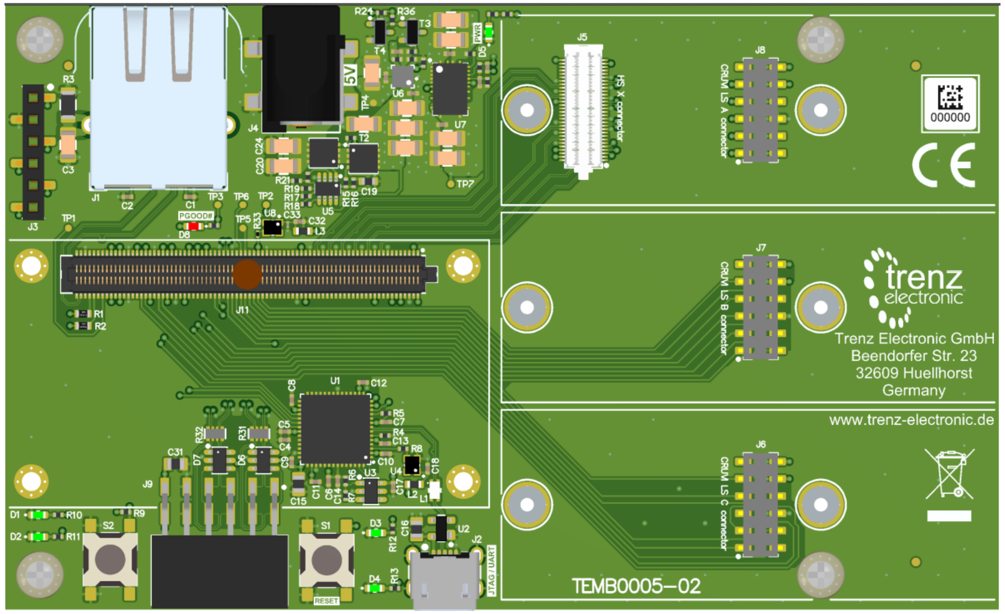
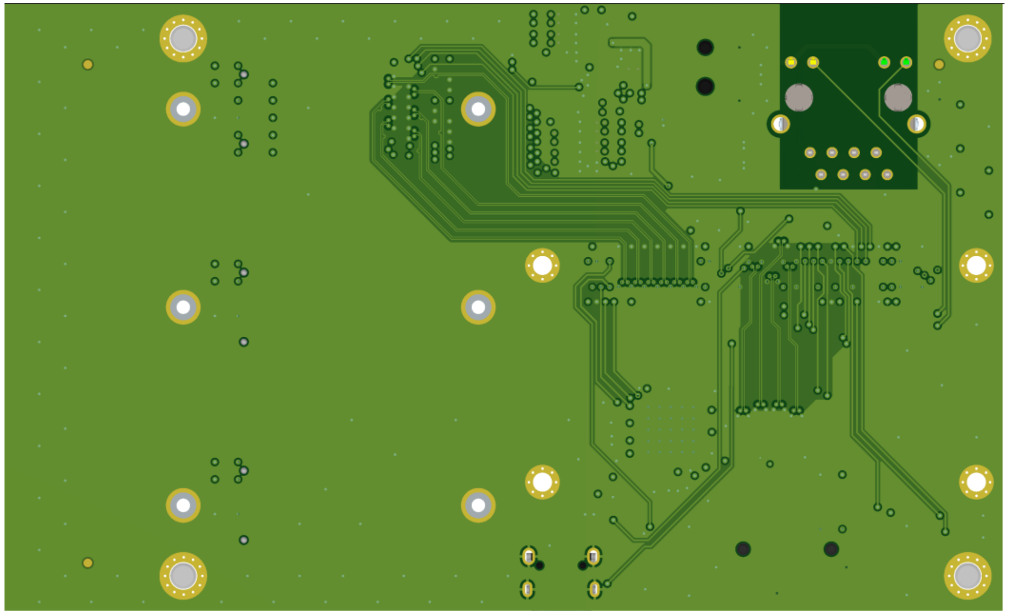




Drawn by	VG
Checked by	MR
Assembly variant	P001
Created by	VG
Modified by	VG
Modified at	2025-06-10

Title: Legal Notices

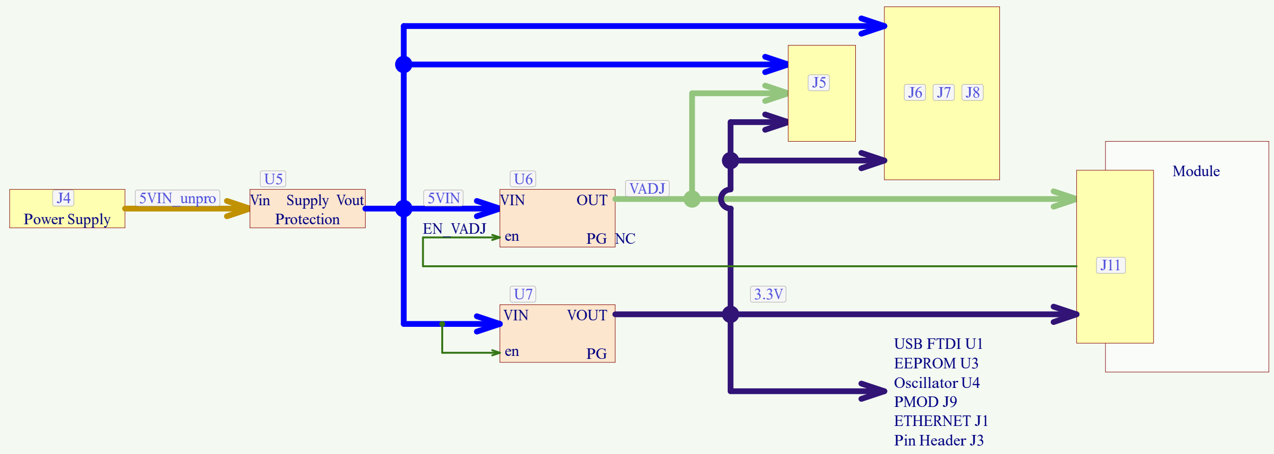
A4	Number: TEMB0005 P001	Rev. 02
Date: 14-Jul-25	Copyright: Trenz Electronic GmbH	Page 1 of 11

