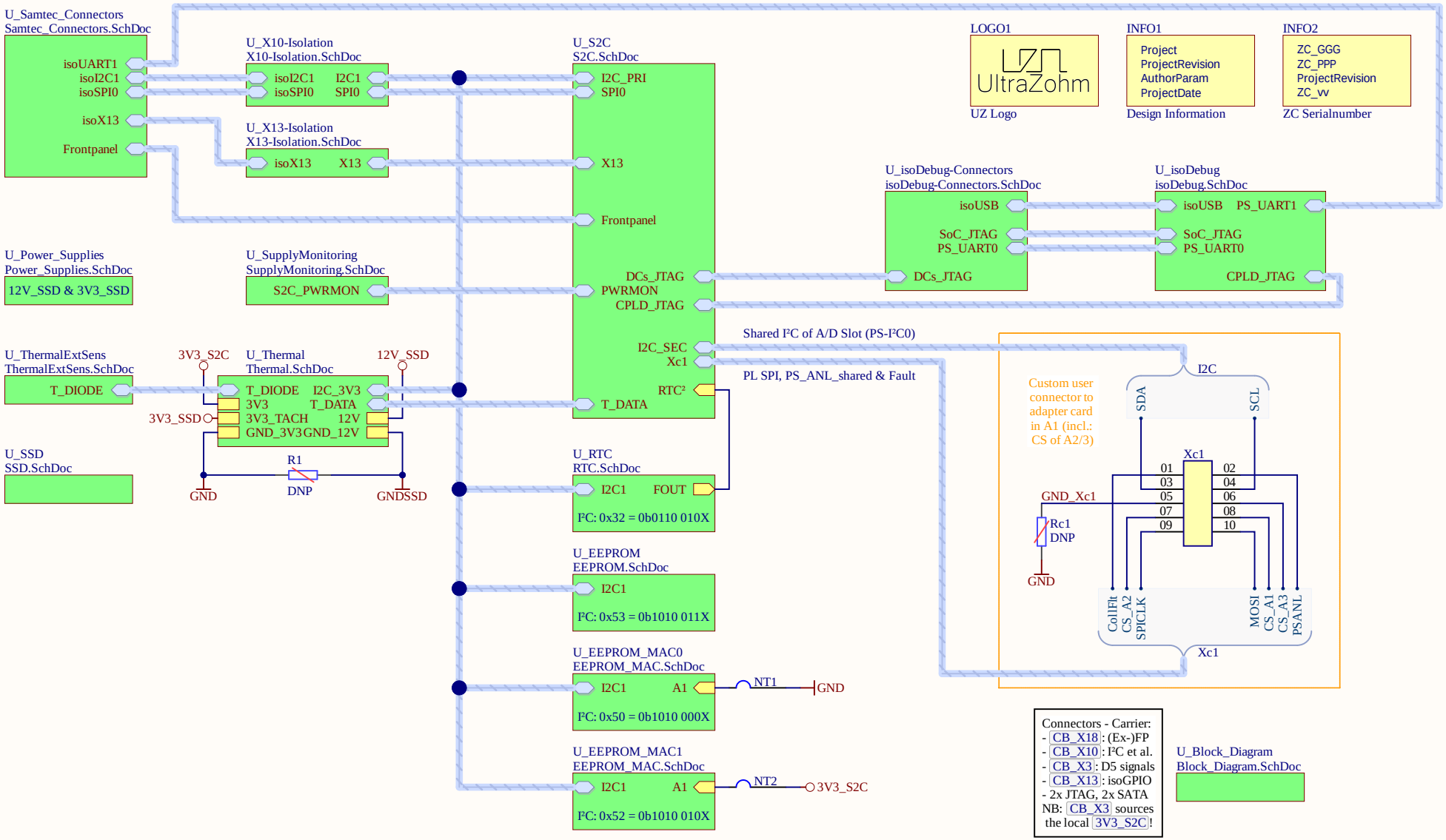
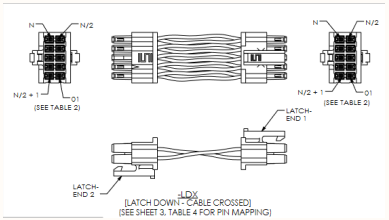


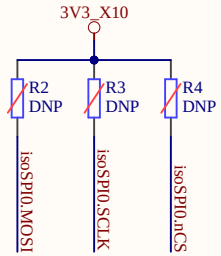
Title Top_sheet.SchDoc		**UltraZohm** www.ultrazohm.com
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	Date: 31/07/2025
Project: UZ_per_cb_upgrade.PrjPcb		Sheet 1 of 29

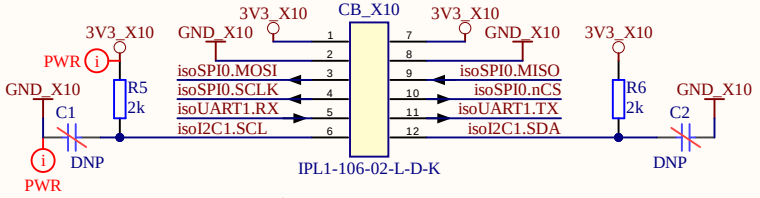
IPL1-106-01-L-D-RA-K
mmsd-06-30-f-04.00-d-k-ldx

Table 4- Pin Mapping		
End Option (Double)	END 1	END 2
-LUS	01	N/2
-LDS	01	N/2+1
-LUX	01	N
-LDX	01	01
-MUS	01	N/2
-MDS	01	N/2+1
-MUX	01	N
-MDX	01	01



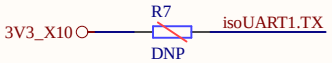
From/to Carrierboard X10 (cf. CB's XMOD.SchDoc - 1:1 link)



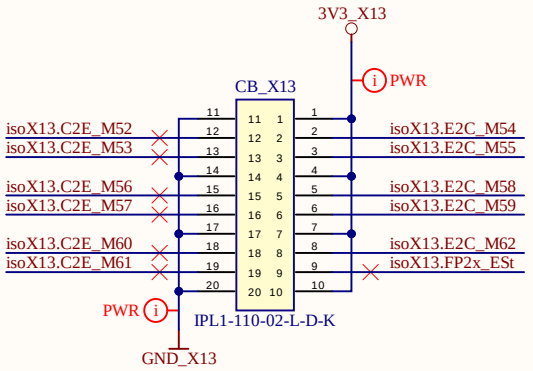


Level shifting on CB: TXS0108EQPWRQ1 ← Notes on this:

X1 on Rev01: IPL1-106-01-X-D-RA-K



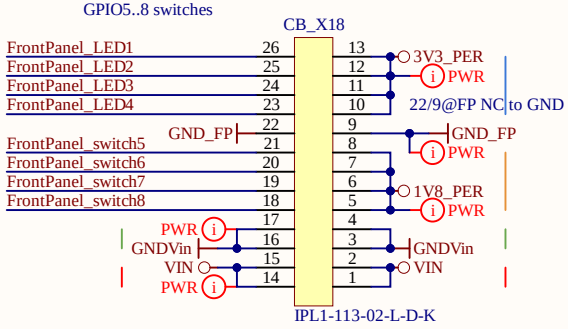
On the CB, the I²C lines have pull-up spots
On the CB's primary/1V8 side, this is fixed
This board links to the CB's secondary side
This board thus is able to add 3V3 pull-ups
No pull-ups needed on push/pull outputs(!)
Pull-ups on A ins (MISO/RX) may be req'd
Pull-up spots for B ins could be added here



Aka: M(IO)31...

From/to CarrierBoard X18 (taken from FP's frontpanel.SchDoc)

GPIO1..4 leds
GPIO5..8 switches



Regular wiring: Cable from CB connected here...

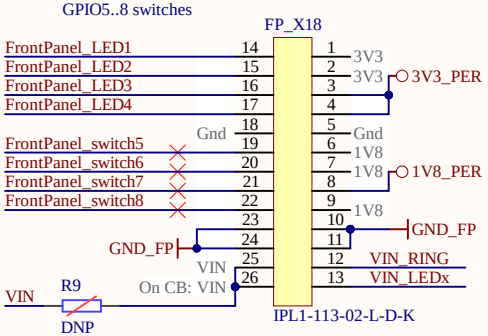
In harness-based FP:

LED1	14
LED2	15
LED3	16
LED4	17
SW3	19
SW1	20
SW2	21

All other pins are NC :-)

From/to Front Panel (taken from CB's FrontPanel.SchDoc)

GPIO1..4 leds
GPIO5..8 switches



Erroneous wiring: Cable from CB connected here!

In harness-based FP:

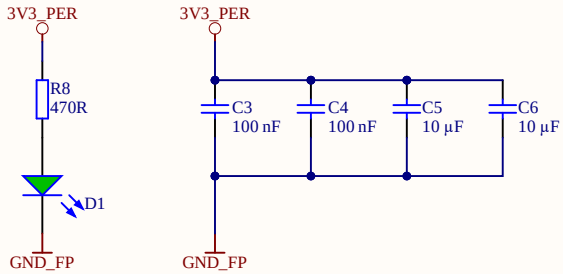
All other pins are NC :-)

08: SWx com. (1V8)

10: SW3 LED GND

12: SW3 LED 24V
13: LEDx com. (24V)

Connections/Supplies "from CB"

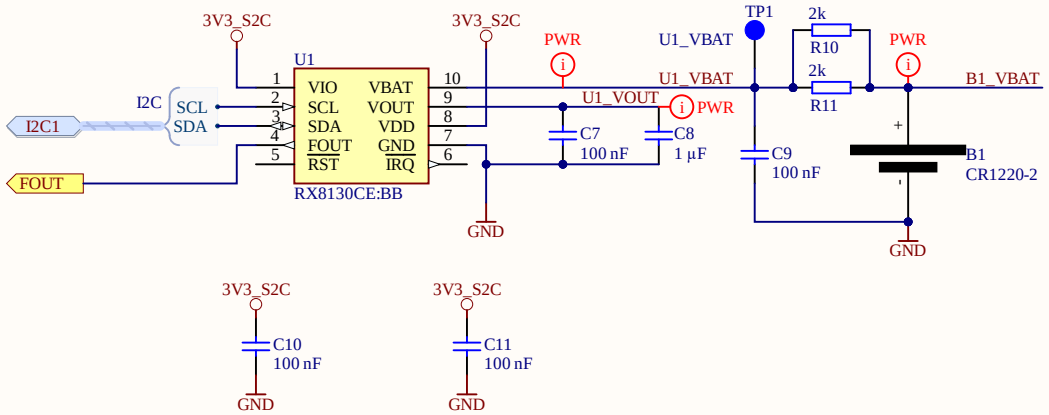


NB: Connector CB_X3 (cf. S2C_IOs1V8) also has to be linked to carrier at all times!

