

# ELECTRONICS UPDATES

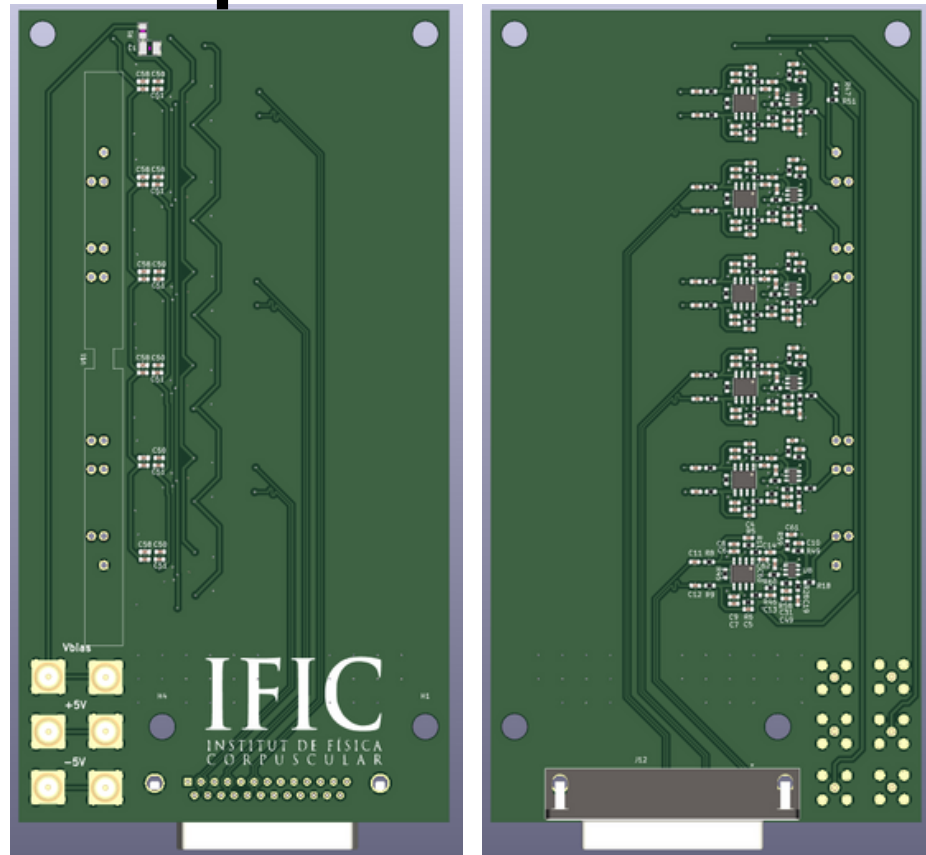
CARLOS BENITEZ MONTIEL

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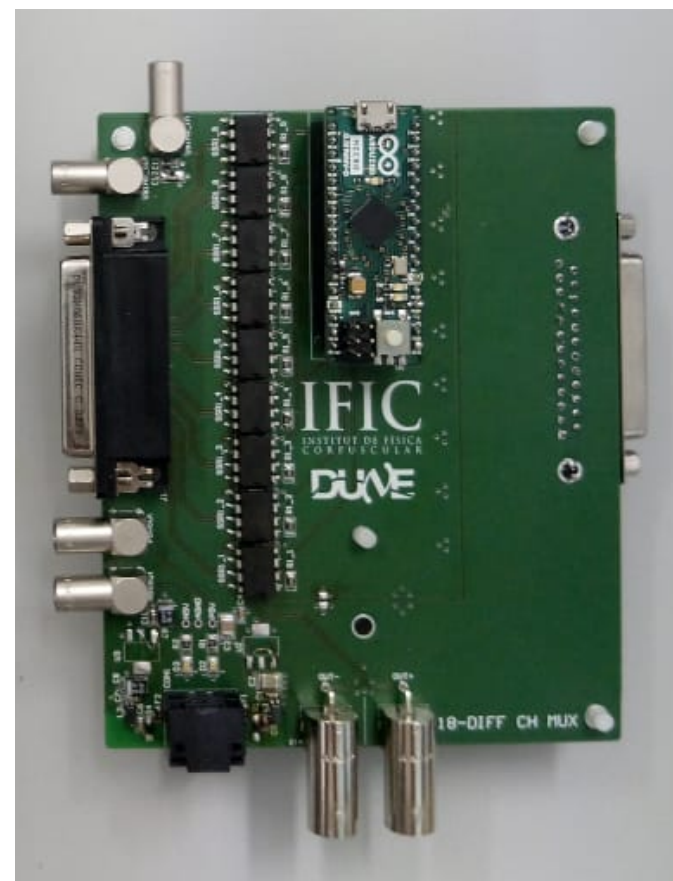
IFIC - UPV

