

Update on Automated SiPM Characterization

J.L Rocabado, M. Querol, M.Á. García-Peris, A. Cervera

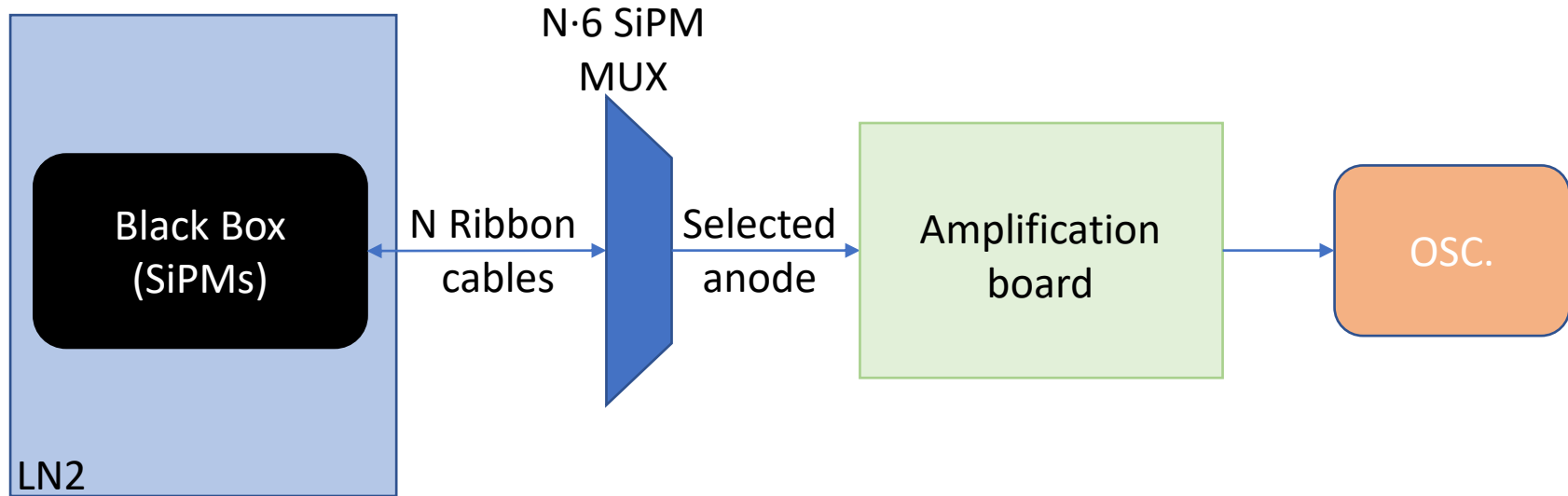
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Update

- Prototype.
- Prototype status.
- Next steps.