Filename: Legal Notices Baseboards.SchDoc

REV	Description	
-01	Initial revision	
-02	1) Page numbering changed for schematic 2) SCH and PCB components updated from libraries 3) L3 BKP0603HS121-T (EOL) changed to MPZ1608S221A 4) Change connections for pins: - pin U2:2 was connected to net "D_P", now connected to net "DL_P" - pin U2:3 was connected to net "D_N", now connected to net "DL_N" 5) U4 SiT8008AI-73-XXS-12.000000E (EOL) changed to SiT8008BI-73-XXS-12.000000E 6) D6, D7 WE-TVS-824013 (EOL) changed to WE-TVS-824015043 7) PM1-PM6 FIDU-DOT-small changed to FIDU-DOT-mini 8) Change connections for pins: - pin J11:121 was connected to net "LED2", now connected to net "BUTTON" - pin J11:119 was connected to net "BUTTON", now connected to net "LED2" 9) DCDC U7 EN6347QI (EOL) changed to MPM3860GQW-Z 10) DCDC U6 EP53A7HQI (EOL) changed to MPM3834CGPA 11) Added pages legal notices, power overview 12) Added system overview 13) CRUVI mounting holes and connectors J5-J8 moved to the left by 0.6mm 14) Mounting holes and B2B connector J11 for module TEM0005 moved to the left by 1.6mm 15) Mounting holes of pcb on the right side moved to the left by 16.6mm (in one line with CRUVI mounting holes now) 16) TP7 - TP12 added 17) R8 49R9 changed to 33R, R9 10k to 12k. C1, C2 0201 6.3V to 0402 25V, C32 4.7uF to 10uF, C33 470nF to 100nF. BOM optimization 18) R37 added as optional	MT / VG

trenz electronic	Title: Revision Changes	
A4	Number: TEMB0005 P001	Rev. 02
Date: 29-Jul-25	Copyright: Trenz Electronic GmbH	Page 2 of 11
Filename: Revision changes.SchDoc		

Power-on sequencing:



Supported Voltage Ranges:

Power Rail	Direction	Range	Tolerance	Description	Note
5VIN_unpro	IN	5V	+/-5%	Micromodule Power	J4
5VIN	IN	5V	+/-5%	Power supply for external use	J5, J6, J7, J8
VADJ	OUT	1.8V	+/-3%	Power supply for external use Micromodule Power	J5, J11
3.3V	OUT	3.3V	+/-3%	Power supply for external use Micromodule Power	J3, J5, J6, J7, J8, J11

Legend:

3.3V Net name

Connector

Power bus

Control signal

VIN OUT On-Board Power Supply Device

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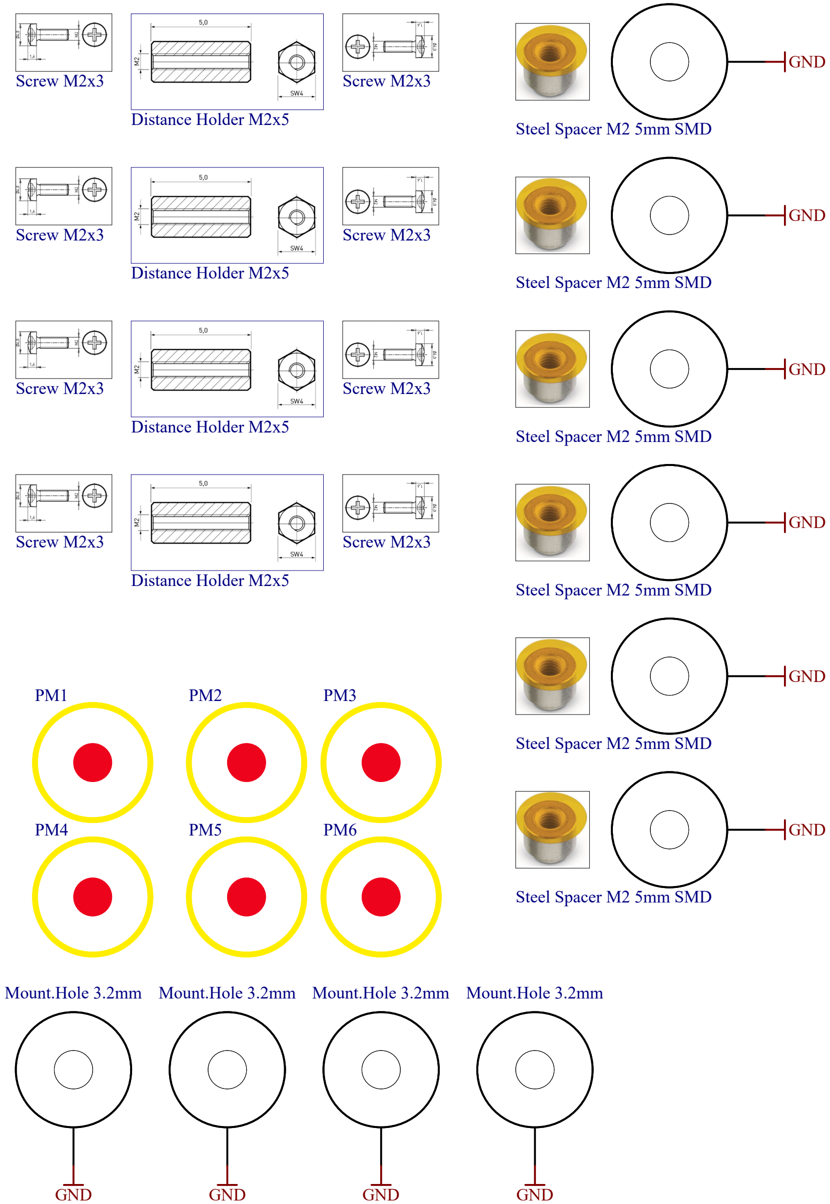
Title: Power Overview

