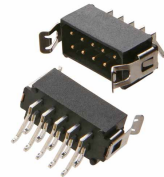
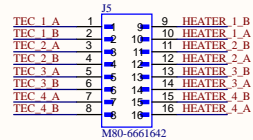


Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: HEADER_1.SchDoc	Sheet 2 of 11
Checked by: BAO BUI Q.	Document No: 2	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:

CONNECTOR TO TEC & HEATER

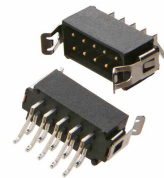
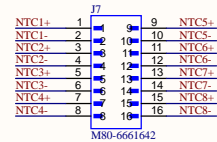


illustration

Harwin Inc. M80-6661642

- ELECTRICAL:
CURRENT RATING: 2.2A/CONTACT
VOLTAGE RATING: 800V/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -55°C TO +125°C
- PHYSICAL:
PITCH-MATING: 0.079" (2.00mm)
- WIRE:
WIRE SIZE: 24 AWG
MAX CURRENT: 2A per Wire
ISULATION MATERIAL: PTFE
- MATING:
Harwin Inc. M80-8881606

CONNECTOR TO NTC



illustration

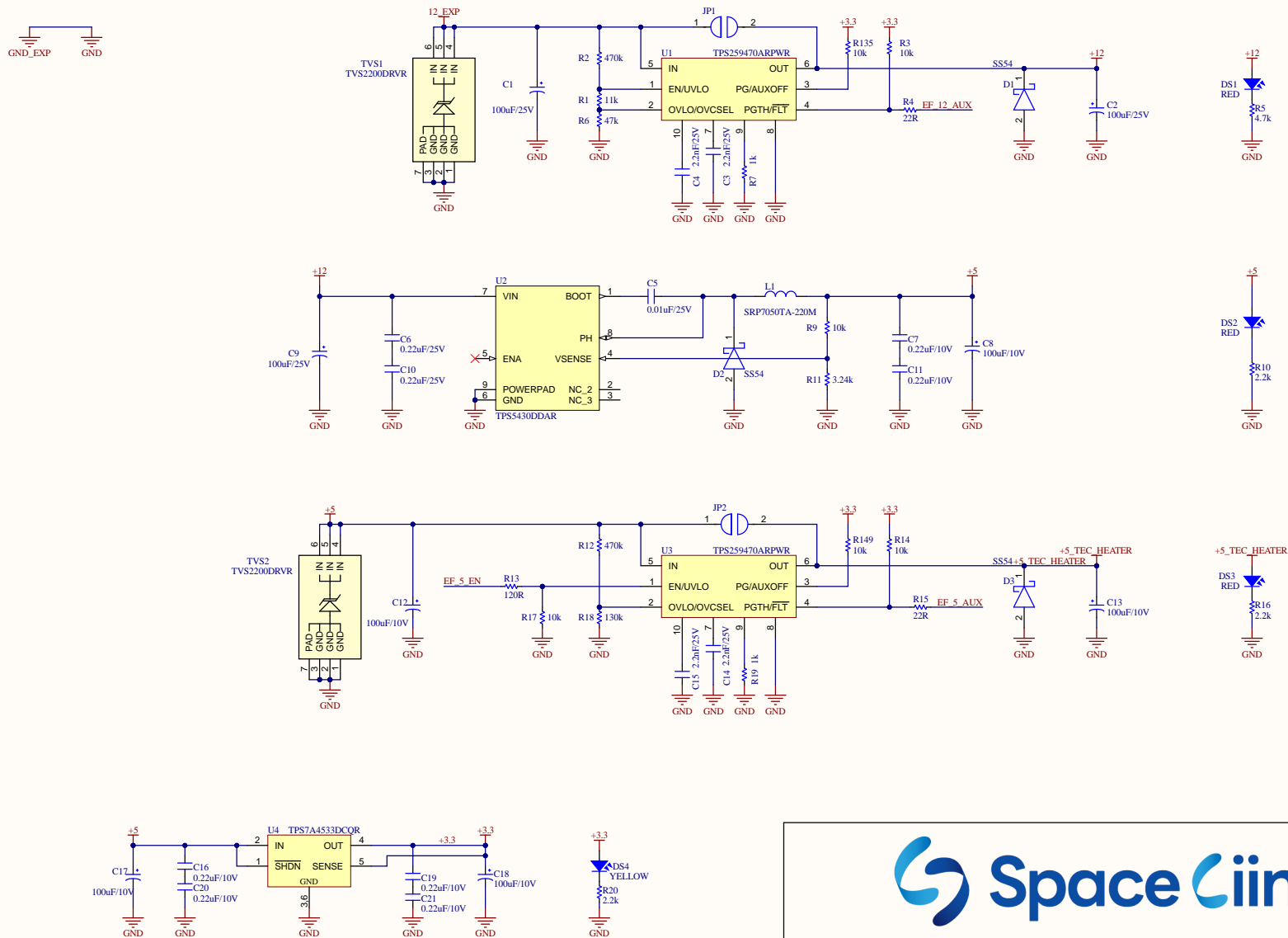
Harwin Inc. M80-6661642

- ELECTRICAL:
CURRENT RATING: 2.2A/CONTACT
VOLTAGE RATING: 800V/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -55°C TO +125°C
- PHYSICAL:
PITCH-MATING: 0.079" (2.00mm)
- WIRE:
WIRE SIZE: 24 AWG
MAX CURRENT: 2A per Wire
ISULATION MATERIAL: PTFE
- MATING:
Harwin Inc. M80-8881606

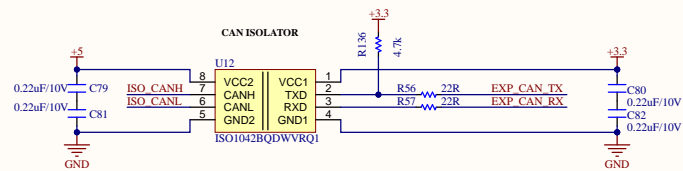
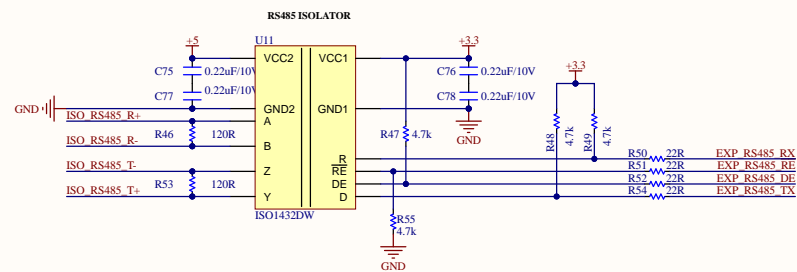
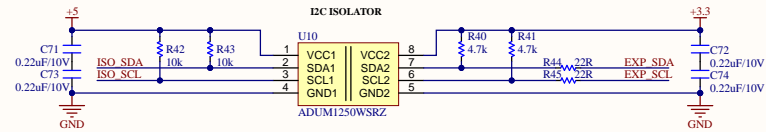
MOUNTING HOLE