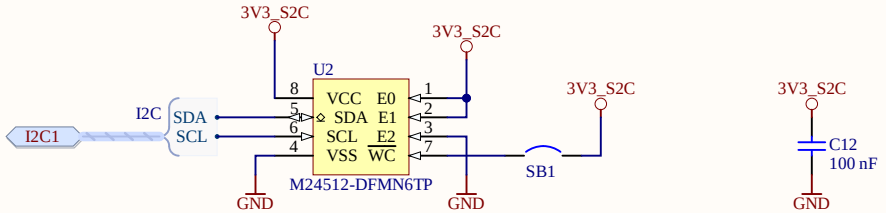
Note to installer:
- v4a (harness): 0R
- v4b (zBoard): DNP

Title Samtec_Connectors.SchDoc		UltraZohm www.ultrazohm.com
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025 Sheet 2 of 29

I²C address: 0x32 = 0b0110 010X



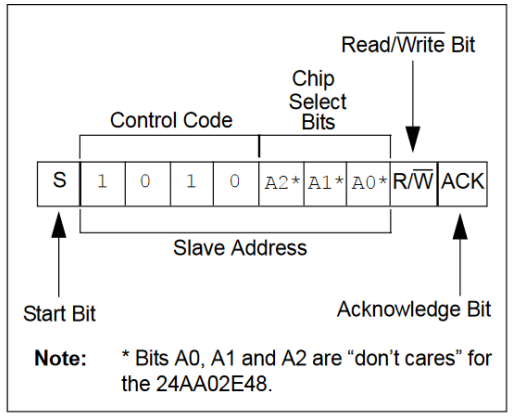
Title RTC.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 3 of 29	



I²C address 0: 0b1010011 = 0x53
I²C address 1: 0b1011011 = 0x5B

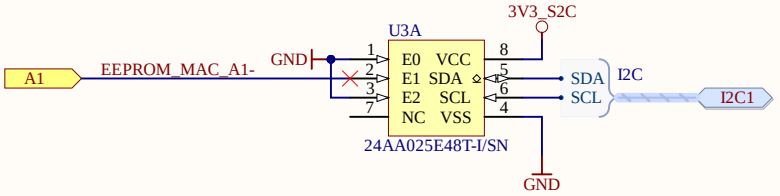
Title EEPROM.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025 Sheet 4 of 29	

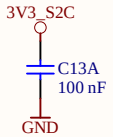
FIGURE 5-1: CONTROL BYTE ALLOCATION



Note: * Bits A0, A1 and A2 are “don’t cares” for the 24AA02E48.

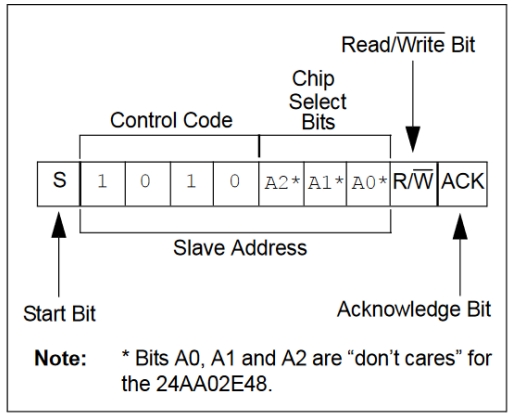
I2C-bus slave address: 0xAz = 0b1010 zzzX





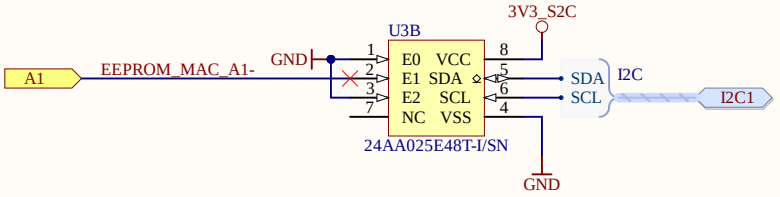
Title EEPROM_MAC.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 5.1 of 29	

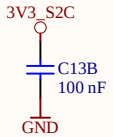
FIGURE 5-1: CONTROL BYTE ALLOCATION



Note: * Bits A0, A1 and A2 are "don't cares" for the 24AA02E48.

I2C-bus slave address: 0xAz = 0b1010 zzzX





Title EEPROM_MAC.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 5.2 of 29	

UZ(C/Ext.) Rev04/02

GTR0: SATA 2280
GTR1: SATA 2242
GTR2: SGMII
GTR3: N/A

NB: GTR0 (@X17A) is the non-crossed one

UZ(C/Ext.) Rev04/03

GTR0: SATA 2242
GTR1: SATA 2280

X17B @ CB

X17A @ CB

CB_X17

GTR1_RX_P SA2 A+ A+ TX A+ SB2 GTR0_TX_P
GTR1_RX_N SA3 A- A- TX A- SB3 GTR0_TX_N
SATA:
GTR1_TX_N SA5 B- B- RX B- SB5 GTR0_RX_N
GTR1_TX_P SA6 B+ B+ RX B+ SB6 GTR0_RX_P

SA1 GND GND SB1
SA4 GND GND SB4
SA7 GND GND SB7
MH1 MH2

GNDSSD 1 2 XUTS-0722-2070

NB: "CB un-crossing" directly at connector above
Mechanical: Pin 7 at notch (i.e., the L's short side)

UZ(C) Rev05 (w/ FP)

GTR0: M.2 !SATA
GTR1: SATA 2280
GTR2: SGMII
GTR3: NC

Valid for FP Rev01/2

J1 1-2199230-5

Key M
Platform Side Pinout

3V3_SSD	3.3 V	CONFIG_3	GNDSSD
	3.3 V	GND	
	FULL_CARD_POWER_OFF# (0/1.8V or 3.3V)	GND	
	W_DISABLE1# (0/3.3V)	USB_D+	
	GPIO_9/DAS/DSS#/LED_1# (0/3.3V)	USB_D-	
	CONNECTOR KEY B	GND	
	CONNECTOR KEY B	CONNECTOR KEY B	
	CONNECTOR KEY B	CONNECTOR KEY B	
	CONNECTOR KEY B	CONNECTOR KEY B	
	GPIO_5 (0/1.8V)	CONNECTOR KEY B	
	GPIO_6 (0/1.8V)	CONFIG_0	
	GPIO_7 (0/1.8V)	GPIO_11 (0/1.8V)	
	GPIO_10 (0/1.8V)	DPR (0/1.8V)	
	GPIO_8 (0/1.8V)	GND	
	UIM-RESET	PERn1/USB3.1-Rx-/SSIC-RxN	
	UIM-CLK	PERp1/USB3.1-Rx+/SSIC-RxP	
	UIM-DATA	GND	
	UIM-PWR	PETn1/USB3.1-Tx-/SSIC-TxN	
	DEVSLP	PETp1/USB3.1-Tx+/SSIC-TxP	
	GPIO_0/SMB_CLK/(0/1.8V)	GND	
	GPIO_1/SMB_DATA/(0/1.8V)	PERn0/SATA-B+	
	GPIO_2/ALERT# (0/1.8V)	PERp0/SATA-B-	
	GPIO_3 (0/1.8V)	GND	
	GPIO_4 (0/1.8V)	PETn0/SATA-A-	
	PERST# (0/3.3V)	PETp0/SATA-A+	
	CLKREQ# (0/3.3V)	GND	
	PEWAKE# (0/3.3V)	REFCLKn	
MFG_DAT	NC	REFCLKp	GNDSSD
MFG_CLK	NC	GND	
	SUSCLK(32kHz) (0/3.3V)	RESET# (0/1.8V)	
	3.3 V	CONFIG_1	
3V3_SSD	3.3 V	GND	
	3.3 V	GND	
		CONFIG_2	
GNDSSD	GND		
	GND		

HS

GTR1_RX_P
GTR1_RX_N
GTR1_TX_N
GTR1_TX_P

TP2 J1PCIe/nSATA
3V3_SSD
R12
10k
GNDSSD

J1a NGFF Snap GND F1
M.2 NGFF Socket 2242BM

J1b GND NGFF Snap F1
M.2 NGFF Socket 2280BM

GNDSSD

J2a NGFF Snap GND F1
M.2 NGFF Socket 2242BM GNDSSD

MECH2a
SMTSOM325BTR

C14 10 nF C15 100 nF C16 10 µF
C17 10 nF C18 100 nF C19 10 µF
C20 10 nF C21 100 nF C22 10 µF
C23 10 nF C24 100 nF C25 10 µF
3V3_SSD GNDSSD

Cs for M.2:10n/100n/10µ

J2 1-2199230-5

Key M
Platform Side Pinout

3V3_SSD	3.3 V	CONFIG_3	GNDSSD
	3.3 V	GND	
	FULL_CARD_POWER_OFF# (0/1.8V or 3.3V)	GND	
	W_DISABLE1# (0/3.3V)	USB_D+	
	GPIO_9/DAS/DSS#/LED_1# (0/3.3V)	USB_D-	
	CONNECTOR KEY B	GND	
	CONNECTOR KEY B	CONNECTOR KEY B	
	CONNECTOR KEY B	CONNECTOR KEY B	
	CONNECTOR KEY B	CONNECTOR KEY B	
	GPIO_5 (0/1.8V)	CONNECTOR KEY B	
	GPIO_6 (0/1.8V)	CONFIG_0	
	GPIO_7 (0/1.8V)	GPIO_11 (0/1.8V)	
	GPIO_10 (0/1.8V)	DPR (0/1.8V)	
	GPIO_8 (0/1.8V)	GND	
	UIM-RESET	PERn1/USB3.1-Rx-/SSIC-RxN	
	UIM-CLK	PERp1/USB3.1-Rx+/SSIC-RxP	
	UIM-DATA	GND	
	UIM-PWR	PETn1/USB3.1-Tx-/SSIC-TxN	
	DEVSLP	PETp1/USB3.1-Tx+/SSIC-TxP	
	GPIO_0/SMB_CLK/(0/1.8V)	GND	
	GPIO_1/SMB_DATA/(0/1.8V)	PERn0/SATA-B+	
	GPIO_2/ALERT# (0/1.8V)	PERp0/SATA-B-	
	GPIO_3 (0/1.8V)	GND	
	GPIO_4 (0/1.8V)	PETn0/SATA-A-	
	PERST# (0/3.3V)	PETp0/SATA-A+	
	CLKREQ# (0/3.3V)	GND	
	PEWAKE# (0/3.3V)	REFCLKn	
MFG_DAT	NC	REFCLKp	GNDSSD
MFG_CLK	NC	GND	
	SUSCLK(32kHz) (0/3.3V)	RESET# (0/1.8V)	
	3.3 V	CONFIG_1	
3V3_SSD	3.3 V	GND	
	3.3 V	GND	
		CONFIG_2	
GNDSSD	GND		
	GND		