# AMPLIFICATION AND MULTIPLEXER BOARDS

Ampl board for 6 SiPMS



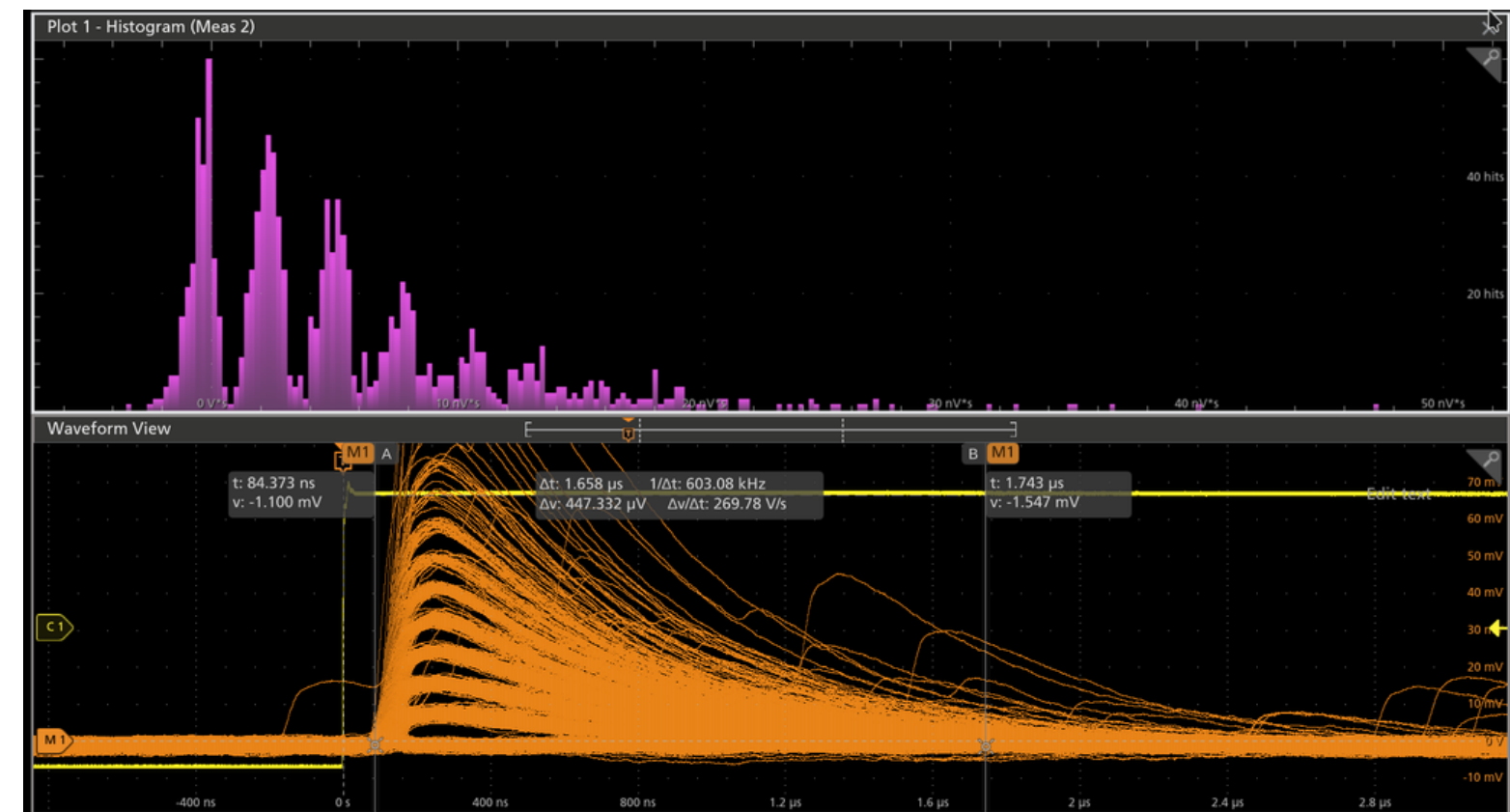
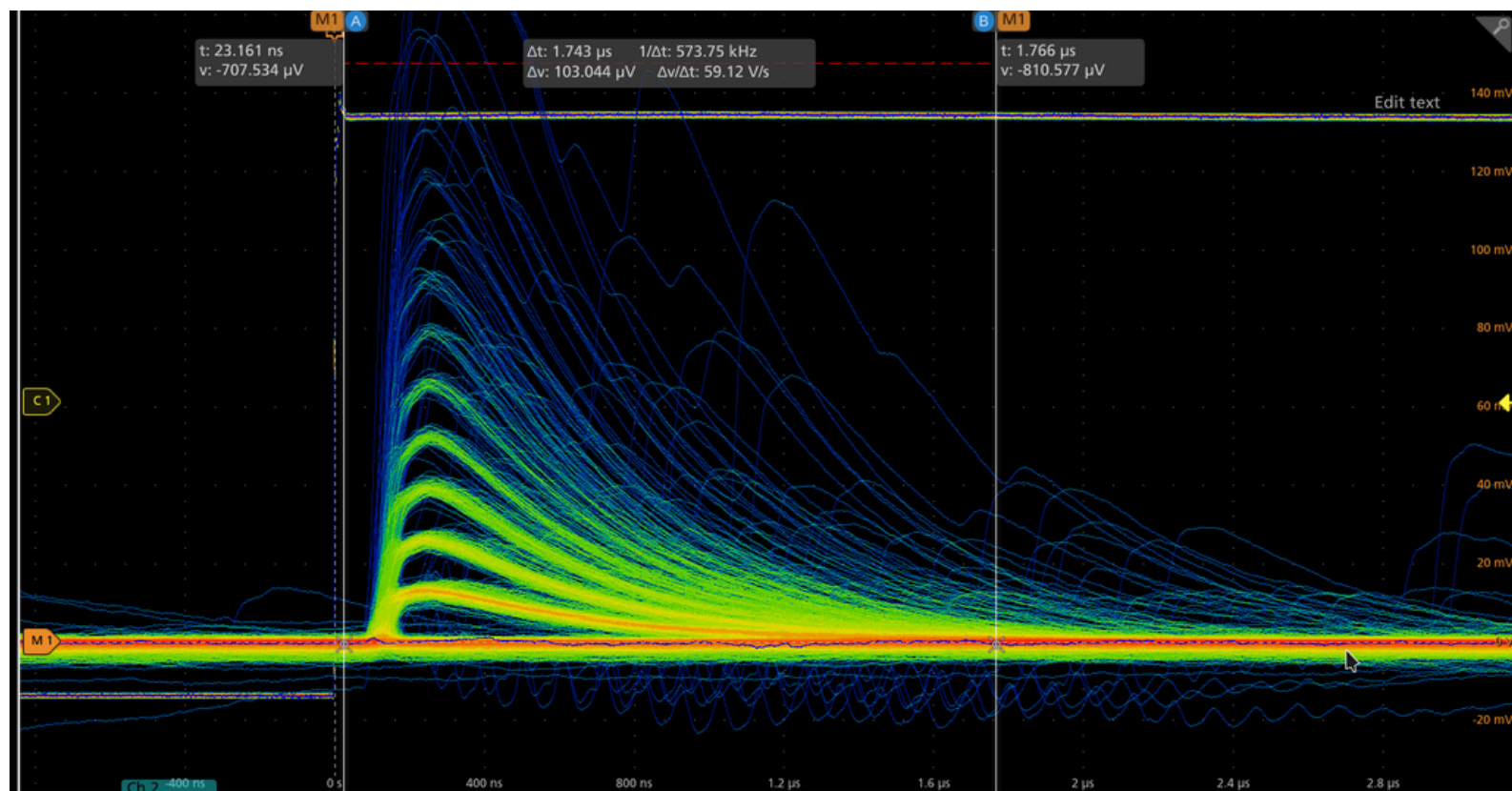
Mux board for 18 Channels