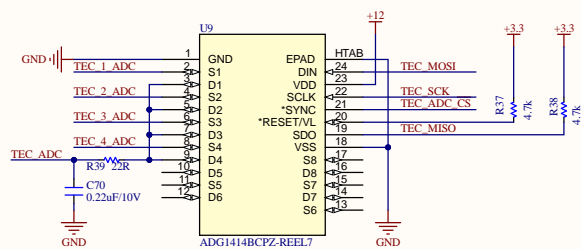
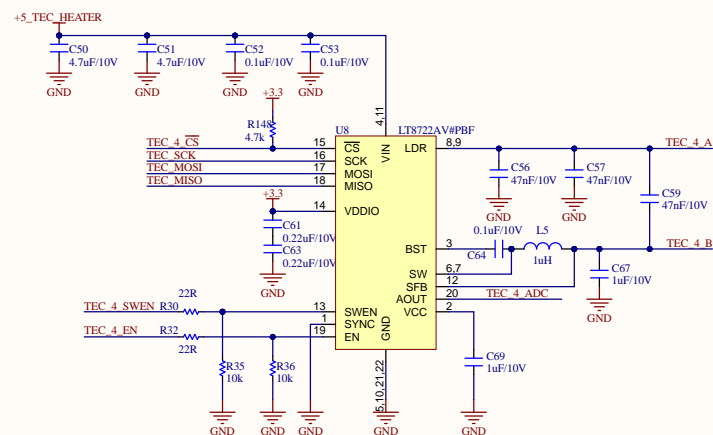
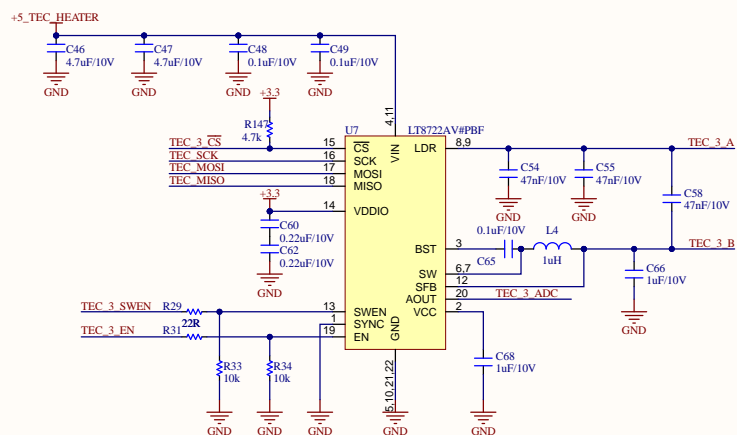
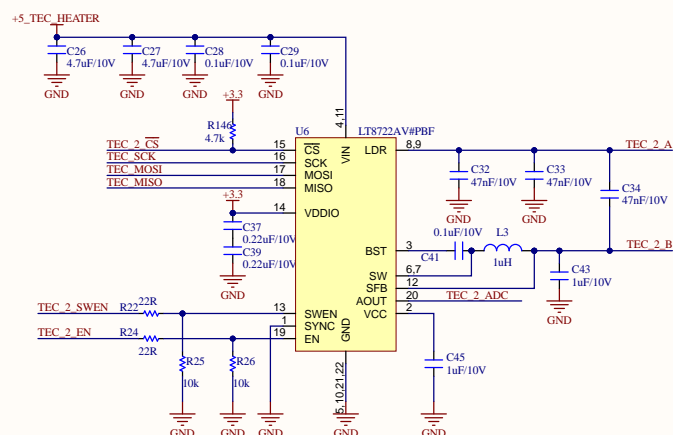
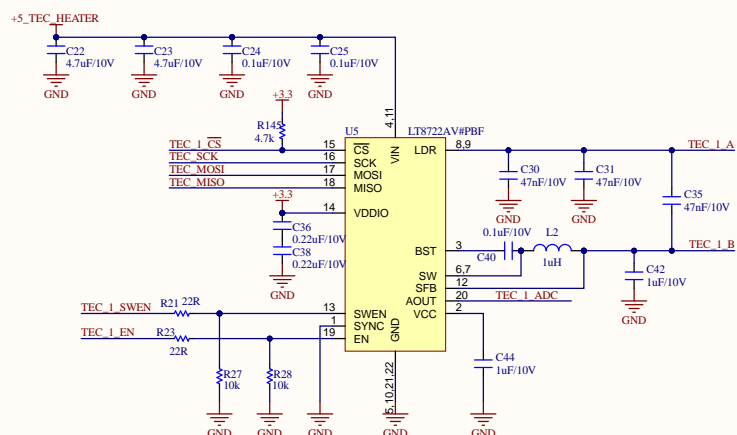
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Design by: SANG HUYNH	Sheet title: HEADER_2.SchDoc	Sheet 3 of 11
Checked by: BAO BUI Q.	Document No: 3	Size: A3
Approved by: VU PHAM	Revision: V1.0.1	Date: 2/6/2025