HS

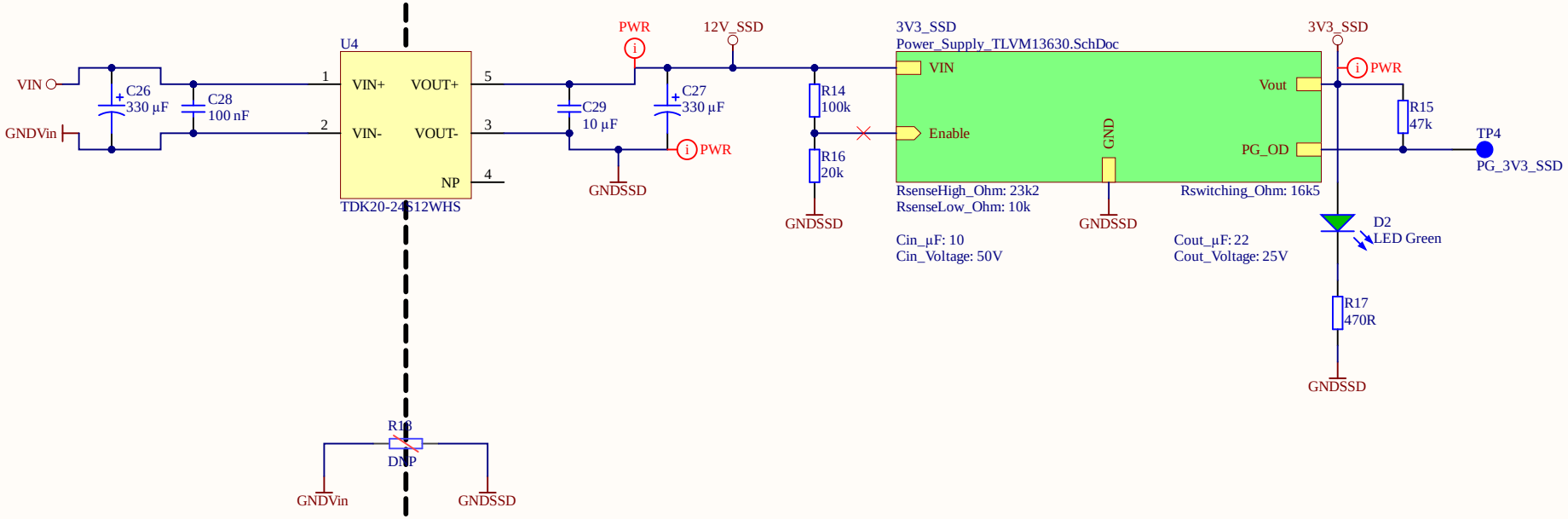
GTR0_RX_P
GTR0_RX_N
GTR0_TX_N
GTR0_TX_P

TP3 J2PCIe/nSATA
3V3_SSD
R13
10k
GNDSSD

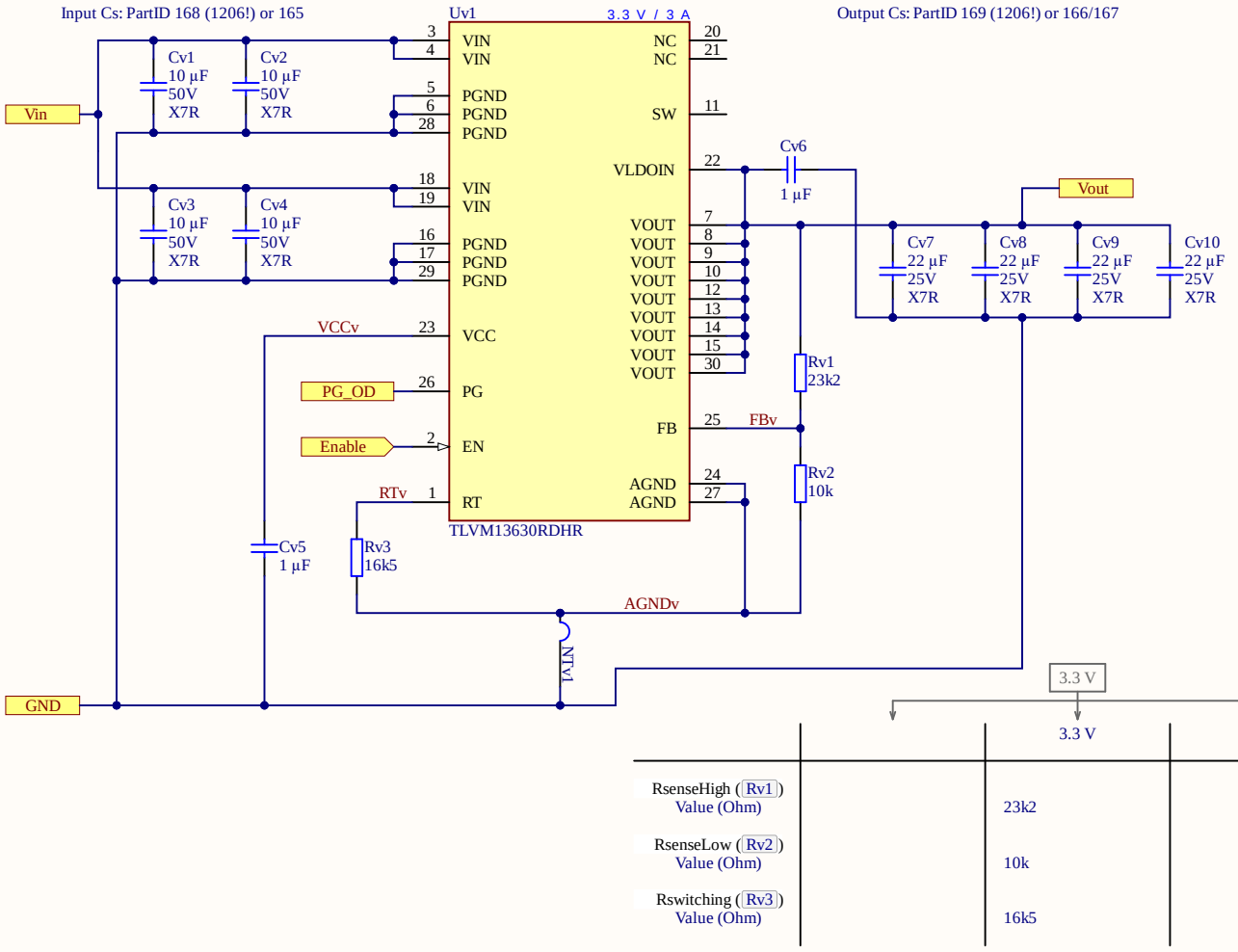
MECH1a
SMTSOM325BTR

MECH1b
SMTSOM325BTR

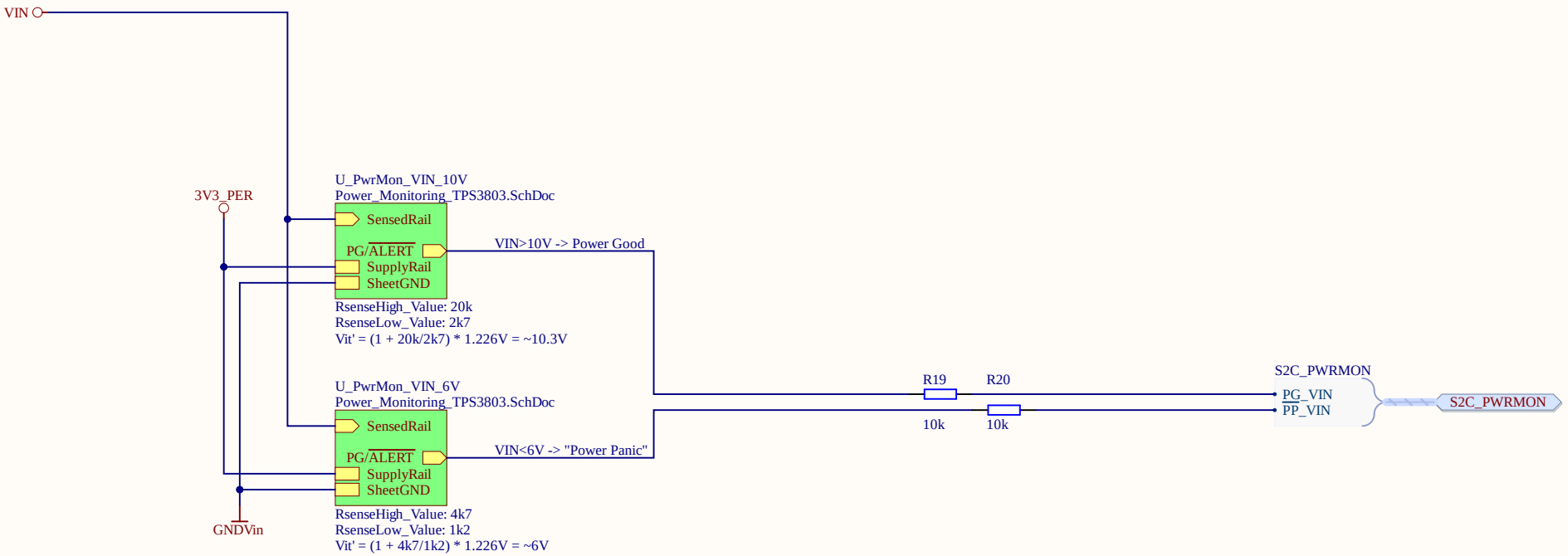
Title SSD.SchDoc		UltraZohm
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025
		Sheet 6 of 29



Title Power_Supplies.SchDoc		**UltraZohm**	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 7 of 29	

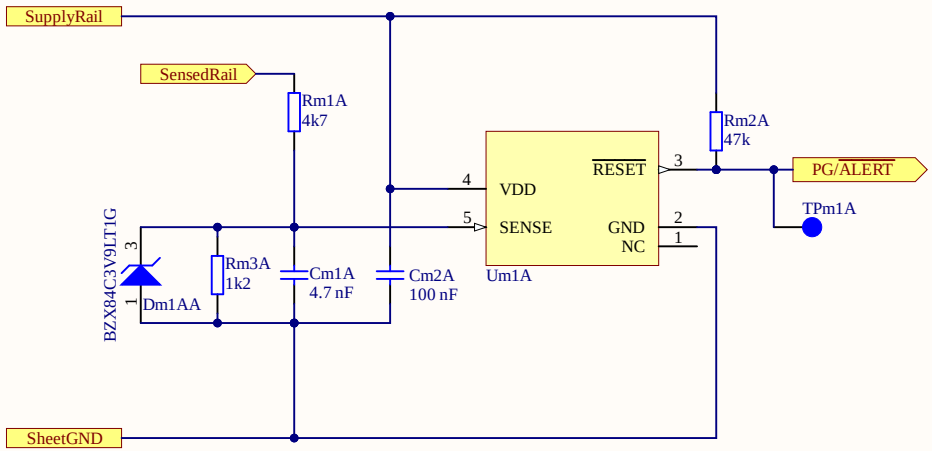


Title Power_Supply_TLVM13630.SchDoc		UltraZohm www.ultrazohm.com
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025 Sheet 8 of 29

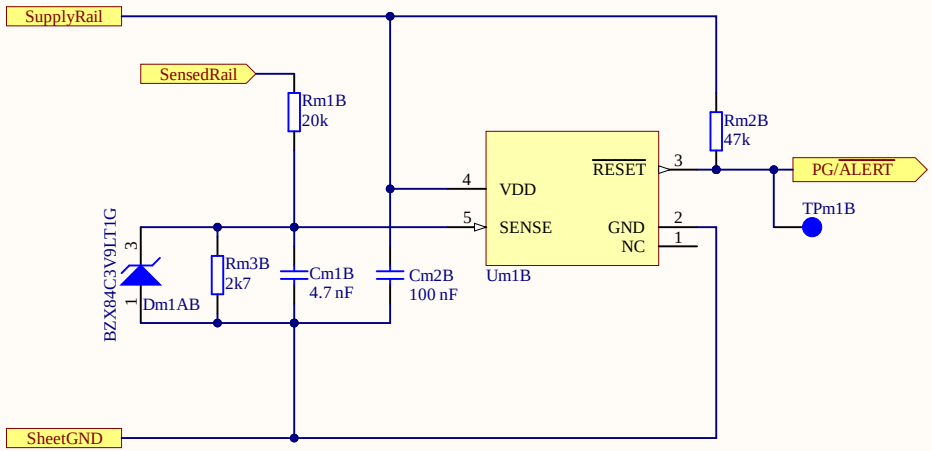


NB: GDC from 3V3_PER (via ICs & RCs) to GNDVin such that the sense rail is correct

