

Table of Content

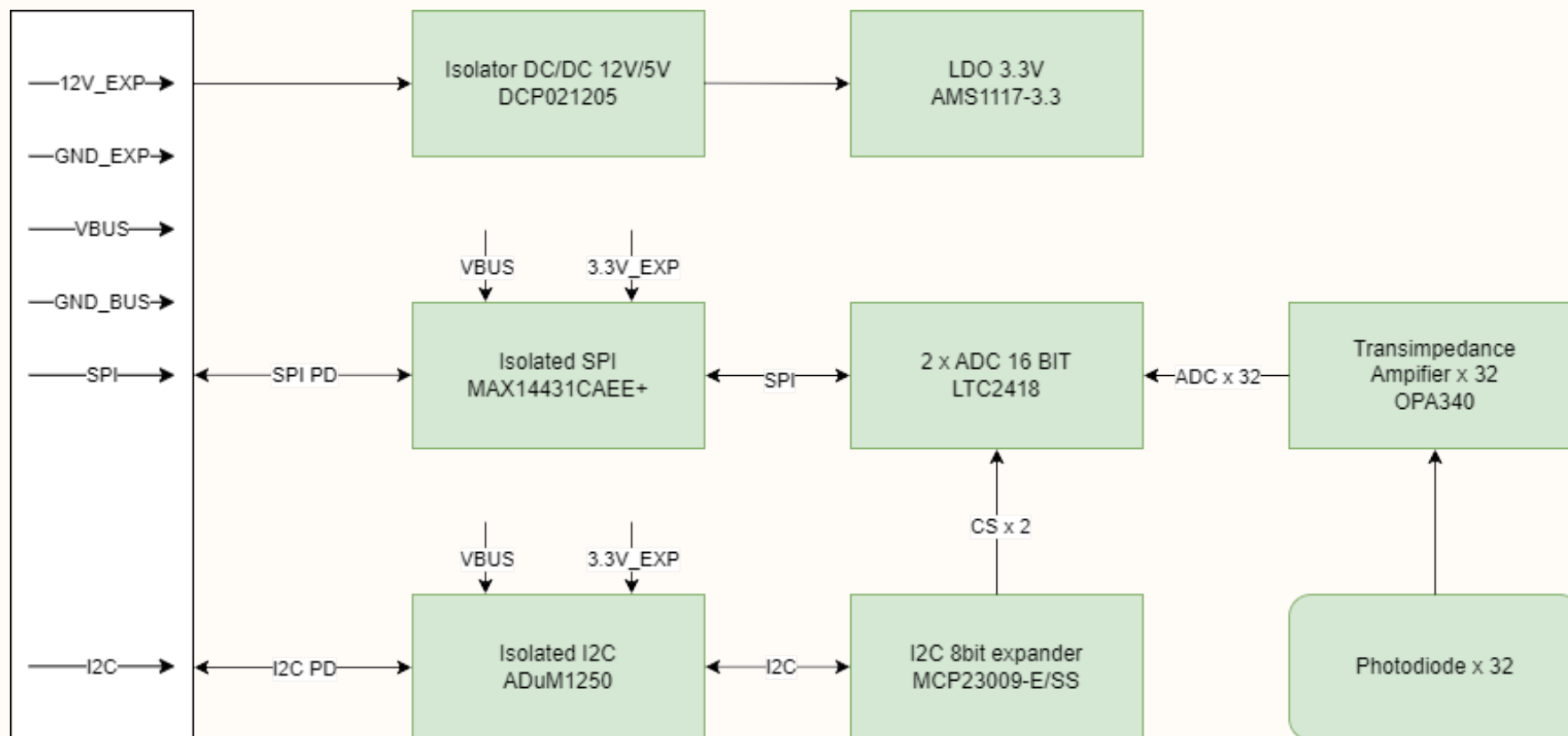
PAGE	COMPONENT/ FUNCTION
001	INDEX
002	BLOCK_DIAGRAM
003	POWER_ISOLATE_AND_LDO
004	COMMUNICATION
005	PHOTODIODE
006	PHOTODIODE (CONT)