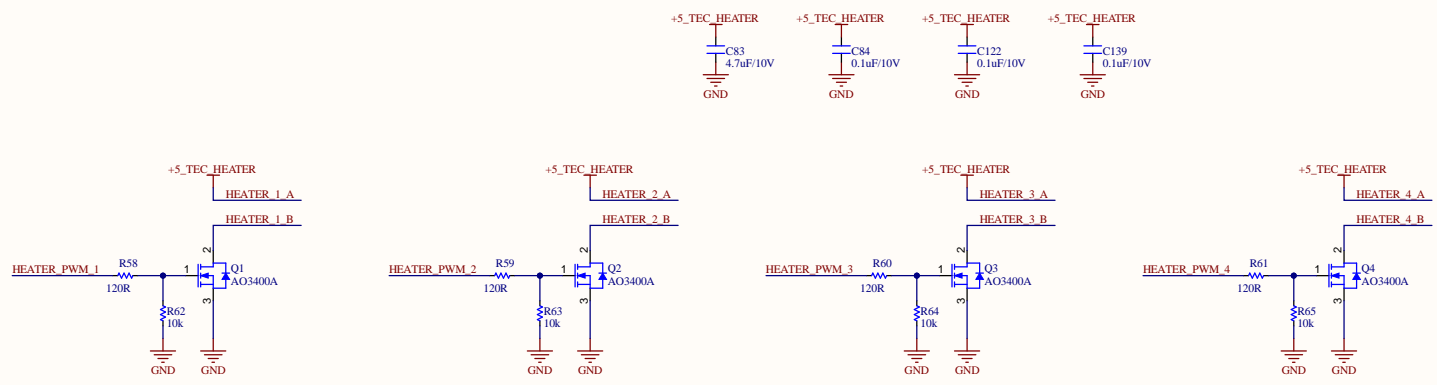
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Design by: SANG HUYNH	Sheet title: POWER.SchDoc	Sheet 4 of 11
Checked by: BAO BUI Q.	Document No: 4	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



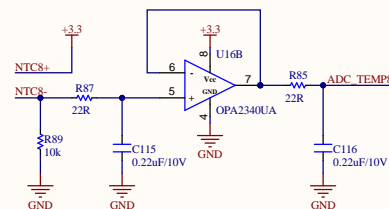
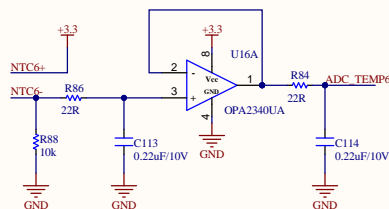
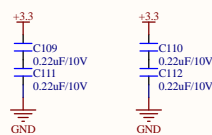
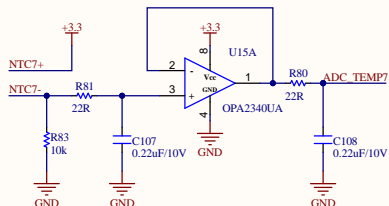
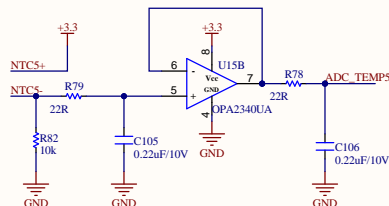
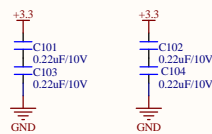
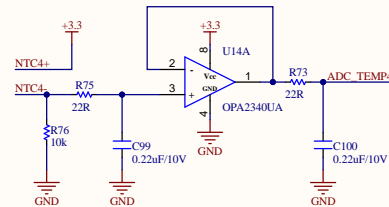
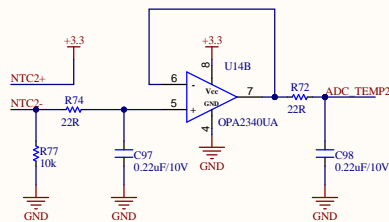
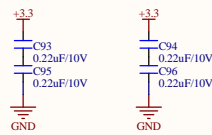
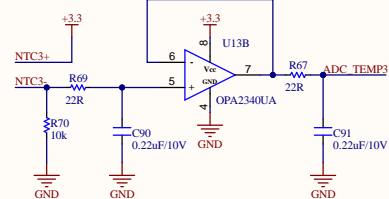
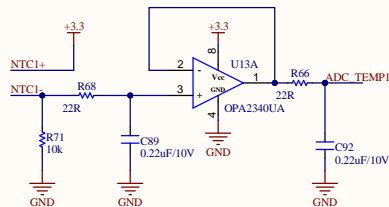
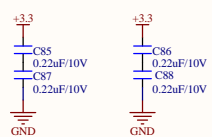
Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: EXP_OBC_COMM.SchDoc	Sheet 5 of 11
Checked by: BAO BUI Q.	Document No: 5	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