A4 Number: TEMB0005 P001 Rev. 02

Date: 15-Jul-25 Copyright: Trenz Electronic GmbH Page 3 of 11

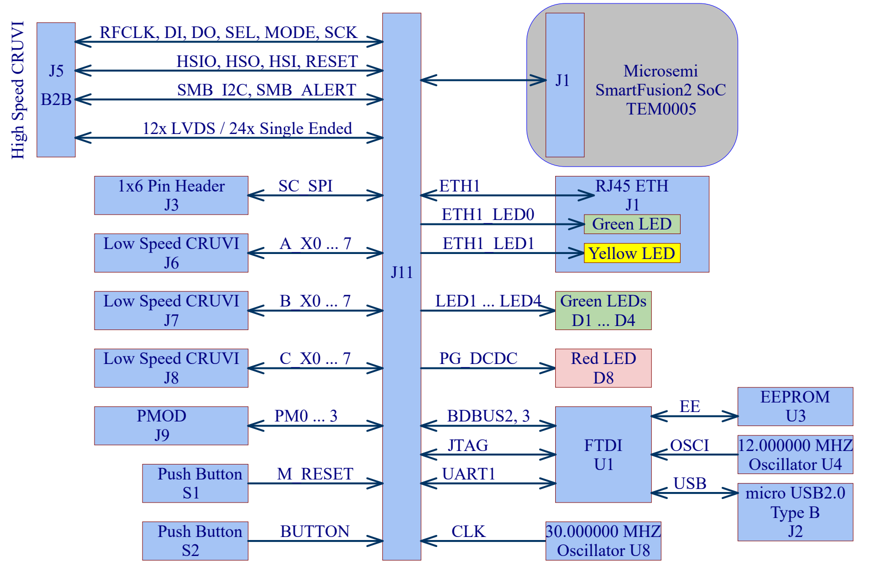
Filename: Power_Overview.SchDoc



POWER
POWER.SchDoc

POWER_DCDC
POWER_DCDC.SchDoc

System Overview



CE Logo on Top Overlay
CE-TOPOVERLAY

WEEE Logo on Top Overlay
WEEE-TOPOVERLAY

ESD Logo on Top Overlay
ESD-TOPOVERLAY

UKCA Logo on Top Overlay
UKCA-TOPOVERLAY

RoHS Logo on Top Overlay
RoHS-TOPOVERLAY

TE Logo PRINT Layer
LOGO PRINT

TE Address Overlay
LOGO ADDRESS

Serial
Serialnumber 6,3 x 6.3mm

Design drawn by:	MT
Checked by:	
Assembly variant:	P001
Created by:	VG
Modified by:	VG
Modified at:	2025-06-10