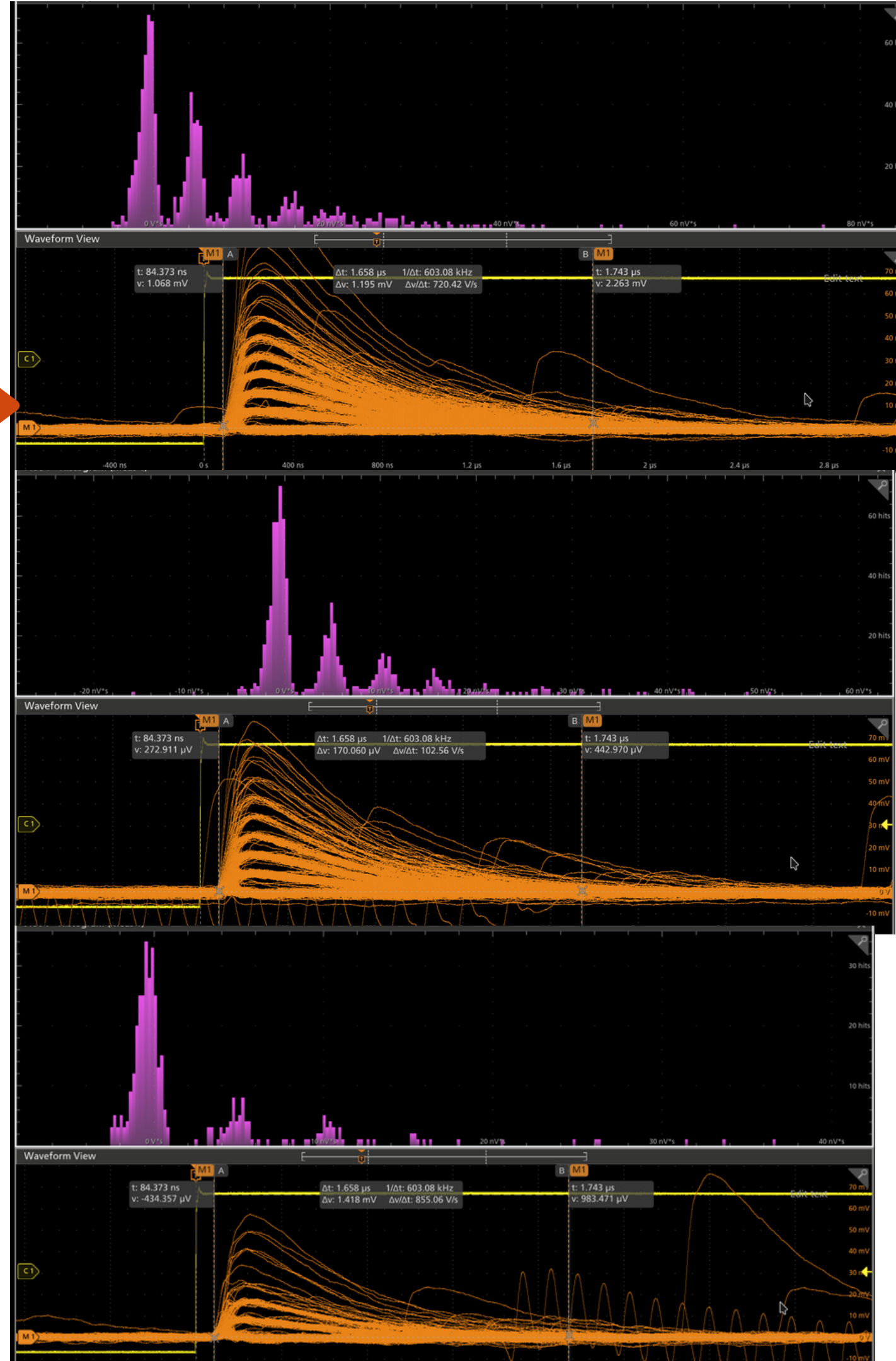
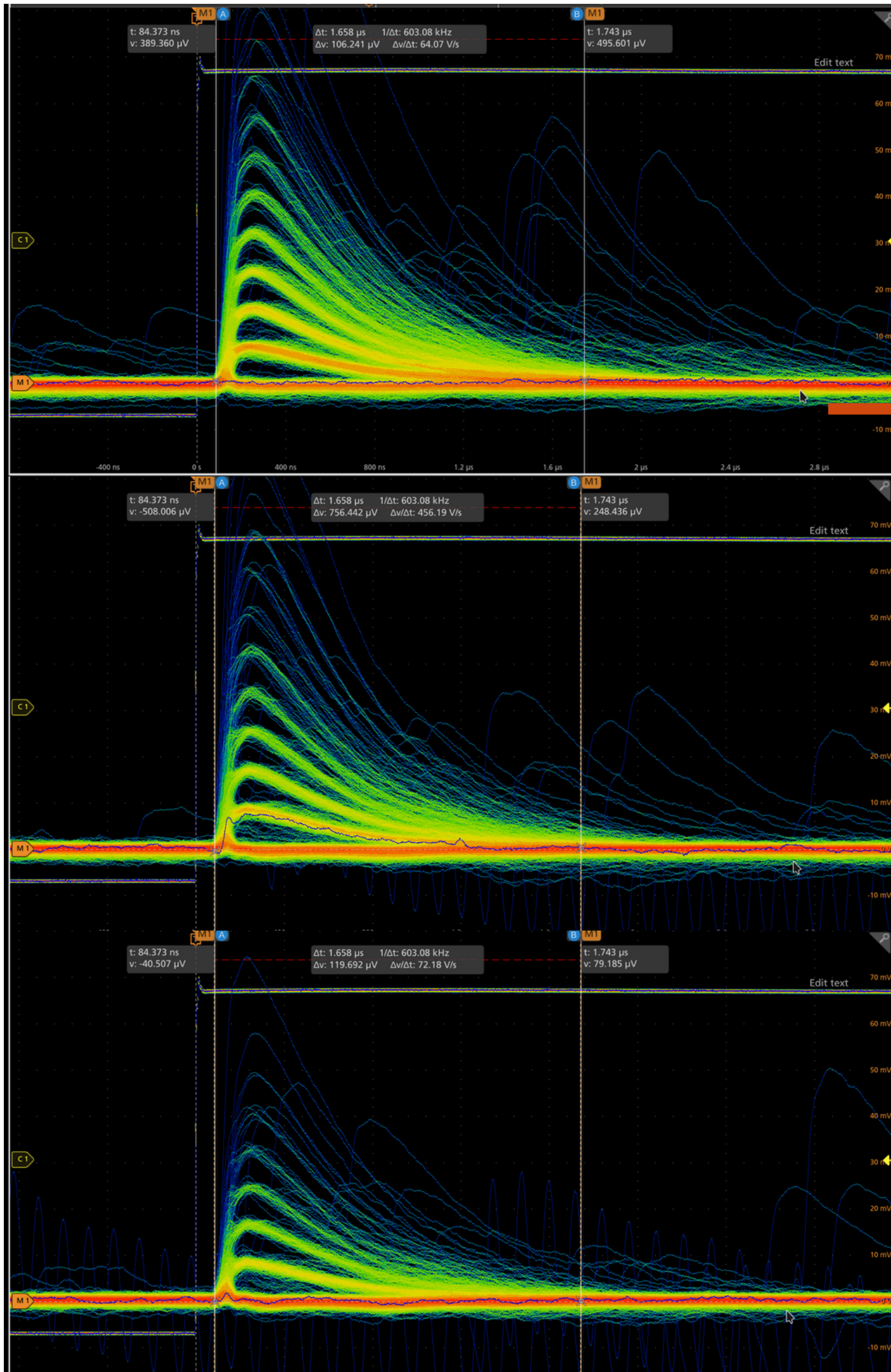