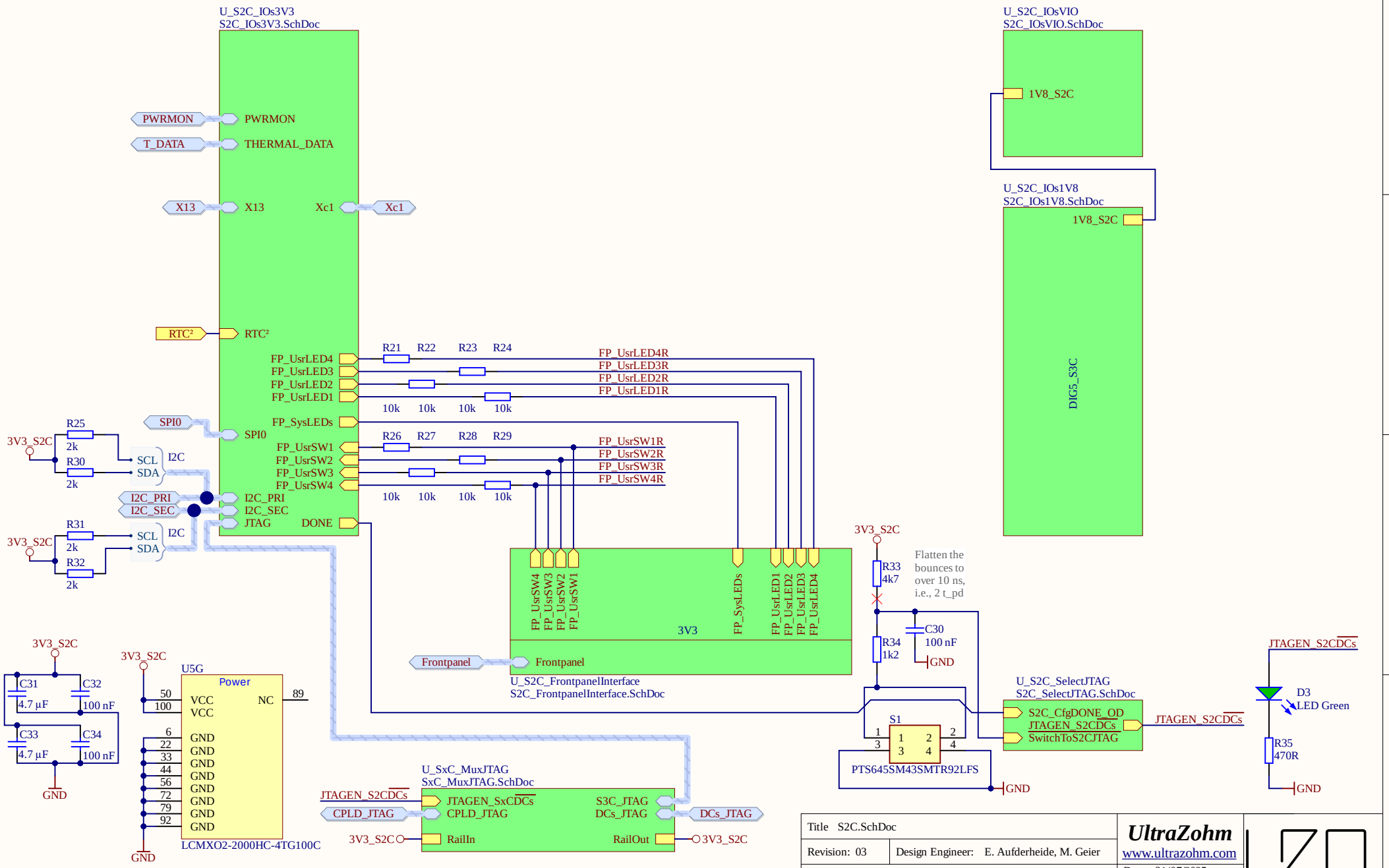
Title SupplyMonitoring.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 9 of 29	



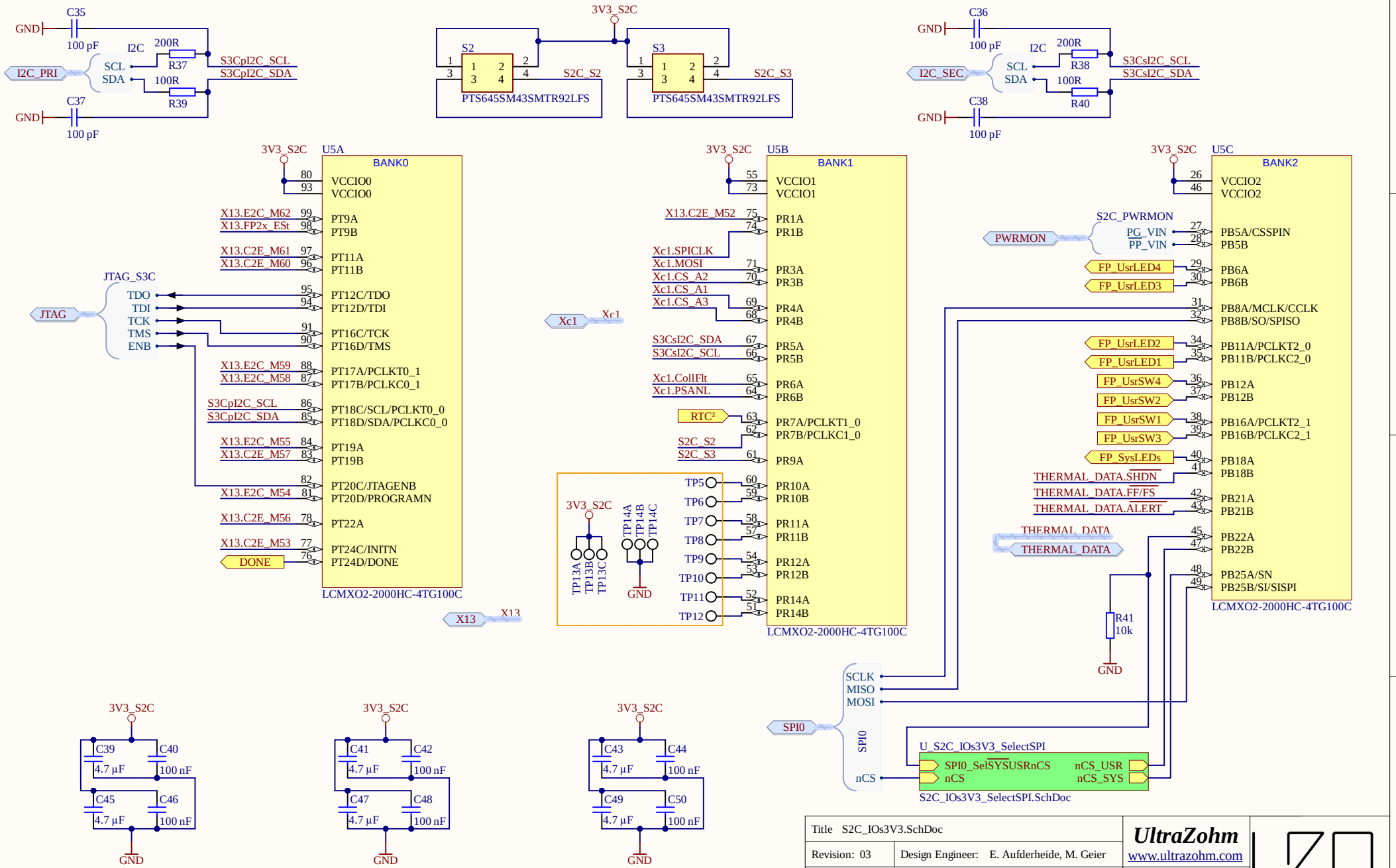
Title Power_Monitoring_TPS3803.SchDoc		UltraZohm	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 10.1of 29	

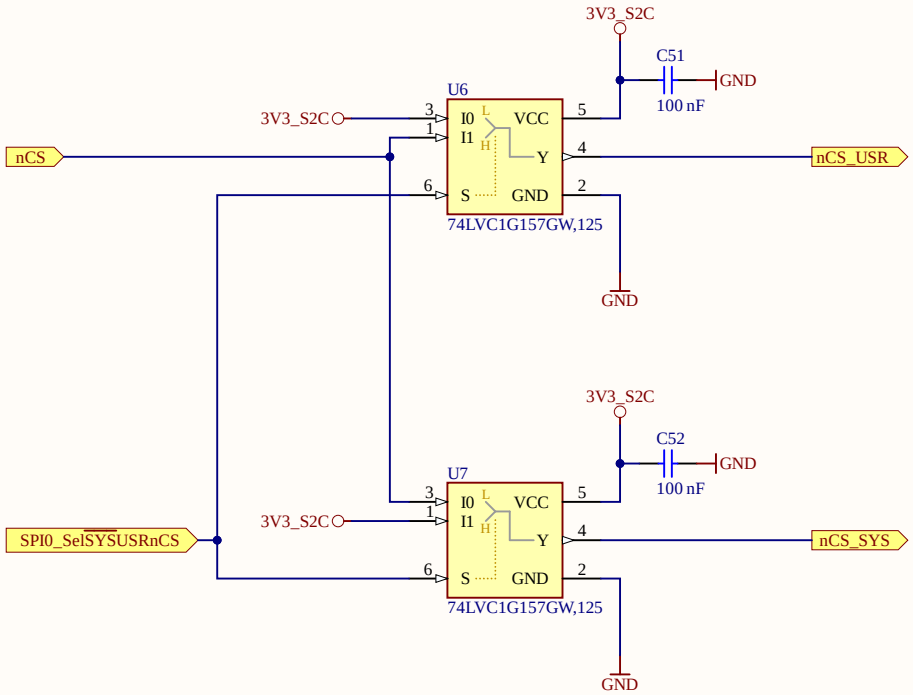


Title Power_Monitoring_TPS3803.SchDoc		UltraZohm	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 10.2 of 29	

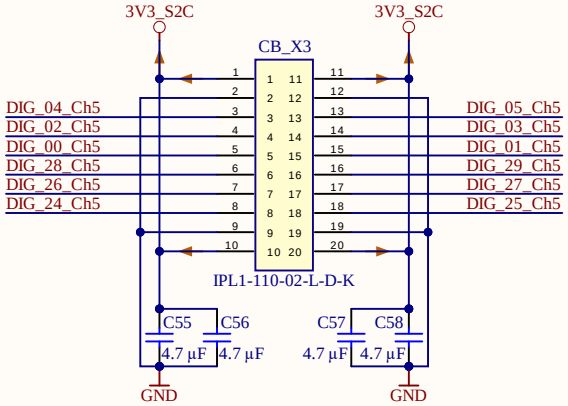


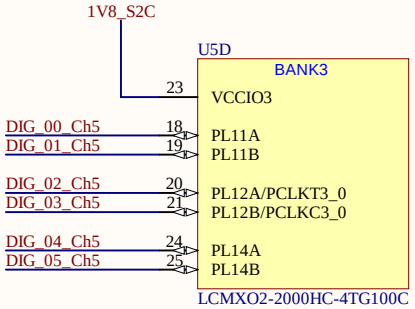
Title S2C.SchDoc		UltraZohm www.ultrazohm.com
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025 Sheet 11 of 29