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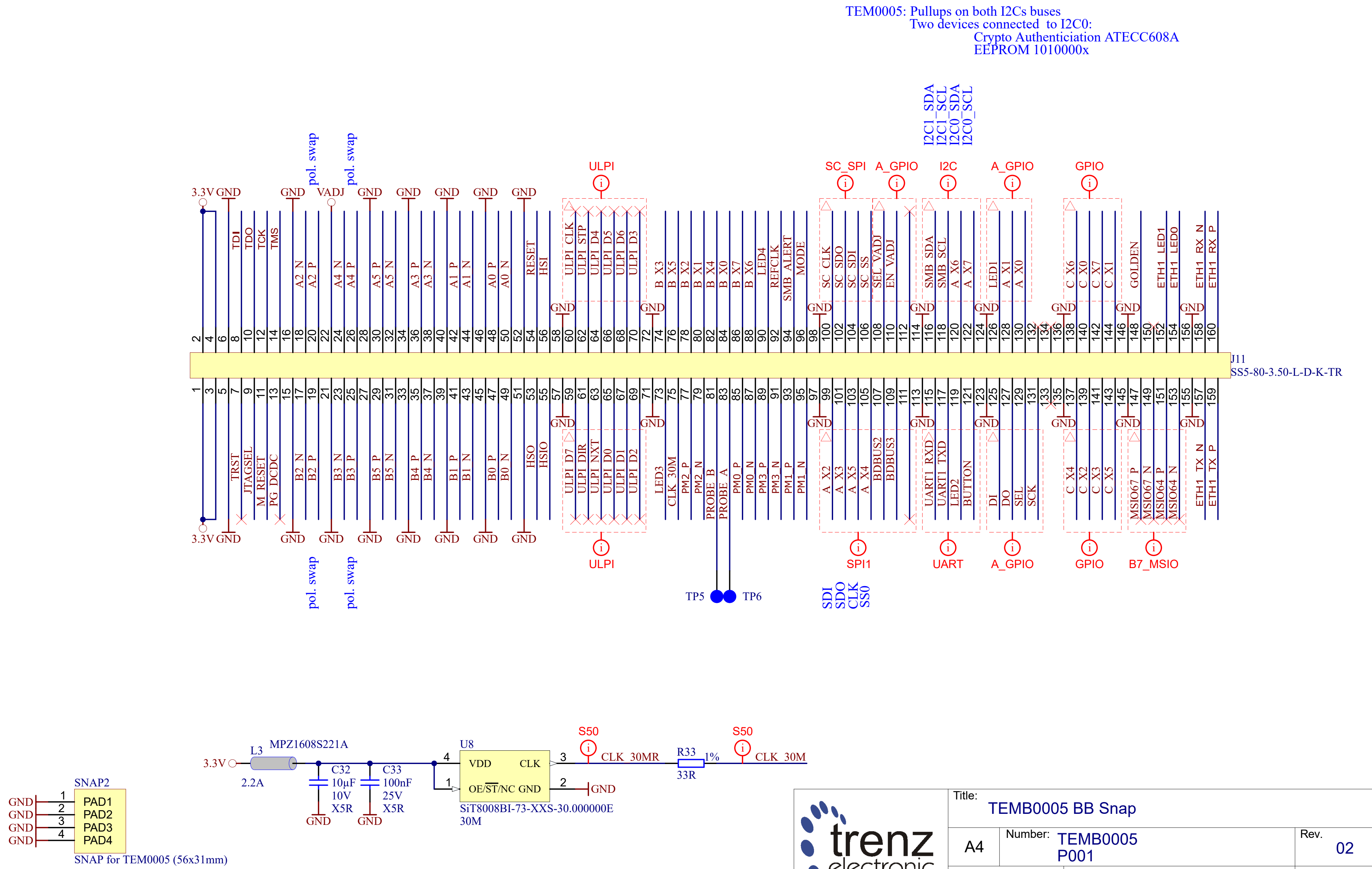
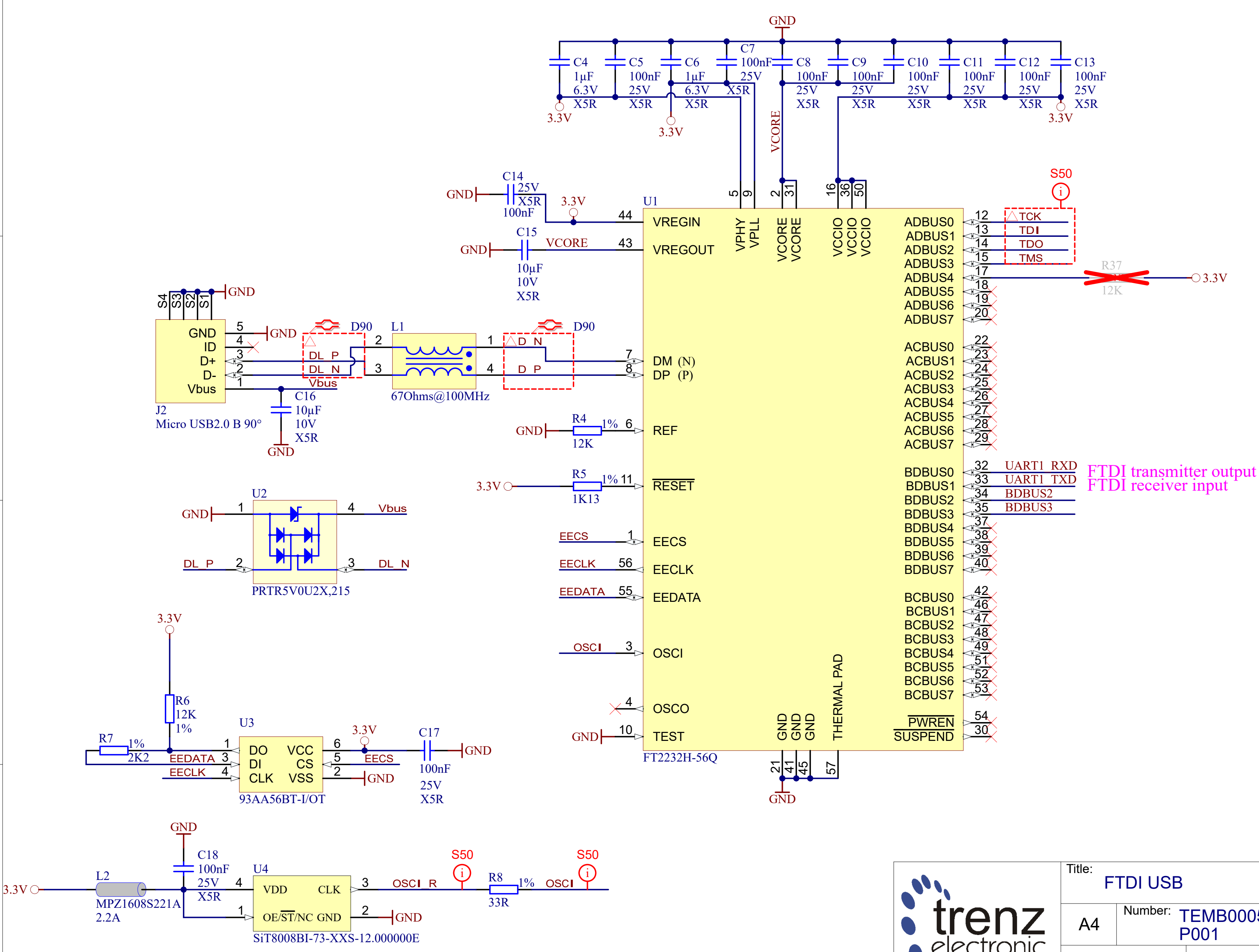
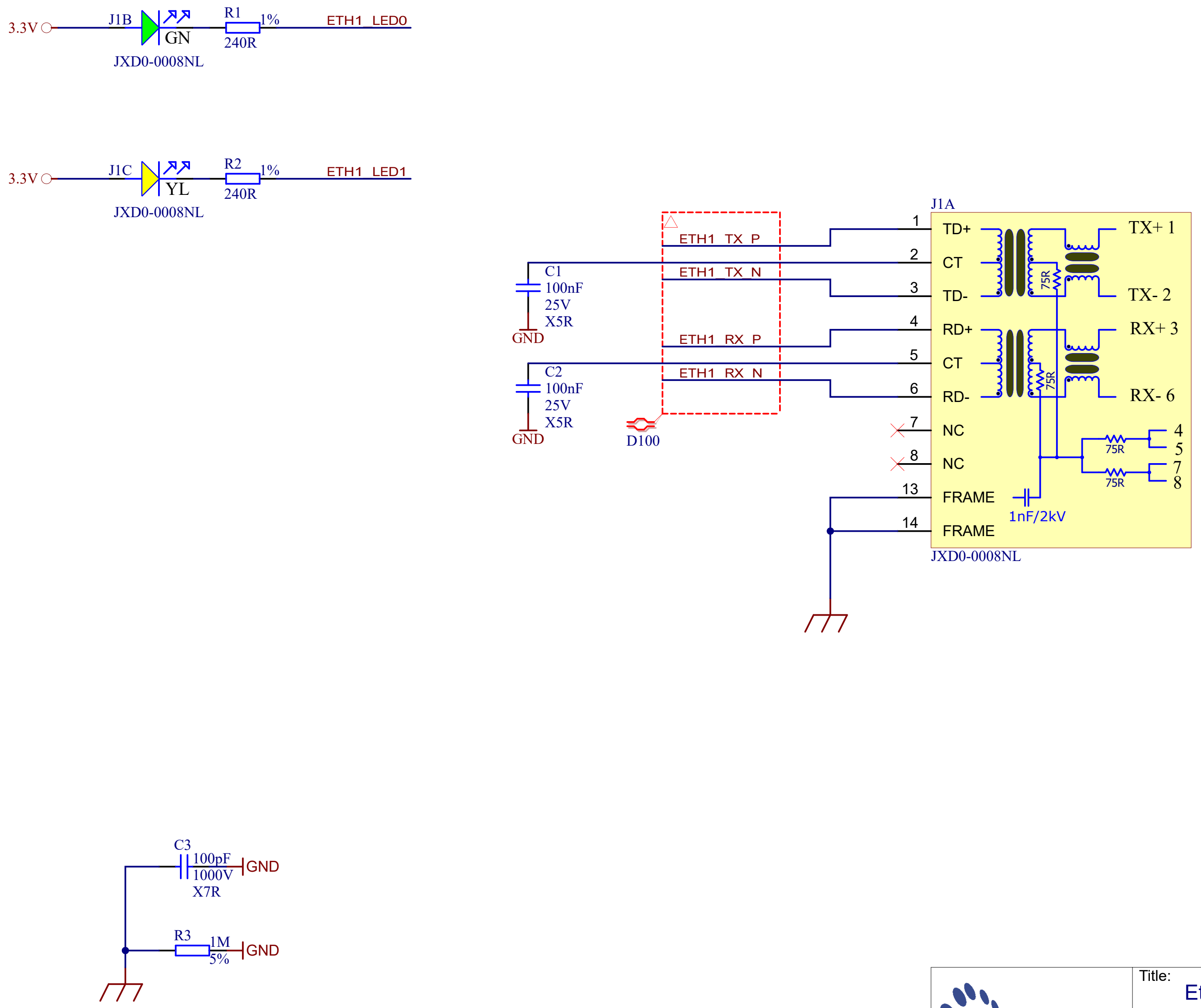
Title: Overview			
A4	Number: TEMB0005 P001		Rev. 02
Date: 15-Jul-25	Copyright: Trenz Electronic GmbH		Page 4 of 11
Filename: TEMB0005.SchDoc			