**The amplification board has two operational amplifier stages for each SiPM and the multiplexer is controlled by an arduino nano.**

## Results

Channel 1





← Channel 2

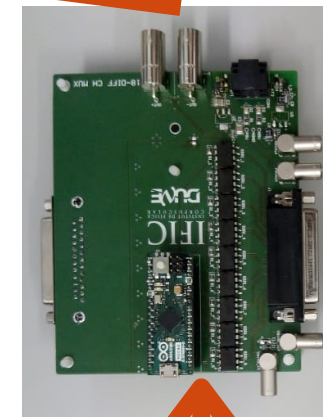
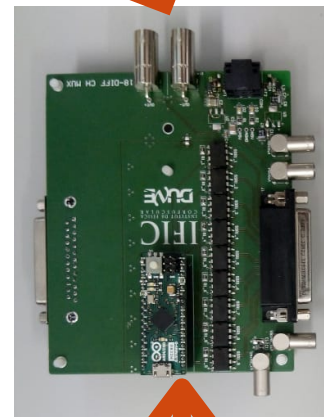
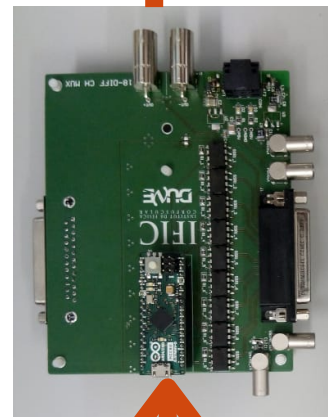
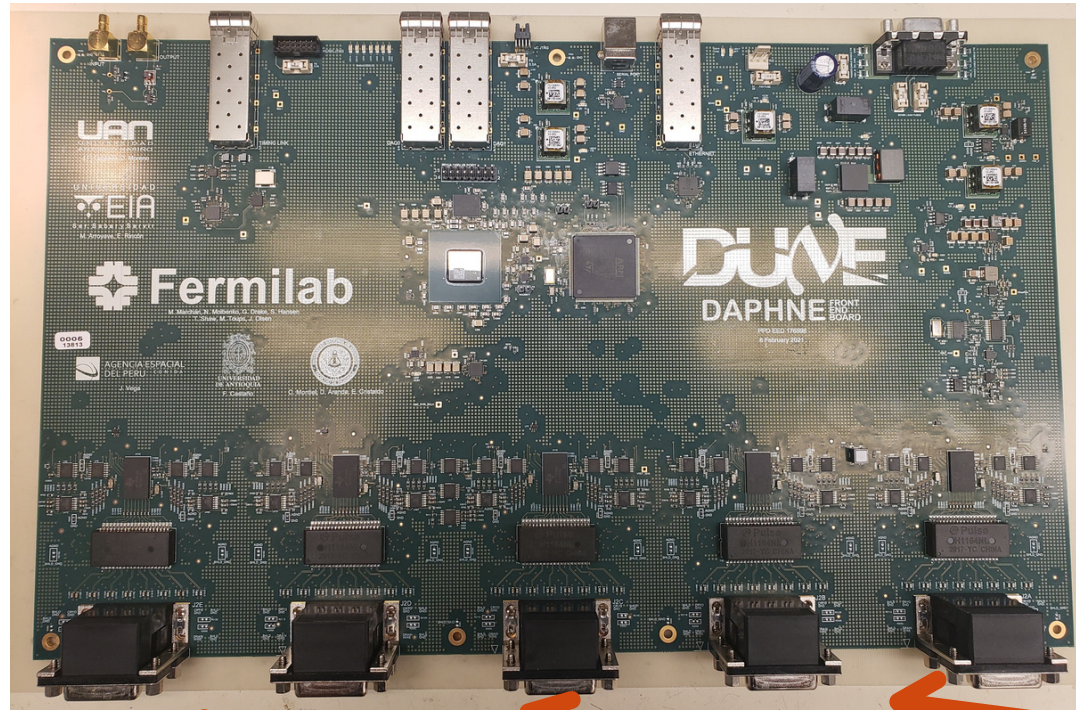
← Channel 3