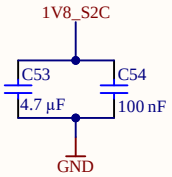

C35
GND
100 pF
I2C
200R
R37
SCL
SDA
100R
R39
I2C_PRI
S3CpI2C_SCL
S3CpI2C_SDA
C37
GND
100 pF
3V3_S2C
S2
S3
S2C_S2
S2C_S3
PTS645SM43SMTR92LFS
PTS645SM43SMTR92LFS
C36
GND
100 pF
I2C
200R
R38
SCL
SDA
100R
R40
I2C_SEC
S3CsI2C_SCL
S3CsI2C_SDA
C38
GND
100 pF
3V3_S2C
U5A
BANK0
80 VCCIO0
93 VCCIO0
X13.E2C_M62 99 PT9A
X13.FP2x_ESt 98 PT9B
X13.C2E_M61 97 PT11A
X13.C2E_M60 96 PT11B
JTAG_S3C
JTAG
TDO
TDI
TCK
TMS
ENB
95 PT12C/TDO
94 PT12D/TDI
91 PT16C/TCK
90 PT16D/TMS
X13.E2C_M59 88 PT17A/PCLKT0_1
X13.E2C_M58 87 PT17B/PCLKC0_1
S3CpI2C_SCL 86 PT18C/SCL/PCLKT0_0
S3CpI2C_SDA 85 PT18D/SDA/PCLKC0_0
X13.E2C_M55 84 PT19A
X13.C2E_M57 83 PT19B
82 PT20C/JTAGENB
X13.E2C_M54 81 PT20D/PROGRAMN
X13.C2E_M56 78 PT22A
X13.C2E_M53 77 PT24C/INITN
DONE 76 PT24D/DONE
LCMXO2-2000HC-4TG100C
X13
3V3_S2C
U5B
BANK1
55 VCCIO1
73 VCCIO1
X13.C2E_M52 75 PR1A
74 PR1B
Xc1.SPICLK
Xc1.MOSI 71 PR3A
Xc1.CS_A2 70 PR3B
Xc1.CS_A1
Xc1.CS_A3 69 PR4A
68 PR4B
Xc1
Xc1
S3CsI2C_SDA 67 PR5A
S3CsI2C_SCL 66 PR5B
Xc1.CollFlt 65 PR6A
Xc1.PSANL 64 PR6B
RTC²
63 PR7A/PCLKT1_0
62 PR7B/PCLKC1_0
S2C_S2
S2C_S3
61 PR9A
3V3_S2C
TP13A
TP13B
TP13C
TP14A
TP14B
TP14C
GND
TP5 60 PR10A
TP6 59 PR10B
TP7 58 PR11A
TP8 57 PR11B
TP9 54 PR12A
TP10 53 PR12B
TP11 52 PR14A
TP12 51 PR14B
LCMXO2-2000HC-4TG100C
3V3_S2C
U5C
BANK2
26 VCCIO2
46 VCCIO2
S2C_PWRMON
PWRMON
PG_VIN 27 PB5A/CSSPIN
PP_VIN 28 PB5B
FP_UsrLED4 29 PB6A
FP_UsrLED3 30 PB6B
31 PB8A/MCLK/CCLK
32 PB8B/SO/SPISO
FP_UsrLED2 34 PB11A/PCLKT2_0
FP_UsrLED1 35 PB11B/PCLKC2_0
FP_UsrSW4 36 PB12A
FP_UsrSW2 37 PB12B
FP_UsrSW1 38 PB16A/PCLKT2_1
FP_UsrSW3 39 PB16B/PCLKC2_1
FP_SysLEDs 40 PB18A
41 PB18B
THERMAL_DATA.SHDN
THERMAL_DATA.FF/FS 42 PB21A
THERMAL_DATA.ALERT 43 PB21B
THERMAL_DATA
THERMAL_DATA
45 PB22A
47 PB22B
48 PB25A/SN
49 PB25B/SI/SISPI
LCMXO2-2000HC-4TG100C
R41
10k
GND
SCLK
MISO
MOSI
SPI0
nCS
U_S2C_IOs3V3_SelectSPI
SPI0_SelSYSUSRnCS
nCS
nCS_USR
nCS_SYS
S2C_IOs3V3_SelectSPI.SchDoc
3V3_S2C
C39
4.7 µF
C40
100 nF
C45
4.7 µF
C46
100 nF
GND
3V3_S2C
C41
4.7 µF
C42
100 nF
C47
4.7 µF
C48
100 nF
GND
3V3_S2C
C43
4.7 µF
C44
100 nF
C49
4.7 µF
C50
100 nF
GND
Title S2C_IOs3V3.SchDoc
Revision: 03
Design Engineer: E. Aufderheide, M. Geier
Project: UZ_per_cb_upgrade.PrjPcb
UltraZohm
www.ultrazohm.com
Date: 31/07/2025
Sheet 12 of 29

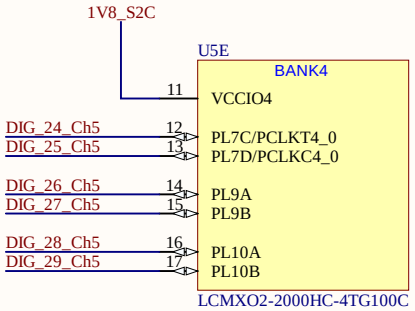


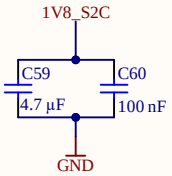
Title S2C_IOs3V3_SelectSPI.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 13 of 29	