Prototype

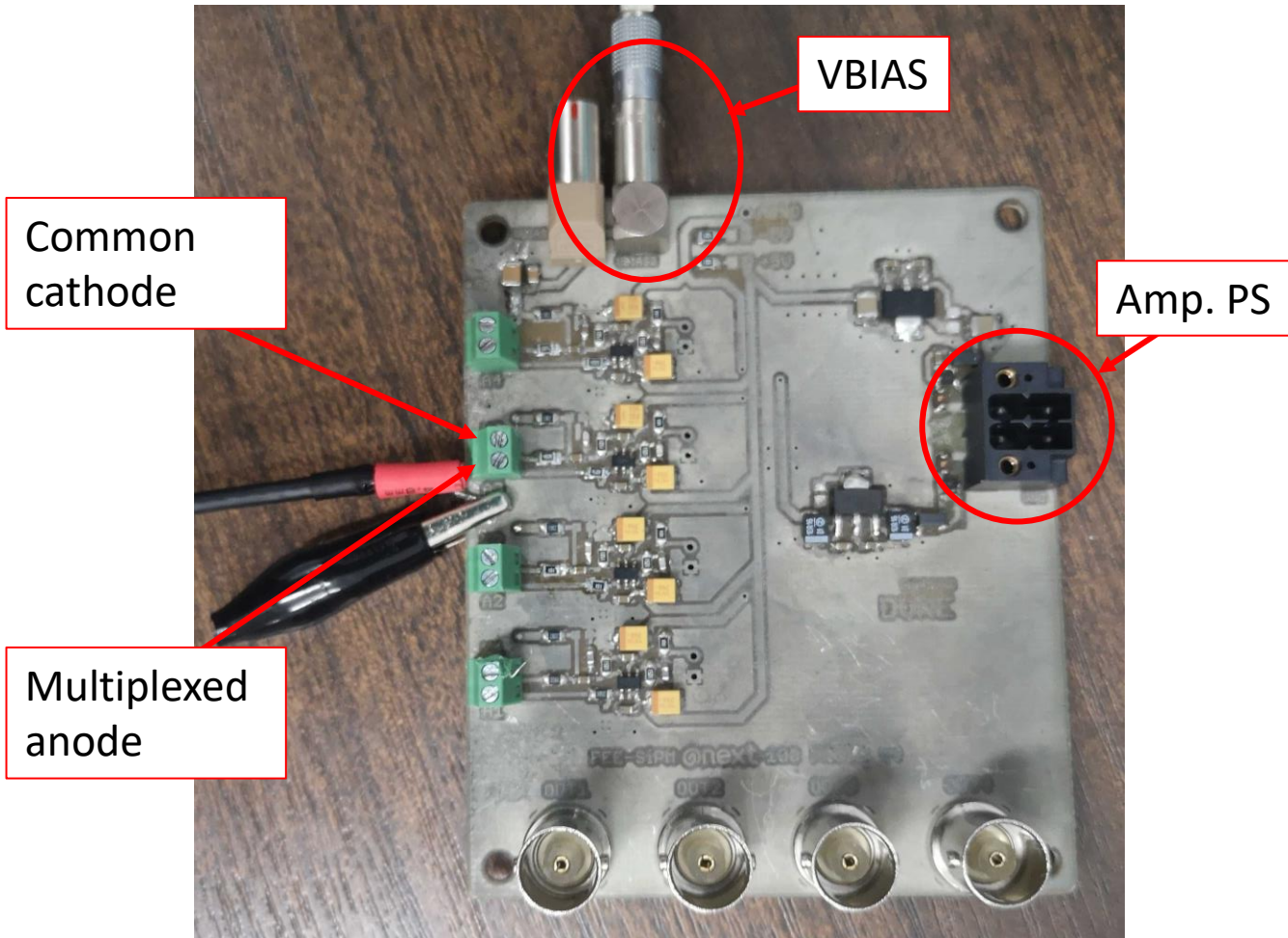
Adopted block diagram



- N SiPM Boards.
- Common cathode.
- Ribbon cable to reduce cable volume.