← Channel 4

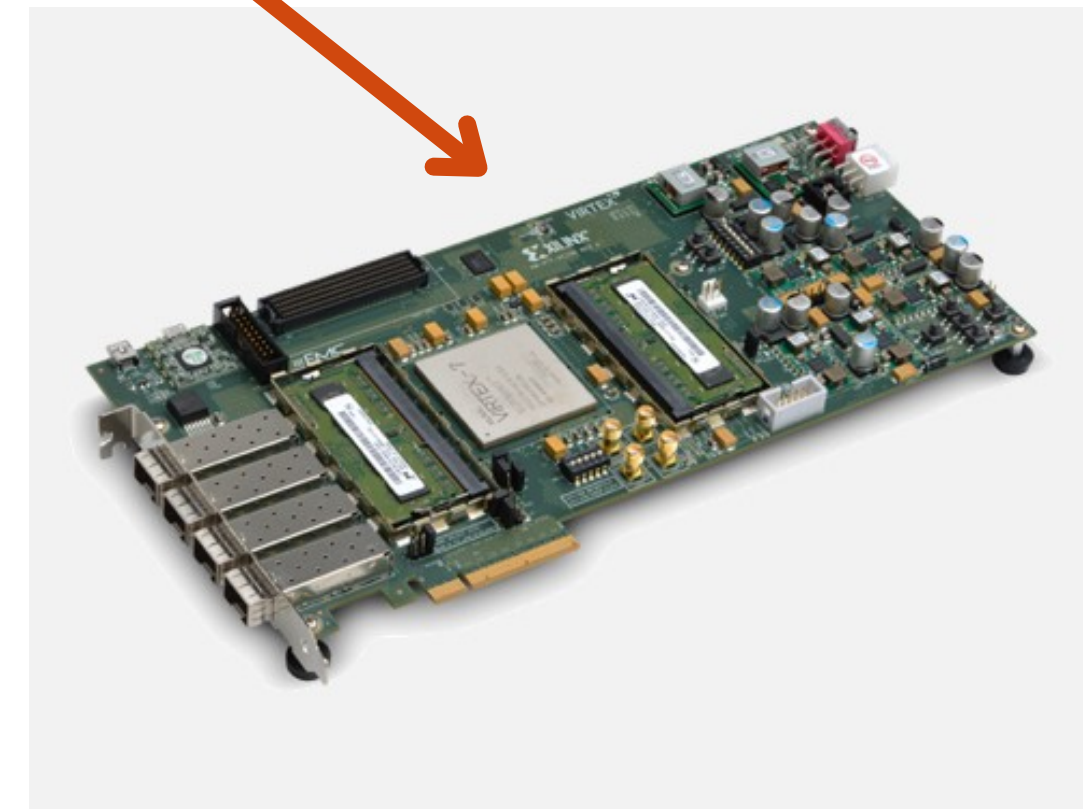
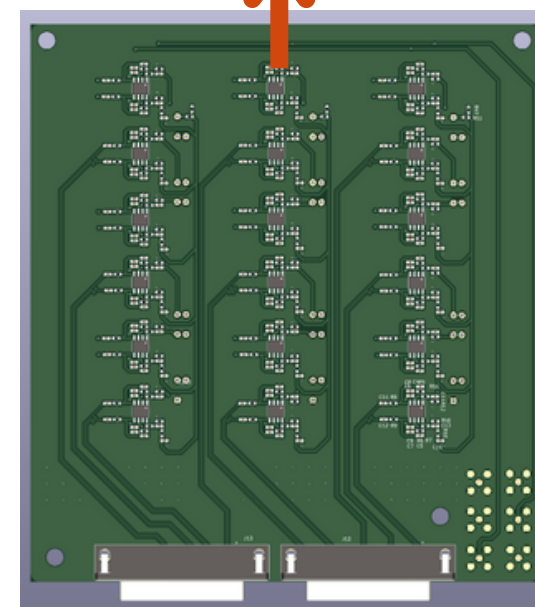
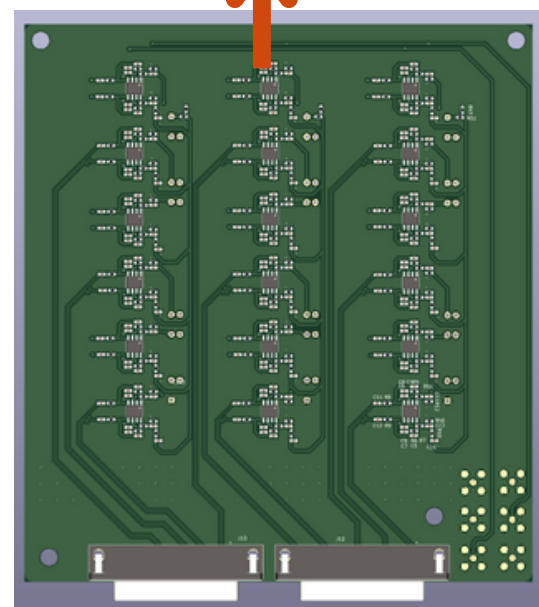
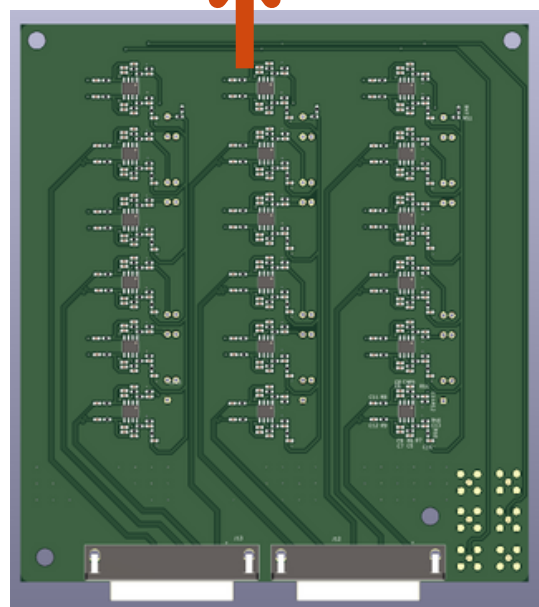
# MASSIBO Massive SiPMs Characterization Boards