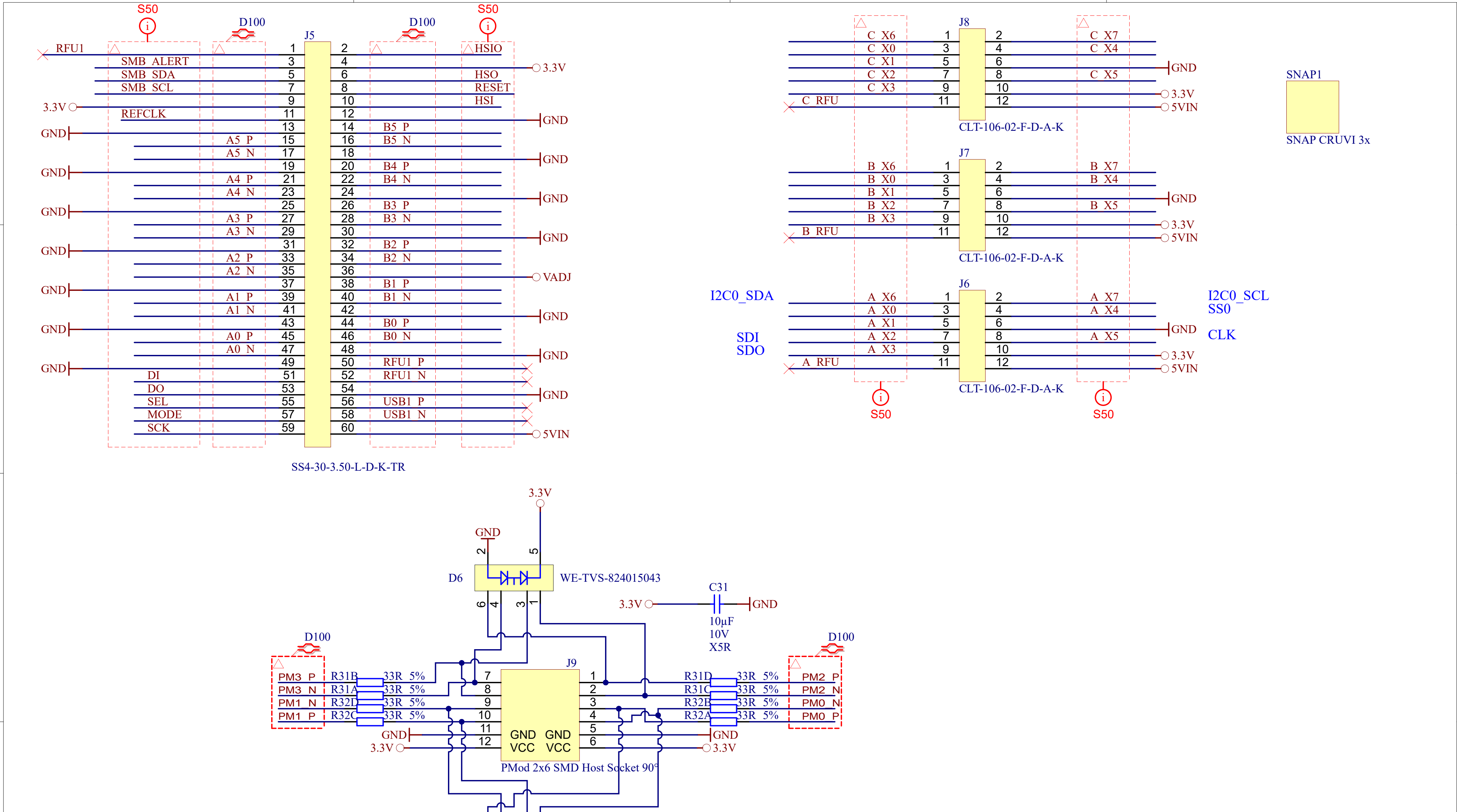
Title:	TEMB0005 BB Snap
A4	Number: TEMB0005 P001 — Rev. 02
Date: 15-Jul-25	Copyright: Trenz Electronic GmbH — Page 5 of 11
Filename:	TEM0005_BB_Snap.SchDoc



