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## NANORACK PHOTODIODE

### Schematic V1.1.0



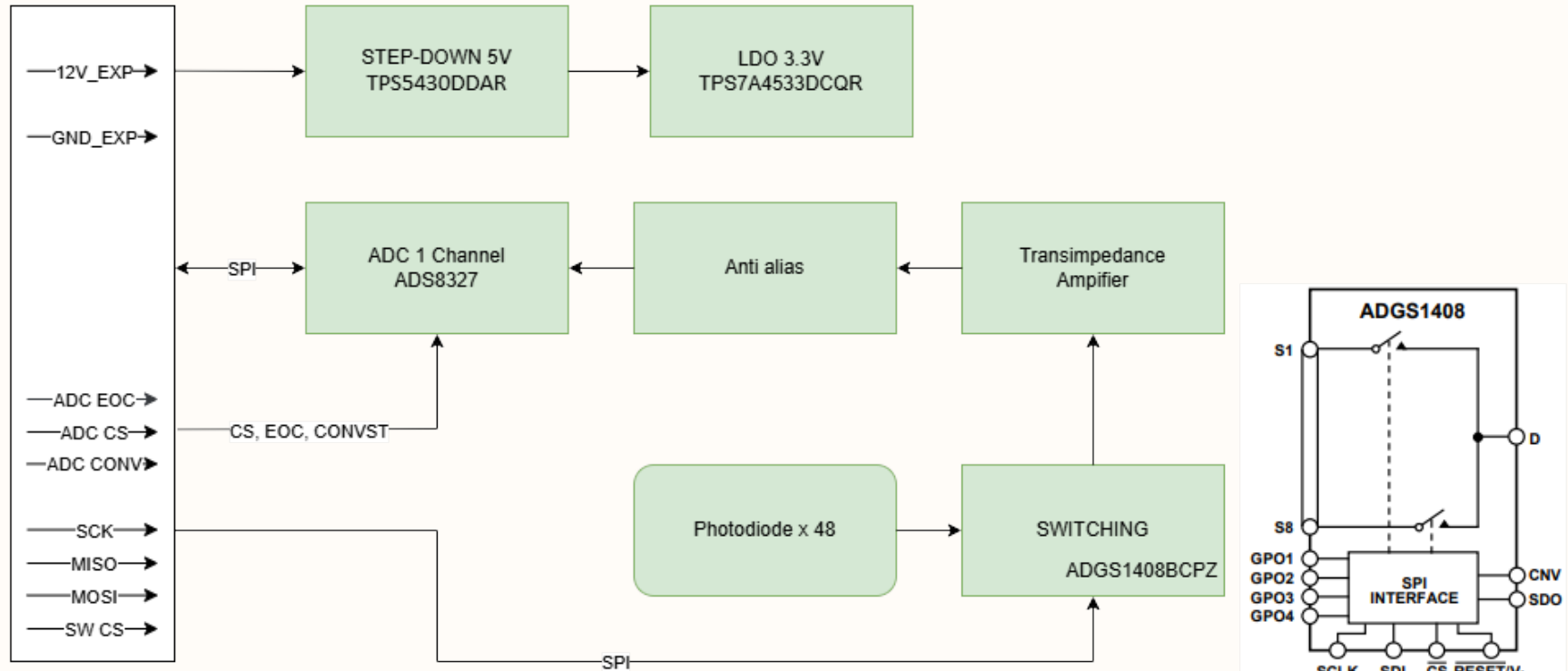
Project: <b>BEE-PC1</b>	Sub-system: <b>NANORACK_PHOTODIODE.PrjPcb</b>	
Design by: <b>Hung Nguyen D.</b>	Sheet title: <b>INDEX.SchDoc</b>	Sheet <b>1</b> of <b>5</b>
Checked by: <b>Bao Bui Q.</b>	Document No: <b>1</b>	Size: <b>A3</b>
Approved by: <b>Vu Pham</b>	Revision: <b>V1.1.0</b>	Date: <b>1/15/2025</b>