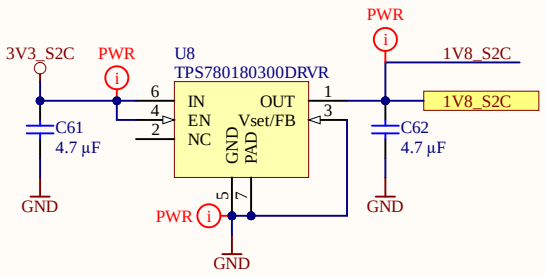




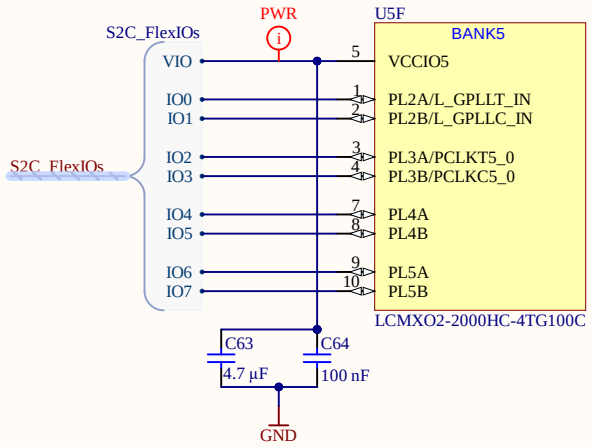


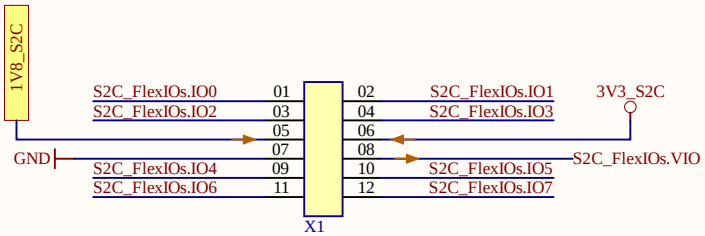




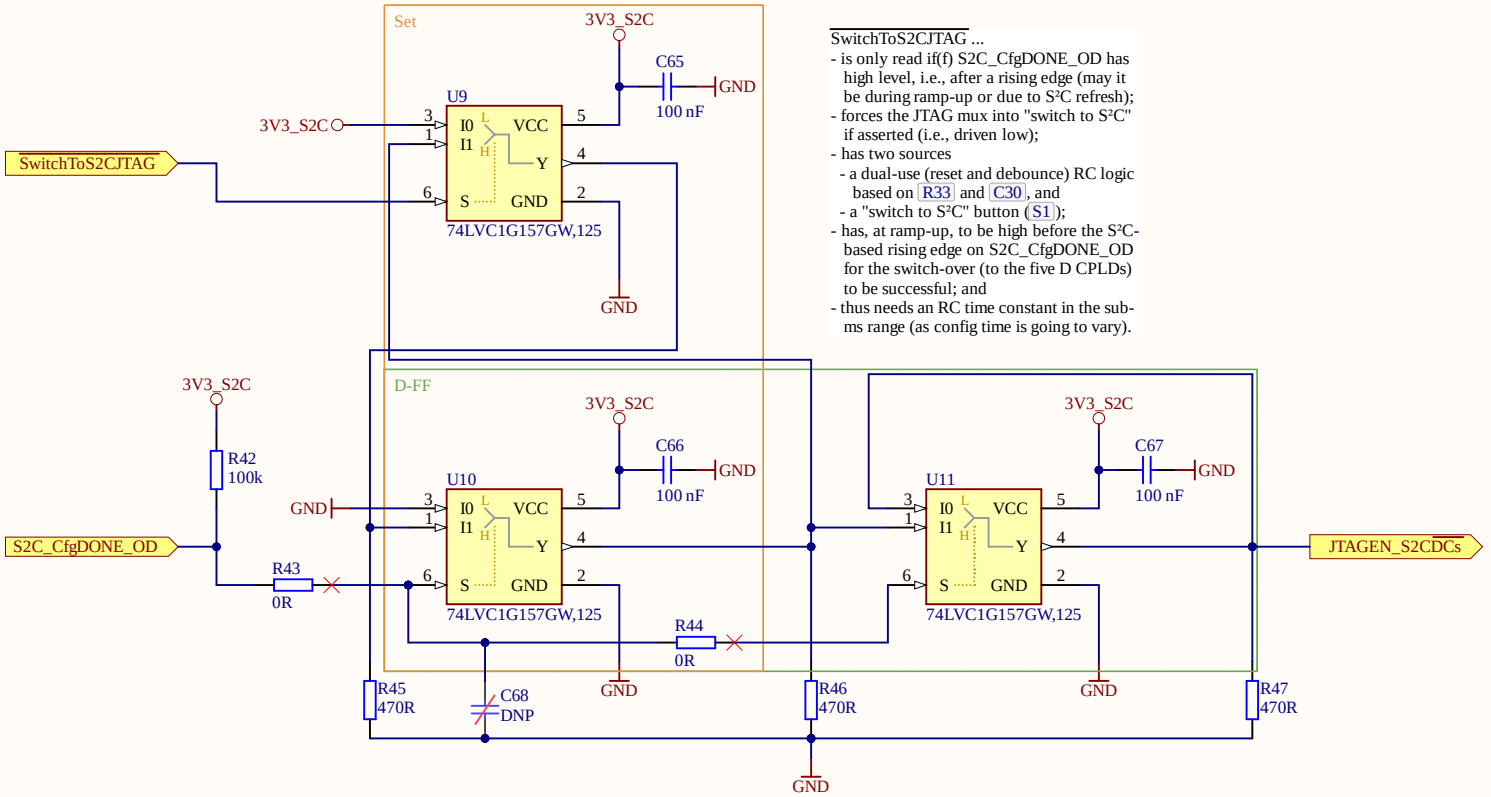


Title S2C_IOs1V8.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 14 of 29	

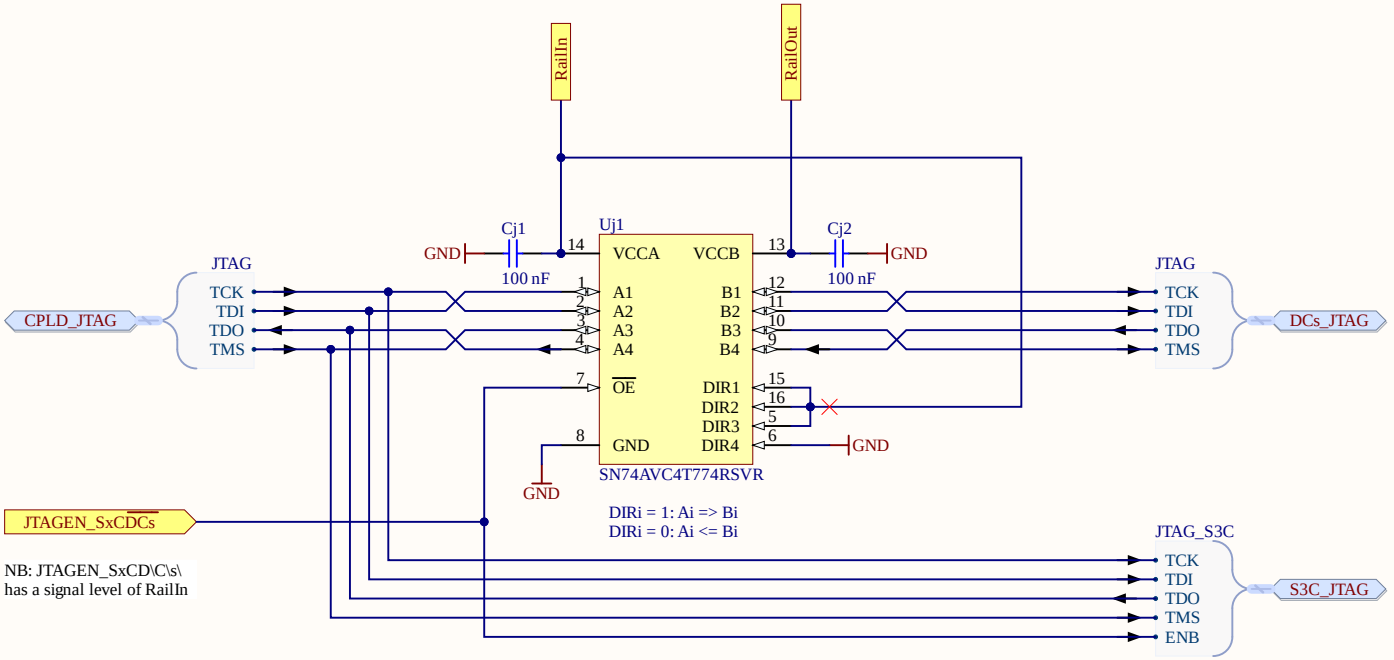




Title S2C_IOsVIO.SchDoc		UltraZohm	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 15 of 29	



Title S2C_SelectJTAG.SchDoc		UltraZohm	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 16 of 29	



Title SxC_MuxJTAG.SchDoc		UltraZohm	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 17 of 29	

LED[1-4]:
- "a": From 24V to GND
- "b": From 3V3 to GND

Frontpanel FP

switch[5-8]:
- "a": To 1V8
- "b": Same

RingLED: To 24V

STOP (Nhigh)
Enable System
Enable Control

FP.FrontPanel_switch5
FP.FrontPanel_switch6
FP.FrontPanel_switch7
FP.FrontPanel_switch8

3V3_PER
100 nF
C69
GND_FP
U13
VCCA VCCB
A1 A2 A3 A4
B1 B2 B3 B4
OE
DIR1 DIR2 DIR3 DIR4
GND
SN74AVC4T774RSVR
FP_UsrLED1
FP_UsrLED2
FP_UsrLED3
FP_UsrLED4
3V3_PER
100 nF
C70
GND_FP
3V3_PER

U12
1B 2B 3B 4B 5B 6B 7B 8B
1C 2C 3C 4C 5C 6C 7C 8C
COM GND
ULN2803A
FP.FrontPanel_LED1
FP.FrontPanel_LED2
FP.FrontPanel_LED3
FP.FrontPanel_LED4
GND (buttons) vs. GND_FP (LEDs)
GND_FP

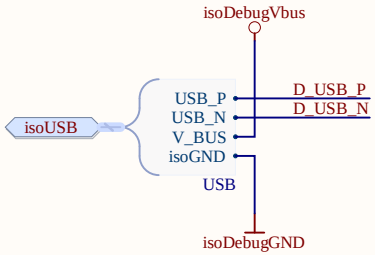
3V3_PER
R48 10k
R49 10k
R50 10k
R51 10k

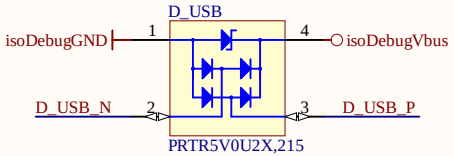
To the S²C
FP_UsrSW3
FP_UsrSW1
FP_UsrSW2
FP_UsrSW4

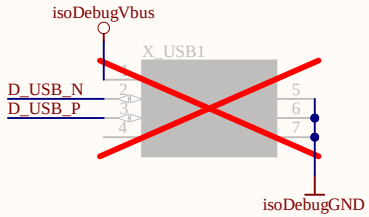
3V3_S2C
R52 10k
VIN
NB: SS most likely should not be wired to IN due to its AMR (6V)!
U14
IN1 IN2 EN GND
OUT2 OUT1 SS SET
AOZ1360AIL
FP.FrontPanel_RingLED
FP_SysLEDs
R53 10k
C71 100 nF
C72 10 µF 50V
R54 100k
C73 100 nF
RSET: 100k => ~1.8A
GND_FP
SS: capacitive range is 0.001 µF to 0.1 µF

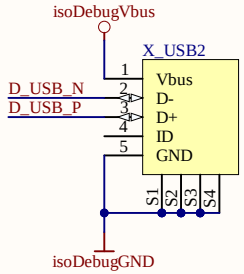
Title S2C_FrontpanelInterface.SchDoc		UltraZohm www.ultrazohm.com
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025 Sheet 18 of 29

