

TFPX Modules Meeting

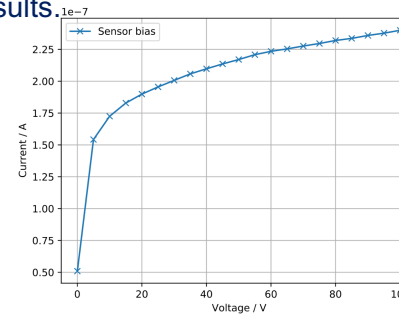
CROC & RD53A Probing Update

Beren Ozek, Cecilia E. Gerber, Ricardo Escobar, Titas Roy

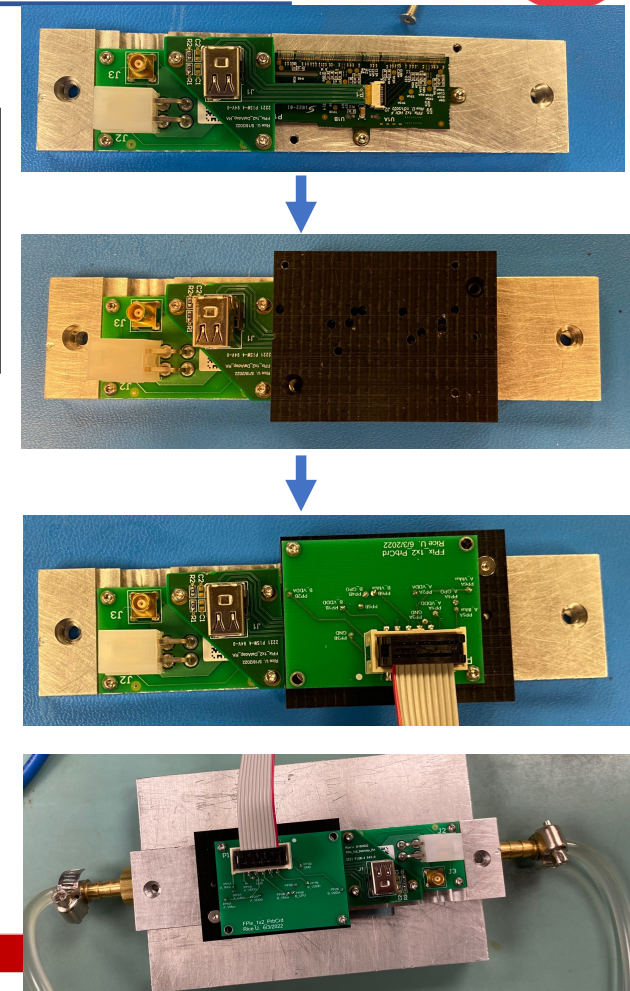
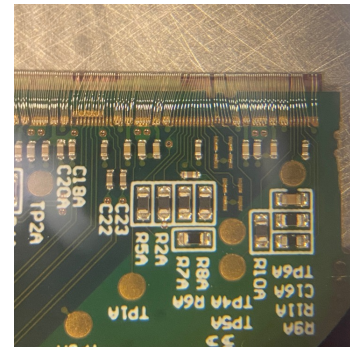
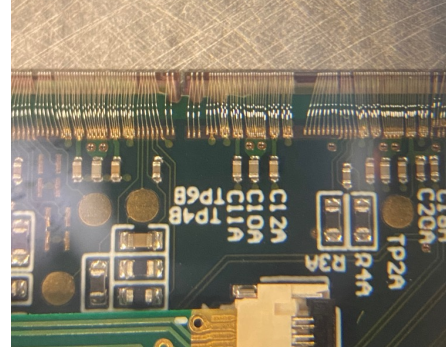
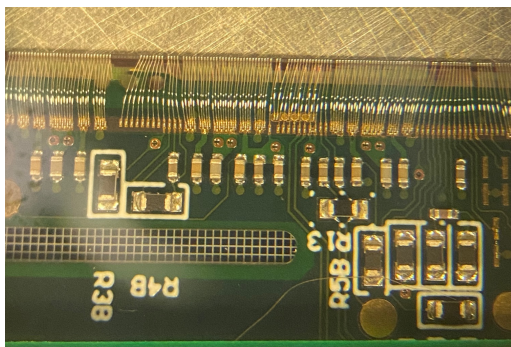
University of Illinois at Chicago