NANORACK PHOTODIODE

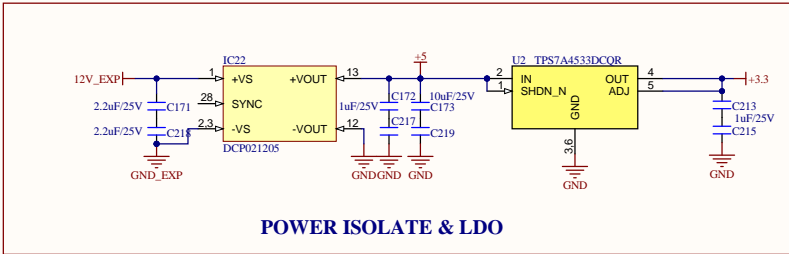
Schematic V1.0.0



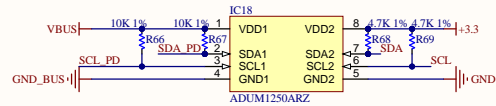
Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: INDEX.SchDoc	Sheet 1 of 6
Checked by: Bao Bui Q.	Document No: 1	Size: A3
Approved by: Vu Pham	Revision: V1.0.0	Date: 10/3/2024



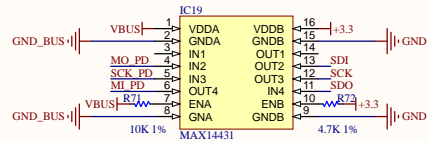
Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: BLOCK_DIAGRAM.SchDoc	Sheet 2 of 6
Checked by: Bao Bui Q.	Document No: 2	Size: A3
Approved by: Vu Pham	Revision: V1.0.0	Date: 10/6/2024



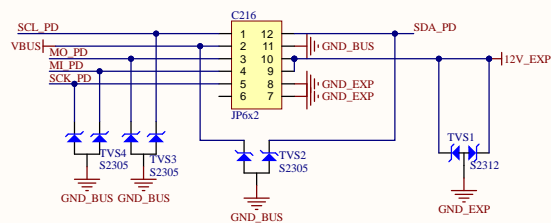
Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb
Design by: Hung Nguyen D.	Sheet title: POWER_ISOLATE_AND_LDO.SchDoc 3 of 6
Checked by: Bao Bui Q.	Document No: 3
Approved by: Vu Pham	Revision: V1.0.0
	Size: A3
	Date: 10/7/2024



ISOLATED I2C



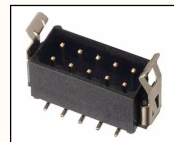
ISOLATED SPI



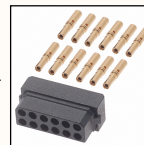
CONNECTOR

Harwin Inc. M80-8281242

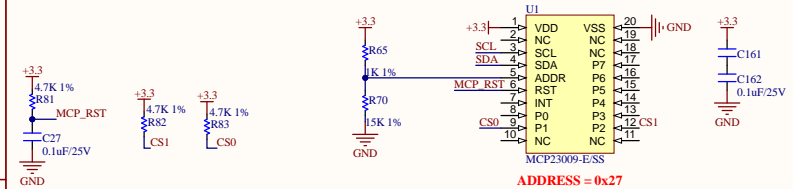
- ELECTRICAL:
CURRENT RATING: 2.2A/CONTACT
VOLTAGE RATING: 800V/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -55°C TO +125°C
- PHYSICAL:
PITCH-MATING: 0.079" (2.00mm)
- WIRE:
WIRE SIZE: 24 AWG
MAX CURRENT: 1A per Wire
ISULATION MATERIAL: PTFE
- MATING:
Harwin Inc. M80-8881205



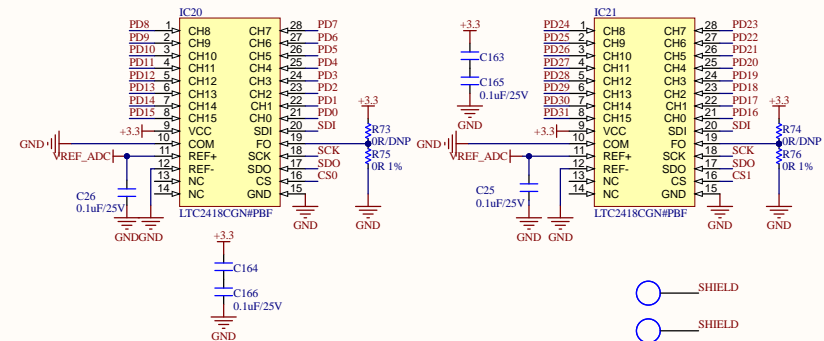
- MATING -



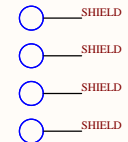
M80-8881205



I2C EXPANDER



2 x ADC 16 CHANNEL



Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: COMMUNICATION.SchDoc	Sheet 4 of 6
Checked by: Bao Bui Q.	Document No: 4	Size: A3
Approved by: Vu Pham	Revision: V1.0.0	Date: 10/6/2024