Isolated side

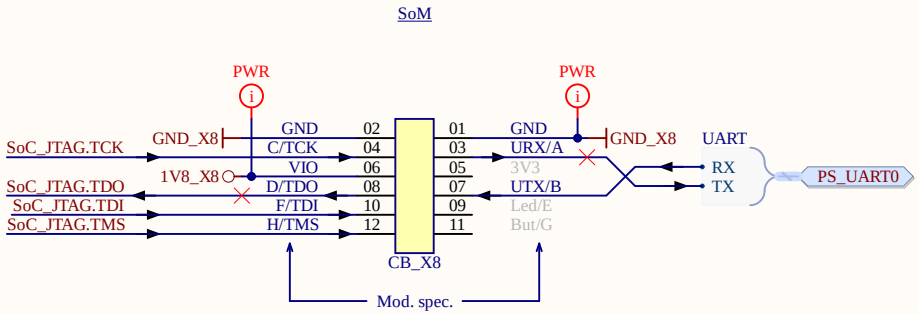


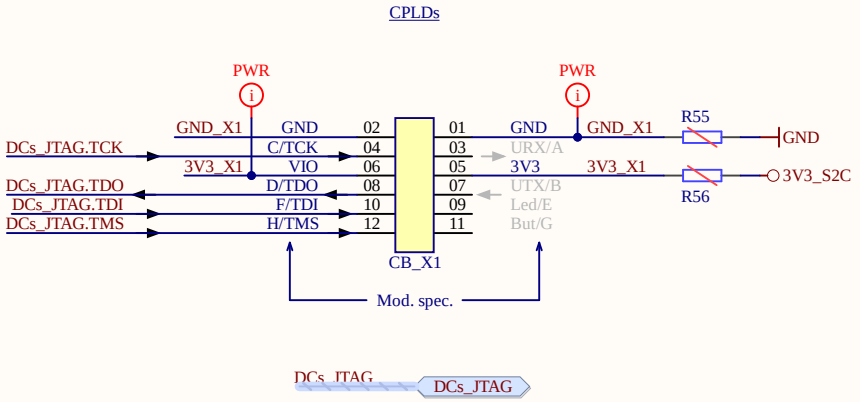




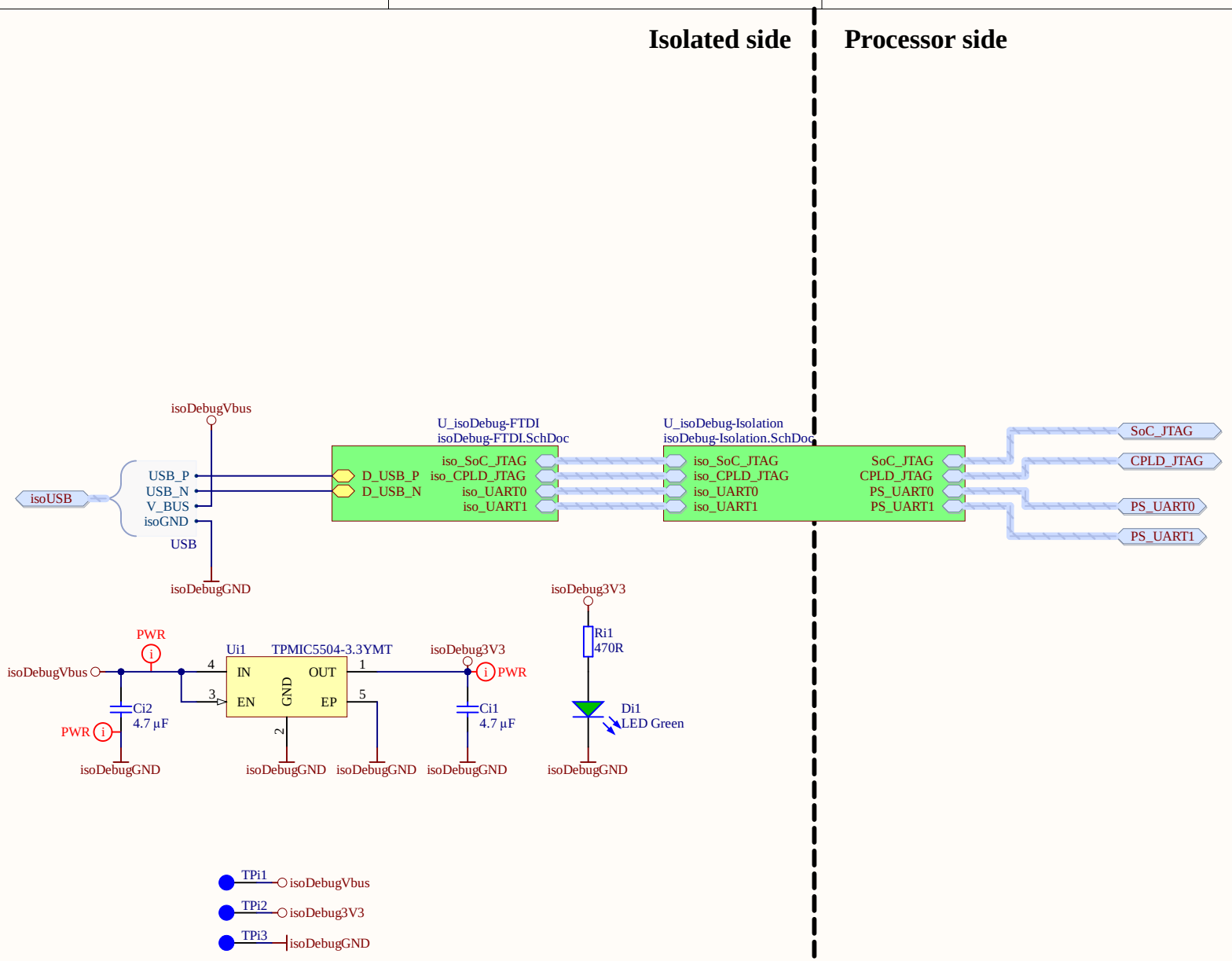


UZ Carrier/Extension side

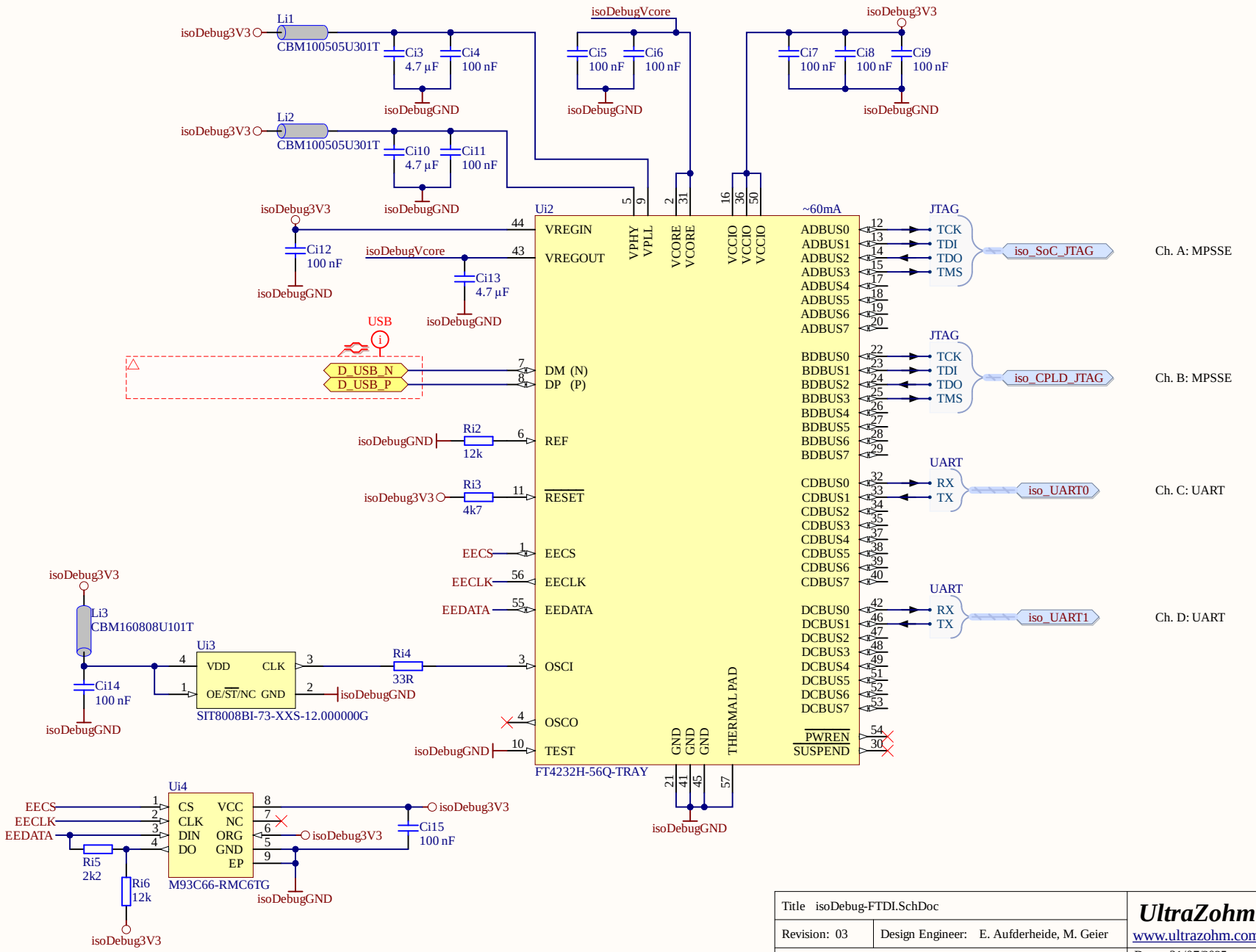




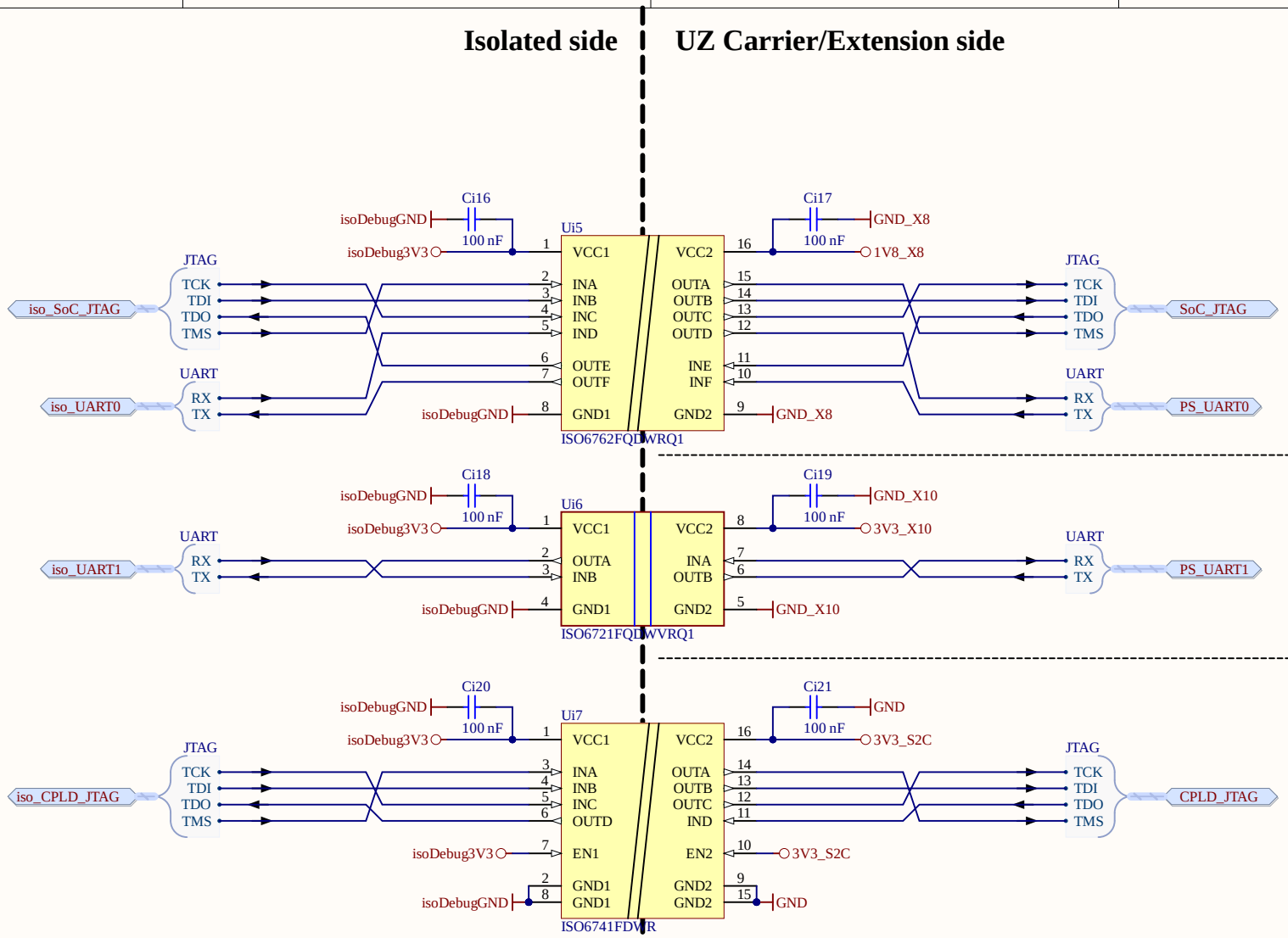
Title isoDebug-Connectors.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 19 of 29	



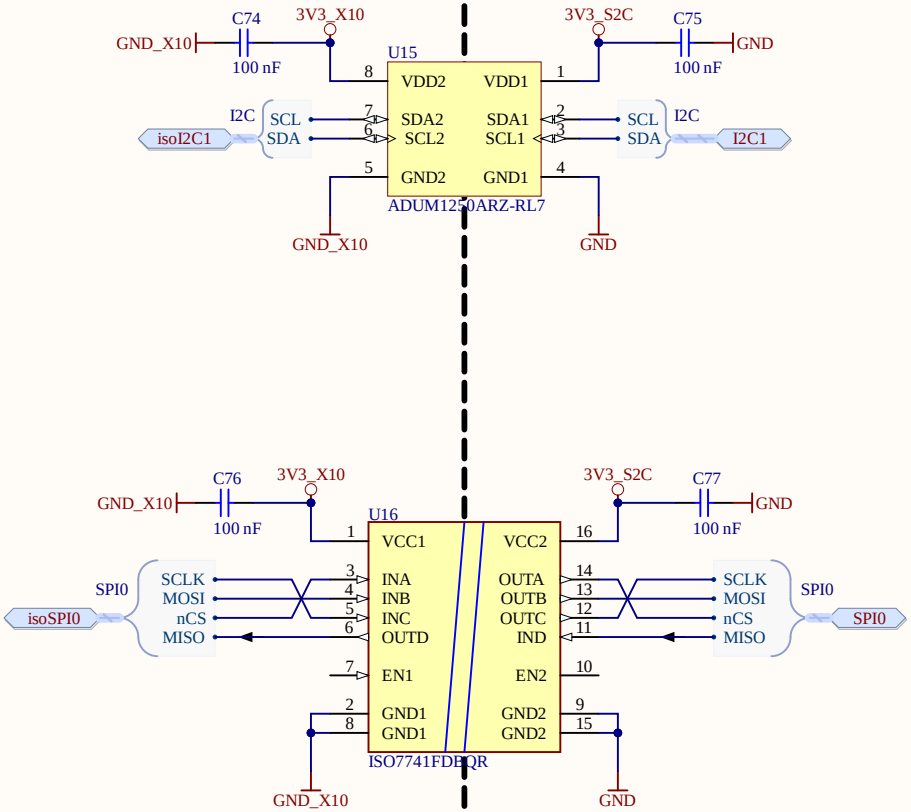
Title isoDebug.SchDoc		UltraZohm	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 20 of 29	