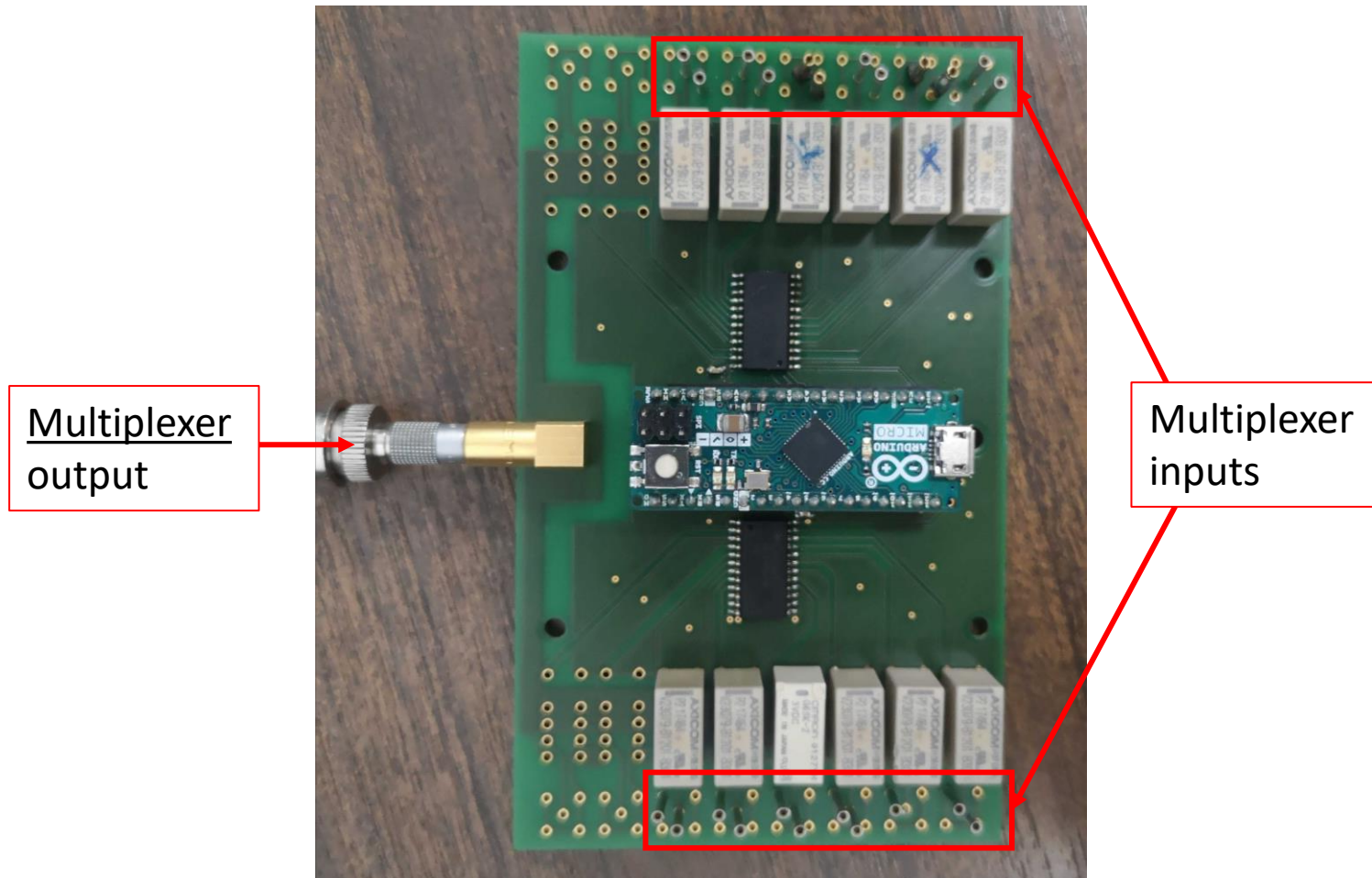
Prototype

Printed Circuit Boards



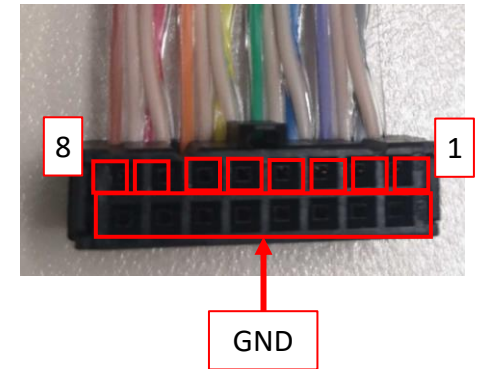
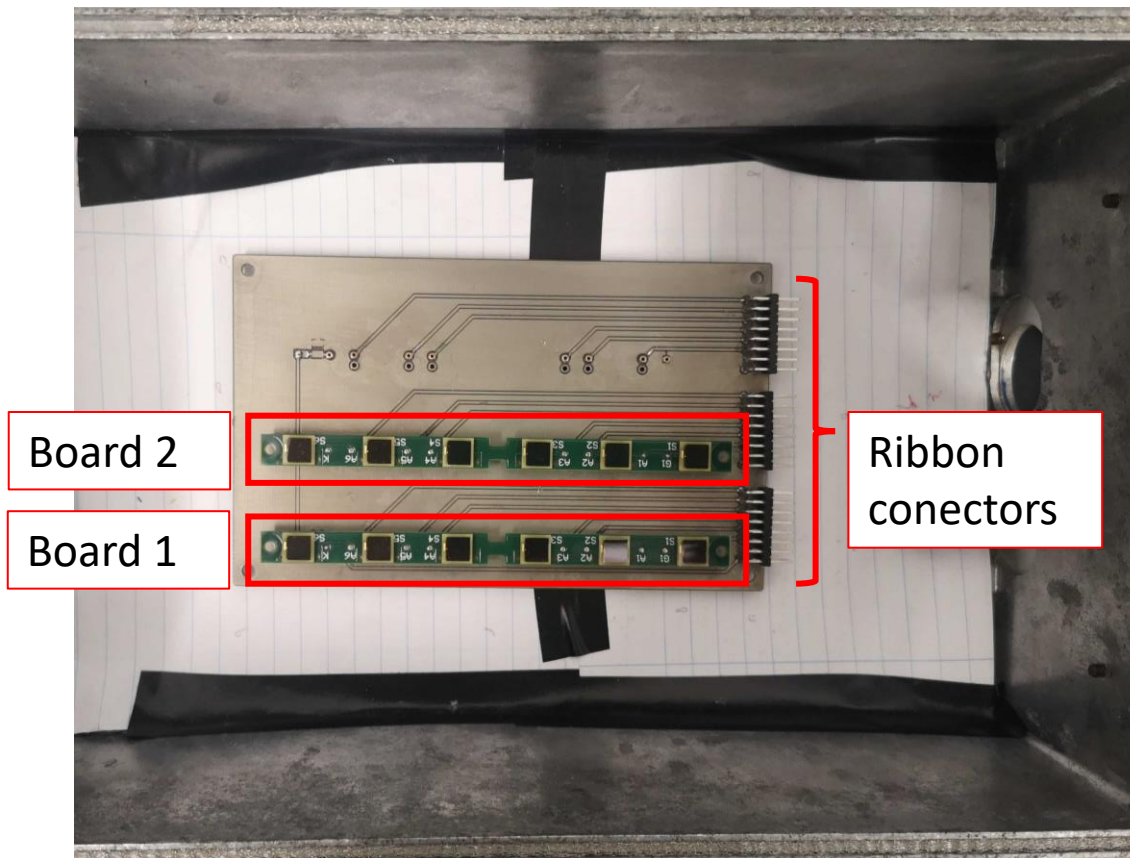
Prototype