CROC – RH0009

- Familiarize with probing software and verify setup functionality.
 - Chose RH9 due to successful past tests and available results.
 - Wire bonds observed clean under the microscope
 - Anticipated correct results from probing.
- Activated devices: safe_mode_on.py (✓ Successful)
- IV Curve: sensor_iv_curve.py (✓ Successful, output below)
- Probing script : test_slido_full.py (✗ Errors related to Arduino)



```
Traceback (most recent call last):
  File "test_slido_full.py", line 79, in <module>
    arduino_ctrl.preset_arduino(uno)
  File "/home/TFPX2/Desktop/testscripts/lib/control_arduino/arduino_ctrl.py", line 20, in preset_arduino
    intvalue = int(value)
ValueError: invalid literal for int() with base 10: 'ASCII Table ~ Character Map\r\n'
```

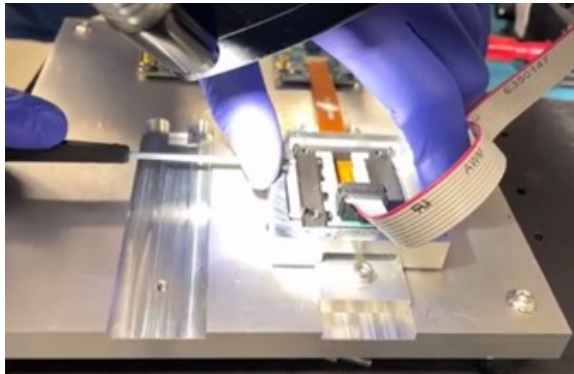


RD53A Module Probing

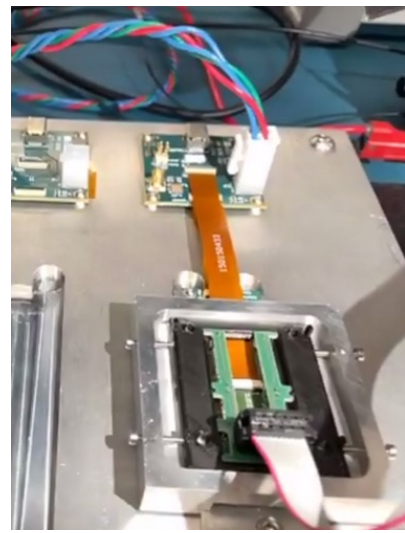
- Dr. Matthew Jones demonstrated probing on a RD53A module.
- 8+1 pins: 2 each for VDDD & VDDA measurements of one ROC; 1 for grounding.



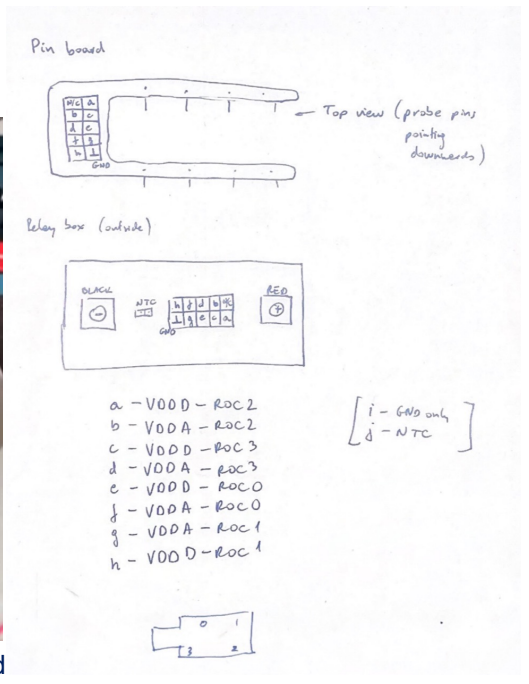
Pins aligned with gold parts



Tightening screws from sides



Final look after placing probe card



Map for the pin connections of ROCs

Digital RD53A, ZH0007 – Experiences and Challenges

- Damaged wirebonds on ROC0 & ROC1.