# PHOTODIODE

0532610971 - Molex

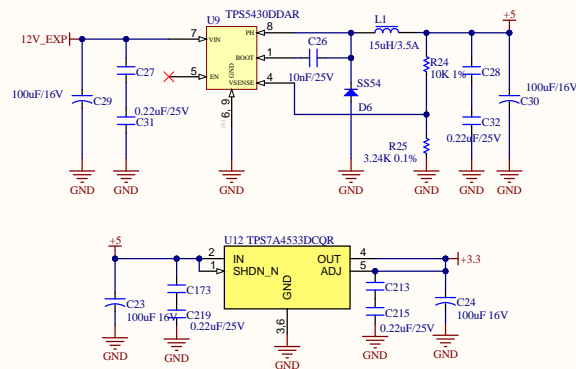


1	12V_EXP
2	GND_EXP
3	SCK
4	MOSI
5	MISO
6	SW_CS
7	ADC_CS
8	ADC_CONV
9	ADC_EOC



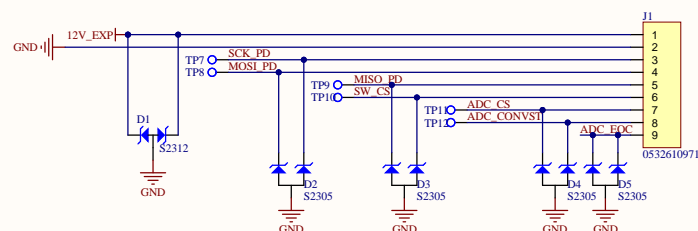
Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: BLOCK_DIAGRAM.SchDoc	Sheet 2 of 5
Checked by: Bao Bui Q.	Document No: 2	Size: A3
Approved by: Vu Pham	Revision: V1.1.0	Date: 1/15/2025

# POWER SWITCH AND LDO



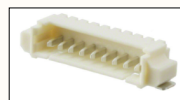
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Design by: <b>Hung Nguyen D.</b>	Sheet title: <b>POWER SWITCH AND LDO.SchDoc</b>	Sheet <b>3</b> of <b>5</b>
Checked by: <b>Bao Bui Q.</b>	Document No: <b>3</b>	Size: <b>A3</b>
Approved by: <b>Vu Pham</b>	Revision: <b>V1.1.0</b>	Date: <b>1/15/2025</b>

## 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

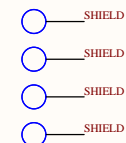
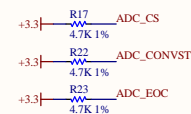
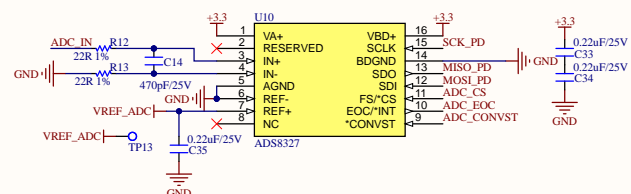