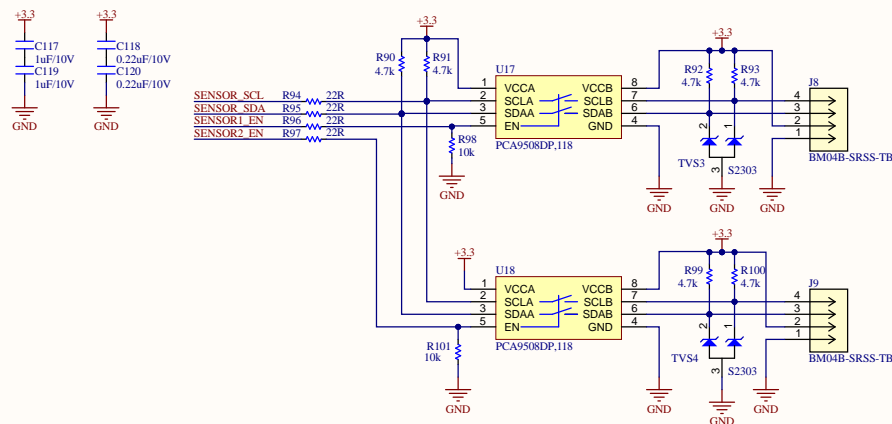
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Design by: SANG HUYNH	Sheet title: TEC_DRV.SchDoc	Sheet 6 of 11
Checked by: BAO BUI Q.	Document No: 6	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



Project: BEE-PC1		Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: HEATER.SchDoc	Sheet 7 of 11	
Checked by: BAO BUI Q.	Document No: 7	Size: A3	
Approved by: VU PHAM	Revision: V1.0.1	Date: 2/15/2025	

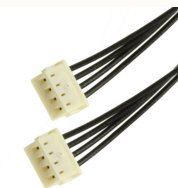
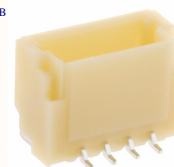


Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: NTC.SchDoc	Sheet 8 of 11
Checked by: BAO BUI Q.	Document No: 8	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:

