

NANORACK PHOTODIODE

Schematic V1.2.1

History

Table of Content

PAGE	COMPONENT/ FUNCTION
001	INDEX
002	BLOCK_DIAGRAM
003	POWER SWITCH AND LDO
004	COMMUNICATION
005	PHOTODIODE

VERSION	DISCRIPTION
1.0.0	INITIAL PROJECT
1.1.0	REPLACE SWITCHING OBJECT
1.1.1	CHANGE SUPPLY POWER SWITCHING
1.1.2	CHANGE EPAD PIN OF SWITCH TO VSS
1.2.0	ADD HOLES (CENTER OF SIDES)
1.2.1	CHANGE ADG1414 CATEGORY



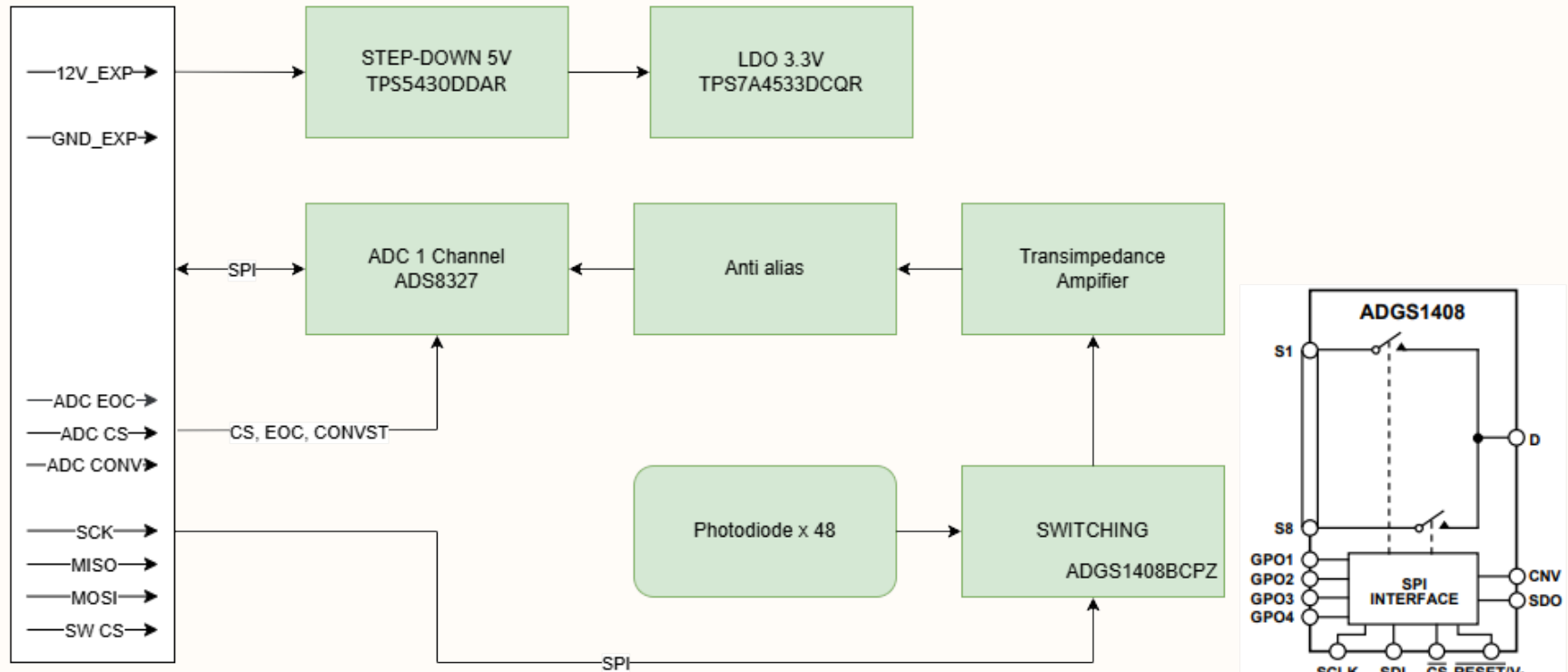
Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: INDEX.SchDoc	Sheet 1 of 5
Checked by: Bao Bui Q.	Document No: 1	Size: A3
Approved by: Vu Pham	Revision: V1.2.1	Date: 5/25/2025