A

B

C

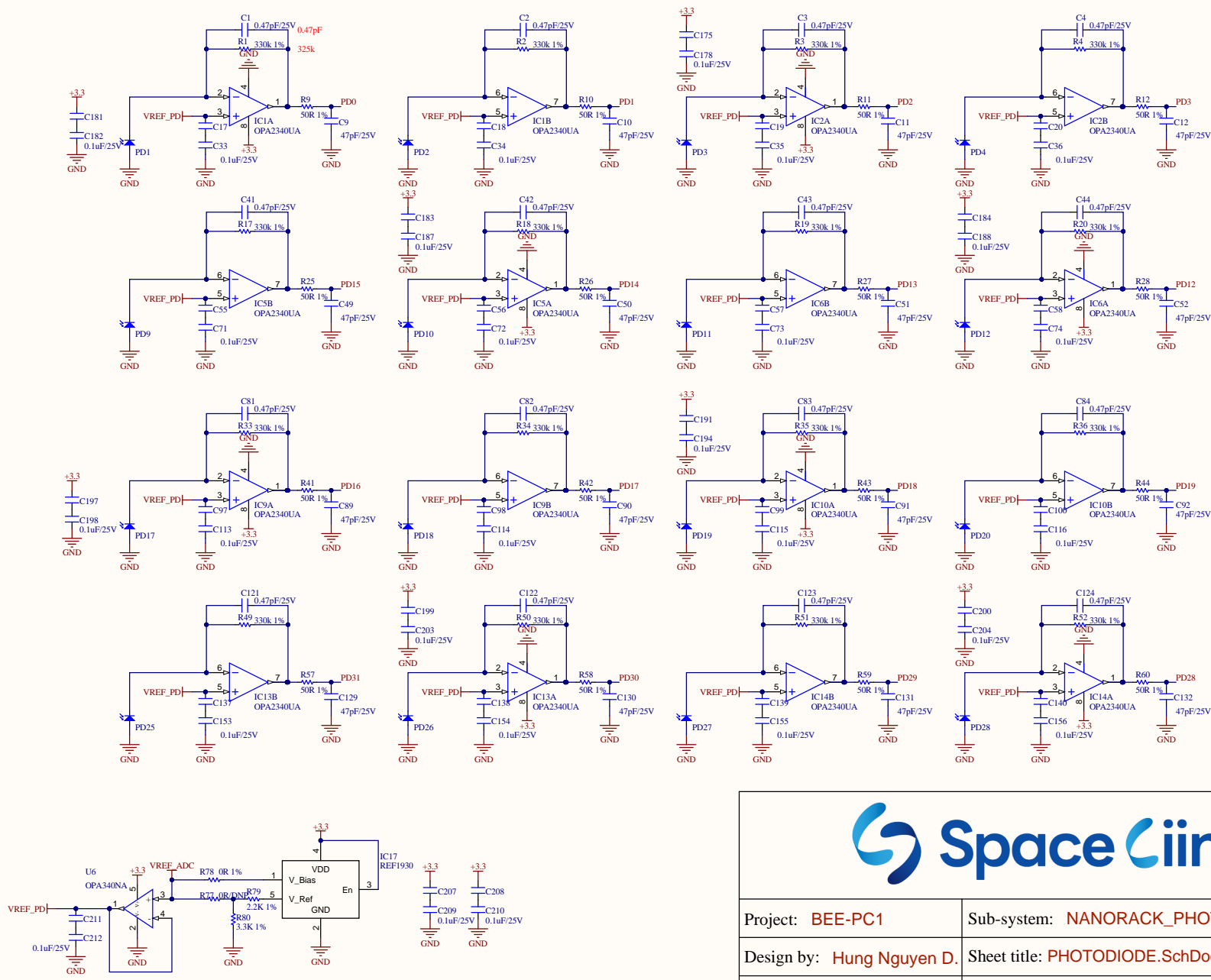
D

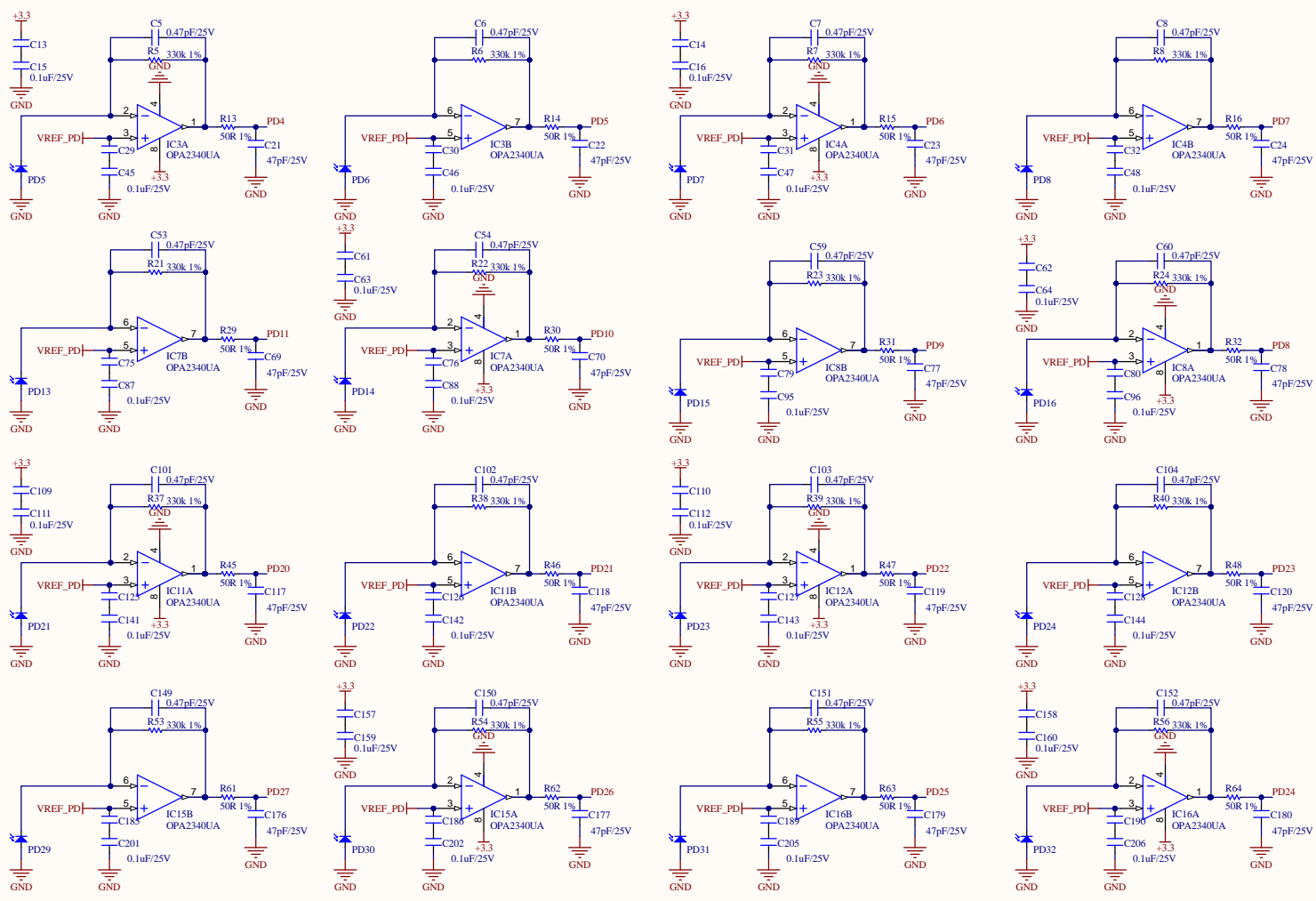
A

B

C

D





Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: PHOTODIODE (CONT).SchDoc	Sheet 6 of 6
Checked by: Bao Bui Q.	Document No: 6	Size: A3
Approved by: Vu Pham	Revision: V1.0.0	Date: 10/4/2024