trenz electronic	Title: FTDI USB		
	A4	Number: TEMB0005 P001	Rev. 02
	Date: 16-Jul-25	Copyright: Trenz Electronic GmbH	Page 6 of 11
	Filename: FTDI.SchDoc		



Title: Ethernet		
A4	Number: TEMB0005 P001	Rev. 02
Date: 16-Jul-25	Copyright: Trenz Electronic GmbH	Page 7 of 11
Filename: ETHERNET.SchDoc		

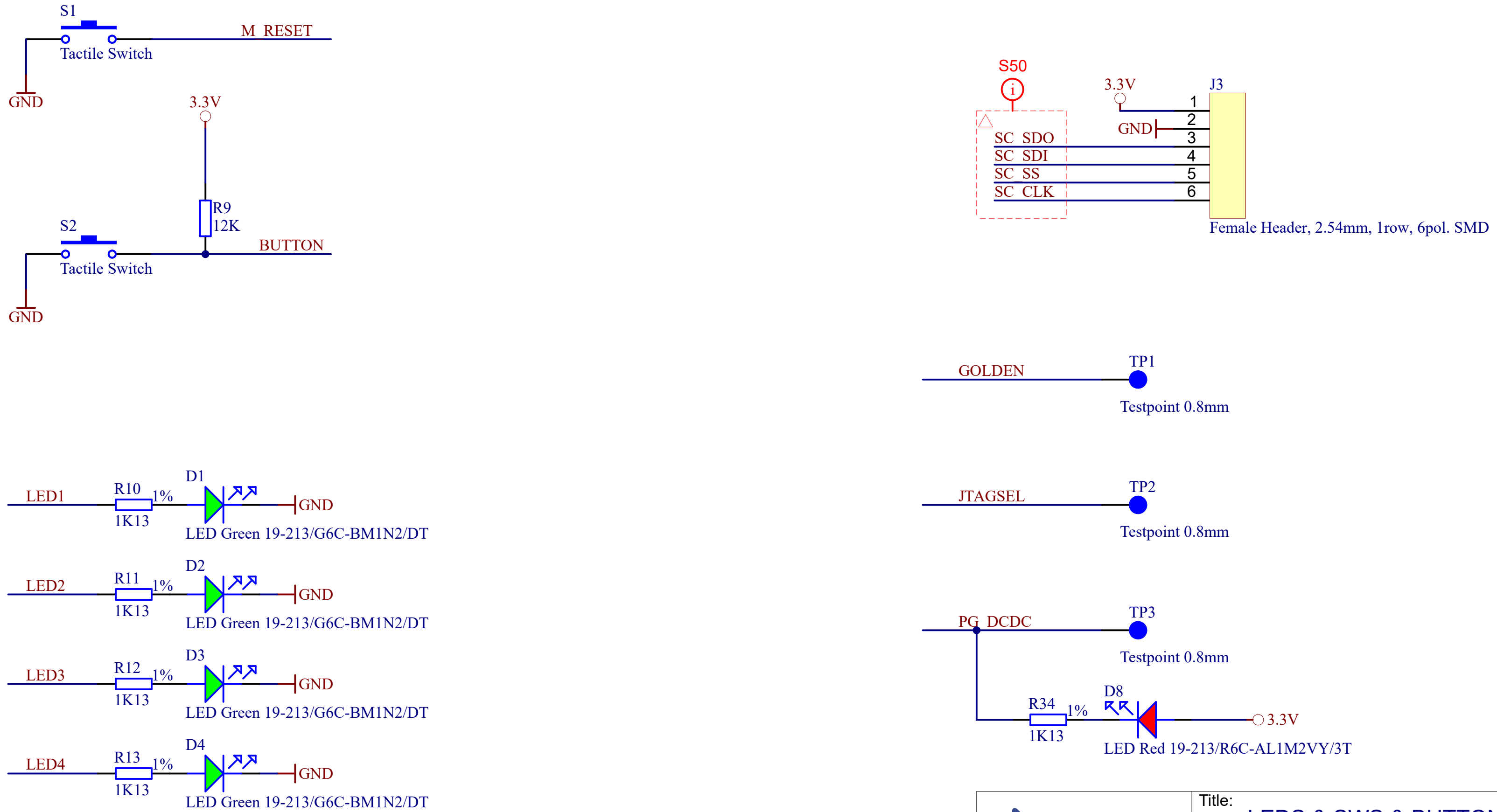


Title: CON_IO

A4 | Number: TEMB0005 P001 | Rev. 02

Date: 16-Jul-25 | Copyright: Trenz Electronic GmbH | Page 8 of 11

Filename: CON_IO.SchDoc



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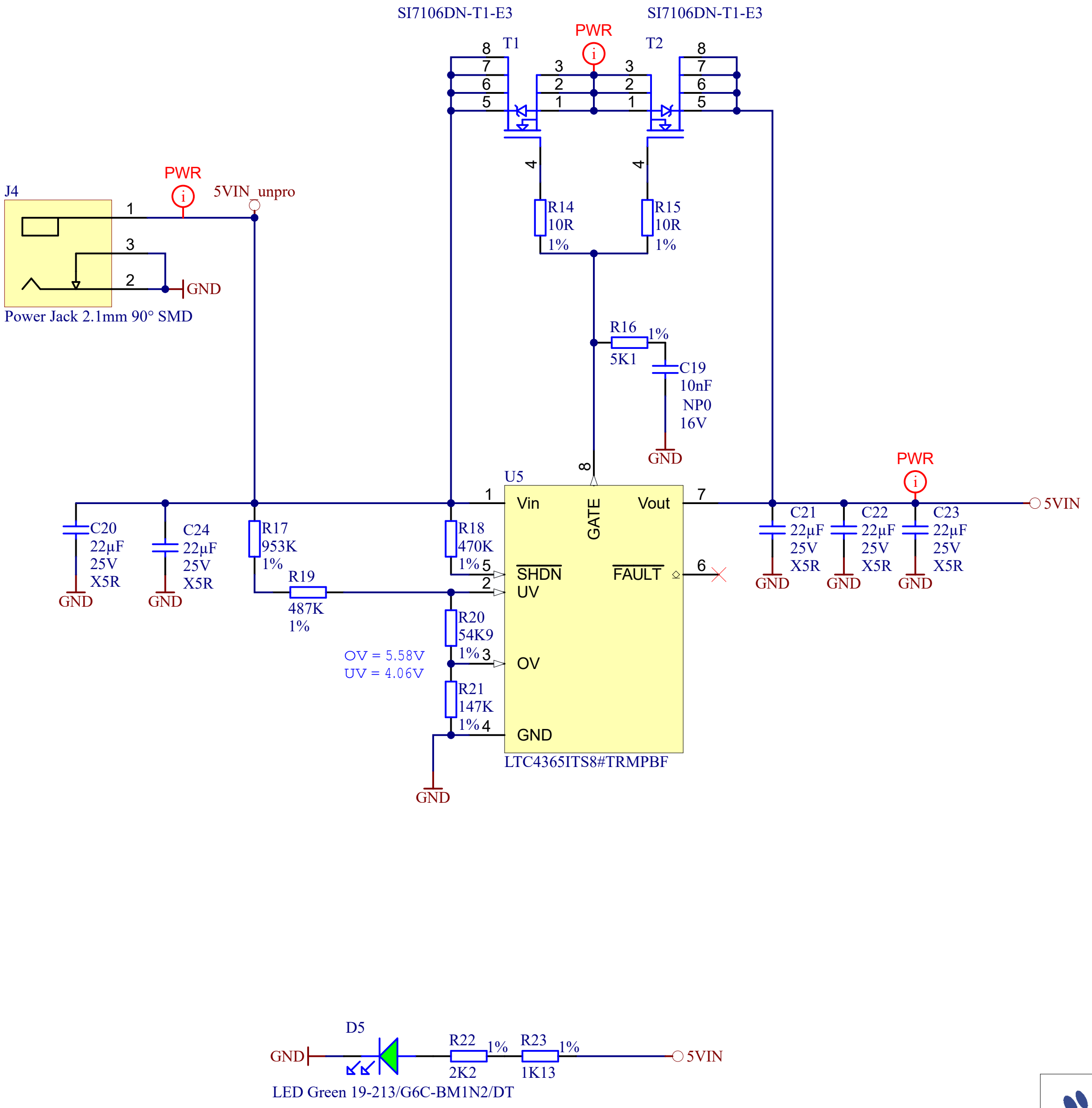
Title: LEDS & SWS & BUTTONS