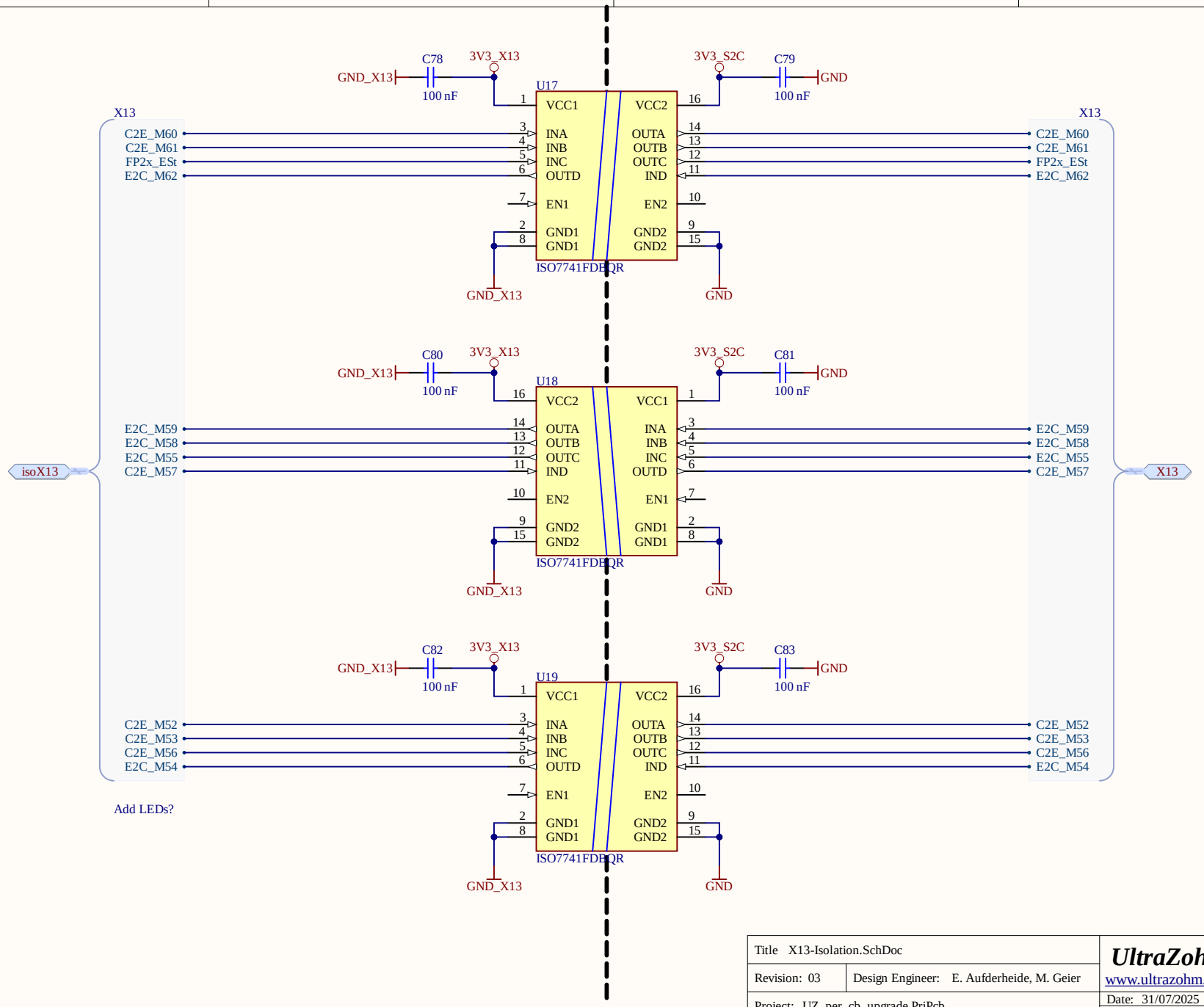
Title isoDebug-FTDI.SchDoc		UltraZohm	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 21 of 29	



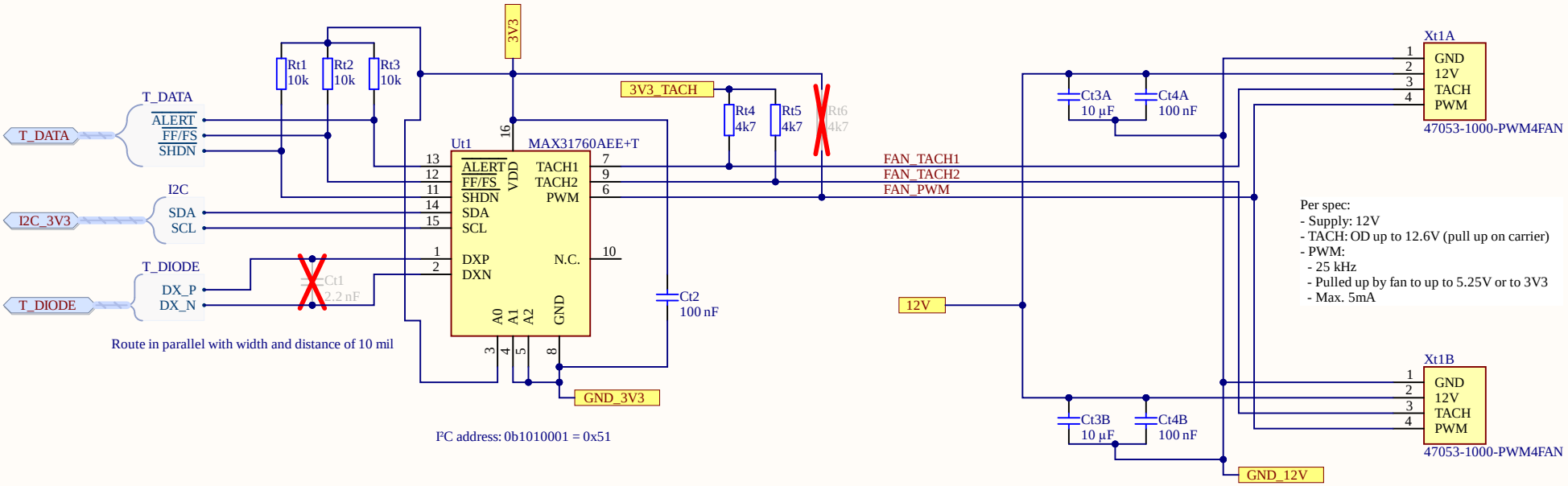
Title isoDebug-Isolation.SchDoc		UltraZohm	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 22 of 29	



Title X10-Isolation.SchDoc		UltraZohm	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 23 of 29	

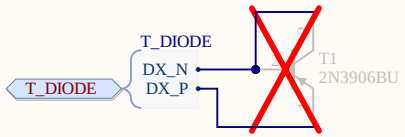


Title X13-Isolation.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	Sheet 24 of 29



I²C address: 0b1010001 = 0x51

Title Thermal.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier		
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
		Sheet 25 of 29	



Title ThermalExtSens.SchDoc		**UltraZohm**	
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com	
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025	
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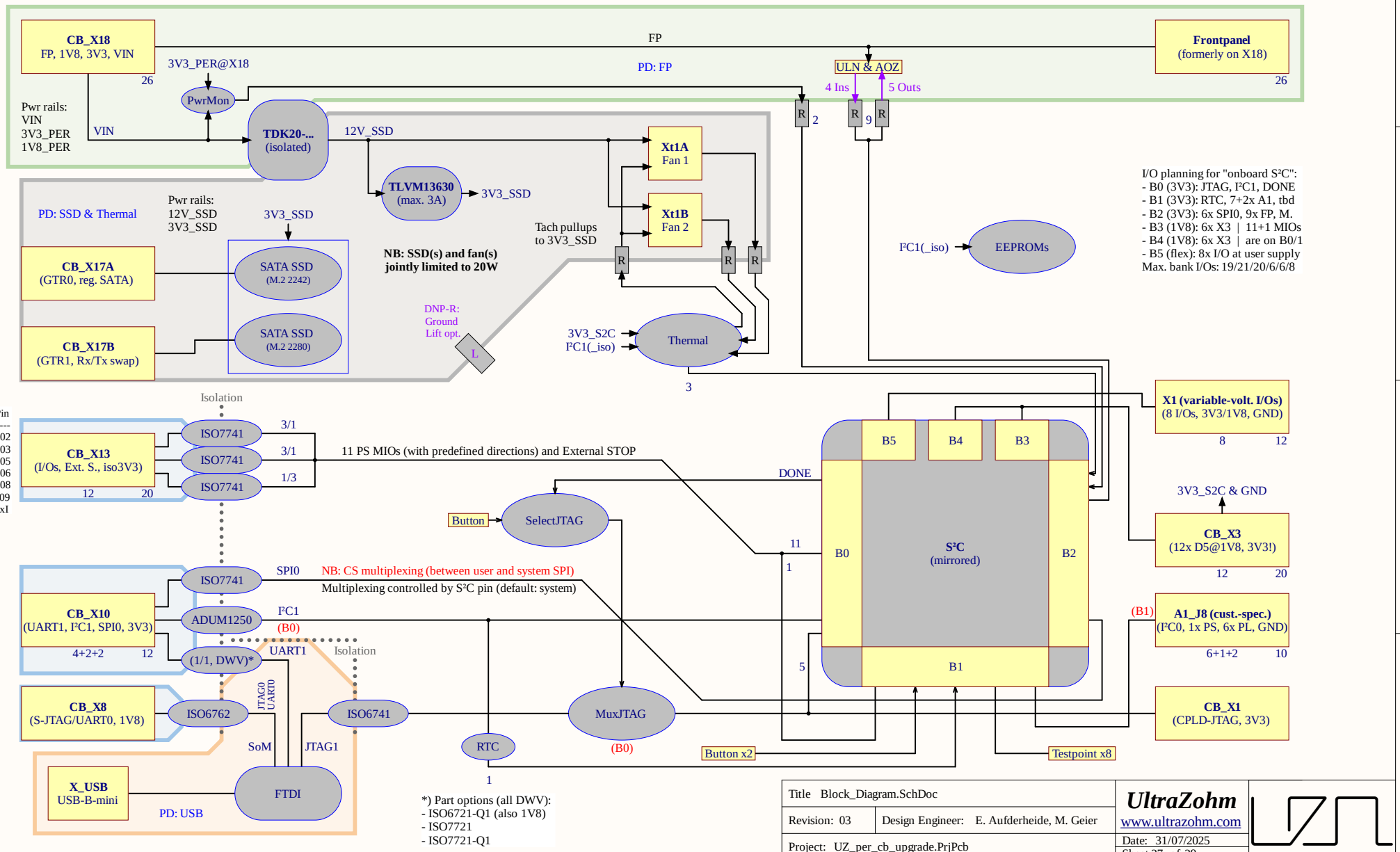
I²C, SSD and S²C Extension for Rev04-UZC-based UltraZohm systems

Partial retrofit of features that are available as standard in Rev05-UZC-based systems such as Linux/network support (EEPROMs), storage (SATA SSD), isolated USB-JTAG/UART, thermal management and a Hw-programmable Controller (S²C) for monitoring, I/O, ...



Title Block_Diagram.SchDoc		UltraZohm
Revision: 03	Design Engineer: E. Aufderheide, M. Geier	www.ultrazohm.com
Project: UZ_per_cb_upgrade.PrjPcb		Date: 31/07/2025
		Sheet 27 of 29