PHOTODIODE

0532610971 - Molex

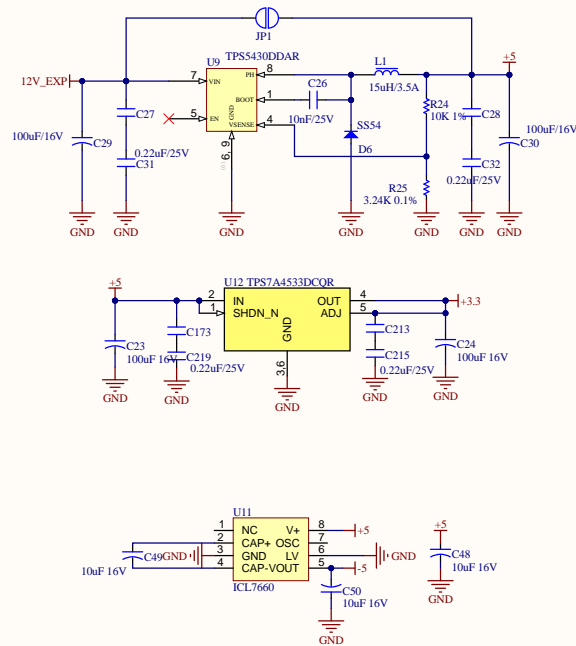


1	12V_EXP
2	GND_EXP
3	SCK
4	MOSI
5	MISO
6	SW_CS
7	ADC_CS
8	ADC_CONV
9	ADC_EOC



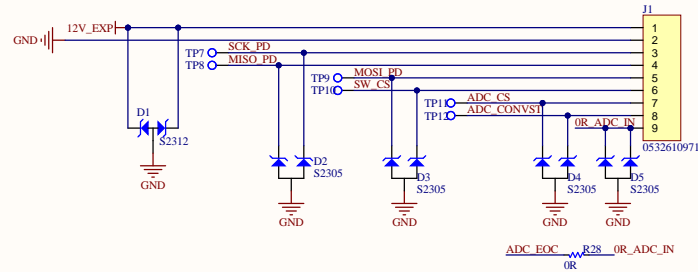
Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: BLOCK_DIAGRAM.SchDoc	Sheet 2 of 5
Checked by: Bao Bui Q.	Document No: 2	Size: A3
Approved by: Vu Pham	Revision: V1.2.1	Date: 5/25/2025

POWER SWITCH AND LDO



Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: POWER SWITCH AND LDO.SchDoc	Sheet 3 of 5
Checked by: Bao Bui Q.	Document No: 3	Size: A3
Approved by: Vu Pham	Revision: V1.2.1	Date: 5/25/2025

CONNECTOR

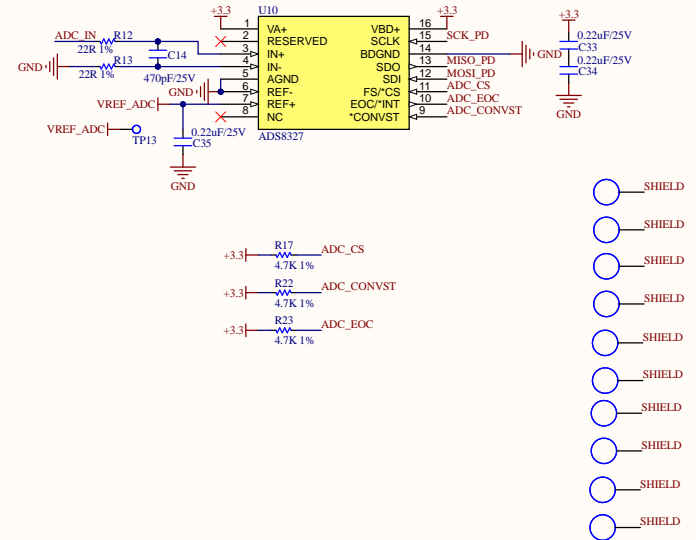


Molex - 0532610971

- ELECTRICAL:
CURRENT RATING: 1A/CONTACT
VOLTAGE RATING: 125V/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -40°C TO +105°C
- PHYSICAL:
PITCH-MATING: 0.049" (1.25mm)
- WIRE:
WIRE SIZE: 24 AWG
MAX CURRENT: 1A per Wire
ISULATION MATERIAL: PTFE
- MATING:
Molex - 0510210900



ADC



Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: COMMUNICATION.SchDoc	Sheet 4 of 5
Checked by: Bao Bui Q.	Document No: 4	Size: A3
Approved by: Vu Pham	Revision: V1.2.1	Date: 5/26/2025



Sub-system: NANORACK_PHOTODIODE.PrjPcb

Sheet 5 of 5

Size: A3

Date: 7/1/2025