- MATING -



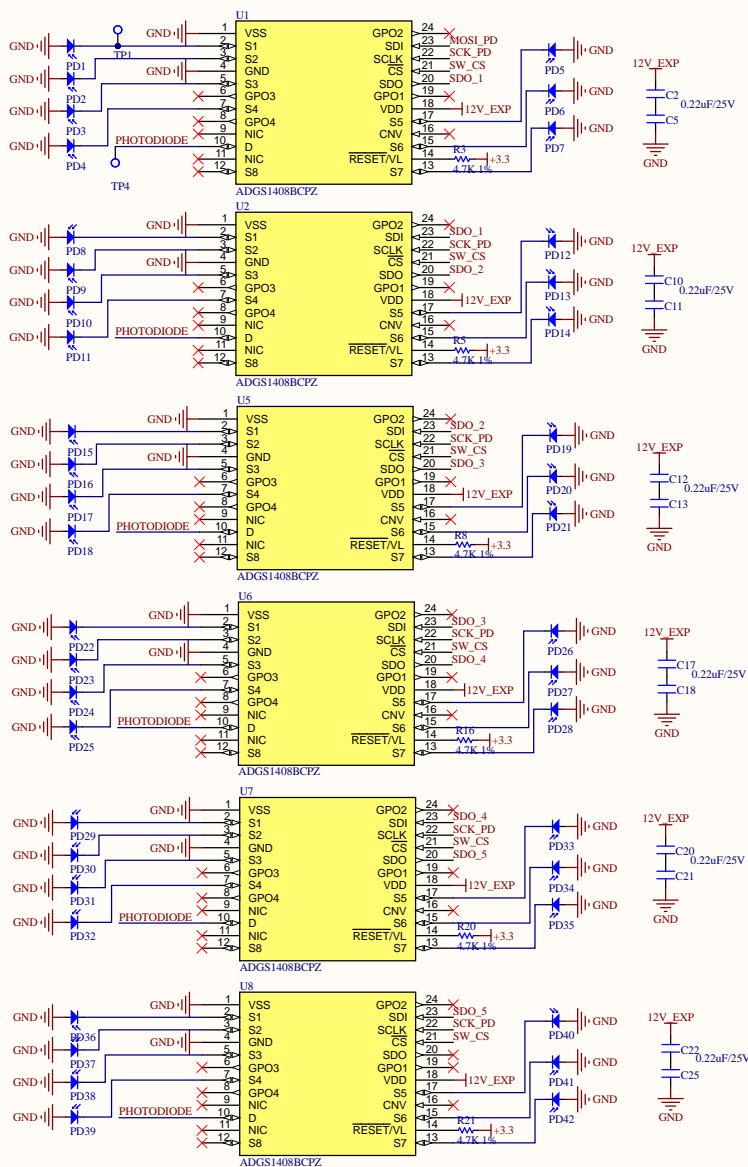
0510210900

## ADC

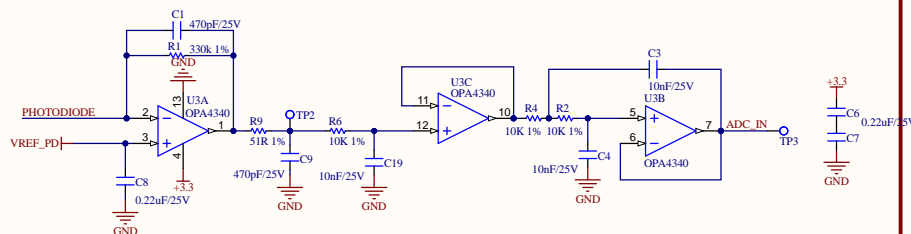


Project: <b>BEE-PC1</b>	Sub-system: <b>NANORACK_PHOTODIODE.PrjPcb</b>	
Design by: <b>Hung Nguyen D.</b>	Sheet title: <b>COMMUNICATION.SchDoc</b>	Sheet <b>4</b> of <b>5</b>
Checked by: <b>Bao Bui Q.</b>	Document No: <b>4</b>	Size: <b>A3</b>
Approved by: <b>Vu Pham</b>	Revision: <b>V1.1.0</b>	Date: <b>1/15/2025</b>

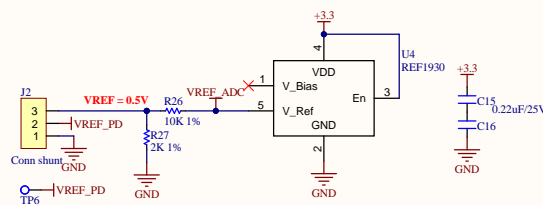
## SWITCHING



## TRANSIMPEDANCE, ANTI ALIAS



## VREF



Project: BEE-PC1	Sub-system: NANORACK_PHOTODIODE.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: PHOTODIODE.SchDoc	Sheet 5 of 5
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Approved by: Vu Pham	Revision: V1.1.0	Date: 1/15/2025