It is necessary to study how many input channels DAPHNE can support using the GbEth communication protocol

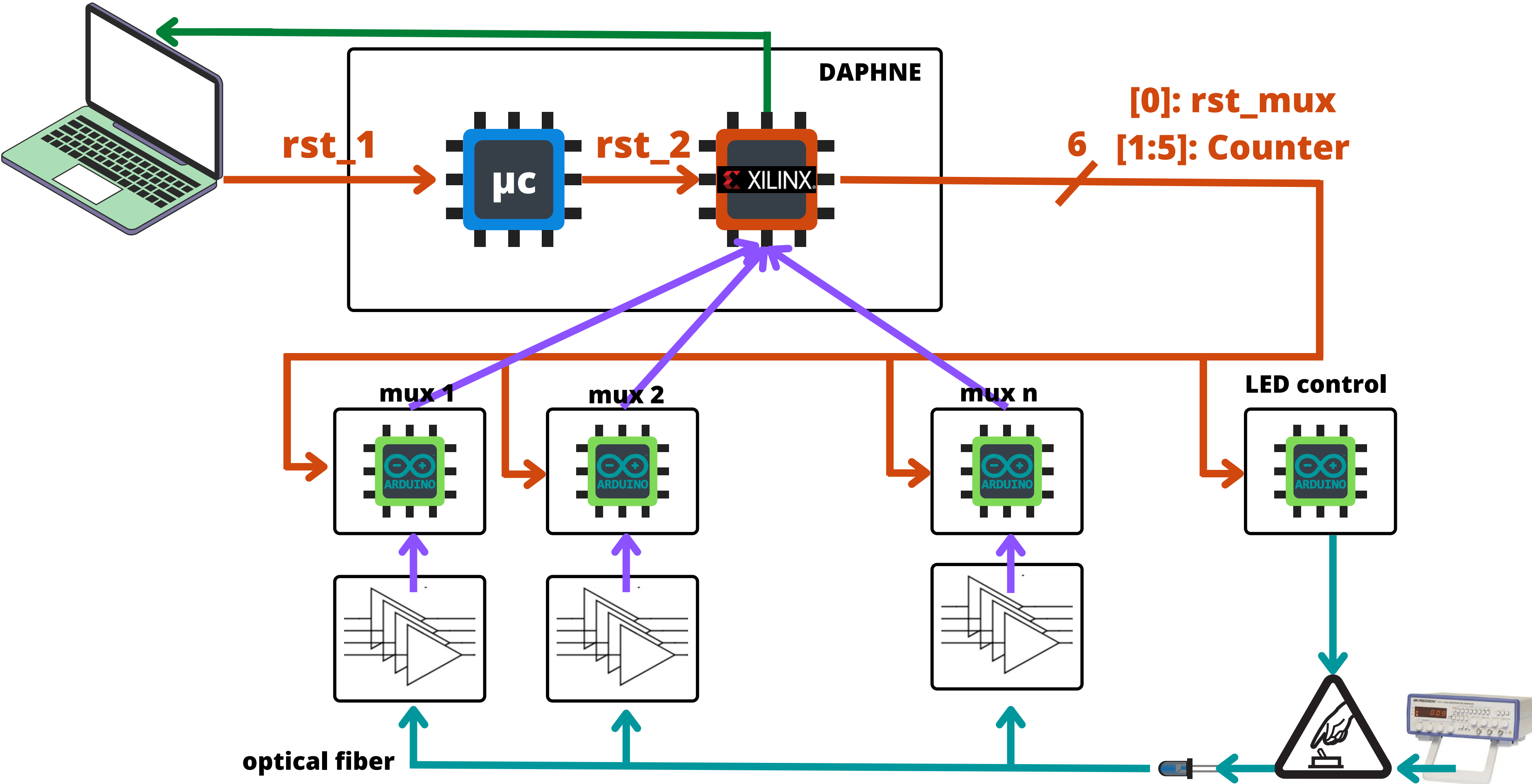
Then study if it is necessary to add more SiPMs per channel or install a pseudo FELIX system to use the FM protocol.