A4 | Number: TEMB0005 P001 | Rev. 02

Date: 16-Jul-25 | Copyright: Trenz Electronic GmbH |

Filename: LED_SW_BUT.SchDoc



Title:	Power
A4 Number:	TEMB0005 P001
Rev.	02
Date:	16-Jul-25
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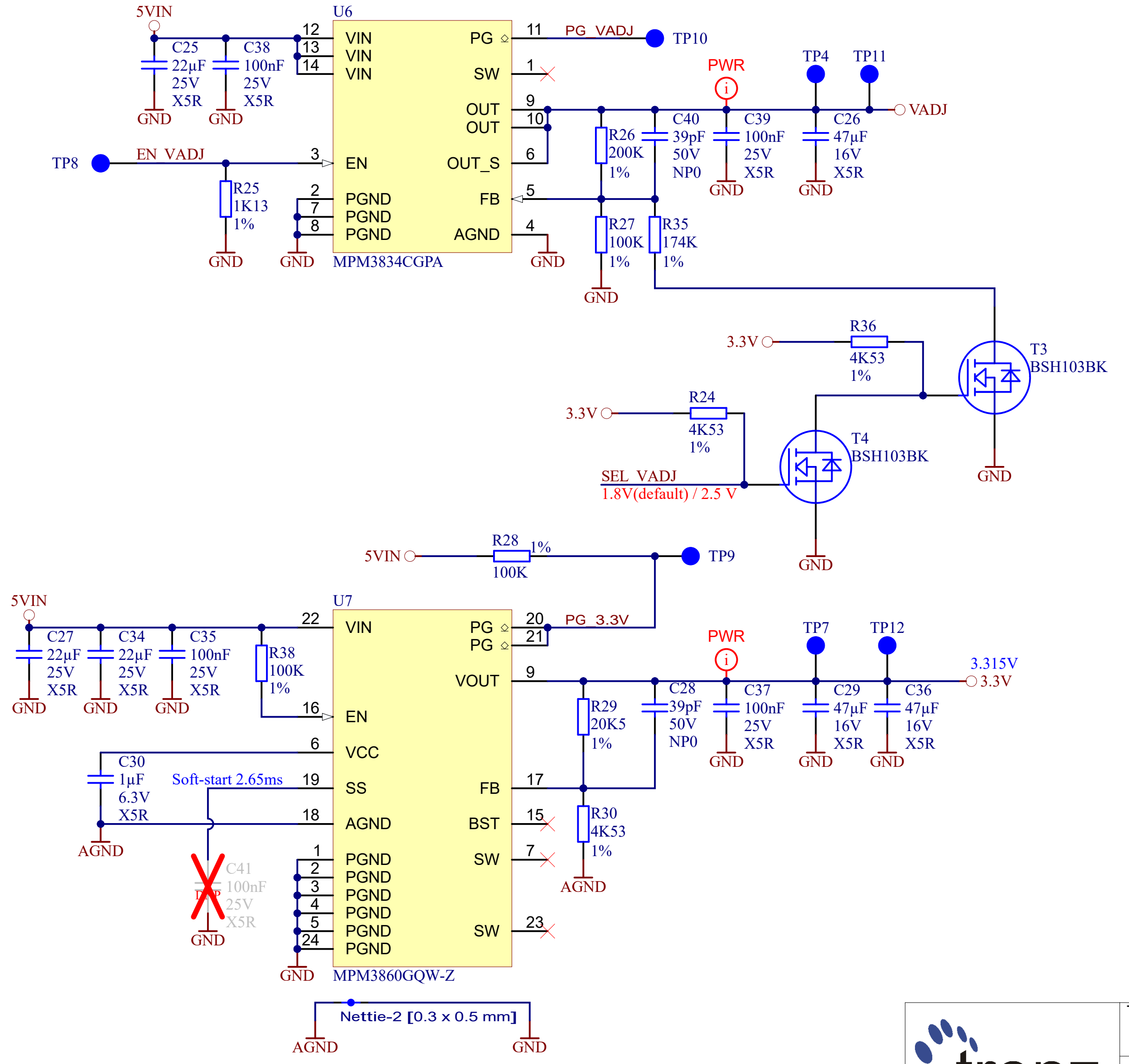
Page	10 of 11
Filename:	POWER.SchDoc



trenz electronic	Title: Power DCDC		
A4	Number: TEMB0005 P001		Rev. 02
Date: 15-Jul-25	Copyright: Trenz Electronic GmbH		Page 11 of 11
Filename: POWER_DCDC.SchDoc			