Printed Circuit Boards



Prototype

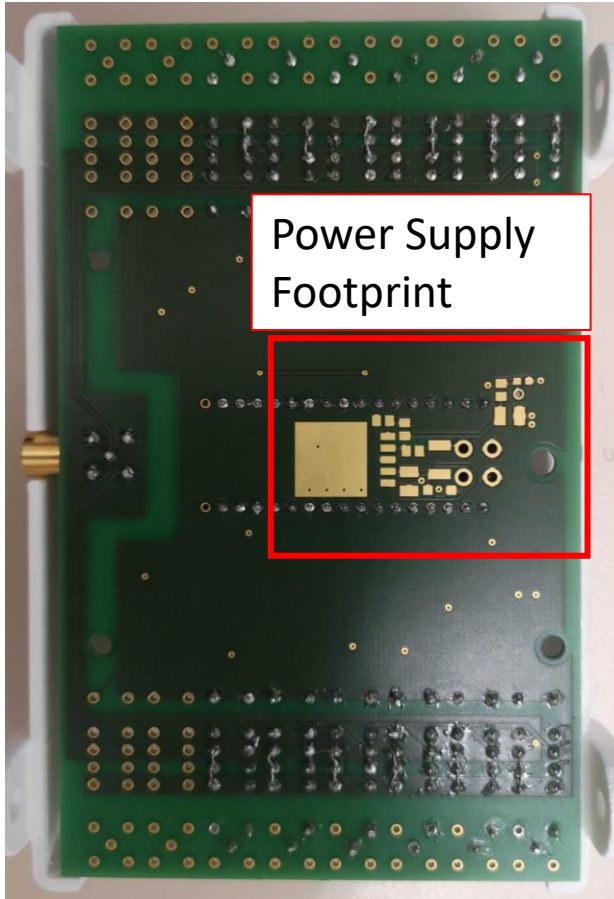
Printed Circuit Boards



1. Common cathode
2. GND
3. Anode 1
4. Anode 2
5. Anode 3
6. Anode 4
7. Anode 5
8. Anode 6

Prototype status

Current status



- Marc's design requires additional power supply to fully drive all relays. Some parts have to be bought.
- Still, 14/16 channels work properly.
- Ribbon cables must not be larger than 50 cm.

Next steps

- Buy the required components for the additional power supply.
- Test the functional channels to check proper functioning and validate the system once the PS is soldered.
- Begin with the design of an escalated system.

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