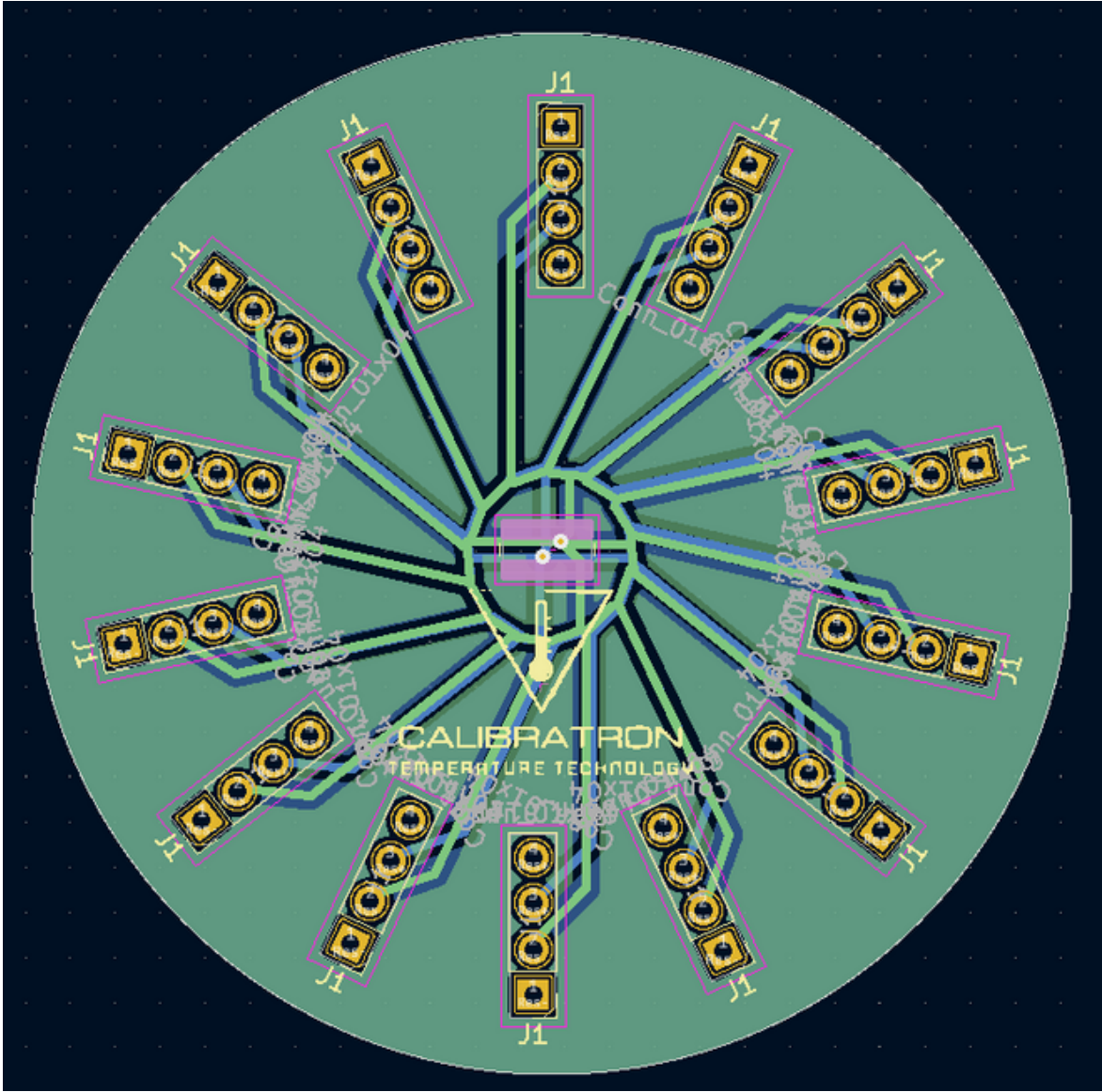
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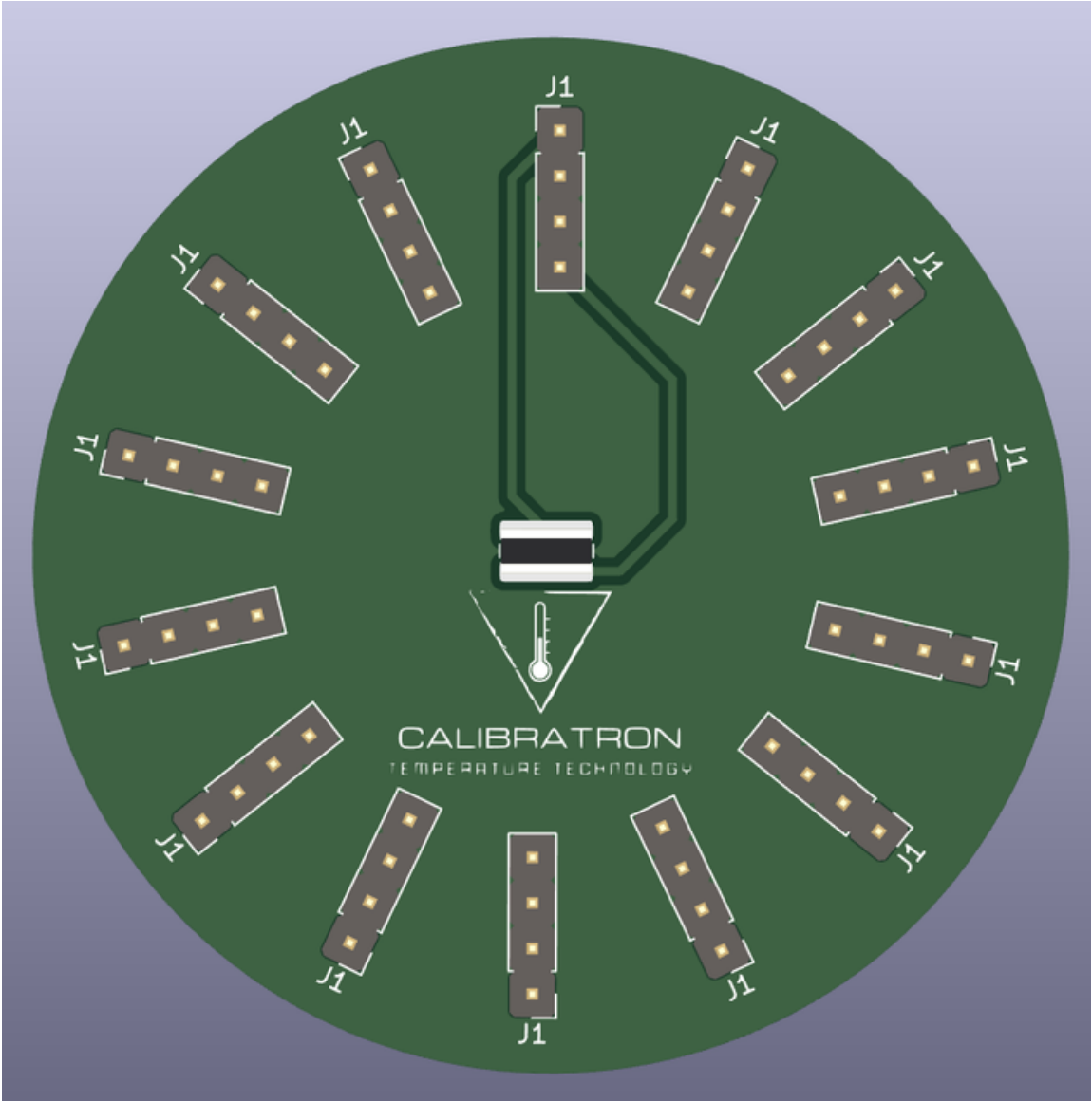
# MASSIBO SYSTEM