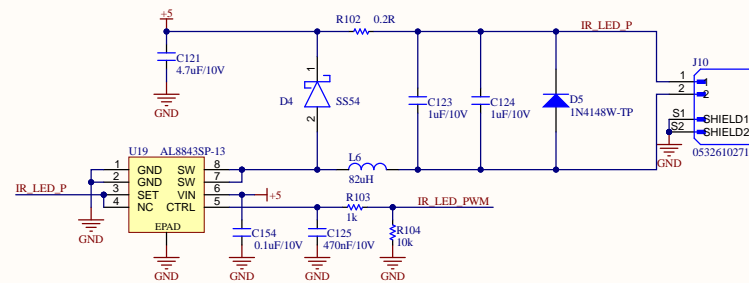


JST Sales America Inc. BM04B-SRSS-TB

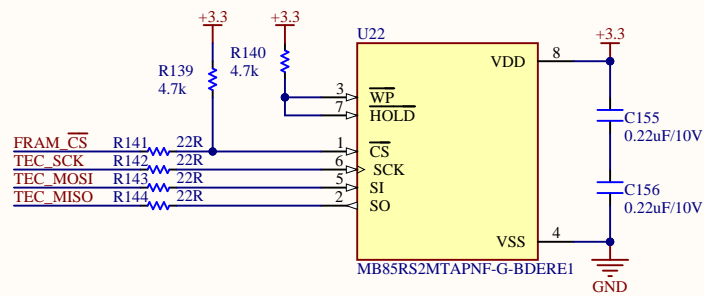
- ELECTRICAL:
CURRENT RATING: 1.0A AC/DC/CONTACT
VOLTAGE RATING: 50V AC/DC/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -25°C ~ 85°C
- PHYSICAL:
PITCH-MATING: 0.039" (1.00mm)
- WIRE:
WIRE SIZE: 26 AWG
MAX CURRENT: 0.1A per Wire
ISULATION MATERIAL: PTFE
- MATING:
JST Sales America Inc.
A04SR04SR30K152B



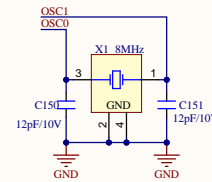
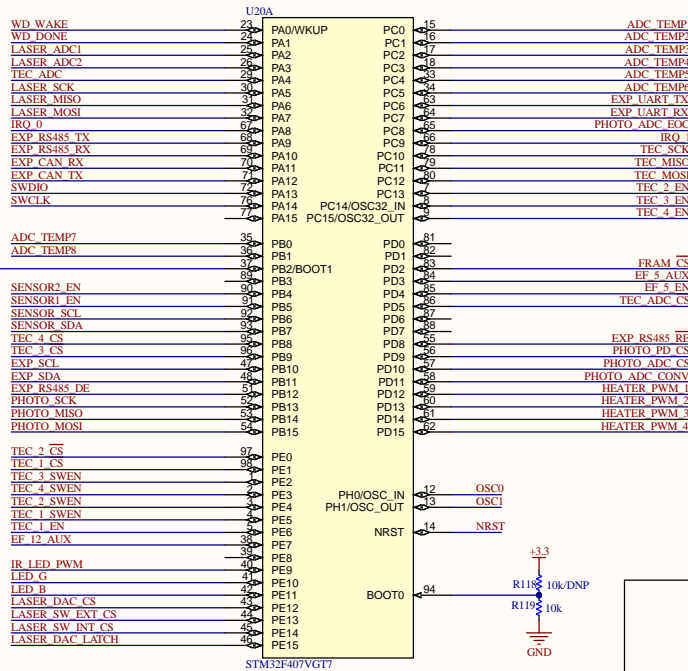
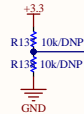
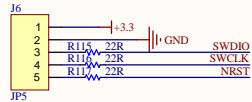
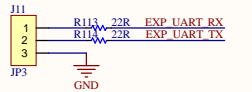
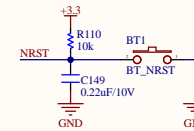
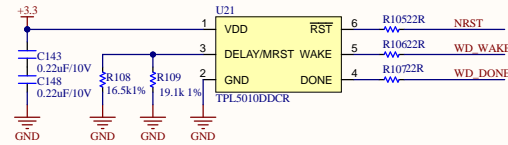
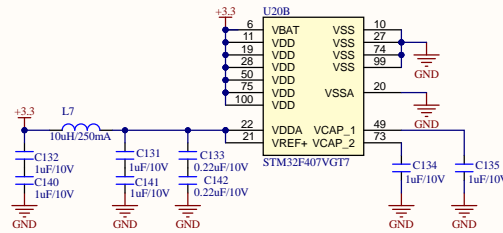
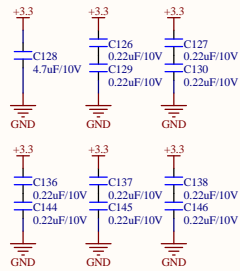
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Design by: SANG HUYNH	Sheet title: I2C_Sensor.SchDoc	Sheet 9 of 11
Checked by: BAO BUI Q.	Document No: 9	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: IR_LED.SchDoc	Sheet 10 of 11
Checked by: BAO BUI Q.	Document No: 10	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



Title		
Size A4	Number	Revision
Date:	2/17/2025	Sheet of
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Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: MCU.SchDoc	Sheet 12 of 11
Checked by: BAO BUI Q.	Document No: 12	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date: