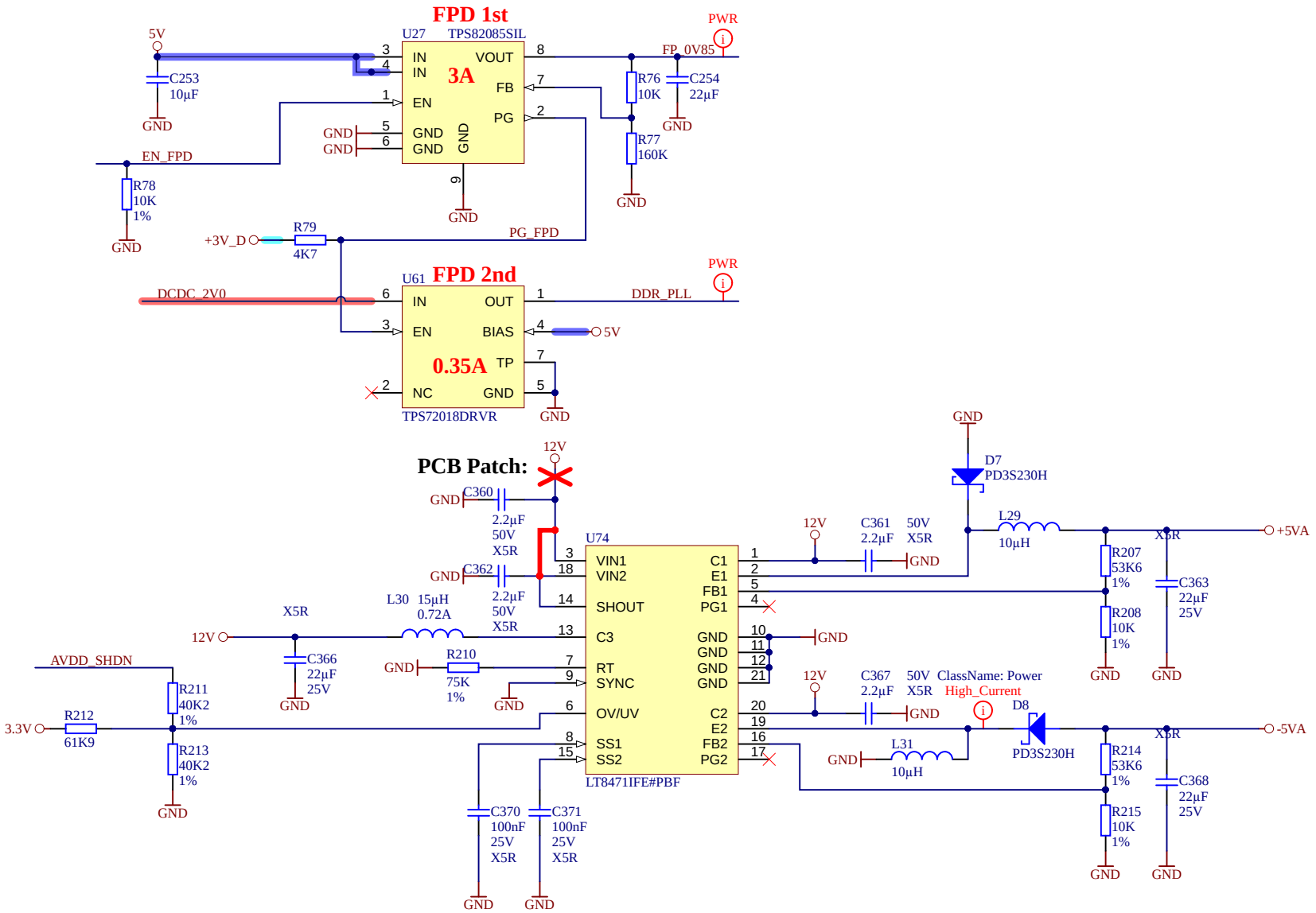
Date: 2018-05-03	Copyright: Trenz Electronic GmbH		Page28 of 33
Filename: PWR_CORE.SchDoc			



trenz electronic	Title: TEC0850 - POWER1		
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH / TT		Page29 of 33
Filename: POWER_PSLP.schdoc			



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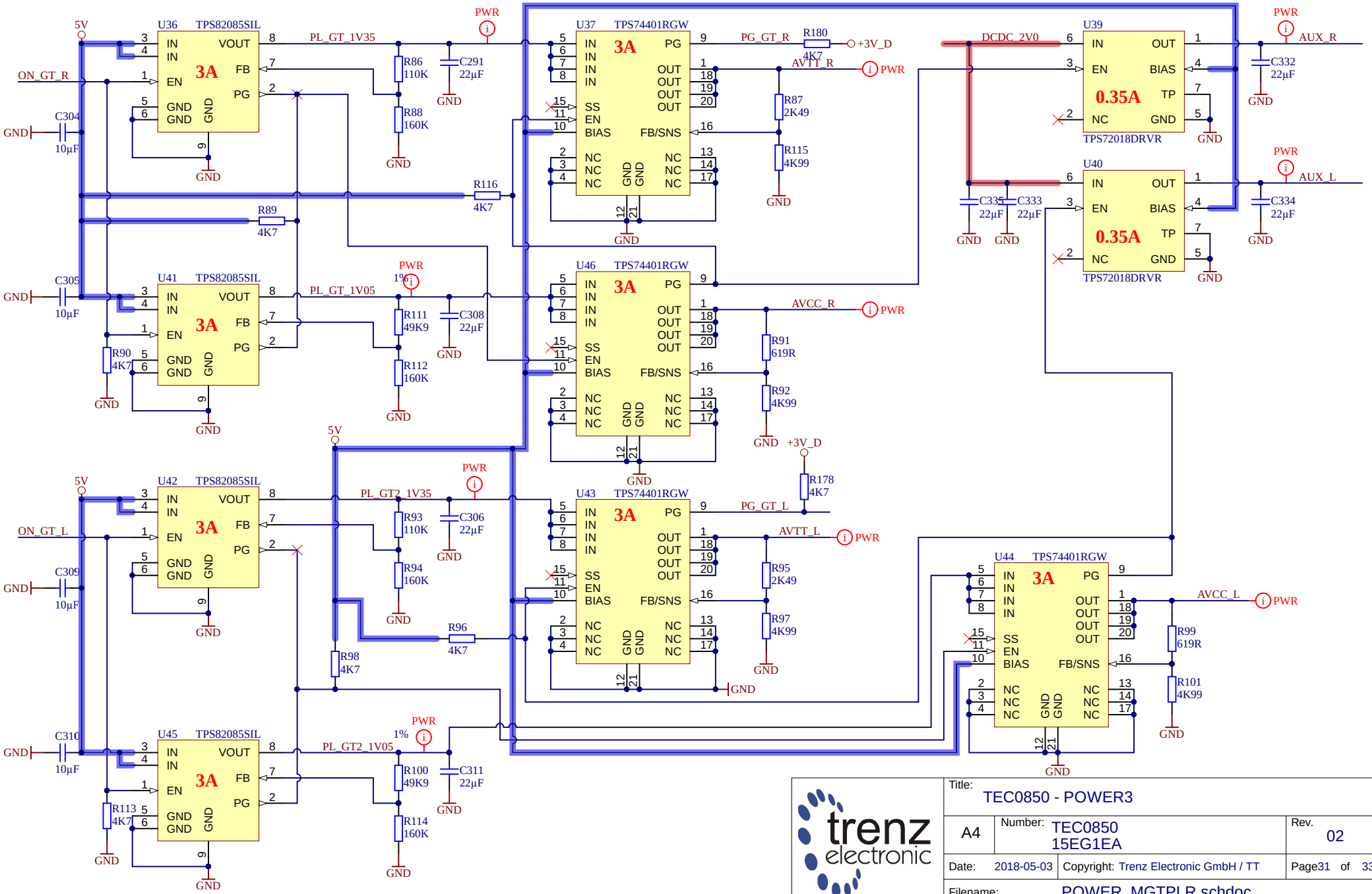
Date: 2018-05-03	Copyright: Trenz Electronic GmbH / TT	Page30 of 33
Filename: POWER_PSFP.schdoc		


U36 TPS82085SIL
U37 TPS74401RGW
U39
U40
U41 TPS82085SIL
U42 TPS82085SIL
U43 TPS74401RGW
U44 TPS74401RGW
U45 TPS82085SIL
U46 TPS74401RGW
TPS72018DRVR
TPS72018DRVR
3A
0.35A
5V
GND
PWR
ON_GT_R
ON_GT_L
PL_GT_1V35
PL_GT2_1V35
PL_GT_1V05
PL_GT2_1V05
PG_GT_R
PG_GT_L
AVTT_R
AVTT_L
AVCC_R
AVCC_L
DCDC_2V0
AUX_R
AUX_L
+3V_D
R86 110K
R87 2K49
R88 160K
R89 4K7
R90 4K7
R91 619R
R92 4K99
R93 110K
R94 160K
R95 2K49
R96 4K7
R97 4K99
R98 4K7
R99 619R
R100 49K9
R101 4K99
R111 49K9
R112 160K
R113 4K7
R114 160K
R115 4K99
R116 4K7
R178 4K7
R180 4K7
C291 22µF
C304 10µF
C305 10µF
C306 22µF
C308 22µF
C309 10µF
C310 10µF
C311 22µF
C332 22µF
C333 22µF
C334 22µF
C335 22µF
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Title: TEC0850 - POWER3
A4
Number: TEC0850 15EG1EA
Rev. 02
Date: 2018-05-03
Copyright: Trenz Electronic GmbH / TT
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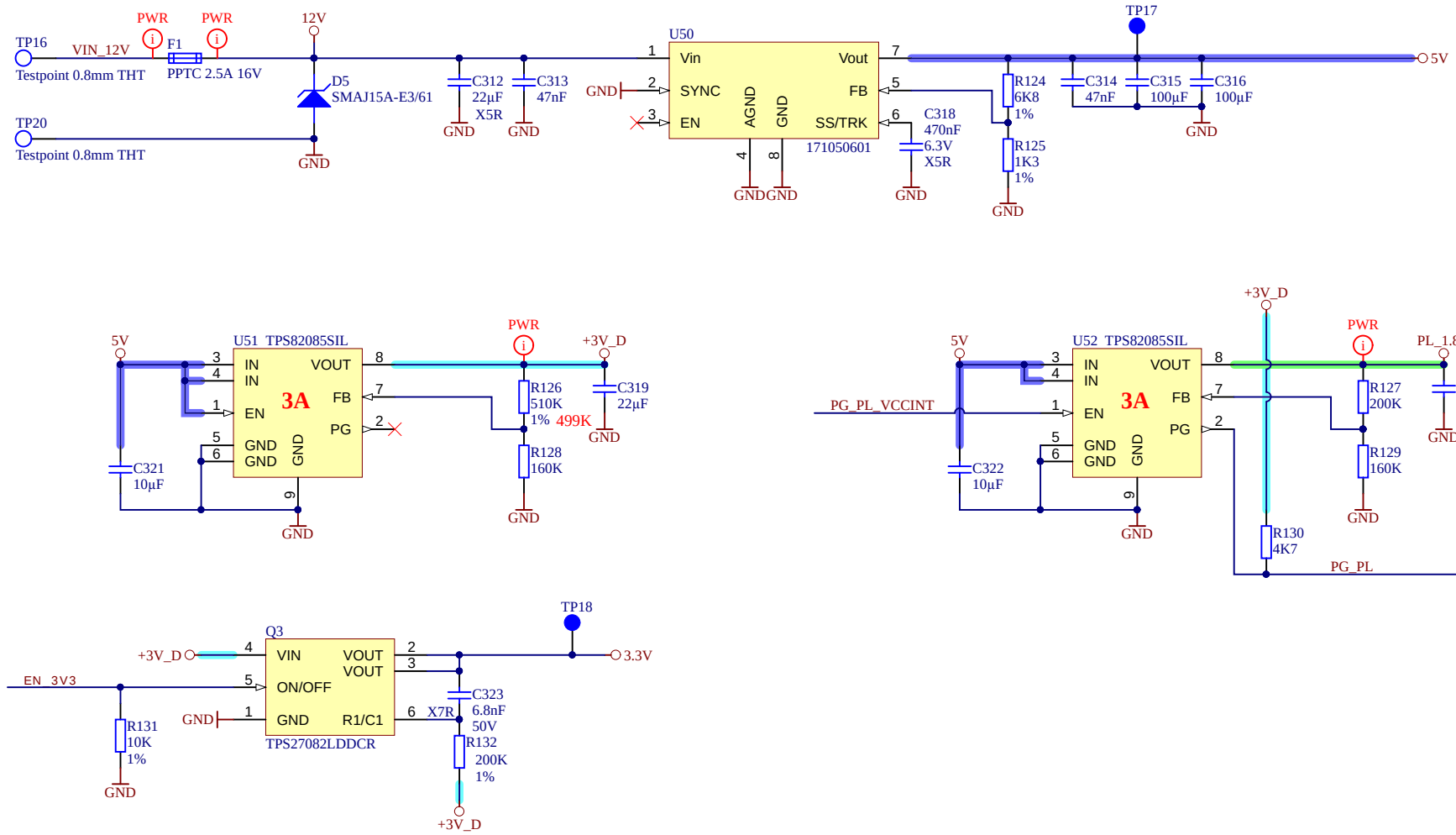
Filename: POWER_MGTPLR.schdoc



trenz electronic	Title: TEC0850 - POWER4		
A4	Number: TEC0850 15EG1EA		Rev. 02
Date: 2018-05-03	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

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Title: TEC0850 - Changes list		
A4	Number: TEC0850 15EG1EA	Rev. 02
Date: 2018-05-03	Copyright: Trenz Electronic GmbH	Page 33 of 33
Filename: Revision_Changes.SchDoc		