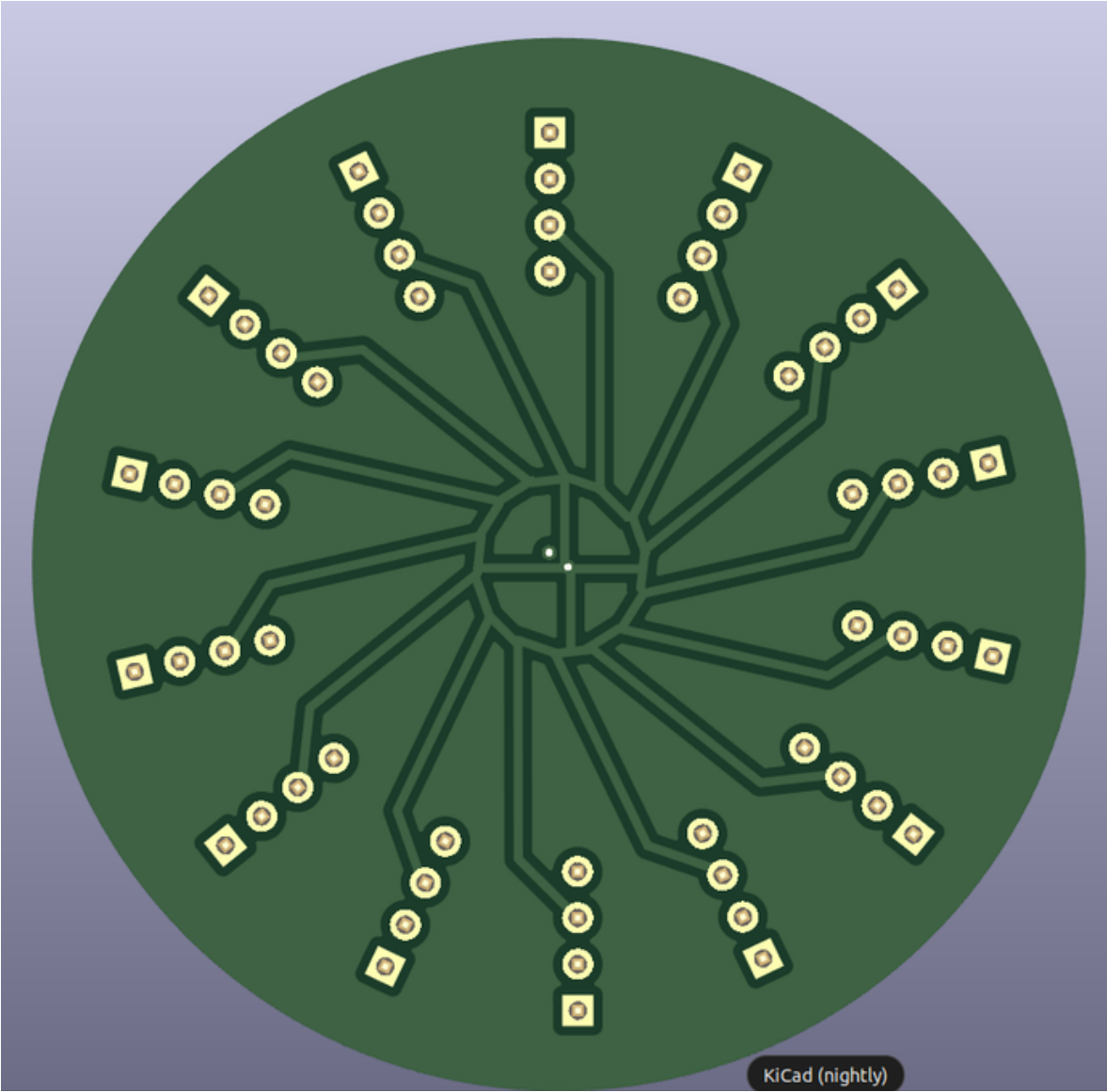
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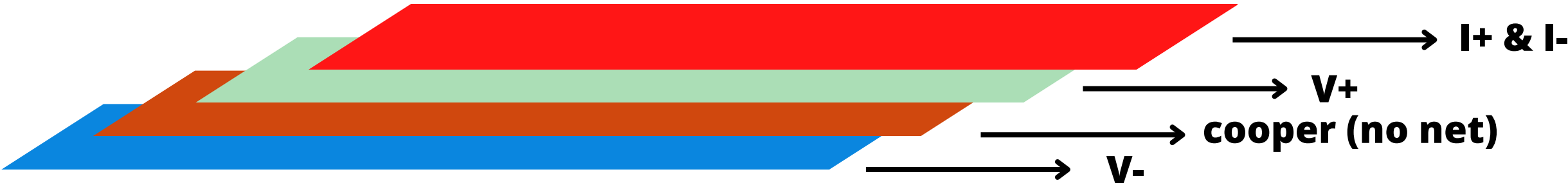
pcb layout



ToV



BoV



**THANK  
YOU!**

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# NDGAR BOARD

it does not work

it does work

it does not work

it does work but not well

